

15-163-23592

S-10s-20w

ks  
IND



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drilling**

250 N Water Ste. 300  
Wichita KS 67202

ATTN: Rocky Milford

**5 10S 20W Rooks KS**

**Towns #1-5**

Start Date: 2007.04.16 @ 08:27:35

End Date: 2007.04.16 @ 15:44:29

Job Ticket #: 27858                      DST #: 1

**KCC  
APR 10 2007  
CONFIDENTIAL**

Murfin Drilling

Towns #1-5

5 10S 20W Rooks KS

DST # 1

10/10/07 - LNU

AVIATION

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2007.04.20 @ 11:12:38 Page 1  
**RECEIVED**  
KANSAS CORPORATION COMMISSION

**AUG 15 2007**

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling  
250 N Water Ste. 300  
Wichita KS 67202  
ATTN: Rocky Milford

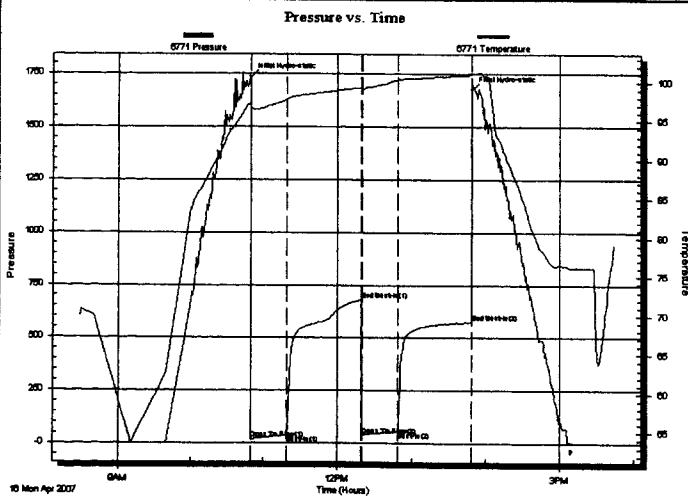
**Towns #1-5**  
**5 10S 20W Rooks KS**  
Job Ticket: 27858      **DST#: 1**  
Test Start: 2007.04.16 @ 08:27:35

## GENERAL INFORMATION:

Formation: **Toronto - LKC "C"**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 10:50:15  
Time Test Ended: 15:44:29  
Interval: **3482.00 ft (KB) To 3576.00 ft (KB) (TVD)**  
Total Depth: **3576.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition:  
Test Type: **Conventional Bottom Hole**  
Tester: **Brian Fairbank**  
Unit No: **41**  
Reference Elevations: **2248.00 ft (KB)**  
**2243.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 6771**      **Inside**  
Press@RunDepth: **55.98 psig @ 3488.01 ft (KB)**  
Start Date: **2007.04.16**      End Date: **2007.04.16**  
Start Time: **08:27:35**      End Time: **15:44:29**  
Capacity: **7000.00 psig**  
Last Calib.: **2007.04.16**  
Time On Btmr: **2007.04.16 @ 10:50:00**  
Time Off Btmr: **2007.04.16 @ 13:48:29**

**TEST COMMENT:** IFP Weak blow throughout sur - 1/2 "  
ISI No blow back  
FFP No blow  
FSI No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1732.38	97.38	Initial Hydro-static
1	17.70	96.69	Open To Flow (1)
30	37.31	97.76	Shut-in(1)
90	681.05	99.29	End Shut-in(1)
90	39.10	99.12	Open To Flow (2)
119	55.98	100.24	Shut-in(2)
179	574.39	100.93	End Shut-in(2)
179	1674.74	101.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	100%M	0.32

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling

**Towns #1-5**

250 N Water Ste. 300  
Wichita KS 67202

**5 10S 20W Rooks KS**

Job Ticket: 27858

**DST#: 1**

ATTN: Rocky Milford

Test Start: 2007.04.16 @ 08:27:35

### Tool Information

Drill Pipe:	Length: 3289.00 ft	Diameter: 3.80 inches	Volume: 46.14 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: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 42000.00 lb
			<b>Total Volume: 47.05 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3482.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.02 ft			
Tool Length:	119.02 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			3462.00	
Hydraulic tool	5.00			3467.00	
Jars	5.00			3472.00	
Packer	5.00			3477.00	25.00 Bottom Of Top Packer
Packer	5.00			3482.00	
Stubb	1.00			3483.00	
Perforations	5.00			3488.00	
Recorder	0.01	6771	Inside	3488.01	
Change Over Sub	1.00			3489.01	
Blank Spacing	63.00			3552.01	
Change Over Sub	1.00			3553.01	
Perforations	20.00			3573.01	
Recorder	0.01	13548	Outside	3573.02	
Bullnose	3.00			3576.02	94.02 Bottom Packers & Anchor

**Total Tool Length: 119.02**

**KCC  
APR 10 2007  
CONFIDENTIAL**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling

**Towns #1-5**

250 N Water Ste. 300  
Wichita KS 67202

**5 10S 20W Rooks KS**

Job Ticket: 27858

**DST#: 1**

ATTN: Rocky Milford

Test Start: 2007.04.16 @ 08:27:35

### 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: 67.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
65.00	100%M	0.320

Total Length: 65.00 ft

Total Volume: 0.320 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

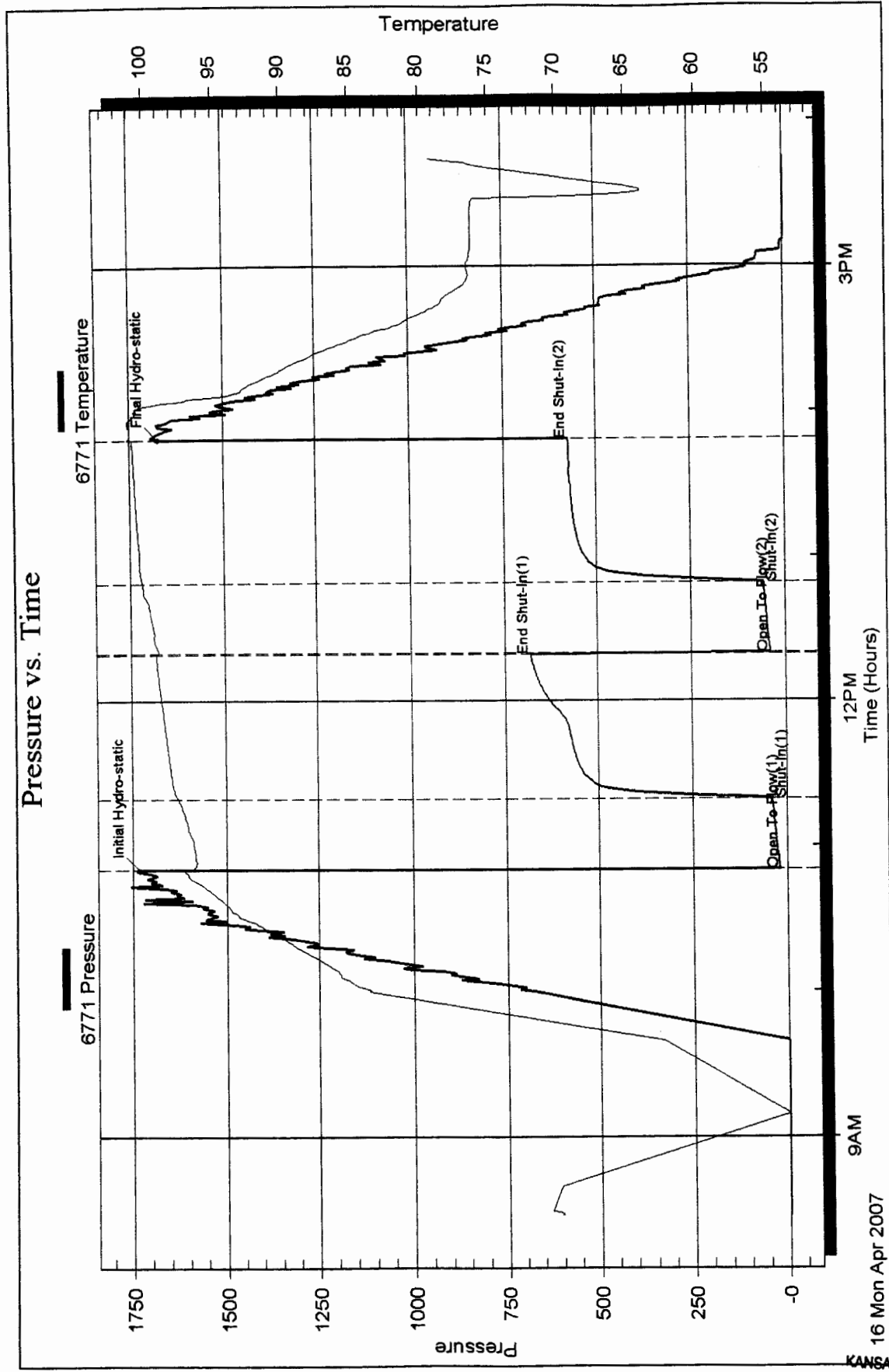
5 10S 20W Rocks KS

Murfin Drilling

Inside

Serial #: 6771

### Pressure vs. Time



**KCC**  
**APR 10 2007**  
**CONFIDENTIAL**

Ref. No: 27858

Mobile Testing, Inc

RECEIVED  
KANSAS CORPORATION COMMISSION

**AUG 15 2007**

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling**

250 N Water Ste. 300  
Wichita KS 67202

ATTN: Rocky Milford

**5 10S 20W Rooks KS**

**Towns #1-5**

Start Date: 2007.04.17 @ 01:36:28

End Date: 2007.04.17 @ 09:32:07

Job Ticket #: 27859                      DST #: 2

**KCC  
APR 10 2007  
CONFIDENTIAL**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2007.04.20 @ 11:12:58 Page 1  
**RECEIVED**  
KANSAS CORPORATION COMMISSION

**AUG 15 2007**

CONSERVATION DIVISION  
WICHITA, KS

Murfin Drilling

Towns #1-5

5 10S 20W Rooks KS

DST # 2

LKC "D-G"

2007.04.20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling  
250 N Water Ste. 300  
Wichita KS 67202  
ATTN: Rocky Milford

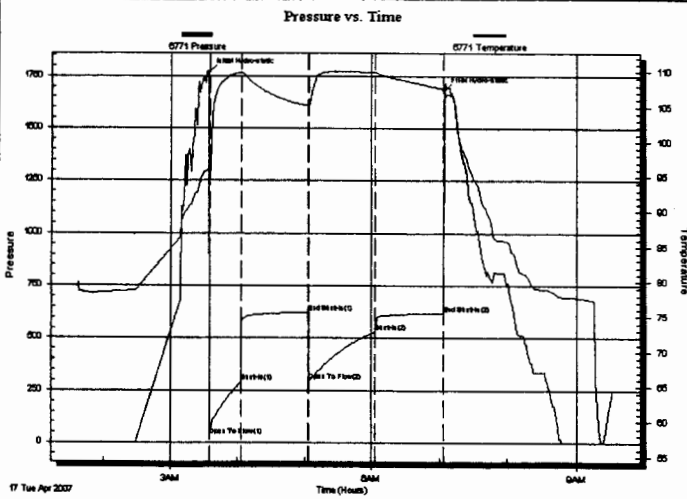
**Towns #1-5**  
**5 10S 20W Rooks KS**  
Job Ticket: 27859      **DST#: 2**  
Test Start: 2007.04.17 @ 01:36:28

## GENERAL INFORMATION:

Formation: **LKC "D-G"**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 03:34:23  
Time Test Ended: 09:32:07  
Interval: **3574.00 ft (KB) To 3628.00 ft (KB) (TVD)**  
Total Depth: **3628.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition:  
Test Type: **Conventional Bottom Hole**  
Tester: **Brian Fairbank**  
Unit No: **41**  
Reference Elevations: **2248.00 ft (KB)**  
**2243.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 6771      Inside**  
Press@RunDepth: **529.94 psig @ 3577.01 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2007.04.17**      End Date: **2007.04.17**      Last Calib.: **2007.04.17**  
Start Time: **01:36:28**      End Time: **09:32:07**      Time On Btrn: **2007.04.17 @ 03:34:08**  
Time Off Btrn: **2007.04.17 @ 07:04:07**

**TEST COMMENT:** IFP - BOB 4 min.  
ISI - sur blow back - died 35 min.  
FFP - BOB 6 min.  
FSI - no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1767.04	95.98	Initial Hydro-static
1	31.02	95.48	Open To Flow (1)
29	289.49	109.80	Shut-In(1)
89	622.72	105.13	End Shut-In(1)
90	293.87	105.11	Open To Flow (2)
150	529.94	109.84	Shut-In(2)
210	618.50	107.56	End Shut-In(2)
210	1680.45	108.05	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
965.00	MW 60% W, 40% M	11.84
90.00	MW 95% W, 5% M	1.26

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfyn Drilling

**Towns #1-5**

250 N Water Ste. 300  
Wichita KS 67202

**5 10S 20W Rooks KS**

Job Ticket: 27859

**DST#: 2**

ATTN: Rocky Milford

Test Start: 2007.04.17 @ 01:36:28

**Tool Information**

Drill Pipe:	Length: 3382.00 ft	Diameter: 3.80 inches	Volume: 47.44 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: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 45000.00 lb
			<b>Total Volume: 48.35 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3574.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.02 ft			
Tool Length:	74.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

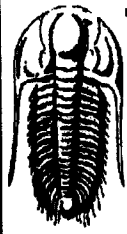
Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3559.00	
Hydraulic tool	5.00			3564.00	
Packer	5.00			3569.00	20.00 Bottom Of Top Packer
Packer	5.00			3574.00	
Stubb	1.00			3575.00	
Perforations	2.00			3577.00	
Recorder	0.01	6771	Inside	3577.01	
Change Over Sub	1.00			3578.01	
Blank Spacing	31.00			3609.01	
Change Over Sub	1.00			3610.01	
Perforations	15.00			3625.01	
Recorder	0.01	13548	Outside	3625.02	
Bullnose	3.00			3628.02	54.02 Bottom Packers & Anchor

**Total Tool Length: 74.02**

**KCC  
APR 10 2007  
CONFIDENTIAL**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling

Towns #1-5

250 N Water Ste. 300  
Wichita KS 67202

**5 10S 20W Rooks KS**

Job Ticket: 27859      **DST#: 2**

ATTN: Rocky Milford

Test Start: 2007.04.17 @ 01:36:28

### 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:	49000 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.17 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3500.00 ppm				
Filter Cake:	inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
965.00	MW 60% W, 40% M	11.842
90.00	MW 95% W, 5% M	1.262

Total Length: 1055.00ft      Total Volume: 13.104 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

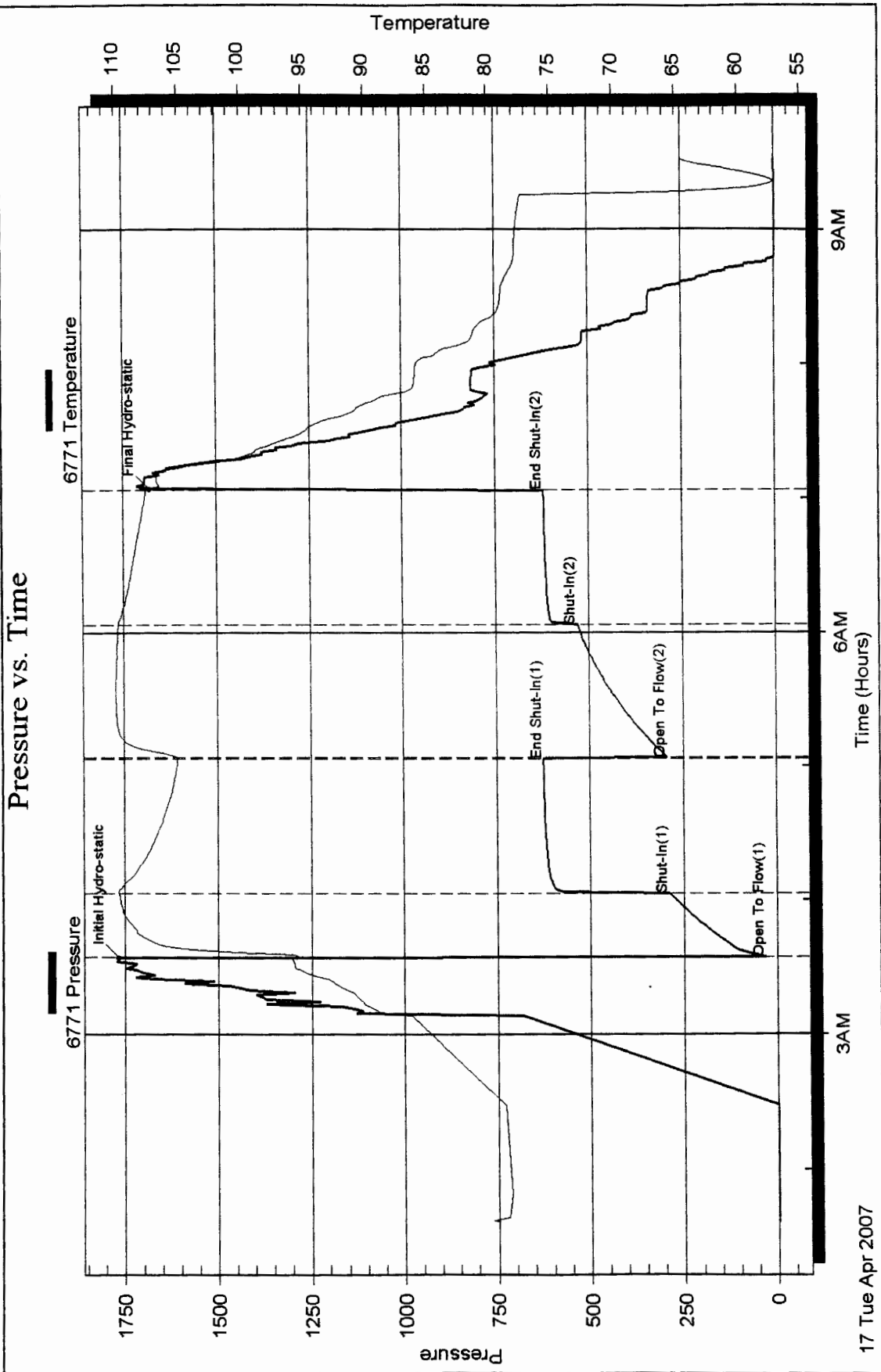
DST Test Number: 2

5 10S 20W Rooks KS

Inside Murfin Drilling

Serial #: 6771

### Pressure vs. Time



**KCC**  
**APR 10 2007**  
**CONFIDENTIAL**

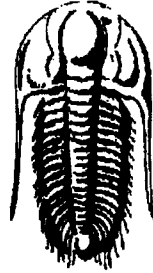
Ref. No: 27859

Hylobite Testing, Inc

RECEIVED  
KANSAS CORPORATION COMMISSION

**AUG 15 2007**

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drilling**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Rocky Milford

**5 10S 20W Rooks KS**

**Towns #1-5**

Start Date: 2007.04.17 @ 22:48:51

End Date: 2007.04.18 @ 05:49:15

Job Ticket #: 27860                      DST #: 3

**KCC  
APR 10 2007  
CONFIDENTIAL**

Murfin Drilling

Towns #1-5

5 10S 20W Rooks KS

DST # 3

LKC "H.L."

2007.04.17

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

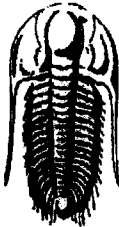
ph: 785-625-4778 fax: 785-625-5620

Printed: 2007.04.20 @ 11:13:25 Page 1

**RECEIVED  
KANSAS CORPORATION COMMISSION**

**AUG 15 2007**

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: Rocky Miford

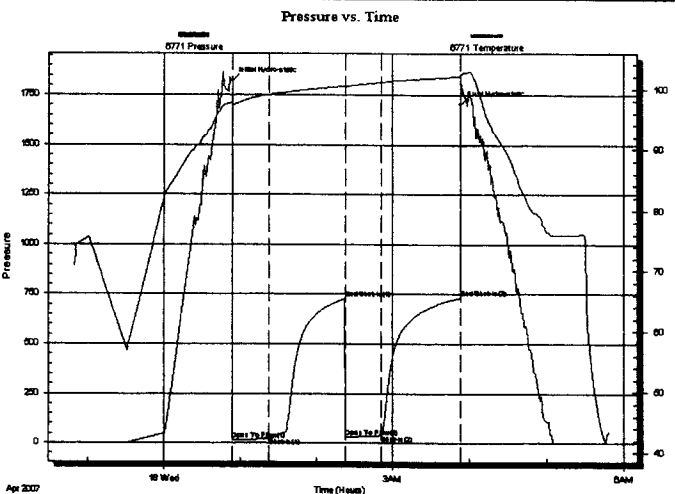
**Towns #1-5**  
**5 10S 20W Rooks KS**  
Job Ticket: 27860      **DST#: 3**  
Test Start: 2007.04.17 @ 22:48:51

### GENERAL INFORMATION:

Formation: **LKC "H-L"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 00:53:31  
Time Test Ended: 05:49:15  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 41  
Interval: **3642.00 ft (KB) To 3751.00 ft (KB) (TVD)**  
Reference Elevations: 2248.00 ft (KB)  
Total Depth: 3751.00 ft (KB) (TVD)      2243.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 5.00 ft

**Serial #: 6771      Inside**  
Press@RunDepth: 37.93 psig @ 3647.01 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2007.04.17      End Date: 2007.04.18      Last Calib.: 2007.04.18  
Start Time: 22:48:51      End Time: 05:49:15      Time On Btm: 2007.04.18 @ 00:53:16  
Time Off Btm: 2007.04.18 @ 03:53:30

**TEST COMMENT:** IFP Weak blow throughout - sur -1/4 "  
ISI No blow back  
FFP No blow  
FSI No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.86	97.75	Initial Hydro-static
1	13.20	97.30	Open To Flow (1)
29	23.94	99.00	Shut-In (1)
90	727.38	100.45	End Shut-in (1)
90	28.54	100.28	Open To Flow (2)
118	37.93	101.06	Shut-In (2)
180	731.67	102.02	End Shut-in (2)
181	1703.93	102.39	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M	0.05

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling

**Towns #1-5**

250 N Water Ste 300  
Wichita KS 67202

**5 10S 20W Rooks KS**

ATTN: Rocky Milford

Job Ticket: 27860

**DST#: 3**

Test Start: 2007.04.17 @ 22:48:51

**Tool Information**

Drill Pipe:	Length: 3442.00 ft	Diameter: 3.80 inches	Volume: 48.28 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: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 49.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3642.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	109.02 ft			
Tool Length:	153.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

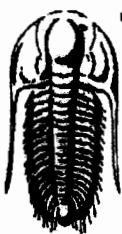
Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3603.00	
Telemetry Tool	24.00			3627.00	
Hydraulic tool	5.00			3632.00	
Packer	5.00			3637.00	44.00 Bottom Of Top Packer
Packer	5.00			3642.00	
Stubb	1.00			3643.00	
Perforations	4.00			3647.00	
Recorder	0.01	6771	Inside	3647.01	
Change Over Sub	1.00			3648.01	
Blank Spacing	94.00			3742.01	
Change Over Sub	1.00			3743.01	
Perforations	5.00			3748.01	
Recorder	0.01	13548	Outside	3748.02	
Bullnose	3.00			3751.02	109.02 Bottom Packers & Anchor

**Total Tool Length: 153.02**

**KCC  
APR 10 2007  
CONFIDENTIAL**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: Rocky Milford

**Towns #1-5**  
**5 10S 20W Rooks KS**  
Job Ticket: 27860      **DST#: 3**  
Test Start: 2007.04.17 @ 22:48:51

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: 7.96 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4400.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig  
Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%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:

Serial #: 6771

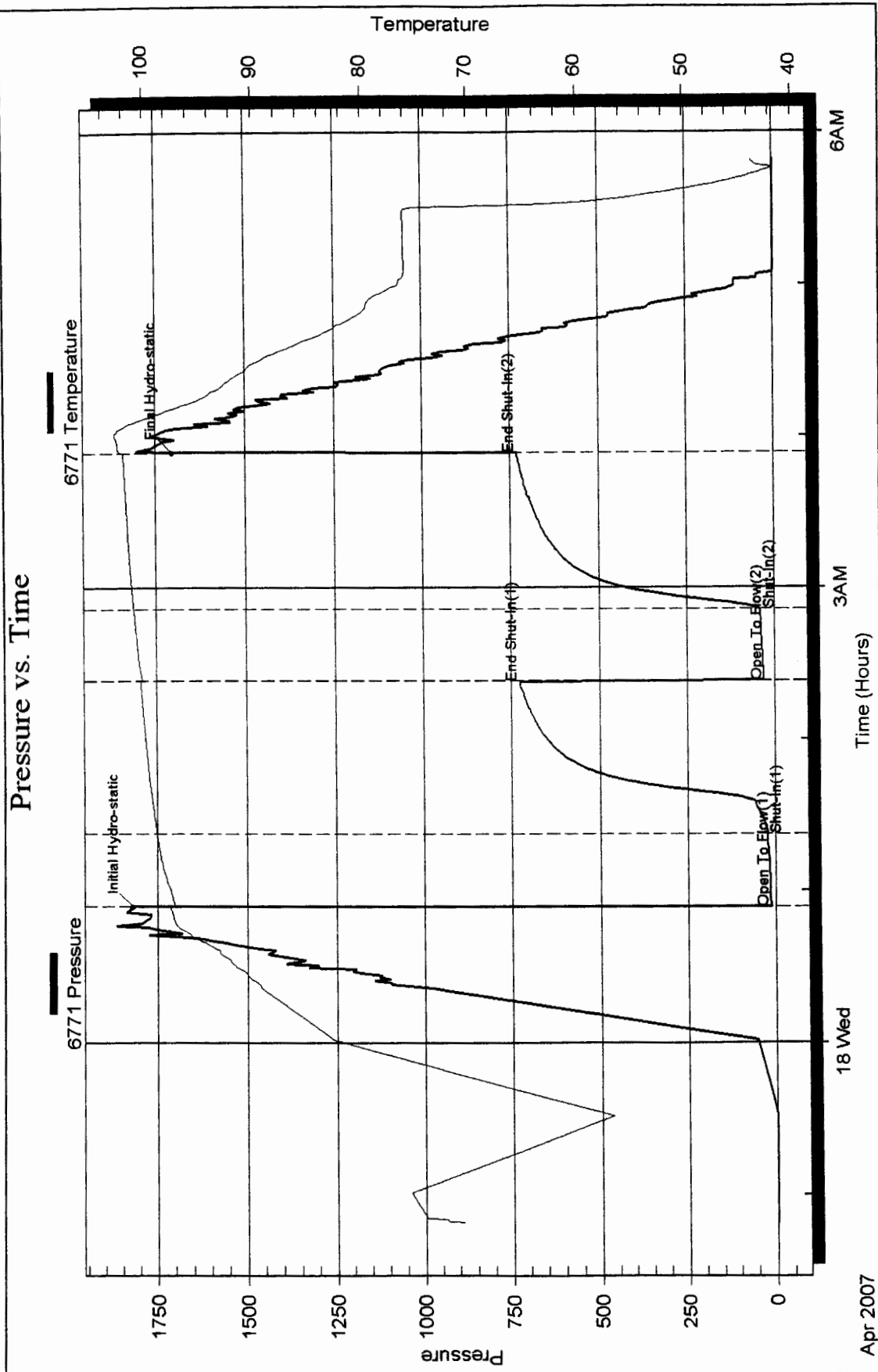
Inside

Murfin Drilling

5 10S 20W Rocks KS

DST Test Number: 3

### Pressure vs. Time



**KCC**  
**APR 10 2007**  
**CONFIDENTIAL**

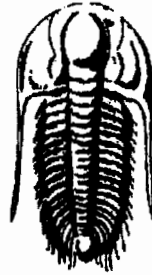
Ref. No: 27860

Mobile Testing, Inc

RECEIVED  
 KANSAS CORPORATION COMMISSION

AUG 15 2007

CONSERVATION DIVISION  
 WICHITA, KS



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Rocky Milford

**5 10S 20W Rooks KS**

**Towns #1-5**

Start Date: 2007.04.18 @ 16:33:37

End Date: 2007.04.19 @ 01:51:02

Job Ticket #: 27861                      DST #: 4

**KCC**  
**APR 10 2007**  
**CONFIDENTIAL**

Murfin Drilling

Towns #1-5

5 10S 20W Rooks KS

DST # 4

Arbuckle

2007.04.18

Trilobite Testing, Inc

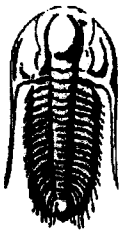
PO Box 362 Hays, KS 67601

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

Printed: 2007.04.20 @ 11:13:50 Page 1  
**RECEIVED**  
KANSAS CORPORATION COMMISSION

**AUG 15 2007**

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: Rocky Milford

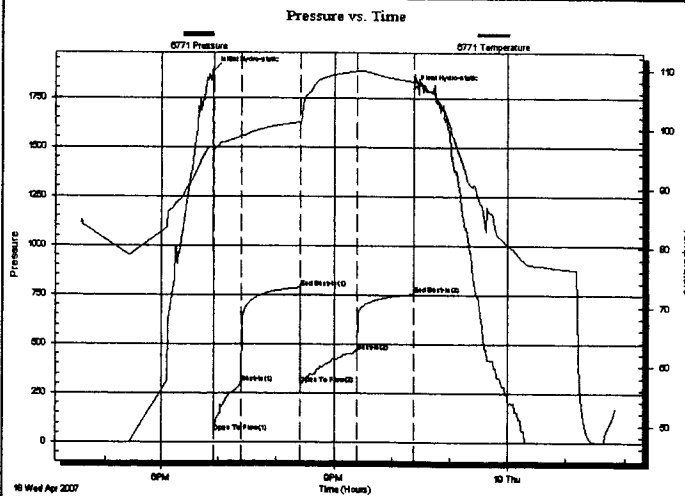
**Towns #1-5**  
**5 10S 20W Rooks KS**  
Job Ticket: 27861      **DST#: 4**  
Test Start: 2007.04.18 @ 16:33:37

### GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: **No** Whipstock:                      ft (KB)  
Time Tool Opened: 18:55:17  
Time Test Ended: 01:51:02  
Interval: **3728.00 ft (KB) To 3840.00 ft (KB) (TVD)**  
Total Depth: **3840.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition:                      KB to GR/CF: **5.00 ft**  
Test Type: **Conventional Bottom Hole**  
Tester: **Brian Fairbank**  
Unit No: **41**  
Reference Elevations: **2248.00 ft (KB)**  
**2243.00 ft (CF)**

**Serial #: 6771**      **Inside**  
Press@RunDepth: **461.95 psig @ 3731.01 ft (KB)**  
Start Date: **2007.04.18**      End Date: **2007.04.19**  
Start Time: **16:33:37**      End Time: **01:51:02**  
Capacity: **7000.00 psig**  
Last Calib.: **2007.04.19**  
Time On Btm: **2007.04.18 @ 18:54:47**  
Time Off Btm: **2007.04.18 @ 22:23:01**

TEST COMMENT: IFP BOB 4 min.  
ISI No blow back  
FFP BOB 9 min.  
FSI No blow back



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.71	97.01	Initial Hydro-static
1	49.35	96.57	Open To Flow (1)
29	297.74	98.76	Shut-In(1)
90	784.83	101.17	End Shut-In(1)
90	292.83	101.04	Open To Flow (2)
149	461.95	109.75	Shut-In(2)
208	753.97	107.99	End Shut-In(2)
209	1796.11	108.36	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
320.00	GHCW 20%G 30%O 50%W	2.79
120.00	G&WOCM 20%G 30%O 20%W 30%M	1.68
120.00	GMCO 10%G 70%O 20%M	1.68
245.00	GOCM 10%G 20%O 70%M	3.44
75.00	MUD SCUM OIL 100%M	1.05

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling

Towns #1-5

250 N Water Ste 300  
Wichita KS 67202

5 10S 20W Rooks KS

Job Ticket: 27861

DST#: 4

ATTN: Rocky Milford

Test Start: 2007.04.18 @ 16:33:37

**Tool Information**

Drill Pipe:	Length: 3536.00 ft	Diameter: 3.80 inches	Volume: 49.60 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: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 50.51 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3728.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	112.02 ft			
Tool Length:	132.02 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			3713.00	
Hydraulic tool	5.00			3718.00	
Packer	5.00			3723.00	20.00 Bottom Of Top Packer
Packer	5.00			3728.00	
Stubb	1.00			3729.00	
Perforations	2.00			3731.00	
Recorder	0.01	6771	inside	3731.01	
Change Over Sub	1.00			3732.01	
Blank Spacing	94.00			3826.01	
Change Over Sub	1.00			3827.01	
Perforations	10.00			3837.01	
Recorder	0.01	13548	Outside	3837.02	
Bullnose	3.00			3840.02	112.02 Bottom Packers & Anchor

**Total Tool Length: 132.02**

**KCC  
APR 10 2007  
CONFIDENTIAL**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling

**Towns #1-5**

250 N Water Ste 300  
Wichita KS 67202

**5 10S 20W Rooks KS**

Job Ticket: 27861

**DST#: 4**

ATTN: Rocky Milford

Test Start: 2007.04.18 @ 16:33:37

**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:

29000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
320.00	GHOOW 20%G 30%O 50%W	2.794
120.00	G&WOOW 20%G 30%O 20%W 30%M	1.683
120.00	GMOO 10%G 70%O 20%M	1.683
245.00	GOOW 10%G 20%O 70%M	3.437
75.00	MUD SCUM OIL 100%M	1.052

Total Length: 880.00 ft

Total Volume: 10.649 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

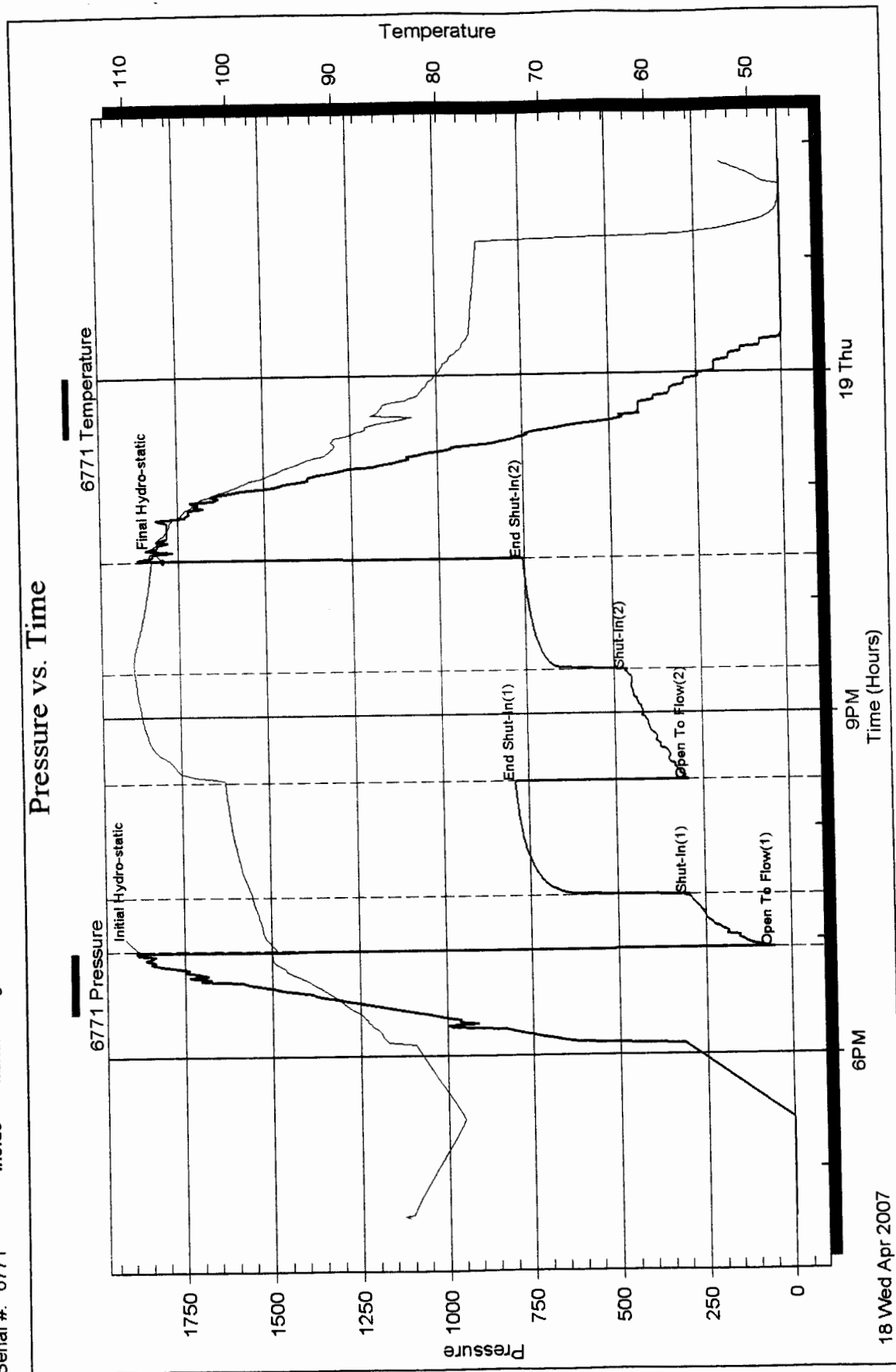
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Tool was plugged

### Pressure vs. Time



RECEIVED  
KANSAS CORPORATION COMMISSION

AUG 15 2007

CONSERVATION DIVISION  
WICHITA, KS