



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**17 14S 16W Ellis KS**

**Schippers #1-17**

Start Date: 2006.04.21 @ 00:07:32

End Date: 2006.04.21 @ 06:46:17

Job Ticket #: 23957                      DST #: 1

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 Inc

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**Schippers #1-17**

**17 14S 16W Ellis KS**

Job Ticket: 23957

DST#: 1

Test Start: 2006.04.21 @ 00:07:32

## GENERAL INFORMATION:

Formation: **LKC-"A-B-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:04:32

Time Test Ended: 06:46:17

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3131.00 ft (KB) To 3200.00 ft (KB) (TVD)**

Total Depth: 3200.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1889.00 ft (KB)

1884.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6719**

Inside

Press@RunDepth: 83.06 psig @ 3135.00 ft (KB)

Start Date: 2006.04.21

End Date:

2006.04.21

Start Time: 00:07:34

End Time:

06:46:17

Capacity: 7000.00 psig

Last Calib.: 2006.04.21

Time On Btm: 2006.04.21 @ 02:04:17

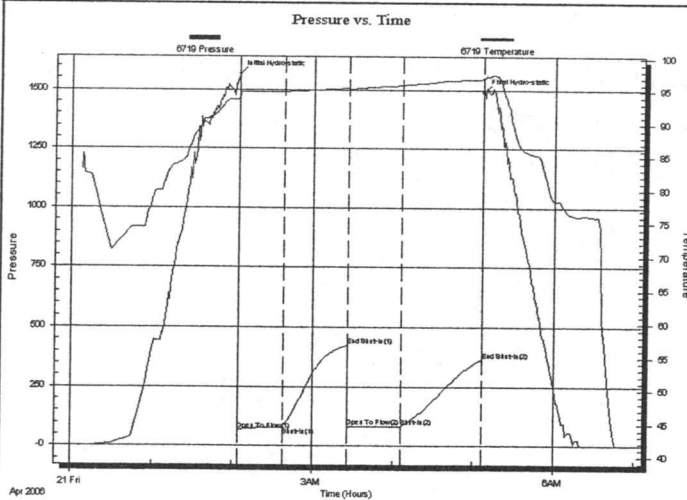
Time Off Btm: 2006.04.21 @ 05:07:02

TEST COMMENT: IFF Tool Slid 7" Bled off Initial Blow Built Back to 1-1/4"

ISI Dead

FFP Dead For 28" Weak Surf Blow

FSI Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1563.74	93.92	Initial Hydro-static
1	65.59	93.67	Open To Flow (1)
34	78.87	94.95	Shut-In(1)
82	423.50	95.47	End Shut-In(1)
82	80.77	95.39	Open To Flow (2)
123	83.06	95.95	Shut-In(2)
183	363.95	96.88	End Shut-In(2)
183	1489.83	97.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	Mud W/Oil Specks in Some	0.61

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Company Inc  
250N Water St Ste 300  
Wichita KS 67202  
ATTN: Brad Rine

**Schippers #1-17**  
**17 14S 16W Ellis KS**  
Job Ticket: 23957      **DST#: 1**  
Test Start: 2006.04.21 @ 00:07:32

**Tool Information**

Drill Pipe:	Length: 2951.00 ft	Diameter: 3.80 inches	Volume: 41.39 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 45000.00 lb
		<b>Total Volume:</b>	<b>42.29 bbl</b>	Tool Chased 7.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3131.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	92.00 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			3109.00	
Shut In Tool	5.00			3114.00	
Hydraulic tool	5.00			3119.00	
Safety Joint	2.00			3121.00	
Packer	5.00			3126.00	23.00      Bottom Of Top Packer
Packer	5.00			3131.00	
Stubb	1.00			3132.00	
Perforations	2.00			3134.00	
Change Over Sub	1.00			3135.00	
Recorder	0.00	6719	Inside	3135.00	
Blank Spacing	31.00			3166.00	
Change Over Sub	1.00			3167.00	
Perforations	30.00			3197.00	
Recorder	0.00	13221	Outside	3197.00	
Bullnose	3.00			3200.00	69.00      Bottom Packers & Anchor

**Total Tool Length:    92.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

**Schippers #1-17**

250N Water St Ste 300  
Wichita KS 67202

**17 14S 16W Ellis KS**

Job Ticket: 23957

**DST#: 1**

ATTN: Brad Rine

Test Start: 2006.04.21 @ 00:07:32

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 5.98 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6400.00 ppm

Filter Cake: 2.00 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
125.00	Mud W/Oil Specks in Some	0.615

Total Length: 125.00 ft      Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

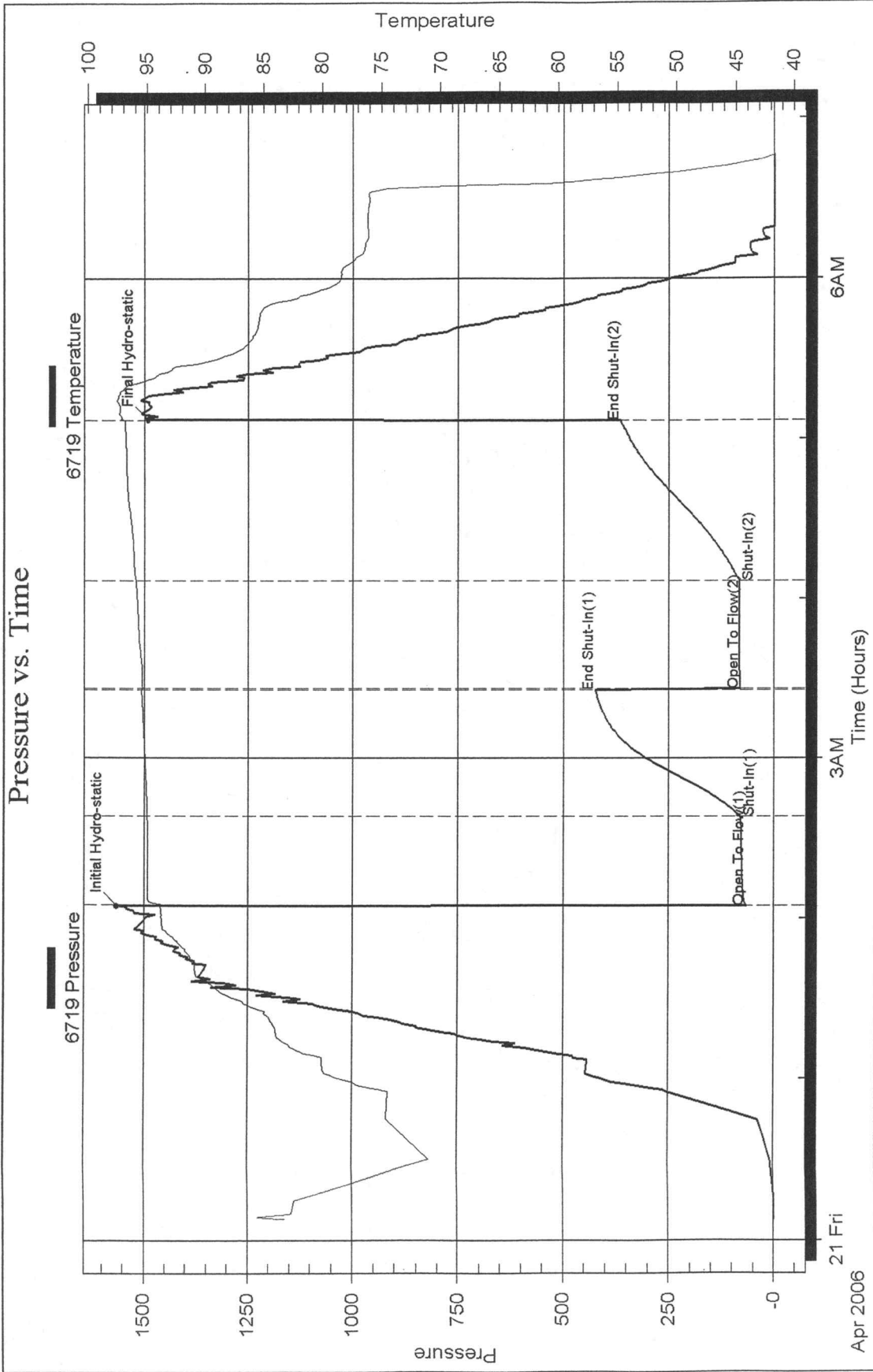
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**17 14S 16W Ellis KS**

**Schippers #1-17**

Start Date: 2006.04.21 @ 16:39:18

End Date: 2006.04.21 @ 23:46:48

Job Ticket #: 23958                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company Inc

Schippers #1-17

17 14S 16W Ellis KS

DST # 2

LKC-"E-F"

2006.04.21



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**Schippers #1-17**

**17 14S 16W Ellis KS**

Job Ticket: 23958

**DST#: 2**

Test Start: 2006.04.21 @ 16:39:18

### GENERAL INFORMATION:

Formation: **LKC-"E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:34:03

Time Test Ended: 23:46:48

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3204.00 ft (KB) To 3232.00 ft (KB) (TVD)**

Total Depth: 3232.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1889.00 ft (KB)

1884.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6719** Inside

Press@RunDepth: 183.42 psig @ 3209.00 ft (KB)

Start Date: 2006.04.21

End Date:

2006.04.21

Start Time: 16:39:20

End Time:

23:46:48

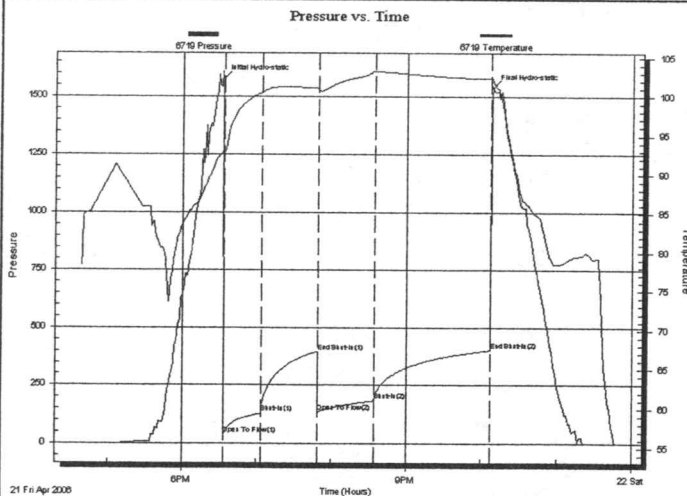
Capacity: 7000.00 psig

Last Calib.: 2006.04.21

Time On Btm: 2006.04.21 @ 18:33:18

Time Off Btm: 2006.04.21 @ 22:08:33

TEST COMMENT: IFF Good Blow BOB in 13"  
ISI Dead  
FFP Fair Blow BOB in 35"  
FSI Dead



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.00	93.00	Initial Hydro-static
1	38.99	92.86	Open To Flow (1)
31	128.60	100.53	Shut-In(1)
76	395.63	101.04	End Shut-In(1)
77	135.91	100.94	Open To Flow (2)
122	183.42	103.23	Shut-In(2)
215	400.96	102.29	End Shut-In(2)
216	1540.77	101.99	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
330.00	VSMW 95%W 5%M	2.96

### Gas Rates

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



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TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company Inc

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**Schippers #1-17**

**17 14S 16W Ellis KS**

Job Ticket: 23958

**DST#: 2**

Test Start: 2006.04.21 @ 16:39:18

### Tool Information

Drill Pipe:	Length: 3014.00 ft	Diameter: 3.80 inches	Volume: 42.28 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>43.18 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3204.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	51.00 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			3182.00	
Shut In Tool	5.00			3187.00	
Hydraulic tool	5.00			3192.00	
Safety Joint	2.00			3194.00	
Packer	5.00			3199.00	23.00 Bottom Of Top Packer
Packer	5.00			3204.00	
Stubb	1.00			3205.00	
Perforations	4.00			3209.00	
Recorder	0.00	6719	Inside	3209.00	
Perforations	20.00			3229.00	
Recorder	0.00	13221	Outside	3229.00	
Bullnose	3.00			3232.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

**Schippers #1-17**

250N Water St Ste 300  
Wichita KS 67202

**17 14S 16W Ellis KS**

Job Ticket: 23958

**DST#: 2**

ATTN: Brad Rine

Test Start: 2006.04.21 @ 16:39:18

### 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9300.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	VSMW 95%W 5%M	2.962

Total Length: 330.00 ft      Total Volume: 2.962 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

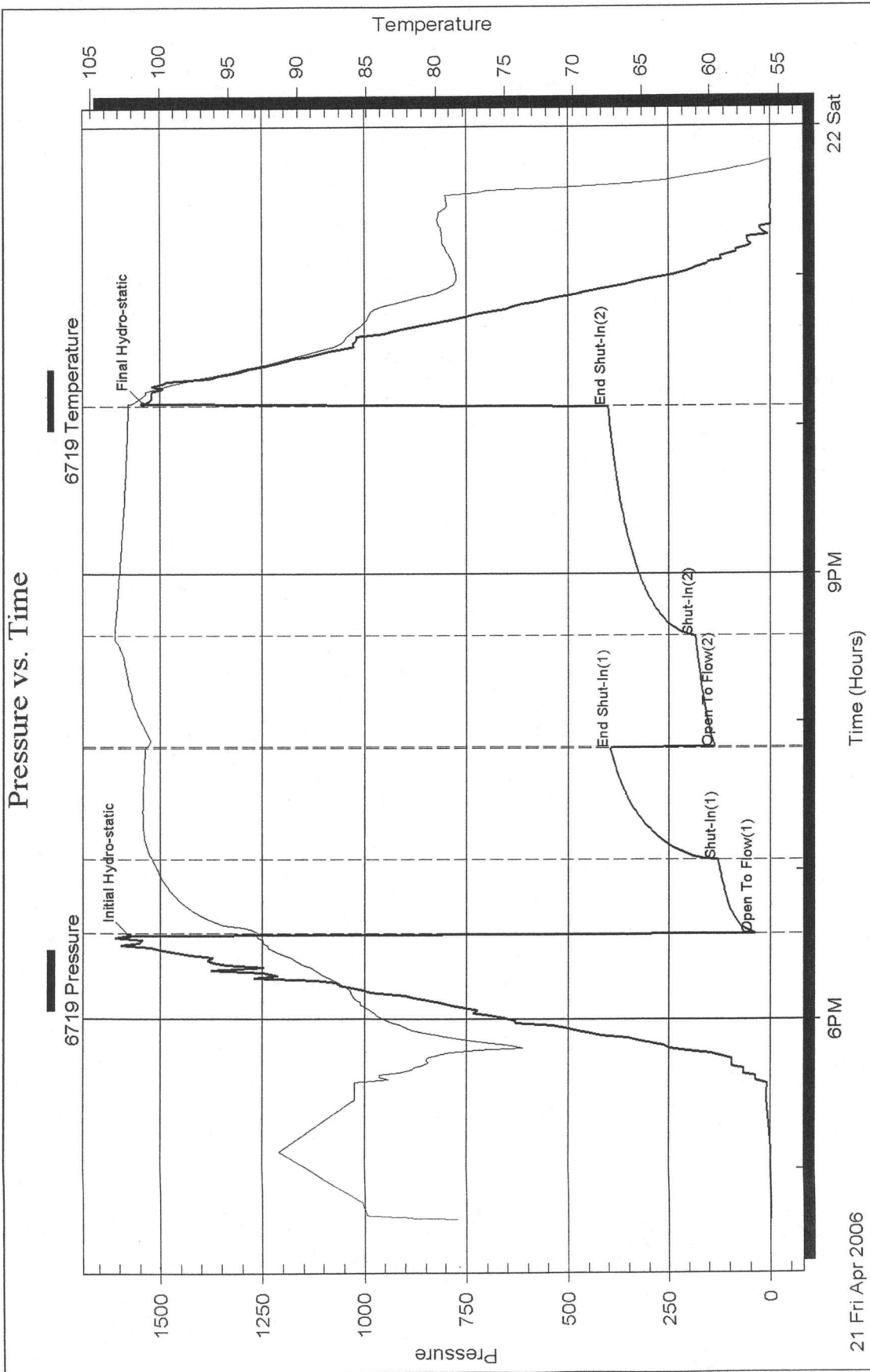
17 14S 16W Ellis KS

Murfin Drilling Company Inc

Inside

Serial #: 6719

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**17 14S 16W Ellis KS**

**Schippers #1-17**

Start Date: 2006.04.22 @ 06:40:21

End Date: 2006.04.22 @ 12:50:06

Job Ticket #: 23959                      DST #: 3

Trilobite Testing, Inc

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**Schippers #1-17**

**17 14S 16W Ellis KS**

Job Ticket: 23959

**DST#: 3**

Test Start: 2006.04.22 @ 06:40:21

## GENERAL INFORMATION:

Formation: **LKC-"G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:23:21

Time Test Ended: 12:50:06

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3237.00 ft (KB) To 3250.00 ft (KB) (TVD)**

Total Depth: 3250.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1889.00 ft (KB)

1884.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6719**

**Inside**

Press@RunDepth: 16.00 psig @ 3242.00 ft (KB)

Start Date: 2006.04.22

End Date:

2006.04.22

Start Time: 06:40:23

End Time:

12:50:06

Capacity: 7000.00 psig

Last Calib.: 2006.04.22

Time On Btm: 2006.04.22 @ 08:22:51

Time Off Btm: 2006.04.22 @ 11:25:36

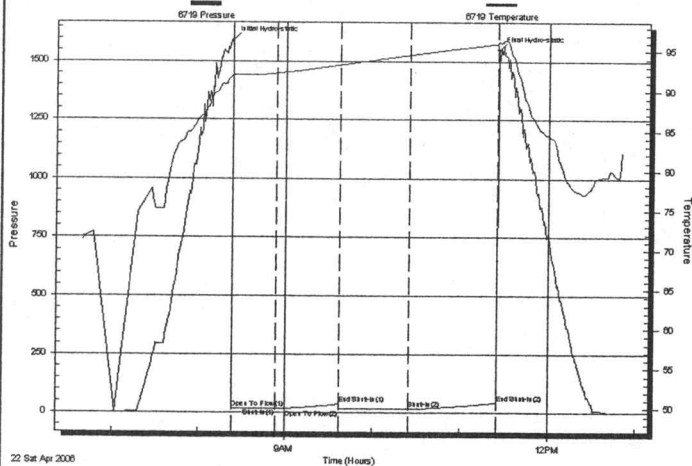
TEST COMMENT: IFP Weak Blow Building to 1"

ISI Dead

FFP Dead

FSI Dead

Pressure vs. Time



## PRESSURE SUMMARY

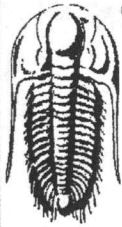
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.76	91.95	Initial Hydro-static
1	16.04	91.89	Open To Flow (1)
31	15.57	92.21	Shut-In(1)
75	37.02	93.28	End Shut-In(1)
75	14.56	93.29	Open To Flow (2)
122	16.00	94.54	Shut-In(2)
183	43.15	95.97	End Shut-In(2)
183	1549.51	96.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Company Inc

**Schippers #1-17**

250N Water St Ste 300  
Wichita KS 67202

**17 14S 16W Ellis KS**

Job Ticket: 23959

**DST#: 3**

ATTN: Brad Rine

Test Start: 2006.04.22 @ 06:40:21

**Tool Information**

Drill Pipe:	Length: 3044.00 ft	Diameter: 3.80 inches	Volume: 42.70 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 43.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3237.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	36.00 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			3215.00	
Shut In Tool	5.00			3220.00	
Hydraulic tool	5.00			3225.00	
Safety Joint	2.00			3227.00	
Packer	5.00			3232.00	23.00 Bottom Of Top Packer
Packer	5.00			3237.00	
Stubb	1.00			3238.00	
Perforations	4.00			3242.00	
Recorder	0.00	6719	Inside	3242.00	
Perforations	5.00			3247.00	
Recorder	0.00	13221	Outside	3247.00	
Bullnose	3.00			3250.00	13.00 Bottom Packers & Anchor

**Total Tool Length: 36.00**



**TRILOBITE  
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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

**Schippers #1-17**

250N Water St Ste 300  
Wichita KS 67202

**17 14S 16W Ellis KS**

Job Ticket: 23959

**DST#: 3**

ATTN: Brad Rine

Test Start: 2006.04.22 @ 06:40:21

### 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: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6719

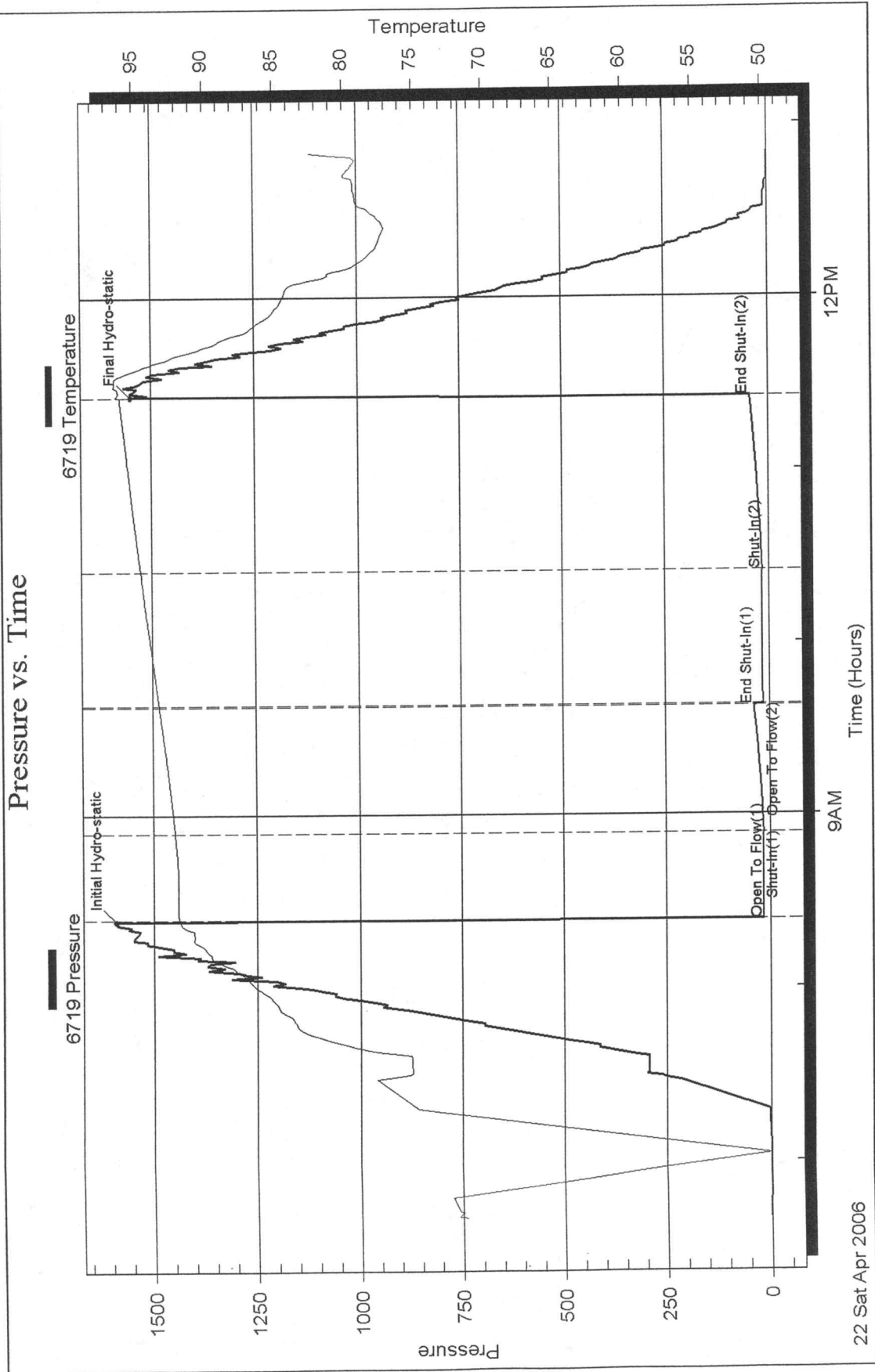
Inside

Murfin Drilling Company Inc

17 14S 16W Ellis KS

DST Test Number: 3

### Pressure vs. Time



22 Sat Apr 2006

12PM

9AM

Time (Hours)



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**17 14S 16W Ellis KS**

**Schippers #1-17**

Start Date: 2006.04.23 @ 02:24:20

End Date: 2006.04.23 @ 09:28:50

Job Ticket #: 23960                      DST #: 4

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 Inc

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**Schippers #1-17**

**17 14S 16W Ellis KS**

Job Ticket: 23960

**DST#: 4**

Test Start: 2006.04.23 @ 02:24:20

## GENERAL INFORMATION:

Formation: **"H-I-J-K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:57:05

Time Test Ended: 09:28:50

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3268.00 ft (KB) To 3379.00 ft (KB) (TVD)**

Total Depth: 3379.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1889.00 ft (KB)

1884.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6719** Inside

Press@RunDepth: 47.39 psig @ 3272.00 ft (KB)

Start Date: 2006.04.23

End Date:

2006.04.23

Start Time: 02:24:22

End Time:

09:28:50

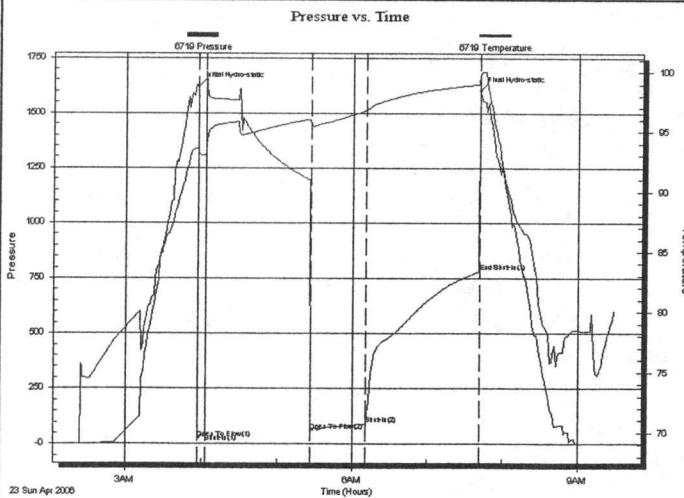
Capacity: 7000.00 psig

Last Calib.: 2006.04.23

Time On Btm: 2006.04.23 @ 03:56:50

Time Off Btm: 2006.04.23 @ 07:42:05

**TEST COMMENT:** IFFP Good Blow BOB in 5" After 6" Tool Slid 3' And Shut In Early  
ISI Dead  
FFP Good Blow BOB in 7"  
FSI Blow back Building to BOB



## PRESSURE SUMMARY

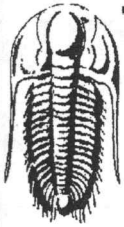
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.32	93.58	Initial Hydro-static
1	24.40	93.07	Open To Flow (1)
7	47.39	93.08	Shut-In(1)
90	57.19	95.64	Open To Flow (2)
134	90.96	96.80	Shut-In(2)
225	780.10	98.97	End Shut-In(1)
226	1602.83	99.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
175.00	Frothy OCM 30%G 20%O 50%M	0.86
25.00	Free Oil	0.28

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Company Inc

**Schippers #1-17**

250N Water St Ste 300  
Wichita KS 67202

**17 14S 16W Ellis KS**

Job Ticket: 23960

**DST#: 4**

ATTN: Brad Rine

Test Start: 2006.04.23 @ 02:24:20

**Tool Information**

Drill Pipe:	Length: 3077.00 ft	Diameter: 3.80 inches	Volume: 43.16 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 44.06 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3268.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	111.00 ft			
Tool Length:	134.00 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			3246.00	
Shut In Tool	5.00			3251.00	
Hydraulic tool	5.00			3256.00	
Safety Joint	2.00			3258.00	
Packer	5.00			3263.00	23.00 Bottom Of Top Packer
Packer	5.00			3268.00	
Stubb	1.00			3269.00	
Perforations	2.00			3271.00	
Change Over Sub	1.00			3272.00	
Recorder	0.00	6719	Inside	3272.00	
Blank Spacing	93.00			3365.00	
Change Over Sub	1.00			3366.00	
Perforations	10.00			3376.00	
Recorder	0.00	13221	Outside	3376.00	
Bullnose	3.00			3379.00	111.00 Bottom Packers & Anchor

**Total Tool Length: 134.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

**Schippers #1-17**

250N Water St Ste 300  
Wichita KS 67202

**17 14S 16W Ellis KS**

Job Ticket: 23960

**DST#: 4**

ATTN: Brad Rine

Test Start: 2006.04.23 @ 02:24:20

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.18 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 9300.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

42 deg API

Water Salinity:

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
175.00	Frothy OCM 30%G 20%O 50%M	0.861
25.00	Free Oil	0.278

Total Length: 200.00 ft      Total Volume: 1.139 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 780' Gas in Pipe

Serial #: 6719

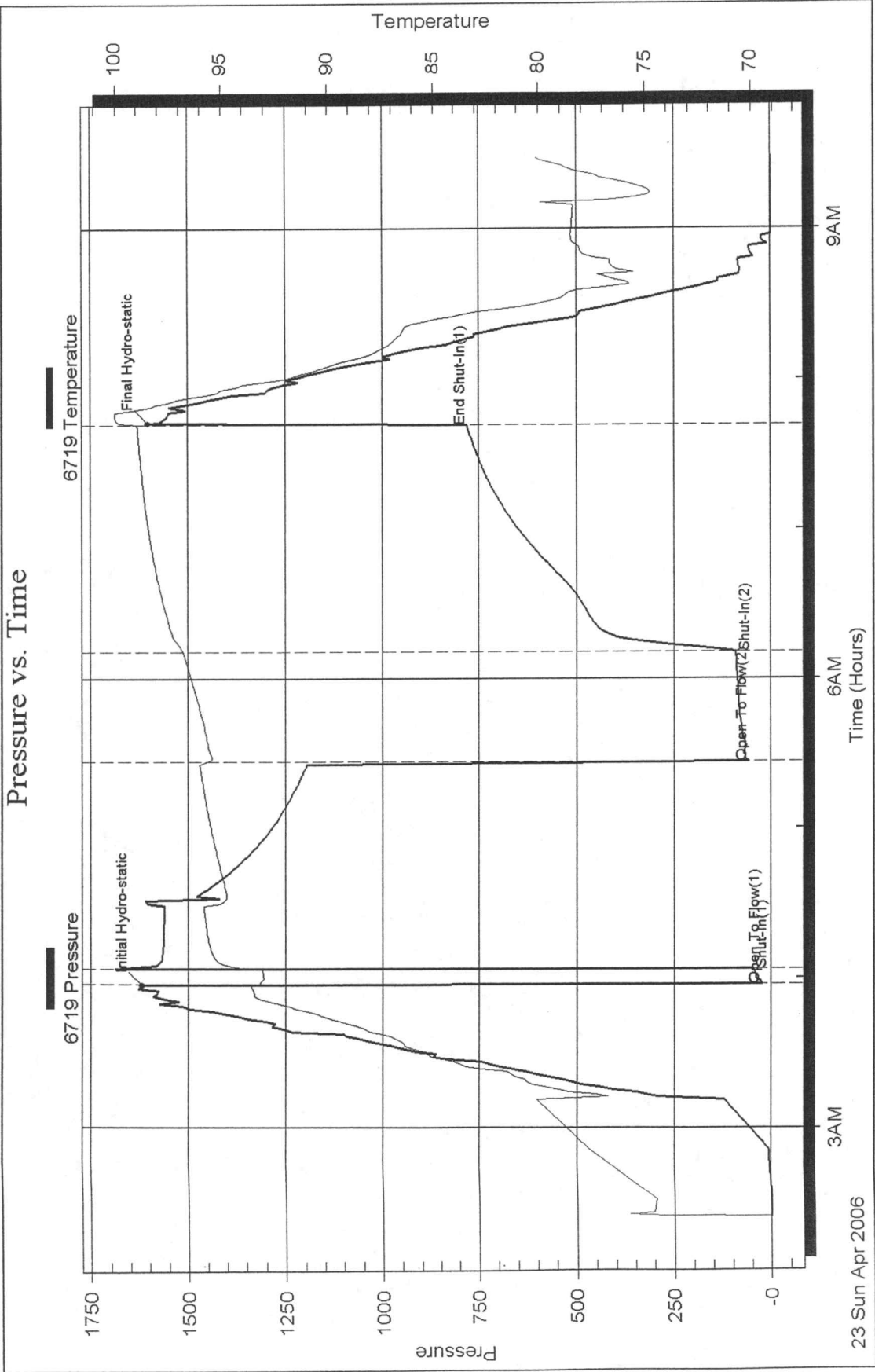
Inside

Murfin Drilling Company Inc

17 14S 16W Ellis KS

DST Test Number: 4

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**17 14S 16W Ellis KS**

**Schippers #1-17**

Start Date: 2006.04.23 @ 18:36:06

End Date: 2006.04.24 @ 02:01:51

Job Ticket #: 23961                      DST #: 5

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 Inc

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**Schippers #1-17**

**17 14S 16W Ellis KS**

Job Ticket: 23961

DST#: 5

Test Start: 2006.04.23 @ 18:36:06

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:27:36

Time Test Ended: 02:01:51

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3375.00 ft (KB) To 3403.00 ft (KB) (TVD)**

Total Depth: 3403.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1889.00 ft (KB)

1884.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6719**

**Inside**

Press@RunDepth: 124.98 psig @ 3380.00 ft (KB)

Start Date: 2006.04.23

End Date:

2006.04.24

Start Time: 18:36:08

End Time:

02:01:51

Capacity: 7000.00 psig

Last Calib.: 2006.04.24

Time On Btm: 2006.04.23 @ 20:27:06

Time Off Btm: 2006.04.24 @ 00:12:36

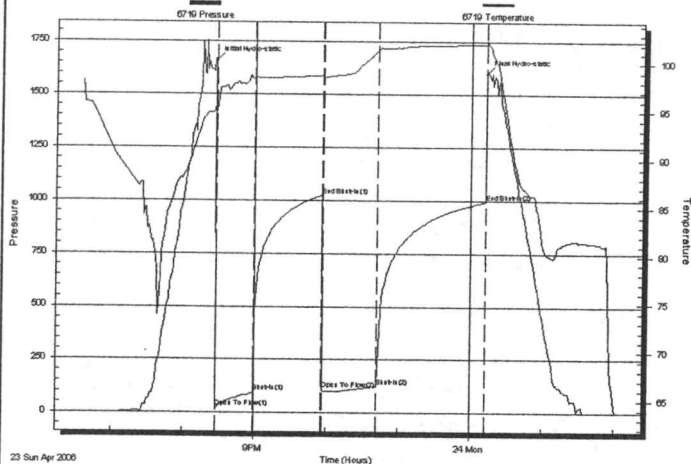
TEST COMMENT: IFP Fair Blow Built to 9"

ISI Dead

FFP Fair Blow Built to BOB in 45"

FSI Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1660.36	95.70	Initial Hydro-static
1	23.31	95.05	Open To Flow (1)
32	95.31	98.47	Shut-In(1)
90	1023.25	98.80	End Shut-In(1)
90	109.93	98.44	Open To Flow (2)
136	124.98	101.43	Shut-In(2)
226	993.08	102.10	End Shut-In(2)
226	1600.56	102.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOCMW 10%G 10%O 50%W 30%M	0.30
120.00	HOCWM 5%G 35%O 20%W 40%M	0.59
40.00	WMCO 50%O 10%W 40%M	0.53
35.00	Clean Oil	0.49

Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Company Inc

**Schippers #1-17**

250N Water St Ste 300  
Wichita KS 67202

**17 14S 16W Ellis KS**

ATTN: Brad Rine

Job Ticket: 23961

**DST#: 5**

Test Start: 2006.04.23 @ 18:36:06

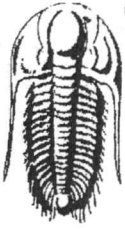
**Tool Information**

Drill Pipe:	Length: 3201.00 ft	Diameter: 3.80 inches	Volume: 44.90 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 38000.00 lb
		<b>Total Volume:</b>	<b>45.80 bbl</b>	Tool Chased 4.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3375.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	51.00 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			3353.00	
Shut In Tool	5.00			3358.00	
Hydraulic tool	5.00			3363.00	
Safety Joint	2.00			3365.00	
Packer	5.00			3370.00	23.00 Bottom Of Top Packer
Packer	5.00			3375.00	
Stubb	1.00			3376.00	
Perforations	4.00			3380.00	
Recorder	0.00	6719	Inside	3380.00	
Perforations	20.00			3400.00	
Recorder	0.00	13221	Outside	3400.00	
Bullnose	3.00			3403.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

**Schippers #1-17**

250N Water St Ste 300  
Wichita KS 67202

**17 14S 16W Ellis KS**

ATTN: Brad Rine

Job Ticket: 23961

**DST#: 5**

Test Start: 2006.04.23 @ 18:36:06

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 5.97 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6400.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

31 deg API

Water Salinity: 16500 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOCMW 10%G 10%O 50%W 30%M	0.295
120.00	HOCWM 5%G 35%O 20%W 40%M	0.590
40.00	WMCO 50%O 10%W 40%M	0.534
35.00	Clean Oil	0.491

Total Length: 255.00 ft      Total Volume: 1.910 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

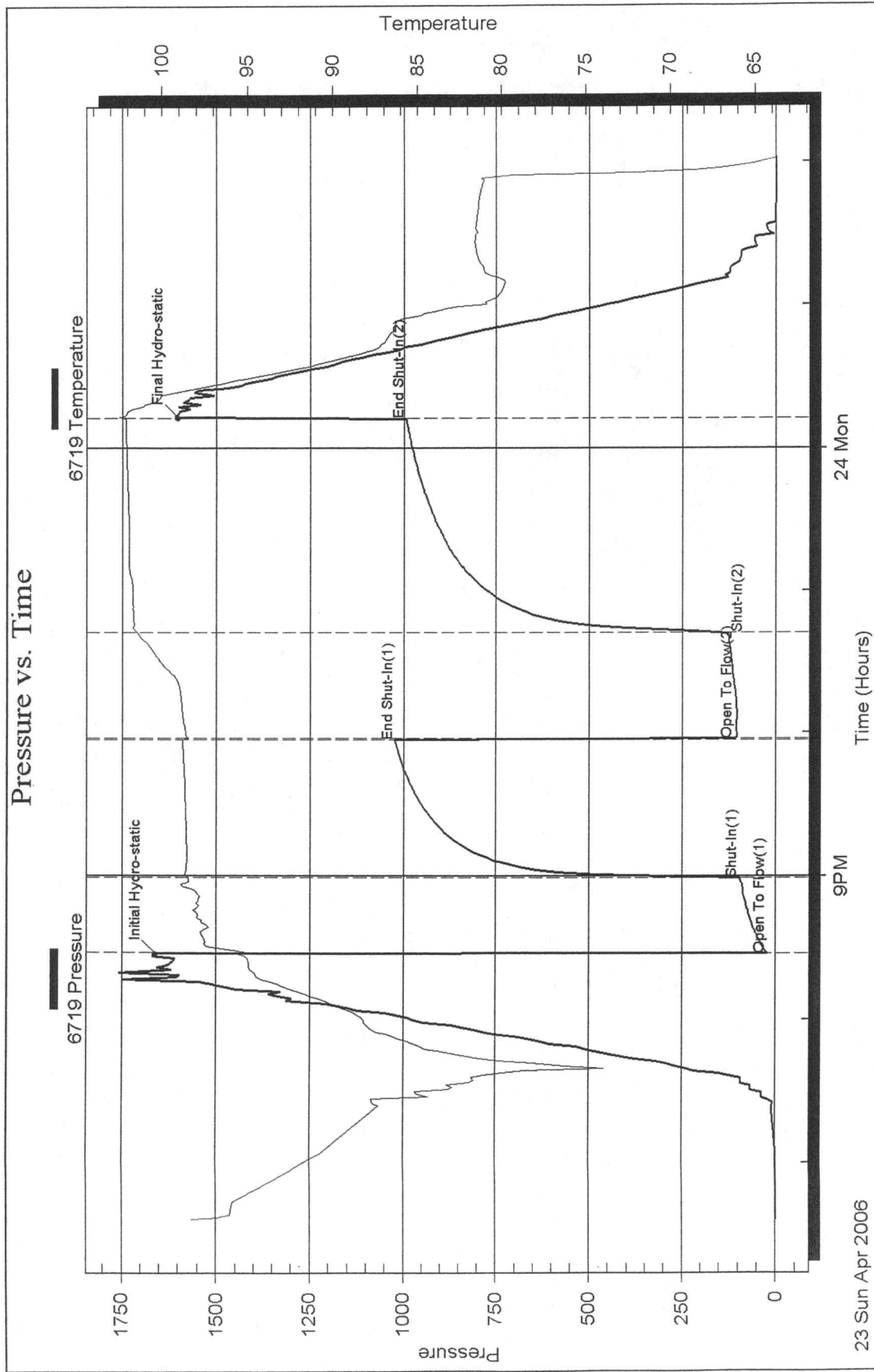
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



23 Sun Apr 2006

9PM

24 Mon

Time (Hours)



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**17 14S 16W Ellis KS**

**Schippers #1-17**

Start Date: 2006.04.24 @ 08:43:28

End Date: 2006.04.24 @ 16:49:43

Job Ticket #: 23962                      DST #: 6

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 Inc

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**Schippers #1-17**

**17 14S 16W Ellis KS**

Job Ticket: 23962

DST#: 6

Test Start: 2006.04.24 @ 08:43:28

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:41:58

Time Test Ended: 16:49:43

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3403.00 ft (KB) To 3413.00 ft (KB) (TVD)**

Total Depth: 3413.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1889.00 ft (KB)

1884.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6719** Inside

Press@RunDepth: 394.73 psig @ 3408.00 ft (KB)

Start Date: 2006.04.24

End Date:

2006.04.24

Start Time: 08:43:30

End Time:

16:49:43

Capacity: 7000.00 psig

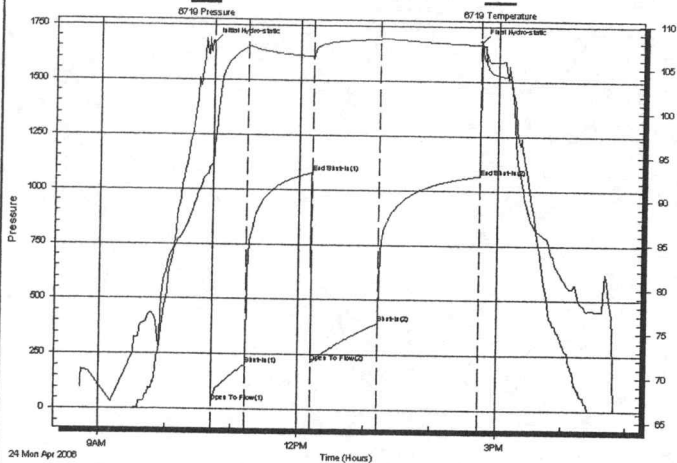
Last Calib.: 2006.04.24

Time On Btm: 2006.04.24 @ 10:41:28

Time Off Btm: 2006.04.24 @ 14:44:28

TEST COMMENT: IFF Good Blow BOB in 5 - 1/2"  
ISI Blow back Building to 1/2"  
FFP Good Blow BOB in 7"  
FSI Weak Surf Blow back for 10"

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.88	93.96	Initial Hydro-static
1	33.67	93.72	Open To Flow (1)
32	205.19	107.25	Shut-In(1)
91	1076.63	106.28	End Shut-In(1)
91	215.01	106.09	Open To Flow (2)
151	394.73	108.31	Shut-In(2)
243	1065.95	107.76	End Shut-In(2)
243	1679.12	107.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
780.00	SLM 98%W 2%M	9.27
50.00	Clean Oil	0.70

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Company Inc

250N Water St Ste 300  
Wichita KS 67202

ATTN: Brad Rine

**Schippers #1-17**

**17 14S 16W Ellis KS**

Job Ticket: 23962

**DST#: 6**

Test Start: 2006.04.24 @ 08:43:28

### Tool Information

Drill Pipe:	Length: 3233.00 ft	Diameter: 3.80 inches	Volume: 45.35 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 46.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	36.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3403.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 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			3381.00	
Shut In Tool	5.00			3386.00	
Hydraulic tool	5.00			3391.00	
Safety Joint	2.00			3393.00	
Packer	5.00			3398.00	23.00 Bottom Of Top Packer
Packer	5.00			3403.00	
Stubb	1.00			3404.00	
Perforations	4.00			3408.00	
Recorder	0.00	6719	Inside	3408.00	
Perforations	2.00			3410.00	
Recorder	0.00	13221	Outside	3410.00	
Bullnose	3.00			3413.00	10.00 Bottom Packers & Anchor

**Total Tool Length: 33.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Company Inc

**Schippers #1-17**

250N Water St Ste 300  
Wichita KS 67202

**17 14S 16W Ellis KS**

Job Ticket: 23962

**DST#: 6**

ATTN: Brad Rine

Test Start: 2006.04.24 @ 08:43:28

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 15000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
780.00	SLM 98%W 2%M	9.274
50.00	Clean Oil	0.701

Total Length: 830.00 ft

Total Volume: 9.975 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6719

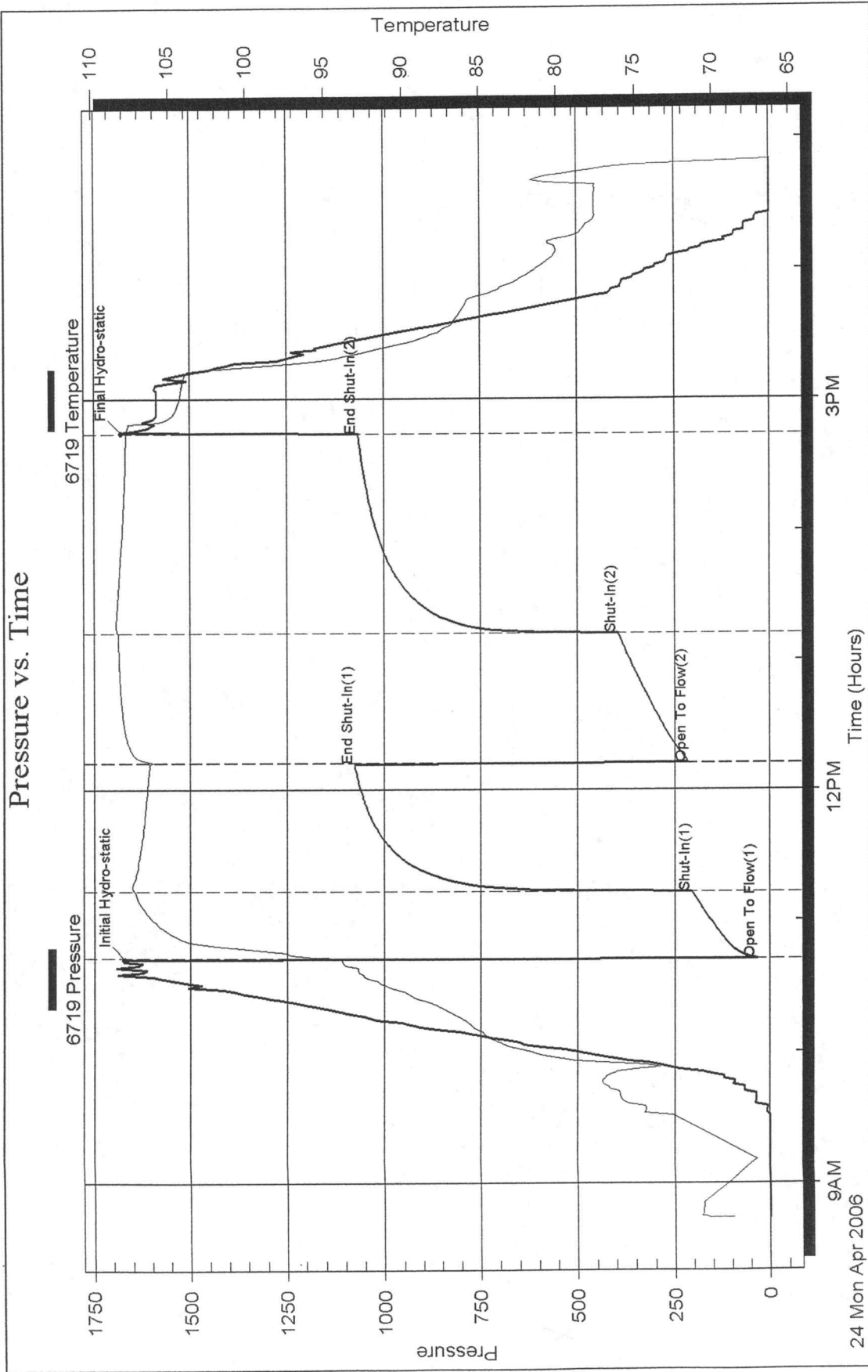
Inside

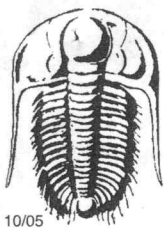
Murfin Drilling Company Inc

17 14S 16W Ellis KS

DST Test Number: 6

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8681

No 23957

## Test Ticket

Well Name & No. Schippers #1-17 Test No. 1 Date 4-20-06  
 Company Murfin Drilling Company Inc Zone Tested LKC ABC  
 Address 250 N Water, Suite 300, Wichita, Ks. 67202 Elevation 1889 KB 1884 GL  
 Co. Rep / Geo. Brad Rine Rig Murfin #8  
 Location: Sec. 17 Twp. 14s Rge. 16w Co. Ellis State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

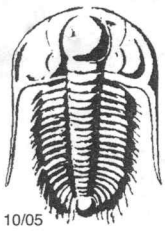
Interval Tested 3131 - 3200 Initial Str Wt./Lbs. 32,000 Unseated Str Wt./Lbs. 32,000  
 Anchor Length 69' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 45,000  
 Top Packer Depth 3126 Tool Weight 2200  
 Bottom Packer Depth 3131 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3200 Wt. Pipe Run 0 Drill Collar Run 183  
 Mud Wt. 8.7 LCM 0 Vis. 62 WL 6.0 Drill Pipe Size 4 1/2 XH Ft. Run 2951  
 Blow Description IFP - Slid 7' on open, Bleed off initial blow, Built back to 1 1/4"  
ISI - Dead  
FFP - Dead for 28 min, weak surface blow  
FSI - Dead

Recovery - Total Feet 125 GIP \_\_\_\_\_ Ft. in DC 125 Ft. in DP \_\_\_\_\_  
 Rec. 125 Feet of Mud w/oil specks in 4 %gas < 1 %oil \_\_\_\_\_ %water 96 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of Some %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 97° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 6,400 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1564</u> PSI	<u>6719</u>	<u>1000</u>
(B) First Initial Flow Pressure		<u>66</u> PSI	(depth) <u>3135</u>	Jars _____
(C) First Final Flow Pressure		<u>79</u> PSI	Recorder No. <u>13221</u>	<u>Safety J</u> <u>75</u>
(D) Initial Shut-In Pressure		<u>423</u> PSI	(depth) <u>3197</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>81</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>83</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>369</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1490</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____
			Final Flow <u>45</u>	Ruined Packer _____
			Final Shut-In <u>60</u>	Mileage <u>22 rt 27.50</u>
			<b>T-On Location</b> <u>21:30</u>	Sub Total: <u>1102.50</u>
			T-Started <u>00:6</u>	Std. By <u>1.25 62.50</u>
			T-Open <u>2:05</u>	Acc. Chg: _____
			T-Pulled <u>5:05</u>	Other: _____
			T-Out <u>6:45</u>	Total: <u>\$1165.00</u>

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Approved By Brad Rine  
 Our Representative J. McLanahan *Thank you*



# TRILOBITE TESTING INC.

No 23958

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Schippers #1-17 Test No. 2 Date 4-21-06  
 Company Murfin Drilling Company, Inc. Zone Tested "E-F"  
 Address 250 N. Water, Ste 300, Wichita, Ks. 67202 Elevation 1889 KB 1884 GL  
 Co. Rep / Geo. Brad Rine Rig Murfin #8  
 Location: Sec. 17 Twp. 14s Rge. 16w Co. Ellis State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

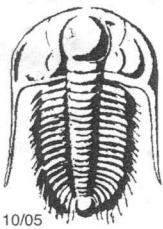
Interval Tested 3204-3232 Initial Str Wt./Lbs. 33,000 Unseated Str Wt./Lbs. 35,000  
 Anchor Length 28' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 3199 Tool Weight 2200  
 Bottom Packer Depth 3204 Hole Size 7 7/8"  Rubber Size 6 3/4"   
 Total Depth 3232 Wt. Pipe Run 0 Drill Collar Run 183  
 Mud Wt. 8.9 LCM 0 Vis. 51 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3014  
 Blow Description IFP - Good Blow, BOB in 13 min.  
ISI - Dead  
FFP - Fair Blow, BOB in 35 min.  
FSI - Dead

Recovery - Total Feet 330 GIP \_\_\_\_\_ Ft. in DC 183 Ft. in DP 147  
 Rec. 330 Feet of USMW %gas \_\_\_\_\_ %oil \_\_\_\_\_ 95%water 5% mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .262 @ 61 °F Chlorides 29,000 ppm Recovery \_\_\_\_\_ Chlorides 9,300 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		1577 PSI	6719	1000
(B) First Initial Flow Pressure		39 PSI	(depth) 3209	Jars
(C) First Final Flow Pressure		129 PSI	Recorder No. 13221	Safety Jt. 75
(D) Initial Shut-In Pressure		396 PSI	(depth) 3229	Circ Sub
(E) Second Initial Flow Pressure		136 PSI	Recorder No.	Sampler
(F) Second Final Flow Pressure		183 PSI	(depth)	Straddle
(G) Final Shut-In Pressure		401 PSI	Initial Opening 30	Ext. Packer
(Q) Final Hydrostatic Mud		1541 PSI	Initial Shut-In 45	Shale Packer
			Final Flow 45	Ruined Packer
			Final Shut-In 90	Mileage 7 rt 8.75
			T-On Location 16:00	Sub Total: 1083.75
			T-Started 16:39	Std. By
			T-Open 18:32	Acc. Chg:
			T-Pulled 22:02	Other:
			T-Out 23:45	Total:

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Approved By \_\_\_\_\_  
 Our Representative J. Mc Lemou Thank you



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23959

## Test Ticket

Well Name & No. Schippers # 1-17 Test No. 3 Date 4-22-06  
 Company Murfin Drilling Company, Inc. Zone Tested LKC - "G"  
 Address 250 N. Water, Ste 300, Wichita, Ks. 67202 Elevation 1889 KB 1884 GL  
 Co. Rep / Geo. Brad Rine Rig Murfin #8  
 Location: Sec. 17 Twp. 14s Rge. 16w Co. Ellis State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3237 - 3250 Initial Str Wt./Lbs. 32,000 Unseated Str Wt./Lbs. 32,000  
 Anchor Length 13' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 40,000  
 Top Packer Depth 3232 Tool Weight 2200  
 Bottom Packer Depth 3237 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3250 Wt. Pipe Run 0 Drill Collar Run 183  
 Mud Wt. 8.9 LCM 0 Vis. 51 WL 7.2 Drill Pipe Size 4 1/2 X 14 Ft. Run 3044  
 Blow Description IFP - Weak Blow, Building to 1"  
ISI - Dead

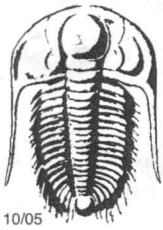
FFP - Dead  
FSI - Dead

Recovery - Total Feet 3 GIP \_\_\_\_\_ Ft. in DC \_\_\_\_\_ Ft. in DP \_\_\_\_\_  
 Rec. 3 Feet of Mud %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 96° °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 9300 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1590</u> PSI	<u>6719</u>	<u>1000</u>
(B) First Initial Flow Pressure		<u>16</u> PSI	<u>3242</u>	Jars
(C) First Final Flow Pressure		<u>16</u> PSI	<u>13221</u>	<u>Safety Jt.</u> <u>75</u>
(D) Initial Shut-In Pressure		<u>37</u> PSI	<u>3247</u>	Circ Sub
(E) Second Initial Flow Pressure		<u>15</u> PSI	Recorder No.	Sampler
(F) Second Final Flow Pressure		<u>16</u> PSI	(depth)	Straddle
(G) Final Shut-In Pressure		<u>43</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer
(Q) Final Hydrostatic Mud		<u>1550</u> PSI	Initial Shut-In <u>45</u>	Shale Packer
			Final Flow <u>45</u>	Ruined Packer
			Final Shut-In <u>60</u>	Mileage <u>7 ct.</u> <u>8.75</u>
			<b>T-On Location</b> <u>5:45</u>	Sub Total: <u>1083.75</u>
			T-Started <u>6:40</u>	Std. By _____
			T-Open <u>8:21</u>	Acc. Chg: _____
			T-Pulled <u>11:21</u>	Other: _____
			T-Out <u>12:49</u>	Total: _____

Approved By \_\_\_\_\_  
 Our Representative J. Mc Lomax *Thank you*

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23960

## Test Ticket

Well Name & No. Schippers # 1-17 Test No. 4 Date 4-23-06  
 Company Murfin Drilling Company, Inc. Zone Tested H I J K L  
 Address 250 N. Water, Ste 300, Wichita, Ks. 67202 Elevation 1889 KB 1884 GL  
 Co. Rep / Geo. Brad Rine Rig Murfin #8  
 Location: Sec. 17 Twp. 14s Rge. 16w Co. Ellis State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3268 - 3379 Initial Str Wt./Lbs. 36,000 Unseated Str Wt./Lbs. 38,000  
 Anchor Length 111' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 40,000  
 Top Packer Depth 3263 Tool Weight 2,200  
 Bottom Packer Depth 3268 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3379 Wt. Pipe Run 0 Drill Collar Run 183  
 Mud Wt. 8.9 LCM 0 Vis. 51 WL 7.2 Drill Pipe Size 4 1/2 X 4 Ft. Run 3077  
 Blow Description IFP - Good Blow, BOB in 5 min., \* Tool slid and shut in after 6 min.  
ISI - Dead  
FFP - Good Blow, BOB in 7 min.  
FSI - Blowback building to BOB

Recovery - Total Feet 200 GIP 780 Ft. in DC \_\_\_\_\_ Ft. in DP \_\_\_\_\_  
 Rec. 25 Feet of Free Oil %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 175 Feet of Frothy ~~Mud~~ OCM 30 %gas 20 %oil \_\_\_\_\_ %water 50 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 99° °F Gravity 43 °API D @ 70° °F Corrected Gravity 42 °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 9300 ppm System

	AK-1	Alpine	PSI	Recorder No.	Test	
(A) Initial Hydrostatic Mud		1620		6719	1000	
(B) First Initial Flow Pressure		24		(depth) 3272	Jars	
(C) First Final Flow Pressure		47		Recorder No. 13221	Safety Jt. 75	
(D) Initial Shut-In Pressure		/		(depth) 3376	Circ Sub	
(E) Second Initial Flow Pressure		57		Recorder No.	Sampler	
(F) Second Final Flow Pressure		91		(depth)	Straddle	
(G) Final Shut-In Pressure		780		Initial Opening 30	Ext. Packer	
(Q) Final Hydrostatic Mud		1603		Initial Shut-In 60	Shale Packer	

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Final Flow	45	Ruined Packer	
Final Shut-In	90	Mileage	7 rt 8.75
T-On Location	1:00	Sub Total:	1083.75
T-Started	2:24	Std. By	
T-Open	3:55	Acc. Chg:	
T-Pulled	7:40	Other:	
T-Out	9:20	Total:	

Approved By \_\_\_\_\_  
 Our Representative J. Mc Lemmon *Thank you!*



# TRILOBITE TESTING INC.

No 23961

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Schippers #1-17 Test No. 5 Date 4-23-06  
 Company Murfin Drilling Company, Inc. Zone Tested Arbuckle  
 Address 250 N. Water, Ste 300, Wichita, Ks. 67202 Elevation 1889 KB 1884 GL  
 Co. Rep / Geo. Brad Rine Rig Murfin #8  
 Location: Sec. 17 Twp. 14s Rge. 16w Co. Ellis State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3375 - 3403 Initial Str Wt./Lbs. 36,000 Unseated Str Wt./Lbs. 37,000  
 Anchor Length 28' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 38,000  
 Top Packer Depth 3370 Tool Weight 2200  
 Bottom Packer Depth 3375 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3403 Wt. Pipe Run 0 Drill Collar Run 183  
 Mud Wt. 9.2 LCM 0 Vis. 51 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3201  
 Blow Description IFP - Fair Blow, Built to 9"

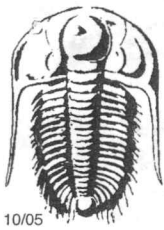
ISI - Dead  
FFP - Fair Blow, Built to BOB in 45 min.  
FSI - Dead

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>255</u>		<u>183</u>	<u>72</u>
Rec. <u>35</u>	Feet of <u>Clean Oil</u>	%gas	%oil %water %mud
Rec. <u>40</u>	Feet of <u>WMC0</u>	%gas <u>50</u>	%oil <u>10</u> %water <u>40</u> %mud
Rec. <u>120</u>	Feet of <u>HOCWM</u>	%gas <u>5</u>	%oil <u>35</u> %water <u>20</u> %mud <u>40</u>
Rec. <u>60</u>	Feet of <u>SOCMW</u>	%gas <u>10</u>	%oil <u>10</u> %water <u>50</u> %mud <u>30</u>
Rec. _____	Feet of _____	%gas	%oil %water %mud
BHT <u>102°</u>	°F Gravity <u>32</u>	°API D @ <u>65°</u>	°F Corrected Gravity <u>31</u> °API
RW <u>.427</u>	@ <u>63</u> °F	Chlorides <u>16,500</u> ppm	Recovery _____ Chlorides <u>15,000</u> ppm System

AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1660</u>		<u>6719</u>	<u>1000</u>
(B) First Initial Flow Pressure	<u>23</u>	PSI	(depth) <u>3380</u>	Jars
(C) First Final Flow Pressure	<u>95</u>	PSI	Recorder No. <u>13221</u>	<u>Safety Jt.</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>1023</u>	PSI	(depth) <u>3400</u>	Circ Sub
(E) Second Initial Flow Pressure	<u>110</u>	PSI	Recorder No.	Sampler
(F) Second Final Flow Pressure	<u>125</u>	PSI	(depth)	Straddle
(G) Final Shut-In Pressure	<u>993</u>	PSI	Initial Opening <u>30</u>	Ext. Packer
(Q) Final Hydrostatic Mud	<u>1600</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer
			Final Flow <u>45</u>	Ruined Packer
			Final Shut-In <u>90</u>	Mileage <u>7.5</u> <u>8.25</u>
			T-On Location <u>18:00</u>	Sub Total: <u>1083.75</u>
			T-Started <u>18:36</u>	Std. By
			T-Open <u>20:27</u>	Acc. Chg:
			T-Pulled <u>00:12</u>	Other:
			T-Out <u>2:00</u>	Total:

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Approved By Brad Rine  
 Our Representative J. McLemore *Thank you!*



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23962

## Test Ticket

Well Name & No. Schippers #1-17 Test No. 6 Date 4-24-06  
 Company Murfin Drilling Company, Inc Zone Tested Arbuckle  
 Address 250 N. Water, Ste 300, Wichita, Ks, 67202 Elevation 1889 KB 1884 GL  
 Co. Rep / Geo. Brad Rine Rig Murfin # 8  
 Location: Sec. 17 Twp. 14s Rge. 16w Co. Ellis State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3403 - 3413 Initial Str Wt./Lbs. 36,000 Unseated Str Wt/Lbs. 38,000  
 Anchor Length 10' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 40,000  
 Top Packer Depth 3398 Tool Weight 2200  
 Bottom Packer Depth 3403 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 3413 Wt. Pipe Run 0 Drill Collar Run 183  
 Mud Wt. 9.2 LCM 0 Vis. 51 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3233

Blow Description IFP - Good Blow, BOB in 5 1/2 min.  
ISI - Blowback Building to 1/2"  
FFP - Good Blow, BOB in 7 min.  
FSI - Weak Surface Blowback for 10 min.

Recovery - Total Feet 830 GIP \_\_\_\_\_ Ft. in DC 183 Ft. in DP 647  
 Rec. 50' Feet of Clean Oil %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 780 Feet of Slightly Muddy Water %gas < 1/2 %oil 98 %water 2 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 108 °F Gravity 32 °API D @ 56° °F Corrected Gravity 33 °API  
 RW .296 @ 56° °F Chlorides 28,000 ppm Recovery \_\_\_\_\_ Chlorides 15,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1670</u> PSI	<u>6719</u>	<u>1000</u>
(B) First Initial Flow Pressure		<u>34</u> PSI	(depth) <u>3408</u>	Jars _____
(C) First Final Flow Pressure		<u>205</u> PSI	Recorder No. <u>13221</u>	<u>Safety Jt.</u> <u>75</u>
(D) Initial Shut-In Pressure		<u>1077</u> PSI	(depth) <u>3410</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>215</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>395</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1066</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1679</u> PSI	Initial Shut-In <u>60</u>	Shale Packer _____

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Approved By Brad Rine  
 Our Representative J. Mc Lemon  
 Final Flow 60  
 Final Shut-In 90  
**T-On Location** 6:55  
 T-Started 8:43  
 T-Open 10:42  
 T-Pulled 14:42  
 T-Out 16:50  
 Mileage 7ct. 8.75  
 Sub Total: 1083.75  
 Std. By 1.75 87.50  
 Acc. Chg: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Total: 1171.25