



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyle

**28 10 21 Graham KS**

**Acheson # 1-28**

Start Date: 2006.04.18 @ 13:47:01

End Date: 2006.04.18 @ 20:00:31

Job Ticket #: 23052                      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 Co Inc

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyle

**Acheson # 1-28**

**28 10 21 Graham KS**

Job Ticket: 23052

DST#: 1

Test Start: 2006.04.18 @ 13:47:01

## GENERAL INFORMATION:

Formation: **A LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:49:31

Time Test Ended: 20:00:31

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3487.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Total Depth: 3510.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2218.00 ft (KB)

2213.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6741**

Inside

Press@RunDepth: 56.92 psig @ 3488.00 ft (KB)

Start Date: 2006.04.18

End Date:

2006.04.18

Start Time: 13:47:03

End Time:

20:00:31

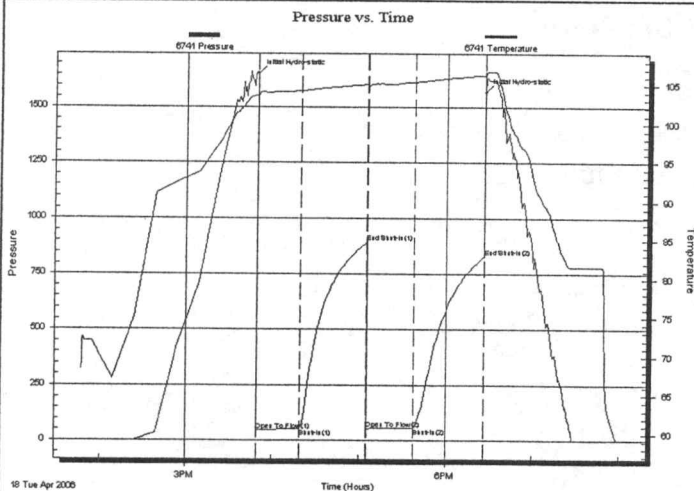
Capacity: 7000.00 psig

Last Calib.: 2006.04.18

Time On Btm: 2006.04.18 @ 15:49:16

Time Off Btm:

TEST COMMENT: Slid tool 10' to bottom lost 10' Mud  
IF 3" Surging blow Died in 30"  
FF No blow - flushed tool  
Times 3 45 30 45



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.59	103.65	Initial Hydro-static
1	45.49	103.36	Open To Flow (1)
30	50.29	104.29	Shut-In(1)
76	892.33	105.11	End Shut-In(1)
76	52.36	104.90	Open To Flow (2)
109	56.92	105.43	Shut-In(2)
157	830.41	106.30	End Shut-In(2)
158	1569.49	106.73	Initial Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mud w/ show of Oil on top	0.44

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: David Doyle

**Acheson # 1-28**  
**28 10 21 Graham KS**  
Job Ticket: 23052      **DST#: 1**  
Test Start: 2006.04.18 @ 13:47:01

**Tool Information**

Drill Pipe:	Length: 3354.00 ft	Diameter: 3.80 inches	Volume: 47.05 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.66 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3487.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	44.00 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			3467.00	
Shut In Tool	5.00			3472.00	
Hydraulic tool	5.00			3477.00	
Packer	5.00			3482.00	21.00      Bottom Of Top Packer
Packer	5.00			3487.00	
Stubb	1.00			3488.00	
Recorder	0.00	6741	Inside	3488.00	
Perforations	19.00			3507.00	
Recorder	0.00	13254	Outside	3507.00	
Bullnose	3.00			3510.00	23.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.00</b>				



**TRILOBITE  
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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Acheson # 1-28**

250 N Water Ste 300  
Wichita KS 67202

**28 10 21 Graham KS**

Job Ticket: 23052

**DST#: 1**

ATTN: David Doyle

Test Start: 2006.04.18 @ 13:47:01

### 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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Mud w / show of Oil on top	0.443

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

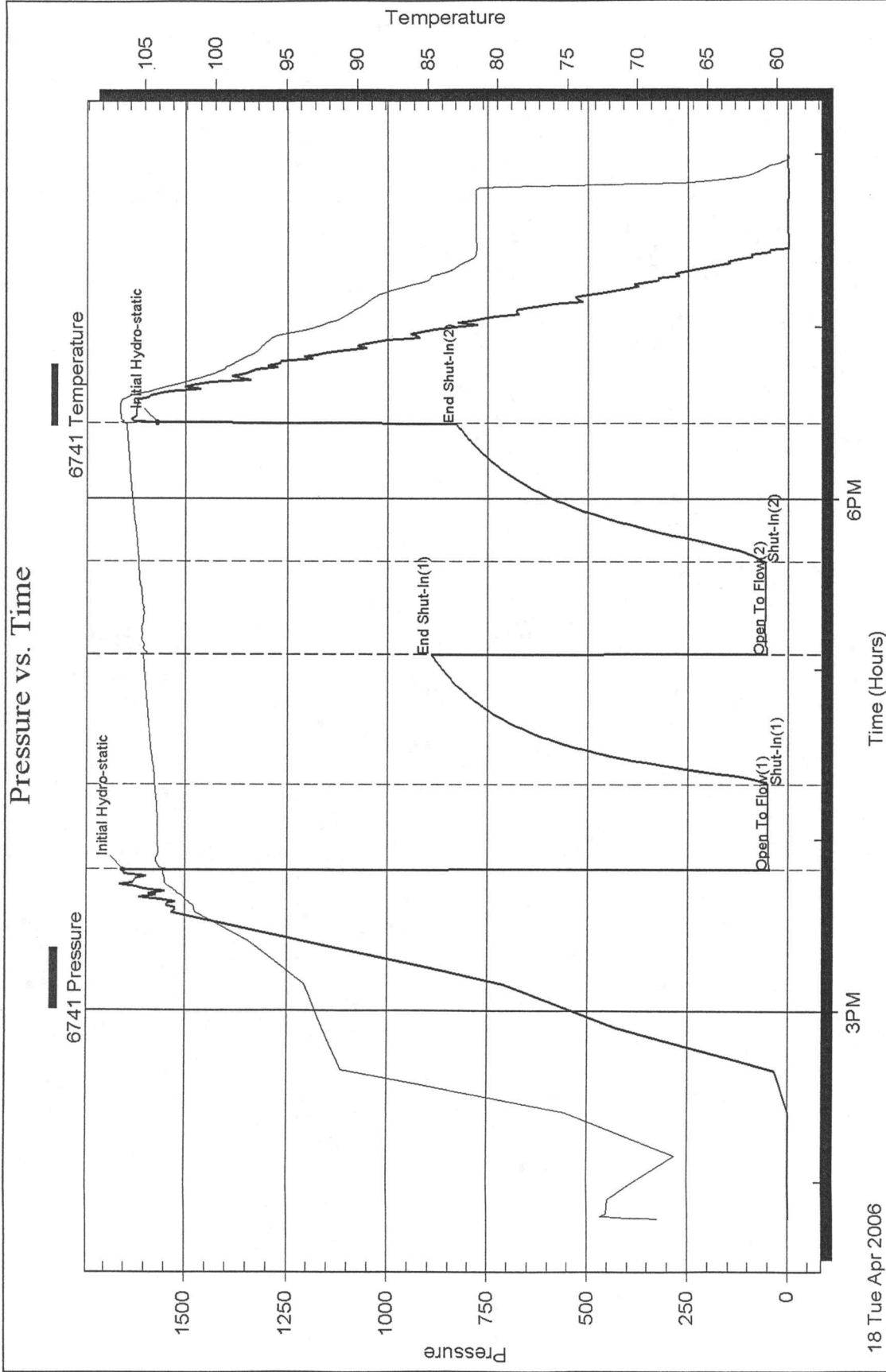
Inside

Murfin Drilling Co Inc

28 10 21 Graham KS

DST Test Number: 1

### Pressure vs. Time



18 Tue Apr 2006

3PM

Time (Hours)

6PM



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyle

**28 10 21 Graham KS**

**Acheson # 1-28**

Start Date: 2006.04.19 @ 05:52:19

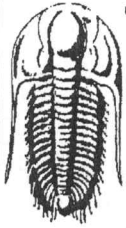
End Date: 2006.04.19 @ 12:51:34

Job Ticket #: 23053                      DST #: 2

Trilobite Testing, Inc

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**TRILOBITE  
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# DRILL STEM TEST REPORT

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: David Doyle

**Acheson # 1-28**  
**28 10 21 Graham KS**  
Job Ticket: 23053      **DST#: 2**  
Test Start: 2006.04.19 @ 05:52:19

## GENERAL INFORMATION:

Formation: **B-D LKC**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 08:44:34  
Time Test Ended: 12:51:34  
Test Type: Conventional Bottom Hole  
Tester: Dan Bangle  
Unit No: 21  
Interval: **3526.00 ft (KB) To 3570.00 ft (KB) (TVD)**  
Total Depth: 3570.00 ft (KB) (TVD)  
Reference Elevations: 2218.00 ft (KB)  
2213.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
KB to GR/CF: 5.00 ft

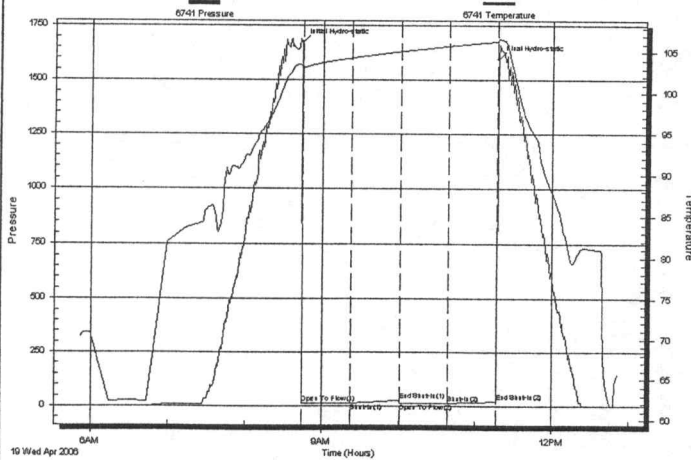
## Serial #: 6741

Inside

Press@RunDepth: 13.86 psig @ 3533.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.04.19      End Date: 2006.04.19      Last Calib.: 2006.04.19  
Start Time: 05:52:21      End Time: 12:51:34      Time On Btm: 2006.04.19 @ 08:44:19  
Time Off Btm: 2006.04.19 @ 11:17:49

TEST COMMENT: IF Weak died in 10"  
FF No blow  
Times 30 45 30 45

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.30	103.49	Initial Hydro-static
1	12.29	102.87	Open To Flow (1)
39	13.95	104.33	Shut-In(1)
77	28.07	105.11	End Shut-In(1)
77	13.02	105.11	Open To Flow (2)
115	13.86	105.77	Shut-In(2)
153	21.49	106.35	End Shut-In(2)
154	1595.62	106.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	DM	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc

**Acheson # 1-28**

250 N Water Ste 300  
Wichita KS 67202

**28 10 21 Graham KS**

Job Ticket: 23053

**DST#: 2**

ATTN: David Doyle

Test Start: 2006.04.19 @ 05:52:19

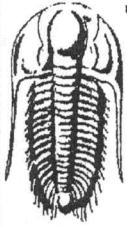
### Tool Information

Drill Pipe:	Length: 3413.00 ft	Diameter: 3.80 inches	Volume: 47.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<b>Total Volume: 48.49 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3526.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	65.00 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			3506.00	
Shut In Tool	5.00			3511.00	
Hydraulic tool	5.00			3516.00	
Packer	5.00			3521.00	21.00 Bottom Of Top Packer
Packer	5.00			3526.00	
Stubb	1.00			3527.00	
Perforations	5.00			3532.00	
Change Over Sub	1.00			3533.00	
Recorder	0.00	6741	Inside	3533.00	
Drill Pipe	29.00			3562.00	
Change Over Sub	1.00			3563.00	
Perforations	4.00			3567.00	
Recorder	0.00	13254	Outside	3567.00	
Bullnose	3.00			3570.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Acheson # 1-28**

250 N Water Ste 300  
Wichita KS 67202

**28 10 21 Graham KS**

Job Ticket: 23053

**DST#: 2**

ATTN: David Doyle

Test Start: 2006.04.19 @ 05:52:19

**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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1.00	DM	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

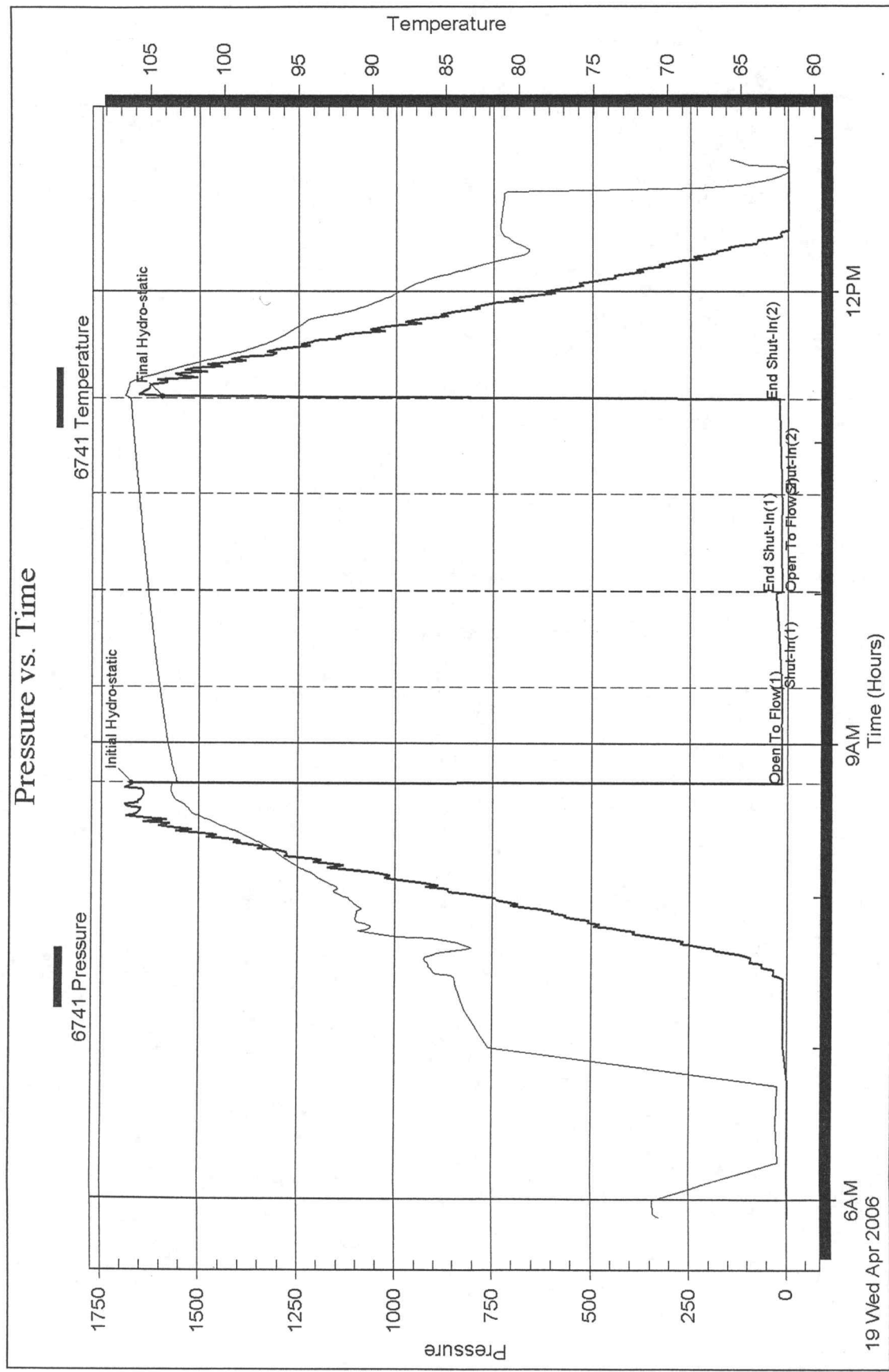
Serial #: 6741

Inside

Murfin Drilling Co Inc

28 10 21 Graham KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 23053

Printed: 2006.04.24 @ 10:44:18 Page 5



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyle

**28 10 21 Graham KS**

**Acheson # 1-28**

Start Date: 2006.04.20 @ 00:05:32

End Date: 2006.04.20 @ 06:41:32

Job Ticket #: 23054                      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 Co Inc  
 250 N Water Ste 300  
 Wichita KS 67202  
 ATTN: David Doyle

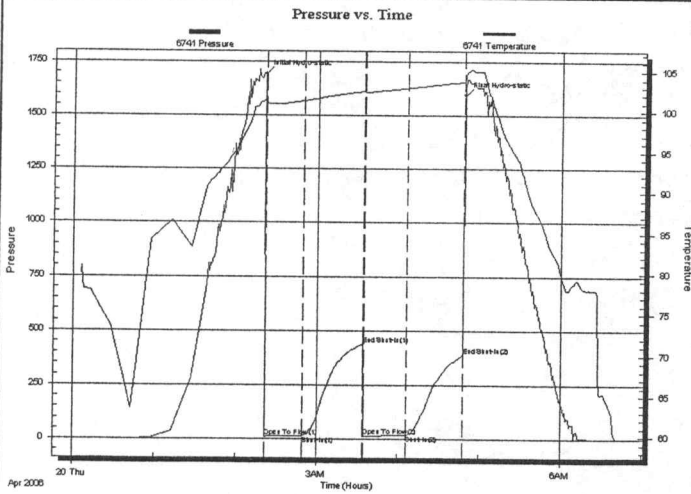
**Acheson # 1-28**  
**28 10 21 Graham KS**  
 Job Ticket: 23054      **DST#: 3**  
 Test Start: 2006.04.20 @ 00:05:32

**GENERAL INFORMATION:**

Formation: **D-E-F LKC**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 02:21:32      Tester: Dan Bangle  
 Time Test Ended: 06:41:32      Unit No: 21  
 Interval: **3546.00 ft (KB) To 3593.00 ft (KB) (TVD)**      Reference Elevations: 2218.00 ft (KB)  
 Total Depth: 3593.00 ft (KB) (TVD)      2213.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 5.00 ft

**Serial #: 6741      Inside**  
 Press@RunDepth: 16.35 psig @ 3549.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.04.20      End Date: 2006.04.20      Last Calib.: 2006.04.20  
 Start Time: 00:05:34      End Time: 06:41:32      Time On Btm: 2006.04.20 @ 02:21:17  
 Time Off Btm: 2006.04.20 @ 04:48:32

**TEST COMMENT:** IF Weak died in 15"  
 FF No blow  
 Times 30 45 30 45



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.80	101.42	Initial Hydro-static
1	11.14	101.02	Open To Flow (1)
29	13.82	101.36	Shut-In(1)
73	438.65	102.53	End Shut-In(1)
74	14.15	102.43	Open To Flow (2)
105	16.35	102.93	Shut-In(2)
147	387.89	103.72	End Shut-In(2)
148	1595.00	104.40	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
5.00	DM	0.02

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyle

**Acheson # 1-28**

**28 10 21 Graham KS**

Job Ticket: 23054

**DST#: 3**

Test Start: 2006.04.20 @ 00:05:32

### Tool Information

Drill Pipe:	Length: 3417.00 ft	Diameter: 3.80 inches	Volume: 47.93 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3546.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	68.00 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			3526.00	
Shut In Tool	5.00			3531.00	
Hydraulic tool	5.00			3536.00	
Packer	5.00			3541.00	21.00 Bottom Of Top Packer
Packer	5.00			3546.00	
Stubb	1.00			3547.00	
Perforations	1.00			3548.00	
Change Over Sub	1.00			3549.00	
Recorder	0.00	6741	Inside	3549.00	
Drill Pipe	29.00			3578.00	
Change Over Sub	1.00			3579.00	
Recorder	0.00	13254	Outside	3579.00	
Perforations	11.00			3590.00	
Bullnose	3.00			3593.00	47.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>68.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Co Inc

**Acheson # 1-28**

250 N Water Ste 300  
Wichita KS 67202

**28 10 21 Graham KS**

Job Ticket: 23054

**DST#: 3**

ATTN: David Doyle

Test Start: 2006.04.20 @ 00:05:32

### 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: 49.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	DM	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

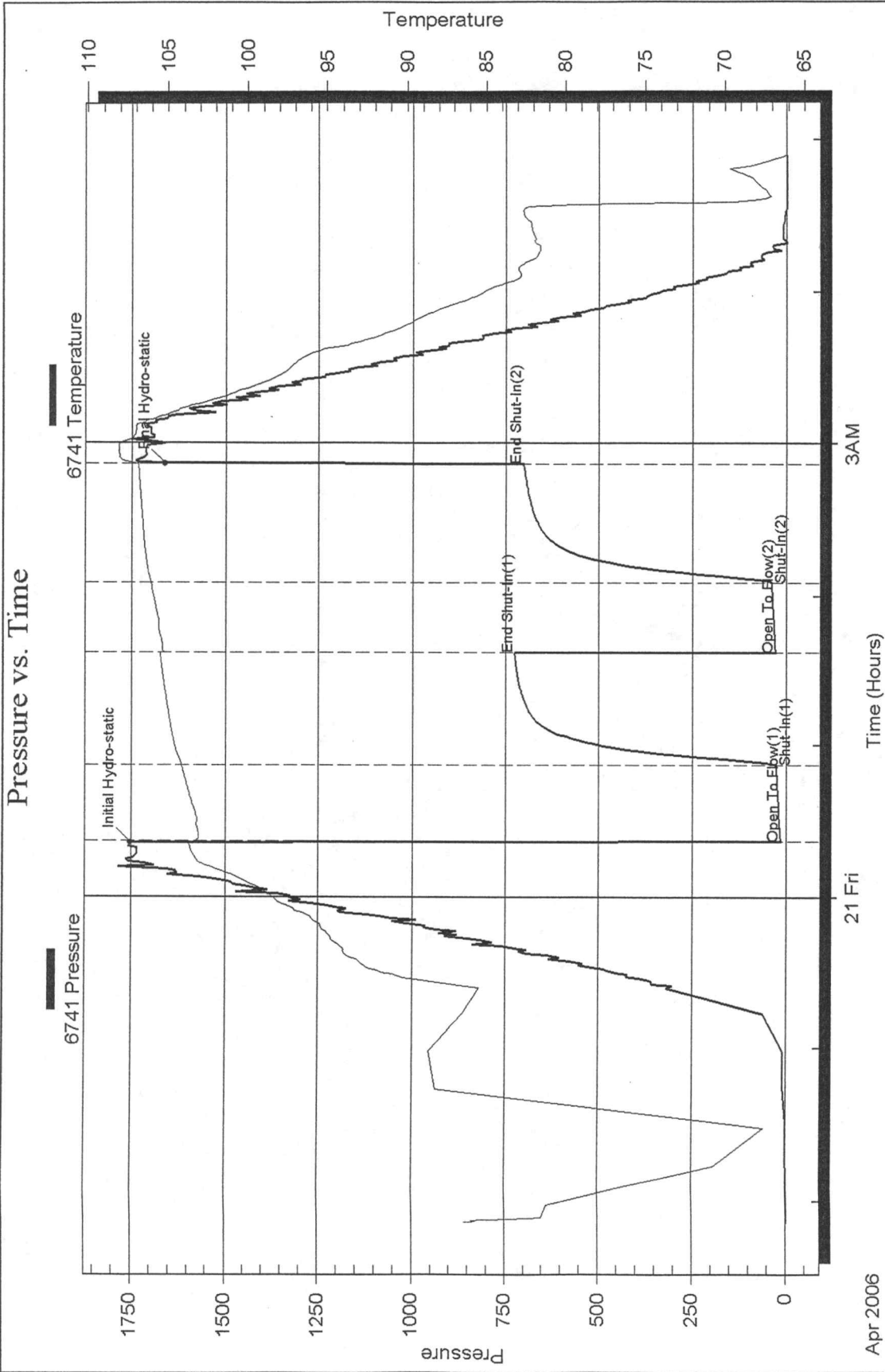
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyle

**28 10 21 Graham KS**

**Acheson # 1-28**

Start Date: 2006.04.20 @ 21:51:19

End Date: 2006.04.21 @ 04:54:04

Job Ticket #: 23055                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

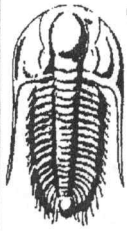
Acheson # 1-28

28 10 21 Graham KS

DST # 4

H-L LKC

2006.04.20



**TRILOBITE  
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# DRILL STEM TEST REPORT

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: David Doyle

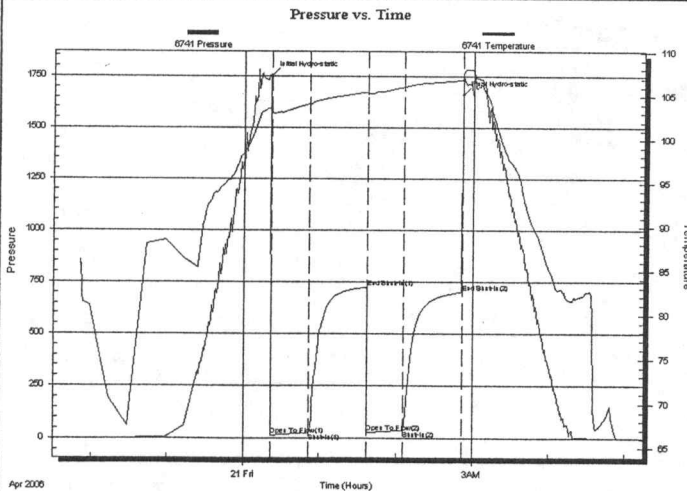
**Acheson # 1-28**  
**28 10 21 Graham KS**  
Job Ticket: 23055      **DST#: 4**  
Test Start: 2006.04.20 @ 21:51:19

## GENERAL INFORMATION:

Formation: **H-L LKC**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 00:21:49  
Time Test Ended: 04:54:04  
Test Type: Conventional Bottom Hole  
Tester: Dan Bangle  
Unit No: 21  
Interval: **3625.00 ft (KB) To 3735.00 ft (KB) (TVD)**  
Total Depth: 3735.00 ft (KB) (TVD)  
Reference Elevations: 2218.00 ft (KB)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
2213.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6741      Inside**  
Press@RunDepth: 37.72 psig @ 3628.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.04.20      End Date: 2006.04.21      Last Calib.: 2006.04.21  
Start Time: 21:51:21      End Time: 04:54:04      Time On Btm: 2006.04.21 @ 00:21:34  
Time Off Btm: 2006.04.21 @ 02:51:49

TEST COMMENT: IF Weak died in 17"  
FF No blow  
Times 30 45 30 45



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.58	103.78	Initial Hydro-static
1	13.65	103.28	Open To Flow (1)
31	25.36	104.14	Shut-In(1)
76	724.61	105.50	End Shut-In(1)
76	27.43	105.18	Open To Flow (2)
104	37.72	106.07	Shut-In(2)
150	701.50	106.86	End Shut-In(2)
151	1661.39	107.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	DM	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc

**Acheson # 1-28**

250 N Water Ste 300  
Wichita KS 67202

**28 10 21 Graham KS**

Job Ticket: 23055

**DST#: 4**

ATTN: David Doyle

Test Start: 2006.04.20 @ 21:51:19

### Tool Information

Drill Pipe:	Length: 3511.00 ft	Diameter: 3.80 inches	Volume: 49.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3625.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	131.00 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			3605.00	
Shut In Tool	5.00			3610.00	
Hydraulic tool	5.00			3615.00	
Packer	5.00			3620.00	21.00 Bottom Of Top Packer
Packer	5.00			3625.00	
Stubb	1.00			3626.00	
Perforations	1.00			3627.00	
Change Over Sub	1.00			3628.00	
Recorder	0.00	6741	Inside	3628.00	
Drill Pipe	92.00			3720.00	
Change Over Sub	1.00			3721.00	
Recorder	0.00	13254	Outside	3721.00	
Perforations	11.00			3732.00	
Bullnose	3.00			3735.00	110.00 Bottom Packers & Anchor

**Total Tool Length: 131.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Acheson # 1-28**

250 N Water Ste 300  
Wichita KS 67202

**28 10 21 Graham KS**

Job Ticket: 23055

**DST#: 4**

ATTN: David Doyle

Test Start: 2006.04.20 @ 21:51:19

### 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: 54.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	DM	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

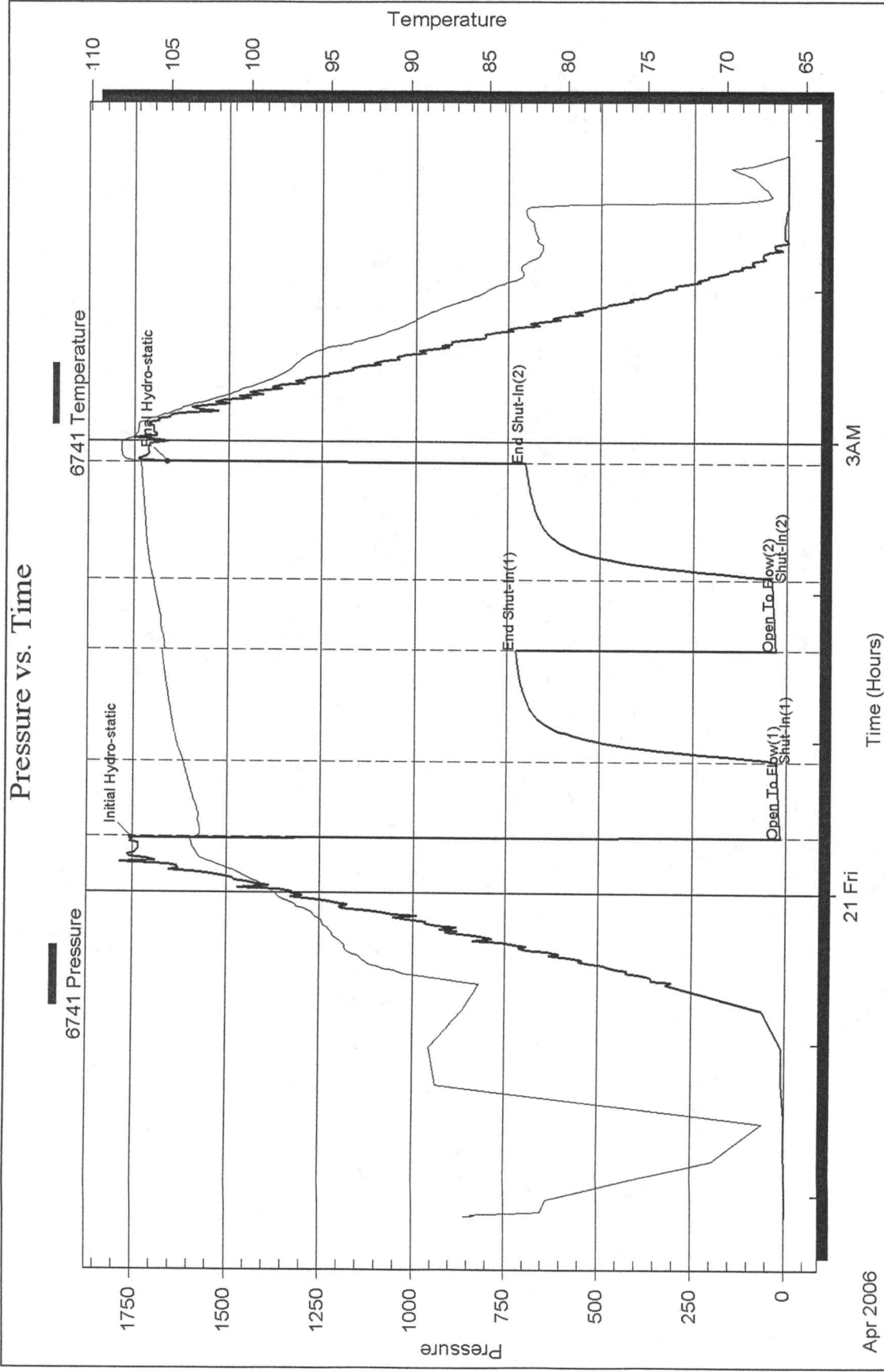
Serial #: 6741

Inside

Murfin Drilling Co Inc

28 10 21 Graham KS

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyle

**28 10 21 Graham KS**

**Acheson # 1-28**

Start Date: 2006.04.21 @ 20:00:57

End Date: 2006.04.22 @ 00:24:27

Job Ticket #: 23056                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

Acheson # 1-28

28 10 21 Graham KS

DST # 5

Arbuckle

2006.04.21



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Murfin Drilling Co Inc  
 250 N Water Ste 300  
 Wichita KS 67202  
 ATTN: David Doyle

**Acheson # 1-28**  
**28 10 21 Graham KS**  
 Job Ticket: 23056 **DST#: 5**  
 Test Start: 2006.04.21 @ 20:00:57

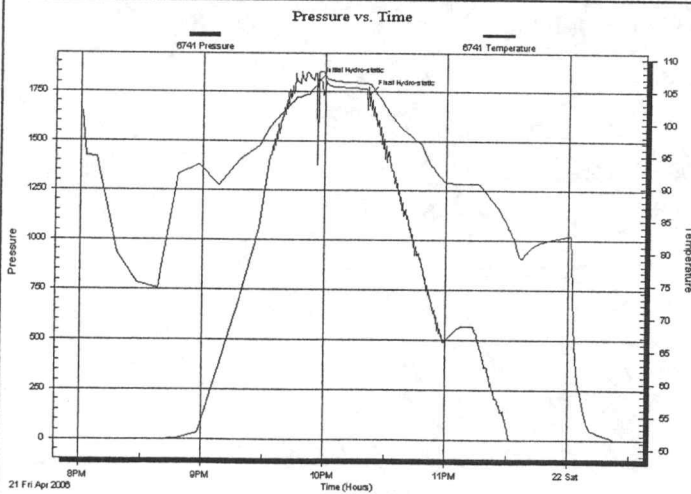
### GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:50:00  
 Time Test Ended: 00:24:27  
 Interval: **3779.00 ft (KB) To 3825.00 ft (KB) (TVD)**  
 Total Depth: 3825.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 21  
 Reference Elevations: 2218.00 ft (KB)  
 2213.00 ft (CF)  
 KB to GRV/CF: 5.00 ft

### Serial #: 6741

Press@RunDepth: psig @ ft (KB) Capacity: 7000.00 psig  
 Start Date: 2006.04.21 End Date: 2006.04.22 Last Calib.: 2006.04.22  
 Start Time: 20:00:59 End Time: 00:24:27 Time On Btm: 2006.04.21 @ 21:56:27  
 Time Off Btm: 2006.04.21 @ 22:22:12

TEST COMMENT: Packer Failure



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1803.91	107.10	Initial Hydro-static
26	1738.00	106.17	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
185.00	DM	1.47

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: David Doyle

**Acheson # 1-28**  
**28 10 21 Graham KS**  
Job Ticket: 23056      **DST#: 5**  
Test Start: 2006.04.21 @ 20:00:57

### Tool Information

Drill Pipe:	Length: 3665.00 ft	Diameter: 3.80 inches	Volume: 51.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 52.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3779.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	67.00 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			3759.00	
Shut In Tool	5.00			3764.00	
Hydraulic tool	5.00			3769.00	
Packer	5.00			3774.00	21.00      Bottom Of Top Packer
Packer	5.00			3779.00	
Stubb	1.00			3780.00	
Perforations	1.00			3781.00	
Change Over Sub	1.00			3782.00	
Recorder	0.00	6741	Inside	3782.00	
Drill Pipe	31.00			3813.00	
Change Over Sub	1.00			3814.00	
Recorder	0.00	13254	Outside	3814.00	
Perforations	8.00			3822.00	
Bullnose	3.00			3825.00	46.00      Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Acheson # 1-28**

250 N Water Ste 300  
Wichita KS 67202

**28 10 21 Graham KS**

Job Ticket: 23056

**DST#: 5**

ATTN: David Doyle

Test Start: 2006.04.21 @ 20:00:57

### 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: 57.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	DM	1.465

Total Length: 185.00 ft

Total Volume: 1.465 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

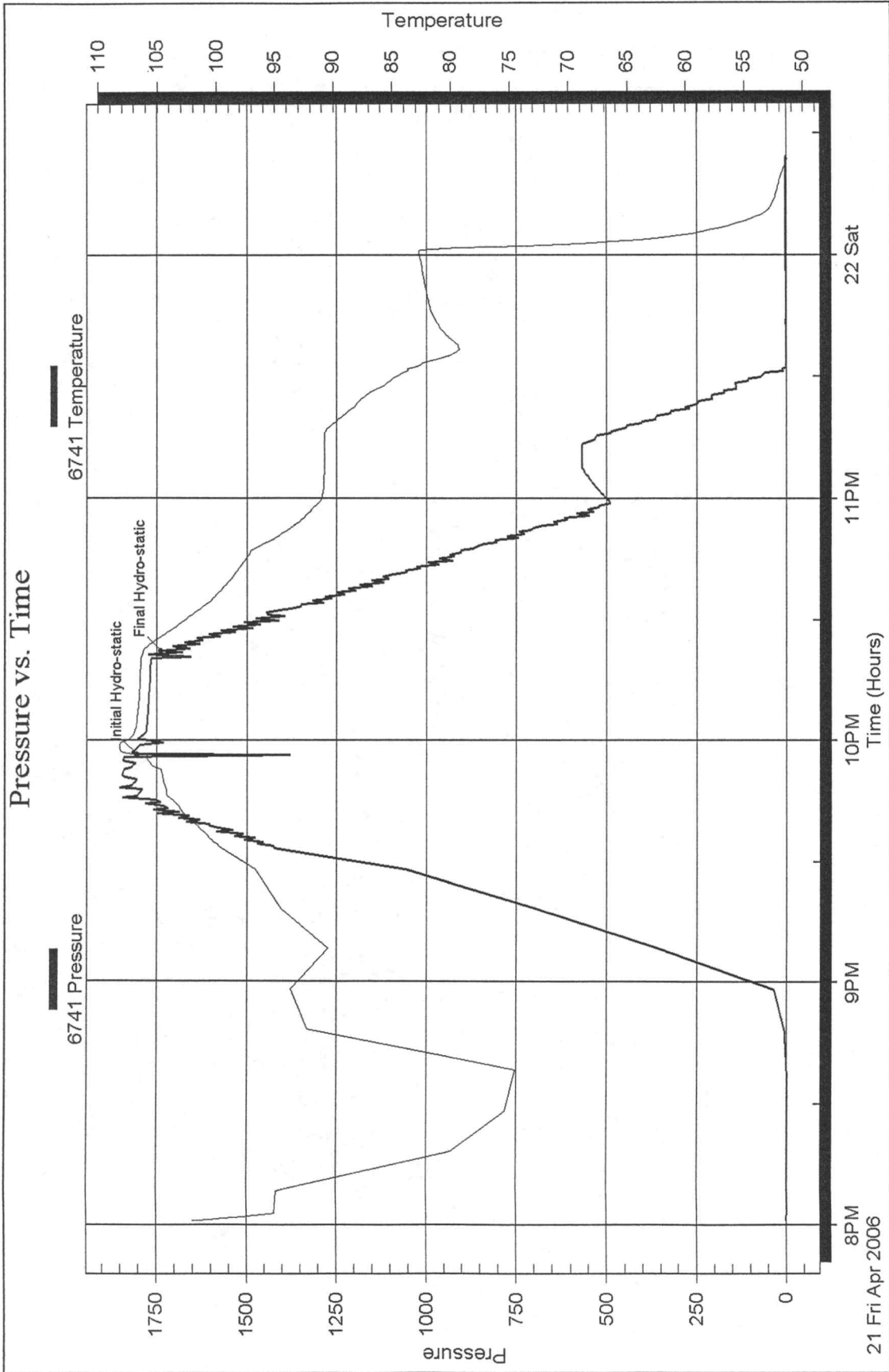
Recovery Comments:

Serial #: 6741

Murfin Drilling Co Inc

28 10 21 Graham KS

DST Test Number: 5





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyle

**28 10 21 Graham KS**

**Acheson # 1-28**

Start Date: 2006.04.22 @ 00:31:36

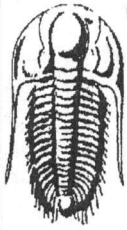
End Date: 2006.04.22 @ 07:04:21

Job Ticket #: 23057                      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 Co Inc  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: David Doyle

**Acheson # 1-28**  
**28 10 21 Graham KS**  
Job Ticket: 23057      **DST#: 6**  
Test Start: 2006.04.22 @ 00:31:36

### GENERAL INFORMATION:

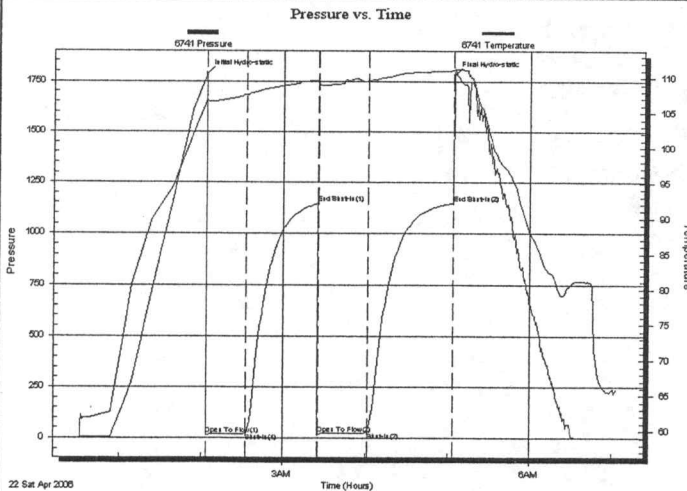
Formation: **Arbuckle**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 02:03:51  
Time Test Ended: 07:04:21  
Test Type: Conventional Bottom Hole  
Tester: Dan Bangle  
Unit No: 21  
Interval: **3764.00 ft (KB) To 3825.00 ft (KB) (TVD)**  
Total Depth: 3825.00 ft (KB) (TVD)  
Reference Elevations: 2218.00 ft (KB)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
2213.00 ft (CF)  
KB to GR/CF: 5.00 ft

### Serial #: 6741

Inside

Press@RunDepth: 26.62 psig @ 3767.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.04.22      End Date: 2006.04.22      Last Calib.: 2006.04.22  
Start Time: 00:31:38      End Time: 07:04:21      Time On Btm: 2006.04.22 @ 02:03:36  
Time Off Btm: 2006.04.22 @ 05:04:36

TEST COMMENT: IF Weak died in 16"  
FF No blow  
Times 30 45 45 60



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1786.38	106.91	Initial Hydro-static
1	14.40	106.79	Open To Flow (1)
30	21.82	107.57	Shut-In(1)
81	1145.75	109.65	End Shut-In(1)
82	21.63	109.24	Open To Flow (2)
118	26.62	109.58	Shut-In(2)
181	1148.52	111.07	End Shut-In(2)
181	1782.35	111.27	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	DM	0.02

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: David Doyle

**Acheson # 1-28**  
**28 10 21 Graham KS**  
Job Ticket: 23057      **DST#: 6**  
Test Start: 2006.04.22 @ 00:31:36

### Tool Information

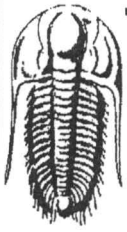
Drill Pipe:	Length: 3634.00 ft	Diameter: 3.80 inches	Volume: 50.98 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3764.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 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			3744.00	
Shut In Tool	5.00			3749.00	
Hydraulic tool	5.00			3754.00	
Packer	5.00			3759.00	21.00      Bottom Of Top Packer
Packer	5.00			3764.00	
Stubb	1.00			3765.00	
Perforations	1.00			3766.00	
Change Over Sub	1.00			3767.00	
Recorder	0.00	6741	Inside	3767.00	
Drill Pipe	31.00			3798.00	
Change Over Sub	1.00			3799.00	
Recorder	0.00	13254	Outside	3799.00	
Perforations	23.00			3822.00	
Bullnose	3.00			3825.00	61.00      Bottom Packers & Anchor

**Total Tool Length: 82.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Acheson # 1-28**

250 N Water Ste 300  
Wichita KS 67202

**28 10 21 Graham KS**

Job Ticket: 23057

**DST#: 6**

ATTN: David Doyle

Test Start: 2006.04.22 @ 00:31:36

### 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	DM	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

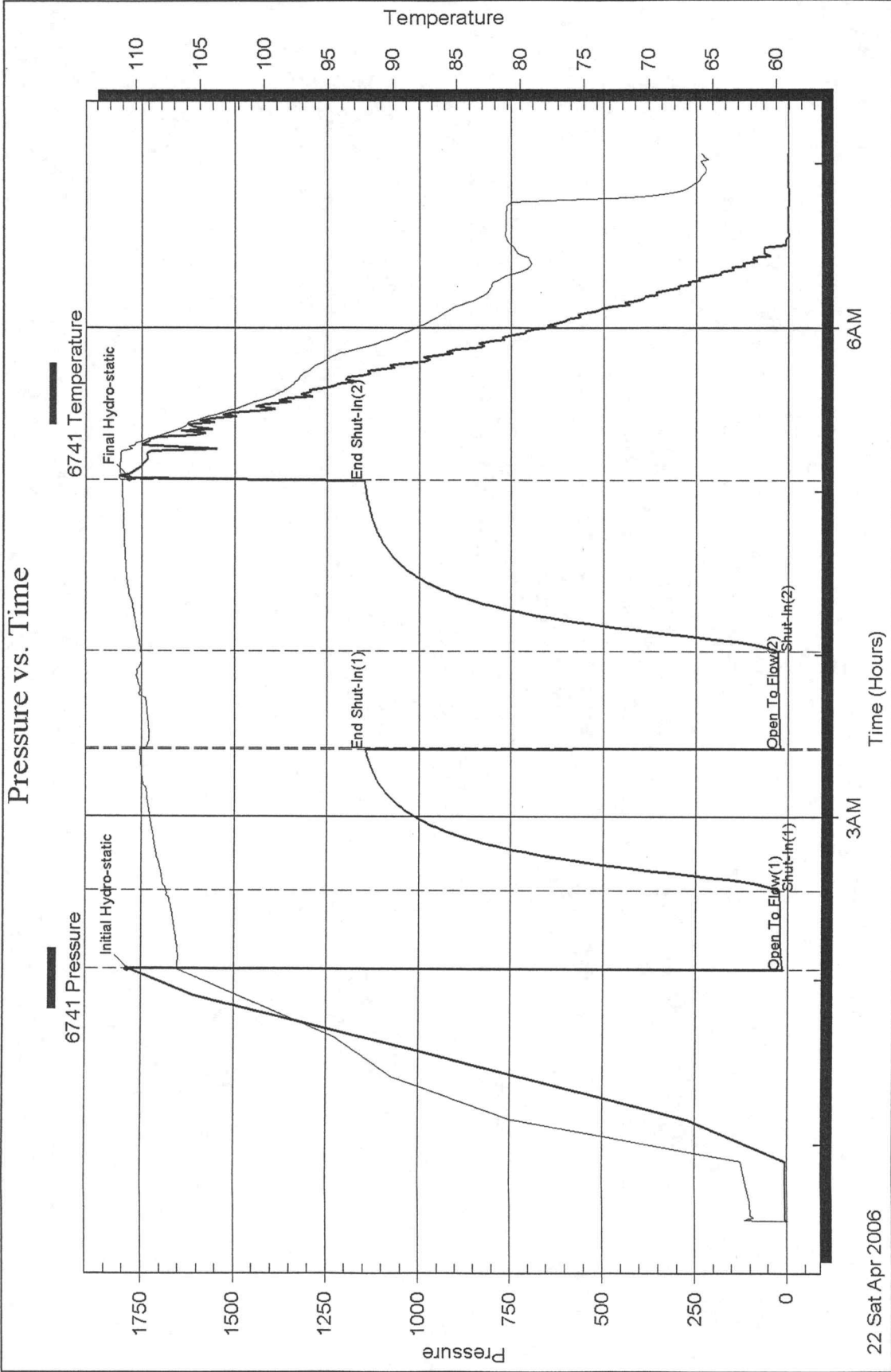
Inside

Murfin Drilling Co Inc

28 10 21 Graham KS

DST Test Number: 6

### Pressure vs. Time



22 Sat Apr 2006

3AM

6AM

Time (Hours)



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyle

**28 10 21 Graham KS**

**Acheson # 1-28**

Start Date: 2006.04.22 @ 12:47:01

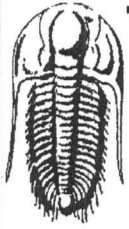
End Date: 2006.04.22 @ 19:53:31

Job Ticket #: 23058                      DST #: 7

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 Co Inc  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: David Doyle

**Acheson # 1-28**  
**28 10 21 Graham KS**  
Job Ticket: 23058      **DST#: 7**  
Test Start: 2006.04.22 @ 12:47:01

## GENERAL INFORMATION:

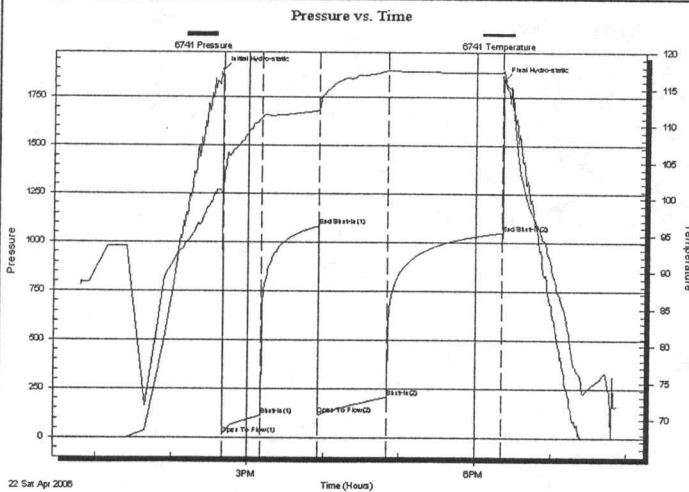
Formation: **Arbuckle**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 14:40:16  
Time Test Ended: 19:53:31  
Test Type: Conventional Bottom Hole  
Tester: Dan Bangle  
Unit No: 21  
Interval: **3825.00 ft (KB) To 3835.00 ft (KB) (TVD)**  
Total Depth: 3835.00 ft (KB) (TVD)  
Reference Elevations: 2218.00 ft (KB)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
KB to GR/CF: 5.00 ft

## Serial #: 6741

Inside

Press@RunDepth: 207.33 psig @ 3826.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.04.22      End Date: 2006.04.22      Last Calib.: 2006.04.22  
Start Time: 12:47:03      End Time: 19:53:31      Time On Btm: 2006.04.22 @ 14:40:01  
Time Off Btm: 2006.04.22 @ 18:21:46

TEST COMMENT: IF Strong B B in 20"  
FF Strong B B in 34"  
Times 30 45 60 90



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.33	100.75	Initial Hydro-static
1	17.15	100.90	Open To Flow (1)
31	113.02	111.10	Shut-In(1)
76	1083.25	112.10	End Shut-In(1)
76	116.38	111.99	Open To Flow (2)
130	207.33	117.57	Shut-In(2)
222	1052.14	117.37	End Shut-In(2)
222	1838.46	117.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
440.00	W Rw .13 @ 80 = 32000ppm	5.04

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling Co Inc  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: David Doyle

**Acheson # 1-28**  
**28 10 21 Graham KS**  
Job Ticket: 23058      **DST#: 7**  
Test Start: 2006.04.22 @ 12:47:01

**Tool Information**

Drill Pipe:	Length: 3696.00 ft	Diameter: 3.80 inches	Volume: 51.85 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 52.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3825.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	31.00 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			3805.00	
Shut In Tool	5.00			3810.00	
Hydraulic tool	5.00			3815.00	
Packer	5.00			3820.00	21.00      Bottom Of Top Packer
Packer	5.00			3825.00	
Stubb	1.00			3826.00	
Recorder	0.00	6741	Inside	3826.00	
Perforations	6.00			3832.00	
Recorder	0.00	13254	Outside	3832.00	
Bullnose	3.00			3835.00	10.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>31.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Acheson # 1-28**

250 N Water Ste 300  
Wichita KS 67202

**28 10 21 Graham KS**

Job Ticket: 23058

**DST#: 7**

ATTN: David Doyle

Test Start: 2006.04.22 @ 12:47:01

## 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:

32000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
440.00	W Rw .13 @ 80 = 32000ppm	5.042

Total Length: 440.00 ft

Total Volume: 5.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

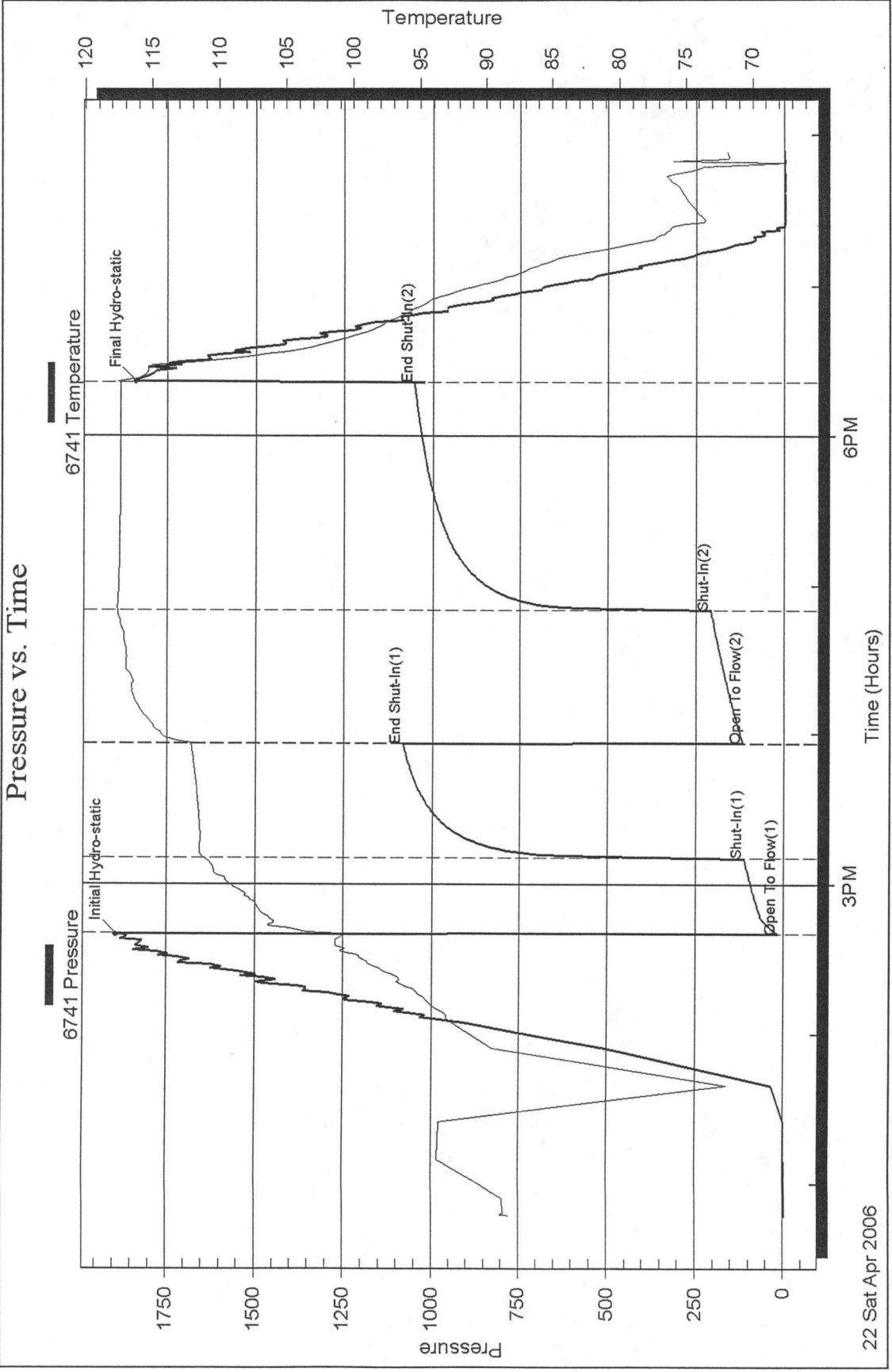
Inside

Murfin Drilling Co Inc

28 10 21 Graham KS

DST Test Number: 7

### Pressure vs. Time

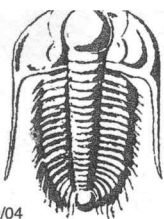


22 Sat Apr 2006

Trilobite Testing, Inc

Ref. No: 23058

Printed: 2006.04.24 @ 10:42:46 Page 5



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8673

No 23052

9/04

## Test Ticket

Well Name & No. Acheson # 1-28 Test No. 1 Date 4-18-06  
 Company Murfin Drilg Co. Inc Zone Tested A LRC  
 Address 250 N. WTR. STE 300, Wichita, Ks. 67202 Elevation 2218 KB 2213 GL  
 Co. Rep / Geo. Tim Priest Cont. Murfin # Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 28 Twp. 10 Rge. 21 Co. Graham State Ks  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3487 ————— 3510 Initial Str Wt./Lbs. 44,000 Unseated Str Wt/Lbs. 44,000  
 Anchor Length \_\_\_\_\_ 23 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth \_\_\_\_\_ 3482 Tool Weight 2000  
 Bottom Packer Depth \_\_\_\_\_ 3487 Hole Size 7 7/8" \_\_\_\_\_ Rubber Size 6 3/4" \_\_\_\_\_  
 Total Depth \_\_\_\_\_ 3510 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 124  
 Mud Wt. 8.9 LCM \_\_\_\_\_ Vis. 46 WL 7.2 Drill Pipe Size 4.5XH Ft. Run 3354  
 Blow Description Slid Tool 10' to bottom - lost 10' mud - I.F. 3" surging  
blow - Died in 30 min.  
F.E. No blow - flushed Tool

Recovery - Total Feet 90 GIP \_\_\_\_\_ Ft. in DC 90 Ft. in DP \_\_\_\_\_  
 Rec. 90 Feet of mud w/ show oil %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of on top %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 106 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 3200 ppm System

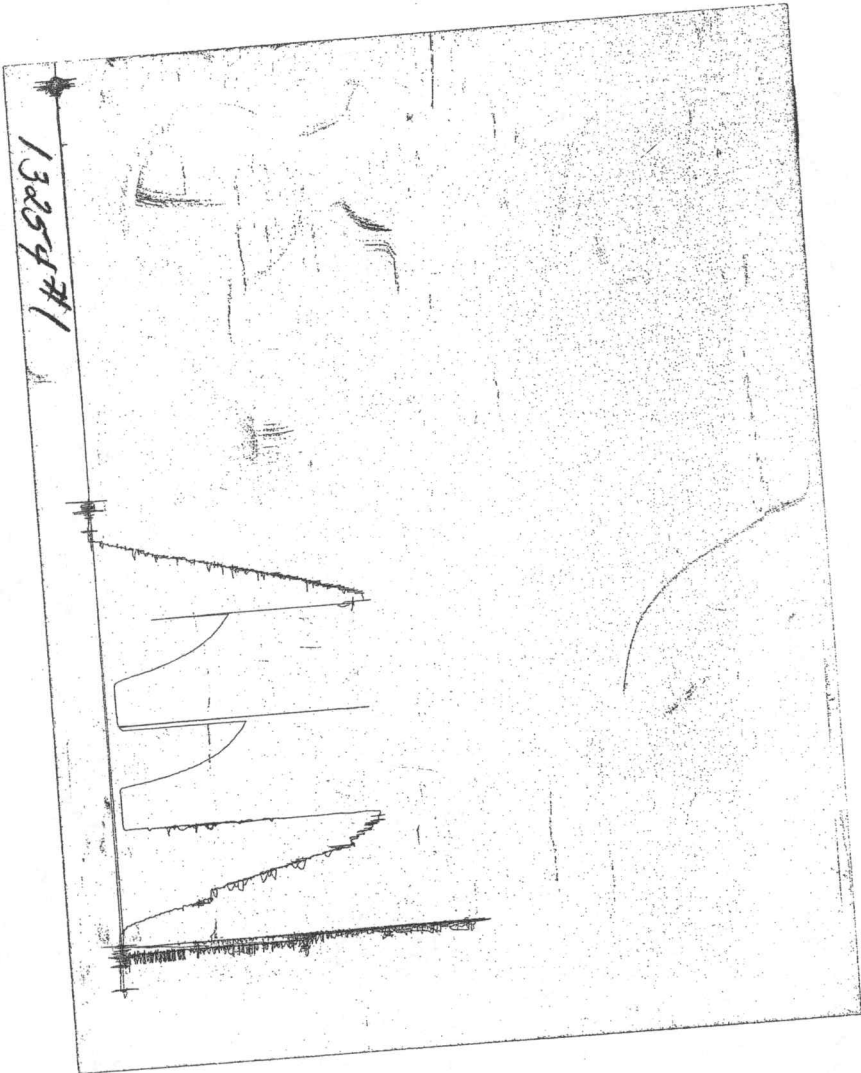
(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	<u>6741</u>	Test	<u>1000</u>
(B) First Initial Flow Pressure		<u>1652</u> PSI	(depth)	<u>3488</u>	Jars	
(C) First Final Flow Pressure		<u>45</u> PSI	Recorder No.	<u>13254</u>	Safety Jt.	
(D) Initial Shut-In Pressure		<u>50</u> PSI	(depth)	<u>3507</u>	Circ Sub	
(E) Second Initial Flow Pressure		<u>892</u> PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure		<u>52</u> PSI	(depth)		Straddle	
(G) Final Shut-In Pressure		<u>56</u> PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud		<u>830</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer	
		<u>1591</u> PSI	Final Flow	<u>30</u>	Ruined Packer	
			Final Shut-In	<u>45</u>	Mileage <u>70</u>	<u>87.50</u>
			T-On Location	<u>13:00</u>	Sub Total:	<u>1087.50</u>
			T-Started	<u>13:47</u>	Std. By	
			T-Open	<u>15:50</u>	Other	
			T-Pulled	<u>18:25</u>	Total:	
			T-Out	<u>20:00</u>		

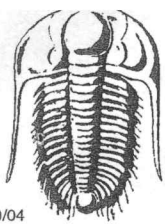
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By Tim Priest  
 Our Representative Dan Rangle

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23053

## Test Ticket

Well Name & No. Acheson #1-28 Test No. 2 Date 4-19-66  
 Company Murfin Drilg Co. Inc Zone Tested B-D LKC  
 Address \_\_\_\_\_ Elevation 2218 KB 2213 GL \_\_\_\_\_  
 Co. Rep / Geo. Tim Priest Cont. Murfin #24 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 28 Twp. 10 Rge. 21 Co. Graham State Ks  
 No. of Copies \_\_\_\_\_ Disbtribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3526 — 3570 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 44,000  
 Anchor Length 44 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 3521 Tool Weight 2200  
 Bottom Packer Depth 3526 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3570 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 124  
 Mud Wt. 9 LCM \_\_\_\_\_ Vis. 49 WL 7.2 Drill Pipe Size 4.5x14 Ft. Run 3413  
 Blow Description I.F. Weak - Died in 10 min.

F.F. No blow

Recovery - Total Feet 1 GIP \_\_\_\_\_ Ft. in DC 1 Ft. in DP \_\_\_\_\_  
 Rec. 1 Feet of D.M. %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 106 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1723</u>	PSI	<u>6741</u>	<u>1000</u>
(B) First Initial Flow Pressure	<u>12</u>	PSI	(depth) <u>3533</u>	Jars _____
(C) First Final Flow Pressure	<u>13</u>	PSI	Recorder No. <u>13254</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>28</u>	PSI	(depth) <u>3567</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>13</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>13</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>21</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1656</u>	PSI	Initial Shut-In <u>45</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>45</u>	Mileage <u>70</u> <u>8750</u>
			T-On Location <u>05:35</u>	Sub Total: <u>1087.50</u>
			T-Started <u>05:52</u>	Std. By _____
			T-Open <u>08:43</u>	Other _____
			T-Pulled <u>11:18</u>	Total: _____
			T-Out <u>12:51</u>	

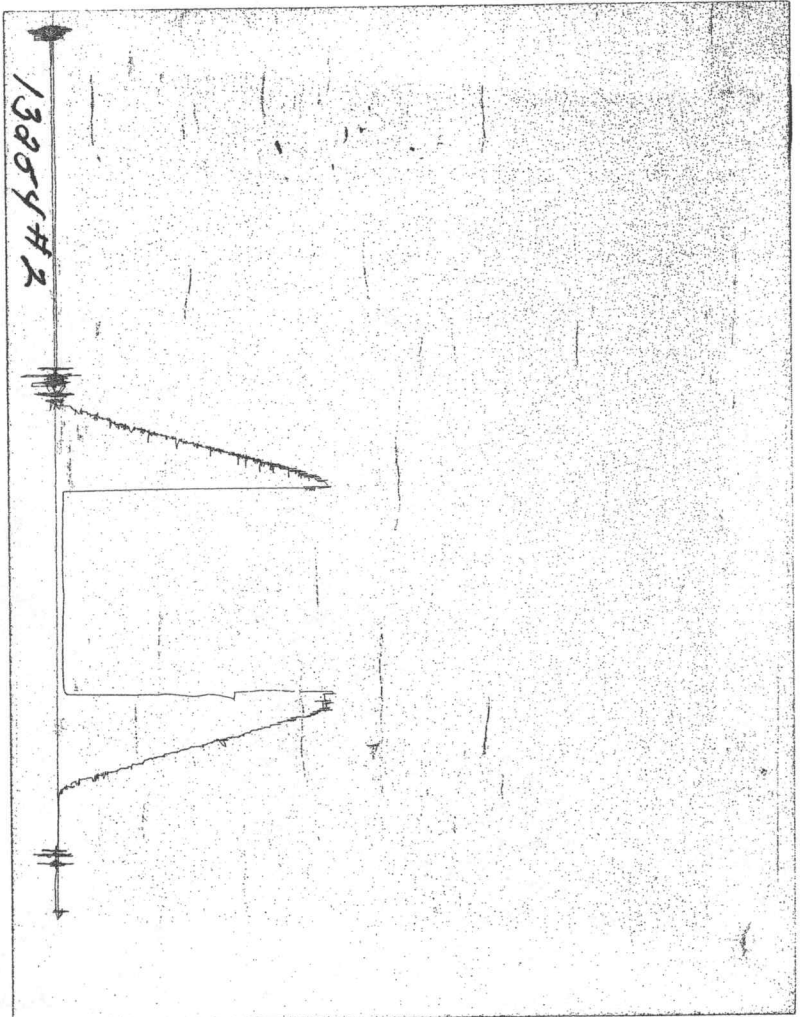
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

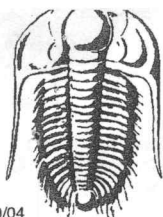
Approved By \_\_\_\_\_

Our Representative Dan Rangle

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.





# TRILOBITE TESTING INC.

No 23054

P.O. Box 362 • Hays, Kansas 67601

9/04

## Test Ticket

Well Name & No. Acheson #1-28 Test No. 3 Date 4-20-06  
 Company Murfin Drilg Co. Inc Zone Tested D-E-F LRC  
 Address \_\_\_\_\_ Elevation 2218 KB 2213 GL \_\_\_\_\_  
 Co. Rep / Geo. Tim Priest Cont. Murfin #24 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 28 Twp. 10 Rge. 21 Co. Graham State K5  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3546 ——— 3593 Initial Str Wt./Lbs. 44,000 Unseated Str Wt/Lbs. 44,000  
 Anchor Length 47 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 3541 Tool Weight 2000  
 Bottom Packer Depth 3546 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3593 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 124  
 Mud Wt. 9 LCM \_\_\_\_\_ Vis. 49 WL 7.2 Drill Pipe Size 4.5 XH Ft. Run 3417  
 Blow Description I.F. Weak - Died in 15 min.

E.F.

Recovery - Total Feet 5 GIP \_\_\_\_\_ Ft. in DC 5 Ft. in DP \_\_\_\_\_  
 Rec. 5 Feet of DM %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 103 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4,000 ppm System

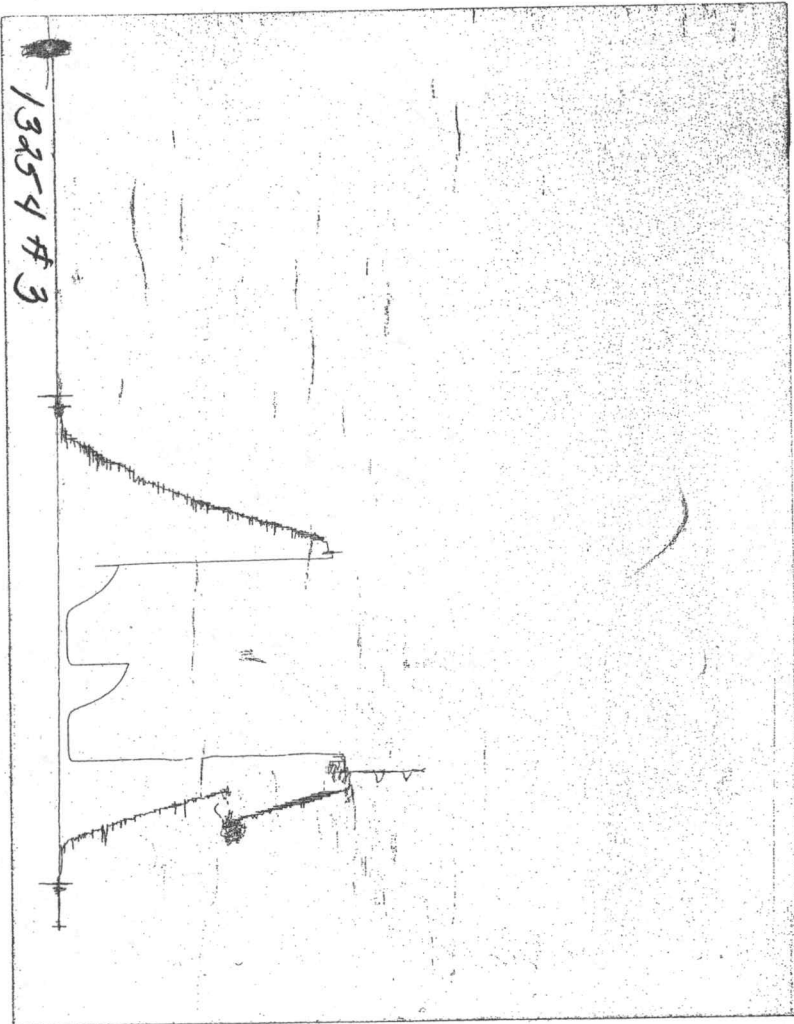
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1726</u> PSI	<u>6741</u>	<u>1000</u>
(B) First Initial Flow Pressure		<u>11</u> PSI	(depth) <u>3549</u>	Jars _____
(C) First Final Flow Pressure		<u>13</u> PSI	Recorder No. <u>13254</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>438</u> PSI	(depth) <u>3579</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>14</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>16</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>387</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1649</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>45</u>	Mileage <u>70</u>
			T-On Location <u>00:01</u>	Sub Total: <u>87.50</u> <u>1087.50</u>
			T-Started <u>00:05</u>	Std. By _____
			T-Open <u>02:15</u>	Other _____
			T-Pulled <u>04:45</u>	Total: _____
			T-Out <u>06:41</u>	

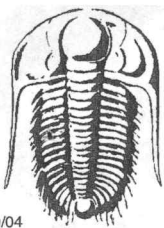
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Approved By \_\_\_\_\_

Our Representative Dan Bangle

**CHART PAGE**  
This is a photocopy of the actual AK-1 recorder chart.





# TRILOBITE TESTING INC.

No 23055

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Acheson #1-28 Test No. 4 Date 4-20-06  
 Company Murfin Drilg Co. Inc Zone Tested H-L LKC  
 Address \_\_\_\_\_ Elevation 2218 KB 2213 GL  
 Co. Rep / Geo. Tim Priest Cont. Murfin #24 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 28 Twp. 10 Rge. 21 Co. Graham State K5  
 No. of Copies \_\_\_\_\_ Disbtribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3625 ————— 3735 Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000  
 Anchor Length 110 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 3620 Tool Weight 2000  
 Bottom Packer Depth 3625 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3735 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 124  
 Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 54 WL 7.2 Drill Pipe Size 4.5 x H Ft. Run 3511  
 Blow Description E.F. Weak - Dried in 17 min.

E.F. No blow

Recovery - Total Feet 5 GIP \_\_\_\_\_ Ft. in DC 5 Ft. in DP \_\_\_\_\_  
 Rec. 5 Feet of DM %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 106 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 4400 ppm System

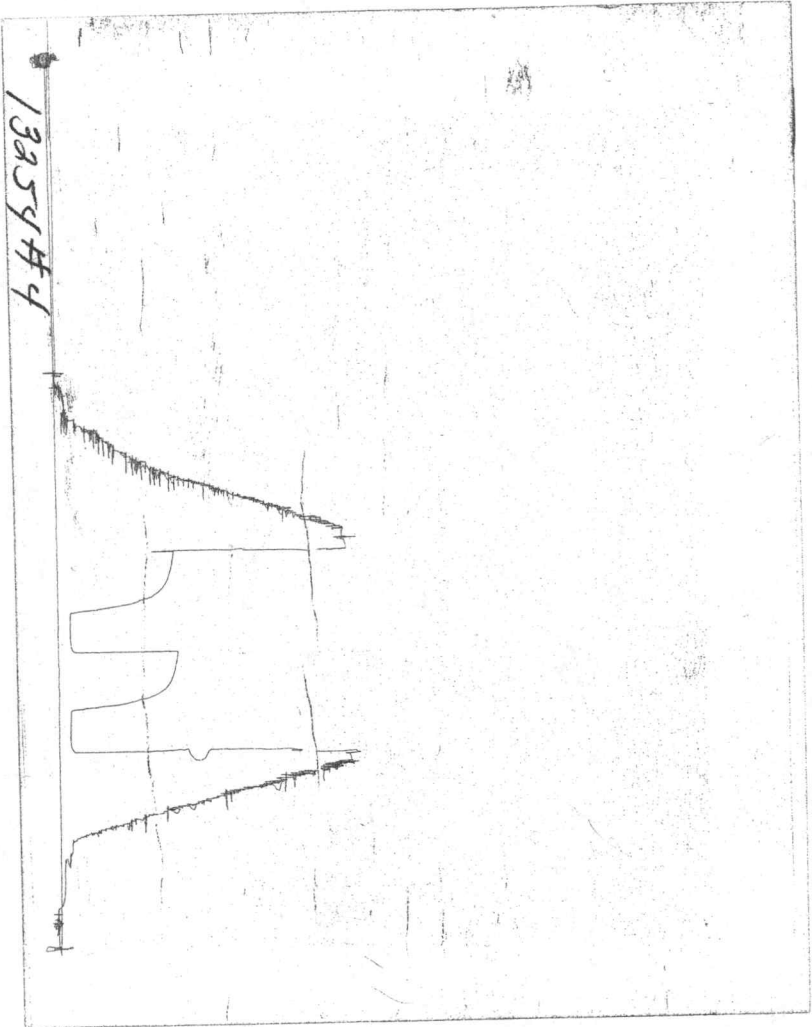
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1757</u> PSI	<u>6741</u>	_____
(B) First Initial Flow Pressure		<u>13</u> PSI	(depth) <u>3628</u>	Jars _____
(C) First Final Flow Pressure		<u>25</u> PSI	Recorder No. <u>13254</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>724</u> PSI	(depth) <u>3721</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>27</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>37</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>701</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1731</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>45</u>	Mileage <u>70</u>
			<b>T-On Location</b> <u>21:45</u>	Sub Total: <u>1087.50</u>
			T-Started <u>21:51</u>	Std. By _____
			T-Open <u>01:22</u>	Other _____
			T-Pulled <u>02:52</u>	Total: _____
			T-Out <u>04:54</u>	

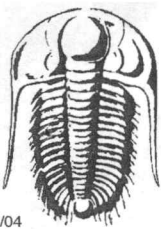
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By \_\_\_\_\_  
 Our Representative Dan Rangle

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23056

## Test Ticket

Well Name & No. Acheson # 1-28 Test No. 5 Date 4-21-06  
 Company Murfin Drilg Co. Inc Zone Tested Arbuckle  
 Address \_\_\_\_\_ Elevation 2218 KB 2213 GL \_\_\_\_\_  
 Co. Rep / Geo. Tim Priest Cont. Murfin #24 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 28 Twp. 10 Rge. 21 Co. Graham State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3779 ——— 3825 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 416,000  
 Anchor Length 46 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 3774 Tool Weight 2000  
 Bottom Packer Depth 3779 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3825 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 124  
 Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 57 WL 7.2 Drill Pipe Size 4.5xH Ft. Run 3665  
 Blow Description Packer failure

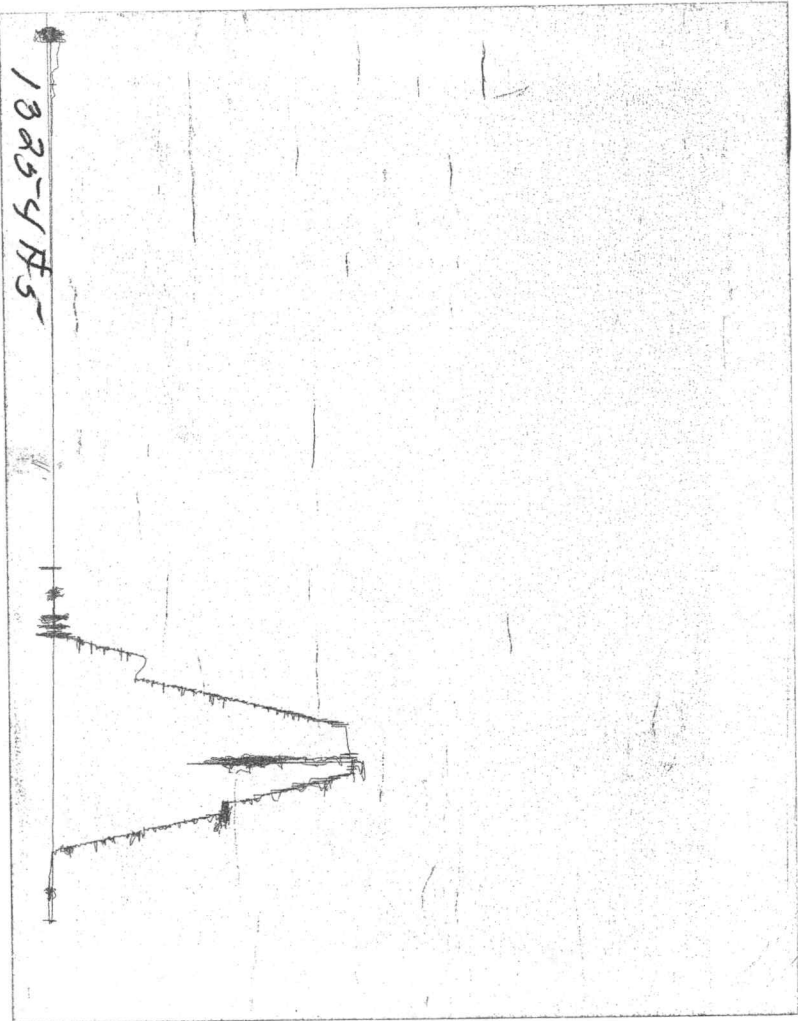
Recovery - Total Feet 185 GIP \_\_\_\_\_ Ft. in DC 124 Ft. in DP 61  
 Rec. 185 Feet of DM %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 105 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 5100 ppm System

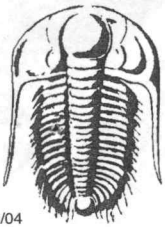
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1817</u> PSI	<u>6741</u>	<u>Misrun</u> <sup>900</sup>
(B) First Initial Flow Pressure		PSI	<u>3782</u>	Jars _____
(C) First Final Flow Pressure		PSI	<u>13254</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		PSI	<u>3814</u>	Circ Sub _____
(E) Second Initial Flow Pressure		PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		PSI	<b>Initial Opening</b> _____	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1738</u>	PSI	Initial Shut-In _____	Shale Packer _____
			Final Flow _____	Ruined Packer _____
			Final Shut-In _____	Mileage <u>70</u> <u>87.50</u>
			<b>T-On Location</b> <u>19:30</u>	Sub Total: <u>987.50</u>
			T-Started <u>20:00</u>	Std. By _____
			T-Open <u>21:50</u>	Other _____
			T-Pulled <u>22:00</u>	Total: _____
			T-Out <u>00:24</u>	

Approved By \_\_\_\_\_  
 Our Representative Dan Kangle

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.





# TRILOBITE TESTING INC.

No 23057

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Acheson #1-28 Test No. 6 Date 4-22-06  
 Company Murfin Drilg Co. Inc Zone Tested Arbuckle  
 Address \_\_\_\_\_ Elevation 2218 KB 2213 GL \_\_\_\_\_  
 Co. Rep / Geo. Tim Priest Cont. Murfin #24 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 28 Twp. 10 Rge. 21 Co. Graham State Ks  
 No. of Copies \_\_\_\_\_ Disbtribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3764 ——— 3825 Initial Str Wt./Lbs. 46,000 Unseated Str Wt/Lbs. 46,000  
 Anchor Length 61 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth \_\_\_\_\_ Tool Weight 2000  
 Bottom Packer Depth 3764 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3825 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 124  
 Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 57 WL 7.2 Drill Pipe Size 4.5XH Ft. Run 3634  
 Blow Description I.F. Weak - Died in 16 min.

E.F. No blow

Recovery - Total Feet 5 GIP \_\_\_\_\_ Ft. in DC 5 Ft. in DP \_\_\_\_\_  
 Rec. 5 Feet of DM %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 111 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 5100 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1850</u> PSI	<u>6741</u>	<u>1000</u>
(B) First Initial Flow Pressure		<u>14</u> PSI	(depth) <u>3767</u>	Jars _____
(C) First Final Flow Pressure		<u>21</u> PSI	Recorder No. <u>13254</u>	Safety Jt. _____
(D) Initial Shut-In Pressure		<u>1145</u> PSI	(depth) <u>3799</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>21</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>26</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1148</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1782</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>—</u>

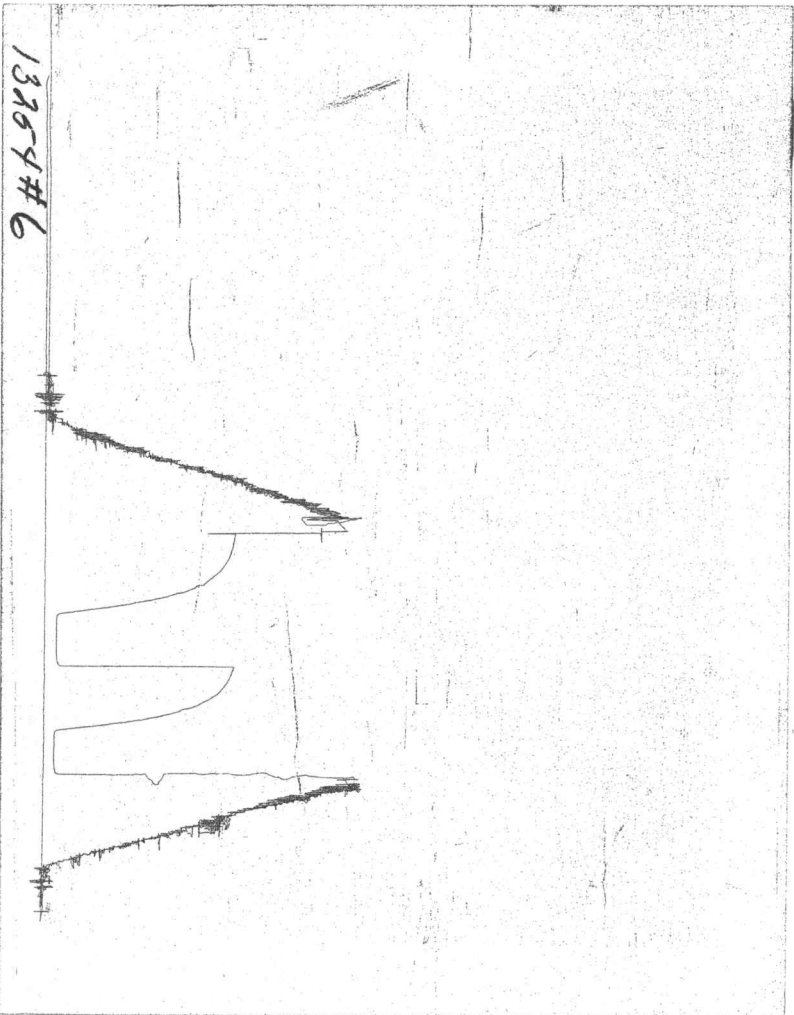
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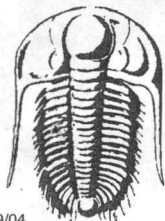
### T-On Location

Approved By \_\_\_\_\_ T-Started 00:31 Std. By \_\_\_\_\_  
 Our Representative Dan Bangle T-Open 02:00 Other \_\_\_\_\_  
 T-Pulled 05:00 Total: \_\_\_\_\_  
 T-Out 07:04

**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart.





# TRILOBITE TESTING INC.

No 23058

P.O. Box 362 • Hays, Kansas 67601

9/04

## Test Ticket

Well Name & No. Acheson # 1-28 Test No. 7 Date 4-22-06  
 Company Murfin Drilg Co. Inc Zone Tested Arbuckle  
 Address \_\_\_\_\_ Elevation 2218 KB 2213 GL \_\_\_\_\_  
 Co. Rep / Geo. Tim Priest Cont. Murfin #24 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 28 Twp. 10 Rge. 21 Co. Graham State Ks  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3825 ——— 3835 Initial Str Wt./Lbs. 46000 Unseated Str Wt/Lbs. 48000  
 Anchor Length 10 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs 69000  
 Top Packer Depth \_\_\_\_\_ 3820 Tool Weight 2000  
 Bottom Packer Depth \_\_\_\_\_ 3825 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth \_\_\_\_\_ 3835 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 124  
 Mud Wt. 9 LCM 70 Vis. 50 WL 8 Drill Pipe Size 4.5 XH Ft. Run 3696  
 Blow Description I.F. Strong b-b in 20

E.F. Strong b-b in 34 min.

Recovery - Total Feet 440 GIP \_\_\_\_\_ Ft. in DC 124 Ft. in DP 316  
 Rec. 440 Feet of WTR %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 117 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .13 @ 80 °F Chlorides 32000 ppm Recovery \_\_\_\_\_ Chlorides 6400 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1890</u> PSI	<u>1890</u> PSI	<u>6741</u>	<u>1000</u>
(B) First Initial Flow Pressure	<u>17</u> PSI	<u>17</u> PSI	<u>3826</u>	Jars _____
(C) First Final Flow Pressure	<u>113</u> PSI	<u>113</u> PSI	<u>13254</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1083</u> PSI	<u>1083</u> PSI	<u>3832</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>116</u> PSI	<u>116</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>207</u> PSI	<u>207</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>1002</u> PSI	<u>1002</u> PSI	<b>Initial Opening</b> <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1838</u> PSI	<u>1838</u> PSI	Initial Shut-In <u>45</u>	Shale Packer _____
			Final Flow <u>60</u>	Ruined Packer _____
			Final Shut-In <u>90</u>	Mileage <u>20</u> <u>87.50</u>

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.

Approved By \_\_\_\_\_

Our Representative Dan Bangle

**T-On Location** 12:30 Sub Total: 1087.50

T-Started 12:47 Std. By \_\_\_\_\_

T-Open 14:40 Other \_\_\_\_\_

T-Pulled 18:20 Total: \_\_\_\_\_

T-Out 19:53

**CHART PAGE**

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