



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyel

**11 20S 13W Barton KS**

**Pan John Unit #1-11**

Start Date: 2006.09.12 @ 16:05:59

End Date: 2006.09.12 @ 22:54:53

Job Ticket #: 26226                      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 Doyel

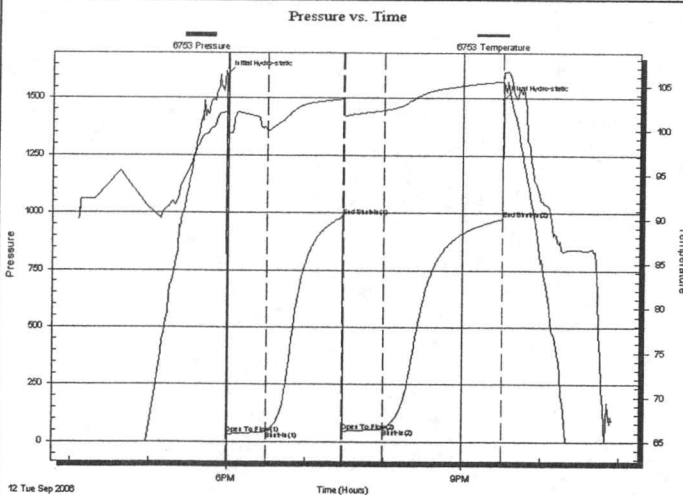
**Pan John Unit #1-11**  
**11 20S 13W Barton KS**  
 Job Ticket: 26226 **DST#: 1**  
 Test Start: 2006.09.12 @ 16:05:59

## GENERAL INFORMATION:

Formation: **LKC A-D**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 17:58:54  
 Time Test Ended: 22:54:53  
 Interval: **3196.00 ft (KB) To 3250.00 ft (KB) (TVD)**  
 Total Depth: **3250.00 ft (KB) (TVD)**  
 Hole Diameter: **7.85 inches** Hole Condition: **Poor**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Ray Schwager**  
 Unit No: **28**  
 Reference Elevations: **1842.00 ft (KB)**  
**1837.00 ft (CF)**  
**KB to GR/CF: 5.00 ft**

**Serial #: 6753** **Inside**  
 Press@RunDepth: **57.13 psig @ 3199.01 ft (KB)**  
 Start Date: **2006.09.12** End Date: **2006.09.12** Capacity: **7000.00 psig**  
 Start Time: **16:05:59** End Time: **22:54:53** Last Calib.: **2006.09.12**  
 Time On Btm: **2006.09.12 @ 17:58:24**  
 Time Off Btm: **2006.09.12 @ 21:30:53**

**TEST COMMENT:** IFP Wk bl thru-out 1/4 " bl  
 FFP No bl  
 Times 30 60 30 90  
 No bl on shut-in



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.12	102.09	Initial Hydro-static
1	32.54	99.73	Open To Flow (1)
31	44.90	99.92	Shut-In(1)
90	983.20	103.53	End Shut-In(1)
91	47.15	101.66	Open To Flow (2)
121	57.13	102.22	Shut-In(2)
212	973.95	105.55	End Shut-In(2)
213	1496.73	106.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	WM 40%W 60%M w/show of Oil	0.15
0.00	60' GIP	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

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyel

**Pan John Unit #1-11**

**11 20S 13W Barton KS**

Job Ticket: 26226

**DST#: 1**

Test Start: 2006.09.12 @ 16:05:59

### Tool Information

Drill Pipe:	Length: 3041.00 ft	Diameter: 3.80 inches	Volume: 42.66 bbl	Tool Weight: 2200.00 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: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3196.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.02 ft			
Tool Length:	75.02 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			3176.00	
Shut In Tool	5.00			3181.00	
Hydraulic tool	5.00			3186.00	
Packer	5.00			3191.00	21.00 Bottom Of Top Packer
Packer	5.00			3196.00	
Stubb	1.00			3197.00	
Perforations	2.00			3199.00	
Recorder	0.01	6753	Inside	3199.01	
Blank Spacing	33.00			3232.01	
Recorder	0.01	13534	Outside	3232.02	
Perforations	15.00			3247.02	
Bullnose	3.00			3250.02	54.02 Bottom Packers & Anchor

**Total Tool Length: 75.02**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Pan John Unit #1-11**

250 N Water Ste 300  
Wichita KS 67202

**11 20S 13W Barton KS**

Job Ticket: 26226

**DST#: 1**

ATTN: David Doyel

Test Start: 2006.09.12 @ 16:05:59

### 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:

18000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.71 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	WM 40%W 60%M w/show of Oil	0.148
0.00	60' GIP	0.000

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .33 @ 76F

Serial #: 6753

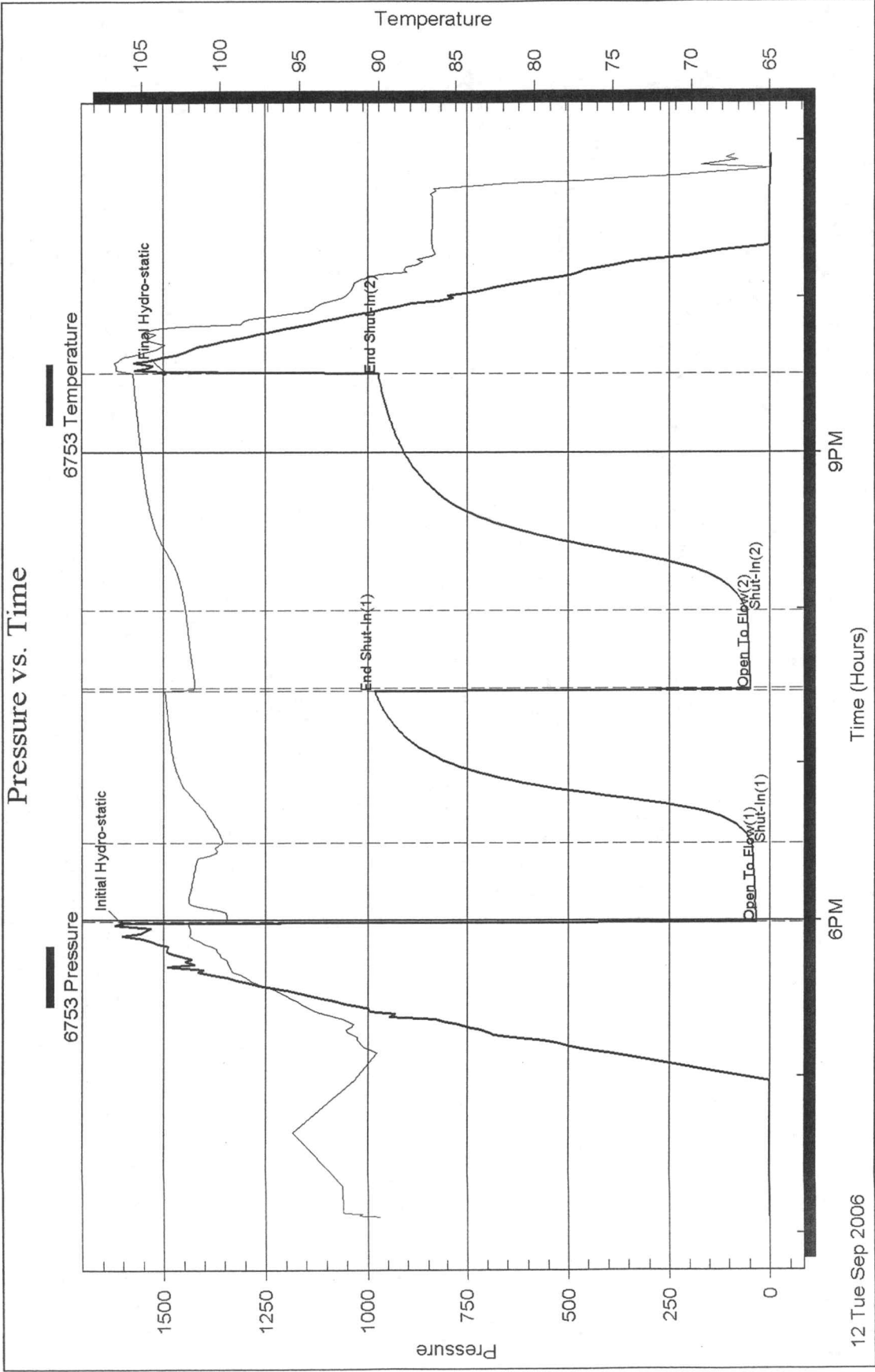
Inside

Murfin Drilling Co Inc

11 20S 13W Barton KS

DST Test Number: 1

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyel

**11 20S 13W Barton KS**

**Pan John Unit #1-11**

Start Date: 2006.09.13 @ 05:49:26

End Date: 2006.09.13 @ 13:04:20

Job Ticket #: 26227                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Co Inc

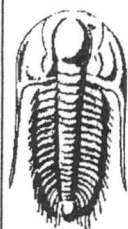
Pan John Unit #1-11

11 20S 13W Barton KS

DST # 2

LKC F-G

2006.09.13



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyel

**Pan John Unit #1-11**

**11 20S 13W Barton KS**

Job Ticket: 26227

**DST#: 2**

Test Start: 2006.09.13 @ 05:49:26

## GENERAL INFORMATION:

Formation: **LKC F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:35:21

Time Test Ended: 13:04:20

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3245.00 ft (KB) To 3286.00 ft (KB) (TVD)**

Total Depth: 3286.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 1842.00 ft (KB)

1837.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6753** Inside

Press@RunDepth: 62.98 psig @ 3253.01 ft (KB)

Start Date: 2006.09.13

End Date: 2006.09.13

Start Time: 05:49:26

End Time: 13:04:20

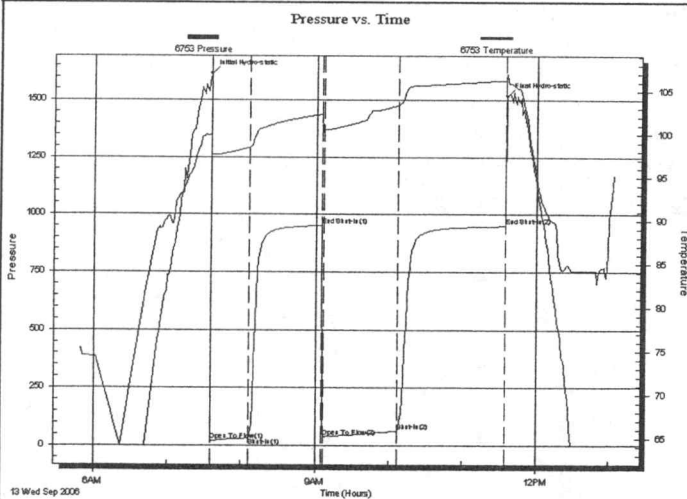
Capacity: 7000.00 psig

Last Calib.: 2006.09.13

Time On Btm: 2006.09.13 @ 07:34:51

Time Off Btm: 2006.09.13 @ 11:35:20

**TEST COMMENT:** IFP Wk bl thru-out 1/4 " to 1 " bl  
FFP No bl 1st 10 min then w k surface bl thru-out  
Times 30 60 60 90  
No bl on shut-in



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.41	100.07	Initial Hydro-static
1	19.86	97.74	Open To Flow (1)
31	32.42	98.53	Shut-In(1)
91	951.12	102.38	End Shut-In(1)
92	39.30	100.56	Open To Flow (2)
152	62.98	103.40	Shut-In(2)
240	949.15	106.32	End Shut-In(2)
241	1517.41	107.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW .32 @ 86F	0.32

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc

**Pan John Unit #1-11**

250 N Water Ste 300  
Wichita KS 67202

**11 20S 13W Barton KS**

Job Ticket: 26227

**DST#: 2**

ATTN: David Doyel

Test Start: 2006.09.13 @ 05:49:26

### Tool Information

Drill Pipe:	Length: 3083.00 ft	Diameter: 3.80 inches	Volume: 43.25 bbl	Tool Weight: 2200.00 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: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 43.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3245.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.02 ft			
Tool Length:	62.02 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			3225.00	
Shut In Tool	5.00			3230.00	
Hydraulic tool	5.00			3235.00	
Packer	5.00			3240.00	21.00 Bottom Of Top Packer
Packer	5.00			3245.00	
Stubb	1.00			3246.00	
Perforations	7.00			3253.00	
Recorder	0.01	6753	Inside	3253.01	
Perforations	30.00			3283.01	
Recorder	0.01	13534	Outside	3283.02	
Bullnose	3.00			3286.02	41.02 Bottom Packers & Anchor

**Total Tool Length: 62.02**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Pan John Unit #1-11**

250 N Water Ste 300  
Wichita KS 67202

**11 20S 13W Barton KS**

Job Ticket: 26227

**DST#: 2**

ATTN: David Doyel

Test Start: 2006.09.13 @ 05:49:26

**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:

17000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.68 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
65.00	MW .32 @ 86F	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

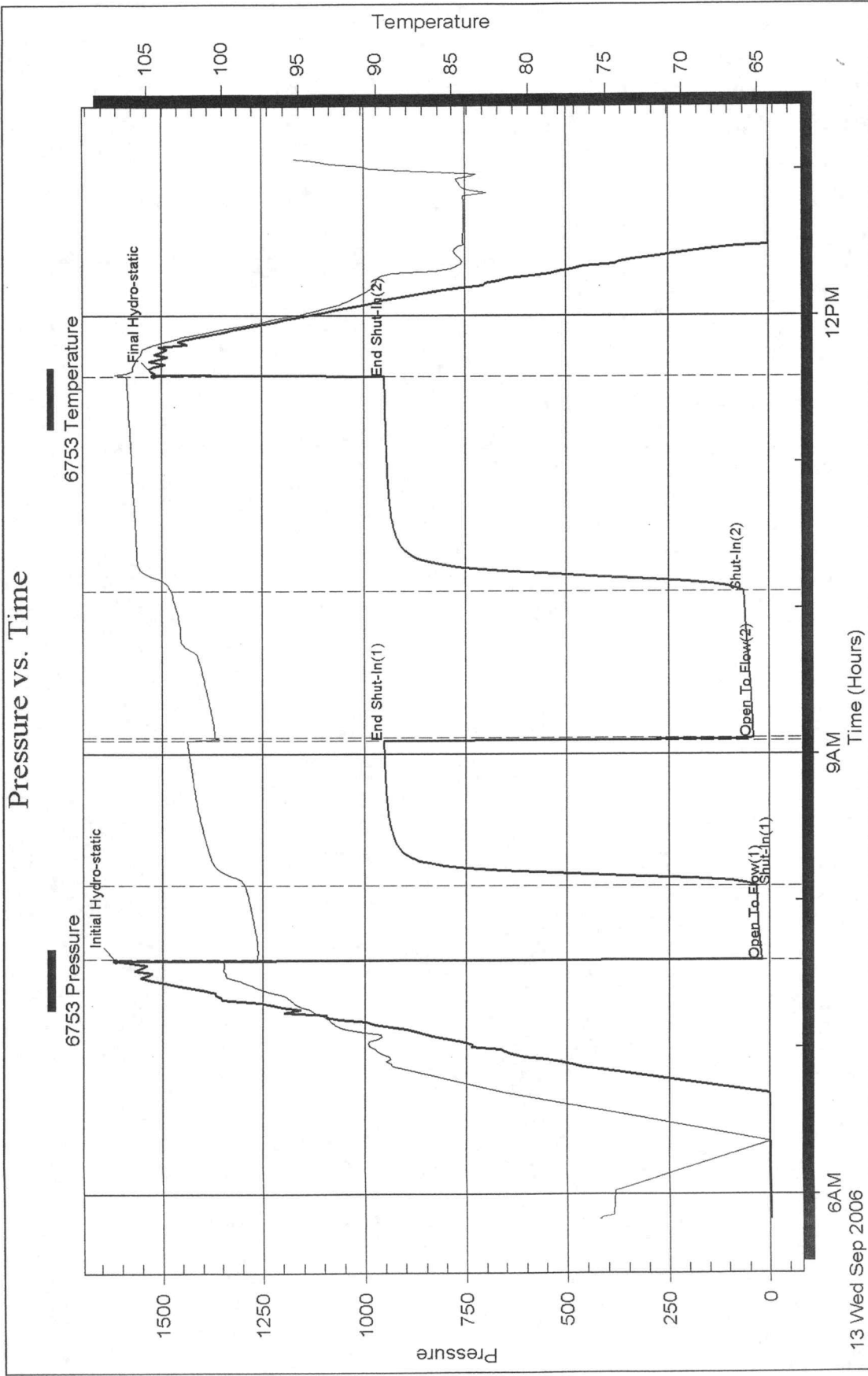
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyel

**11 20S 13W Barton KS**

**Pan John Unit #1-11**

Start Date: 2006.09.14 @ 01:33:25

End Date: 2006.09.14 @ 09:20:19

Job Ticket #: 26228                      DST #: 3

Trilobite Testing, Inc

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

Murfin Drilling Co Inc

Pan John Unit #1-11

11 20S 13W Barton KS

DST # 3

LKC H-L

2006.09.14



**TRILOBITE  
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# DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyel

**Pan John Unit #1-11**

**11 20S 13W Barton KS**

Job Ticket: 26228

**DST#: 3**

Test Start: 2006.09.14 @ 01:33:25

## GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:18:50

Time Test Ended: 09:20:19

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3308.00 ft (KB) To 3417.00 ft (KB) (TVD)**

Total Depth: 3417.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1842.00 ft (KB)

1837.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6753**

**Inside**

Press@RunDepth: 112.64 psig @ 3310.01 ft (KB)

Start Date: 2006.09.14

End Date:

2006.09.14

Start Time: 01:33:25

End Time:

09:20:19

Capacity: 7000.00 psig

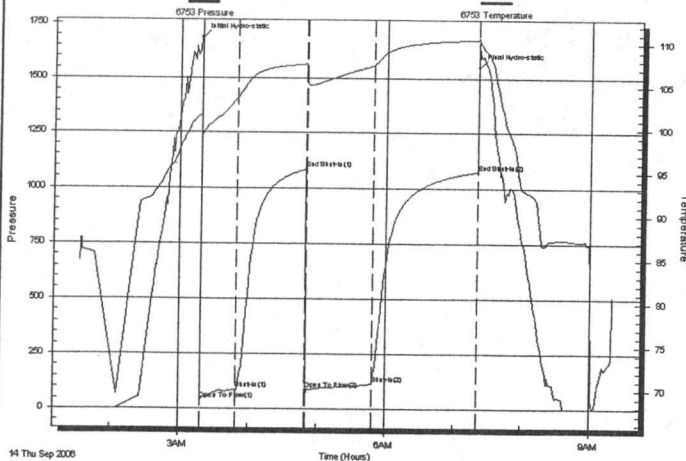
Last Calib.: 2006.09.14

Time On Btm: 2006.09.14 @ 03:18:20

Time Off Btm: 2006.09.14 @ 07:21:19

TEST COMMENT: IFP Wk to strg in 24 min  
FFP Wk to strg in 7 min  
Times 30 60 60 90  
No bl on shut-in

Pressure vs. Time



## PRESSURE SUMMARY

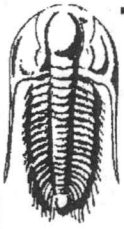
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.68	101.75	Initial Hydro-static
1	38.31	99.35	Open To Flow (1)
31	86.03	103.70	Shut-In(1)
91	1083.64	107.67	End Shut-In(1)
92	86.78	105.62	Open To Flow (2)
150	112.64	107.47	Shut-In(2)
243	1073.76	110.52	End Shut-In(2)
243	1551.35	110.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	O&GCMW 5%G 5%O 10%M 80%W	0.30
60.00	VGMO 60%G 33%O 7%M	0.30
80.00	GMO 10%G 50%O 40%M	0.85
0.00	390' GIP	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

**Pan John Unit #1-11**

250 N Water Ste 300  
Wichita KS 67202

**11 20S 13W Barton KS**

Job Ticket: 26228

**DST#: 3**

ATTN: David Doyel

Test Start: 2006.09.14 @ 01:33:25

**Tool Information**

Drill Pipe:	Length: 3147.00 ft	Diameter: 3.80 inches	Volume: 44.14 bbl	Tool Weight: 2200.00 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: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3308.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	109.02 ft			
Tool Length:	130.02 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			3288.00	
Shut In Tool	5.00			3293.00	
Hydraulic tool	5.00			3298.00	
Packer	5.00			3303.00	21.00 Bottom Of Top Packer
Packer	5.00			3308.00	
Stubb	1.00			3309.00	
Perforations	1.00			3310.00	
Recorder	0.01	6753	Inside	3310.01	
Blank Spacing	93.00			3403.01	
Recorder	0.01	13534	Outside	3403.02	
Perforations	11.00			3414.02	
Bullnose	3.00			3417.02	109.02 Bottom Packers & Anchor

**Total Tool Length: 130.02**



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## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Pan John Unit #1-11**

250 N Water Ste 300  
Wichita KS 67202

**11 20S 13W Barton KS**

Job Ticket: 26228

**DST#: 3**

ATTN: David Doyel

Test Start: 2006.09.14 @ 01:33:25

### 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: 26000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.54 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	O&GCMW 5%G 5%O 10%M 80%W	0.295
60.00	VGMO 60%G 33%O 7%M	0.295
80.00	GMO 10%G 50%O 40%M	0.849
0.00	390' GIP	0.000

Total Length: 200.00 ft      Total Volume: 1.439 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .28 @ 67F

Serial #: 6753

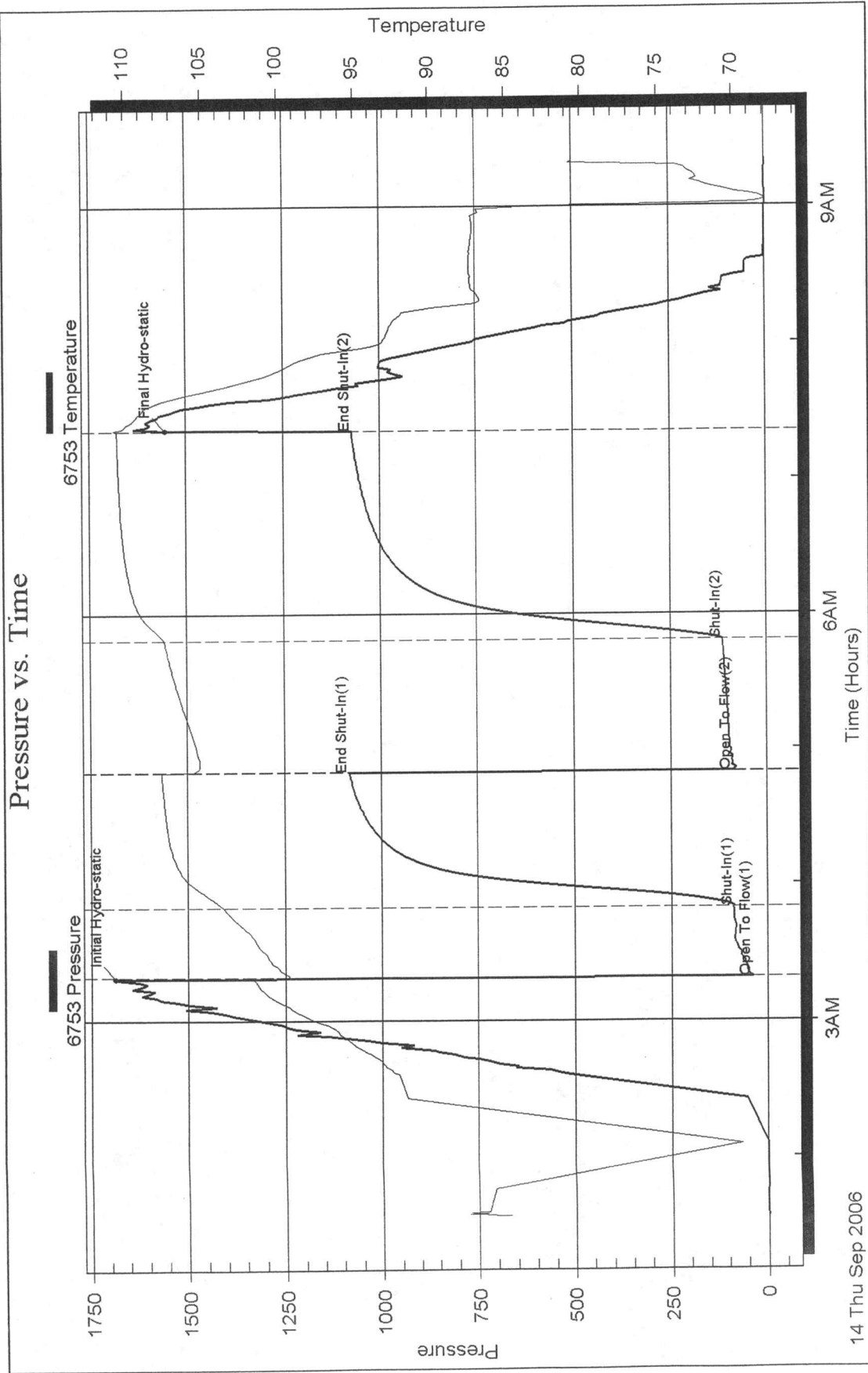
Inside

Murfin Drilling Co Inc

11 20S 13W Barton KS

DST Test Number: 3

### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: David Doyel

**11 20S 13W Barton KS**

**Pan John Unit #1-11**

Start Date: 2006.09.14 @ 16:02:07

End Date: 2006.09.14 @ 22:51:31

Job Ticket #: 26229                      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 Co Inc  
250 N Water Ste 300  
Wichita KS 67202  
ATTN: David Doyel

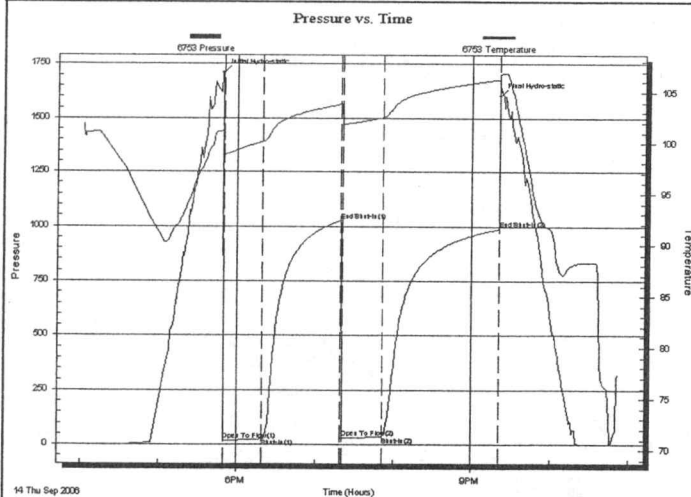
**Pan John Unit #1-11**  
**11 20S 13W Barton KS**  
Job Ticket: 26229      **DST#: 4**  
Test Start: 2006.09.14 @ 16:02:07

### GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 17:49:32  
Time Test Ended: 22:51:31  
Test Type: Conventional Bottom Hole  
Tester: Ray Schwager  
Unit No: 28  
Interval: **3403.00 ft (KB) To 3445.00 ft (KB) (TVD)**  
Reference Elevations: 1842.00 ft (KB)  
Total Depth: 3445.00 ft (KB) (TVD)                      1837.00 ft (CF)  
Hole Diameter: 7.85 inches Hole Condition: Fair                      KB to GR/CF: 5.00 ft

**Serial #: 6753      Inside**  
Press@RunDepth: 36.71 psig @ 3410.01 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2006.09.14      End Date: 2006.09.14      Last Calib.: 2006.09.14  
Start Time: 16:02:07      End Time: 22:51:31      Time On Btm: 2006.09.14 @ 17:49:02  
Time Off Btm: 2006.09.14 @ 21:21:01

TEST COMMENT: IFP Wk bl thru-out surface to 1/4 " bl  
FFP No bl  
Times 30 60 30 90  
No bl on shut-in



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1708.11	101.29	Initial Hydro-static
1	19.73	98.66	Open To Flow (1)
31	25.49	100.17	Shut-In(1)
90	1026.26	103.87	End Shut-In(1)
91	31.35	101.93	Open To Flow (2)
122	36.71	102.54	Shut-In(2)
212	987.40	106.28	End Shut-In(2)
212	1601.74	106.76	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.02
15.00	OCM 10%O 90%M	0.07

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

**Pan John Unit #1-11**

250 N Water Ste 300  
Wichita KS 67202

**11 20S 13W Barton KS**

Job Ticket: 26229

**DST#: 4**

ATTN: David Doyel

Test Start: 2006.09.14 @ 16:02:07

### Tool Information

Drill Pipe:	Length: 3239.00 ft	Diameter: 3.80 inches	Volume: 45.43 bbl	Tool Weight: 2200.00 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: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 50000.00 lb
		<u>Total Volume: 46.17 bbl</u>		Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3403.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.02 ft			
Tool Length:	63.02 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			3383.00	
Shut In Tool	5.00			3388.00	
Hydraulic tool	5.00			3393.00	
Packer	5.00			3398.00	21.00 Bottom Of Top Packer
Packer	5.00			3403.00	
Stubb	1.00			3404.00	
Perforations	6.00			3410.00	
Recorder	0.01	6753	Inside	3410.01	
Blank Spacing	32.00			3442.01	
Recorder	0.01	13534	Outside	3442.02	
Bullnose	3.00			3445.02	42.02 Bottom Packers & Anchor

**Total Tool Length: 63.02**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Pan John Unit #1-11**

250 N Water Ste 300  
Wichita KS 67202

**11 20S 13W Barton KS**

Job Ticket: 26229

**DST#: 4**

ATTN: David Doyel

Test Start: 2006.09.14 @ 16:02:07

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 11.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
5.00	CO	0.025
15.00	OCM 10%O 90%M	0.074

Total Length: 20.00 ft

Total Volume: 0.099 bbf

Num Fluid Samples: 0

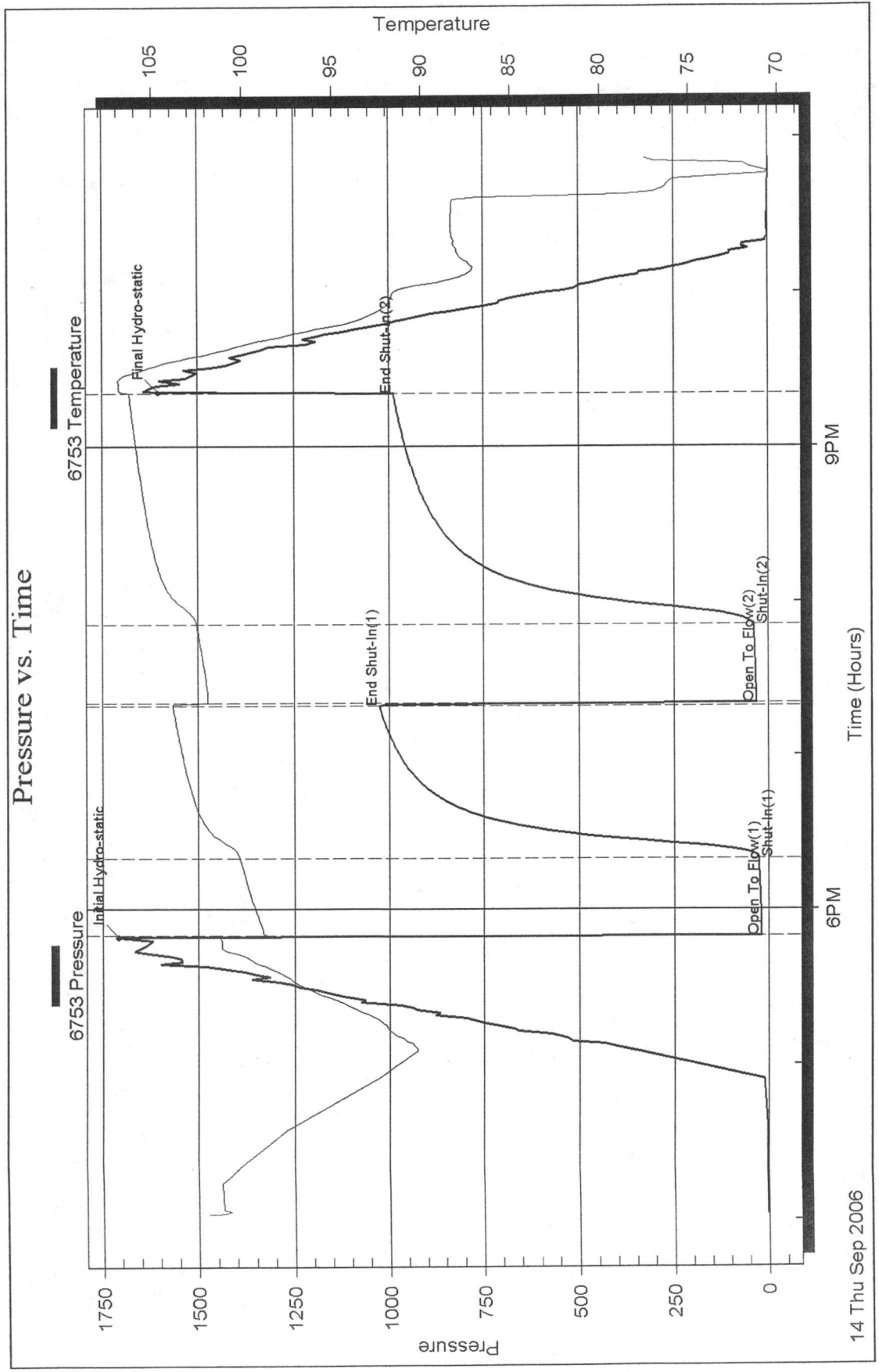
Num Gas Bombs: 0

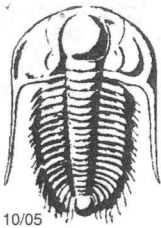
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26226

9254

## Test Ticket

Well Name & No. Pan John Unit #1-11 Test No. 1 Date 9-12-06  
 Company Murfin Drilling Co, Inc Zone Tested KC AD  
 Address 250 N. WATER, suite 300 WICHITA, Ks 67202 Elevation 1842 KB 1837 GL  
 Co. Rep / Geo. Rocky Milford Rig Murfin 8  
 Location: Sec. 11 Twp. 20<sup>s</sup> Rge. 13<sup>w</sup> Co. BARTON State Ko  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3196 - 3250 Initial Str Wt./Lbs. 35000 Unseated Str Wt./Lbs. 35000  
 Anchor Length 54 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 55000  
 Top Packer Depth 3191 Tool Weight 2200  
 Bottom Packer Depth 3196 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3250 Wt. Pipe Run - Drill Collar Run 150  
 Mud Wt. 9 LCM - Vis. 48 WL 8.8 Drill Pipe Size 4 1/2 X H Ft. Run 3041  
 Blow Description IFF - WEAK BLOW THRU-OUT 1/4" BLOW  
FFP - NO BLOW

Recovery - Total Feet 30 GIP 60 Ft. in DC 30 Ft. in DP -  
 Rec. 30 Feet of WM %gas %oil 40 %water 60 %mud  
 Rec. \_\_\_\_\_ Feet of w/show/oil %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 .33 @ 76 °F Chlorides 18600 ppm Recovery \_\_\_\_\_ Chlorides 6000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1536	PSI	6753	1100
(B) First Initial Flow Pressure	32	PSI	3199	Jars
(C) First Final Flow Pressure	44	PSI	13534	Safety Jt.
(D) Initial Shut-In Pressure	983	PSI	3232	Circ Sub
(E) Second Initial Flow Pressure	47	PSI	-	Sampler
(F) Second Final Flow Pressure	57	PSI	-	Straddle
(G) Final Shut-In Pressure	973	PSI	Initial Opening 30	Ext. Packer
(Q) Final Hydrostatic Mud	1520	PSI	Initial Shut-In 60	Shale Packer
			Final Flow 30	Ruined Packer
			Final Shut-In 90	Mileage <u>136 RT 170</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.

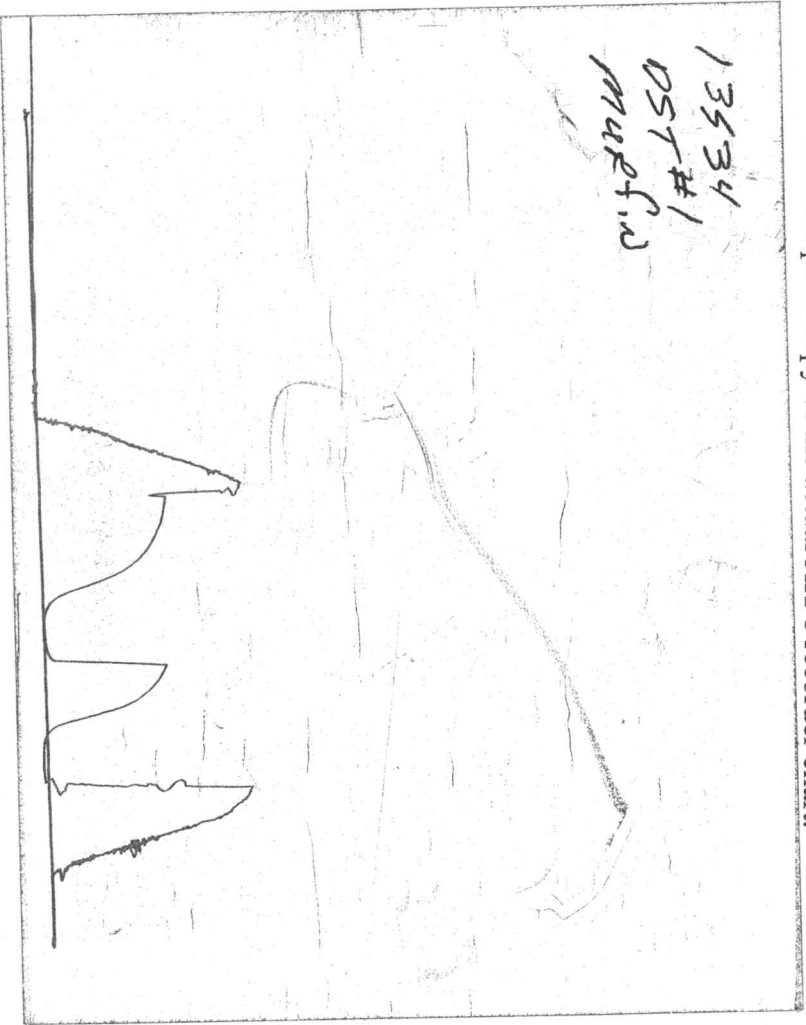
Approved By Rocky Milford  
 Our Representative RAY SCHWAGER Thank you

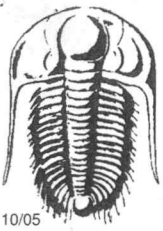
T-On Location	T-Started	T-Open	T-Pulled	T-Out
1530	1604	1800	2130	2254

Std. By B 1270  
 Acc. Chg: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Total: \_\_\_\_\_

**CHART PAGE**

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





# TRILOBITE TESTING INC.

26227

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Pan John UNIT # 1-11 Test No. 2 Date 9-13-06  
 Company MURFIN DRILLING Co Inc Zone Tested LKC F-6  
 Address 250 N. WATER, SUITE 300 WICHITA, Ks 67202 Elevation 1842 KB 1837 GL  
 Co. Rep / Geo. Rocky Milford Rig Murfin 8  
 Location: Sec. 11 Twp. 20<sup>s</sup> Rge. 13<sup>w</sup> Co. BARTON State Ko  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3245-3286 Initial Str Wt./Lbs. 34000 Unseated Str Wt./Lbs. 34000  
 Anchor Length 41 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000  
 Top Packer Depth 3240 Tool Weight 2200  
 Bottom Packer Depth 3245 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3286 Wt. Pipe Run - Drill Collar Run 150  
 Mud Wt. 9 LCM - Vis. 48 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3083  
 Blow Description IFP - WEAK BLOW THRU-OUT 1/4" TO 1" BLOW  
FFP - NO BLOW 1<sup>ST</sup> 10 min, THEN WEAK SURFACE BLOW THRU-OUT  
NO BLOW ON SHUT-IN

Recovery - Total Feet 65 GIP - Ft. in DC 65 Ft. in DP -  
 Rec. 65 Feet of MUD %gas \_\_\_\_\_ %oil 60 %water 40 %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of w/oil spots %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 .32 @ 86 °F Chlorides 17000 ppm Recovery \_\_\_\_\_ Chlorides 6000 ppm System

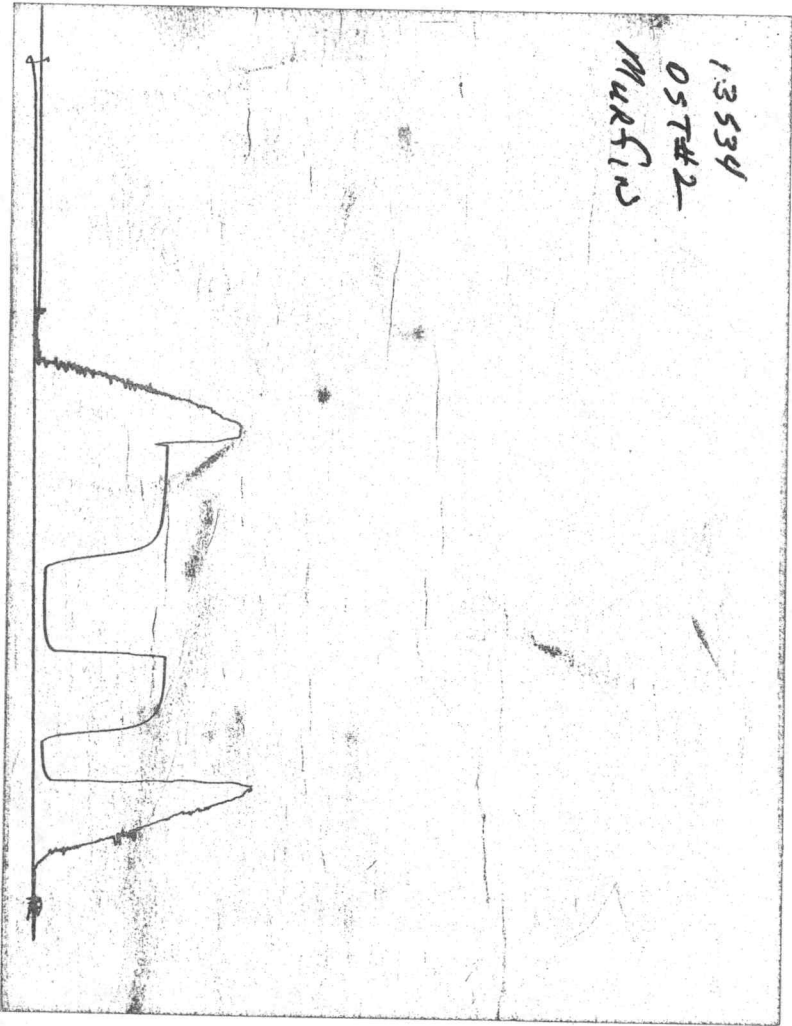
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1538	PSI	6753	✓ 1100
(B) First Initial Flow Pressure	20	PSI	(depth) 3253	Jars _____
(C) First Final Flow Pressure	32	PSI	Recorder No. 13534	Safety Jt. _____
(D) Initial Shut-In Pressure	951	PSI	(depth) 3283	Circ Sub _____
(E) Second Initial Flow Pressure	39	PSI	Recorder No. -	Sampler _____
(F) Second Final Flow Pressure	63	PSI	(depth) -	Straddle _____
(G) Final Shut-In Pressure	949	PSI	Initial Opening 30	Ext. Packer _____
(Q) Final Hydrostatic Mud	1516	PSI	Initial Shut-In 60	Shale Packer _____

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Approved By Robert Milford T-Started 0549 Std. By 41270  
 Our Representative Ray Schwager T-Open 0735 Acc. Chg: 41270  
THANK T-Pulled 1135 Other: \_\_\_\_\_  
909 T-Out 1304 Total: \_\_\_\_\_

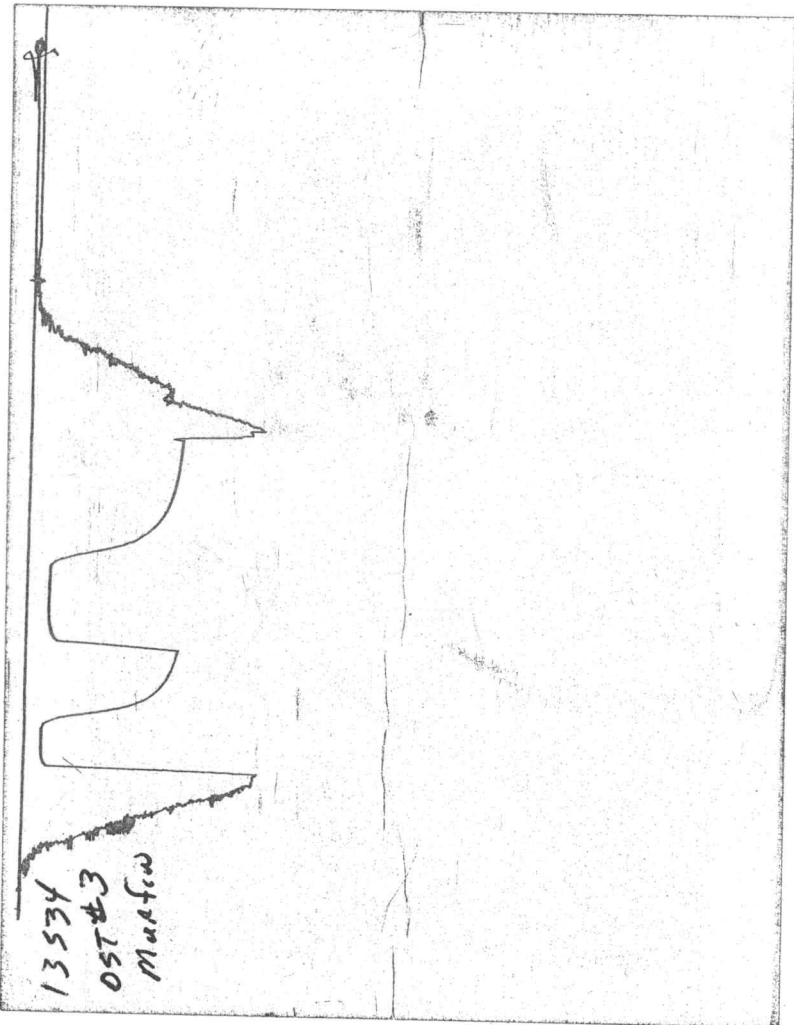
**CHART PAGE**

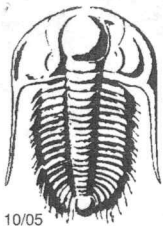
This is a photocopy of the actual AK-1 recorder chart.



**CHART PAGE**

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





# TRILOBITE TESTING INC.

26228

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Pan John Unit #1-11 Test No. 3 Date 9-14-06  
 Company MURFIN DRILLING Co Inc Zone Tested LKC H-L  
 Address 250 N. WATER, suite 300 WICHITA, Ks 67202 Elevation 1842 KB 1837 GL  
 Co. Rep / Geo. Rocky Milford Rig MURFIN 8  
 Location: Sec. 11 Twp. 20<sup>s</sup> Rge. 13<sup>w</sup> Co. BARTON State Ko  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3308-3417 Initial Str Wt./Lbs. 34000 Unseated Str Wt./Lbs. 34000  
 Anchor Length 109 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000  
 Top Packer Depth 3303 Tool Weight 2200  
 Bottom Packer Depth 3308 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3417 Wt. Pipe Run - Drill Collar Run 150  
 Mud Wt. 9.1 LCM - Vis. 49 WL 9.6 Drill Pipe Size 4 1/2 XH Ft. Run 3147  
 Blow Description IFP - WEAK TO STRONG IN 24 MIN  
FFP - WEAK TO STRONG IN 7 MIN  
NO BLOW ON SHUT-IN

Recovery - Total Feet 200 GIP 390 Ft. in DC 150 Ft. in DP 50  
 Rec. 80 Feet of GMO 10 %gas 50 %oil %water 40 %mud  
 Rec. 60 Feet of VGMO 60 %gas 33 %oil %water 7 %mud  
 Rec. 60 Feet of O+6CMW 5 %gas 5 %oil 80 %water 10 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 110 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .28 @ 67 °F Chlorides 26000 ppm Recovery \_\_\_\_\_ Chlorides 8000 ppm System

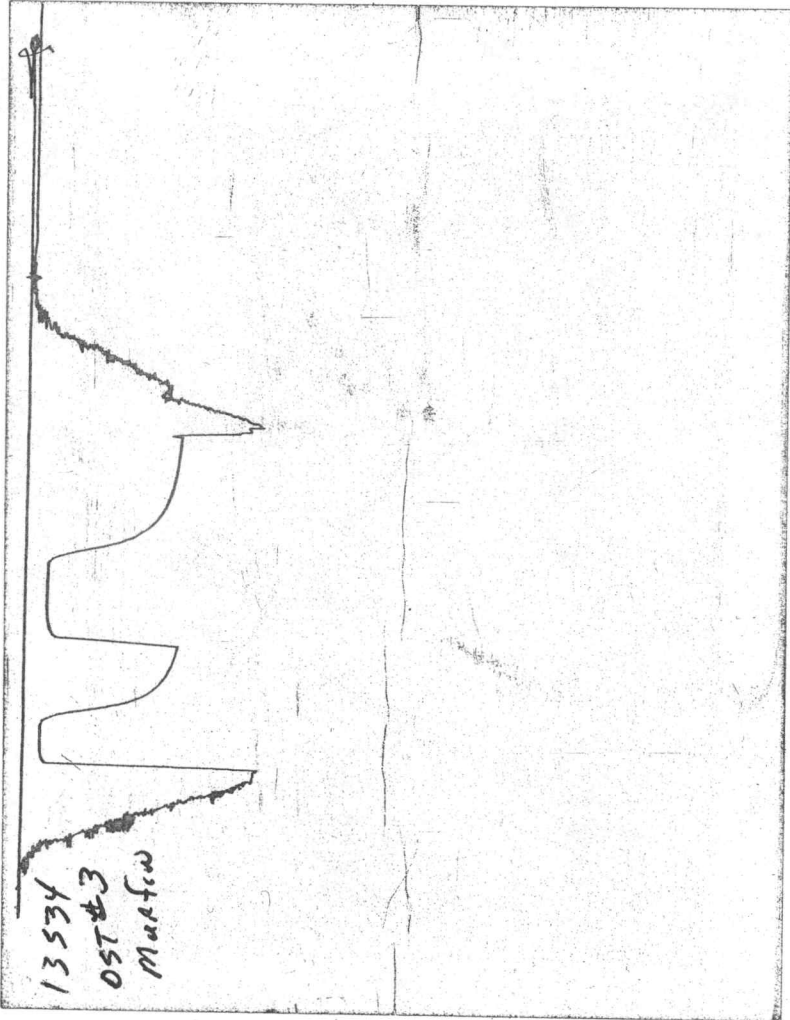
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1599	PSI	6753	✓ 1100
(B) First Initial Flow Pressure	38	PSI	(depth) 3310	Jars _____
(C) First Final Flow Pressure	86	PSI	Recorder No. 13534	Safety Jt. _____
(D) Initial Shut-In Pressure	1083	PSI	(depth) 3403	Circ Sub _____
(E) Second Initial Flow Pressure	86	PSI	Recorder No. -	Sampler _____
(F) Second Final Flow Pressure	112	PSI	(depth) -	Straddle _____
(G) Final Shut-In Pressure	1073	PSI	Initial Opening 30	Ext. Packer _____
(Q) Final Hydrostatic Mud	1591	PSI	Initial Shut-In 60	Shale Packer _____
			Final Flow 60	Ruined Packer _____
			Final Shut-In 90	Mileage ✓ 12 RT 170
			T-On Location 0100	Sub Total: 1/4 25
			T-Started 0138	Std. By _____
			T-Open 0320	Acc. Chg: 1295
			T-Pulled 0720	Other: _____
			T-Out 0920	Total: _____

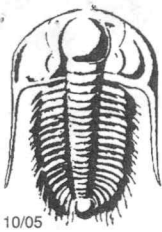
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By Ray Schwager  
 Our Representative RAY SCHWAGER THANK YOU

**CHART PAGE**

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





# TRILOBITE TESTING INC.

26229

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Pan John Unit #1-11 Test No. 4 Date 9-14-06  
 Company Murfin Drilling Co Inc Zone Tested Arbuckle  
 Address 250 N WATER. suite 300 WICHITA, K0 67202 Elevation 1842 KB 1837 GL  
 Co. Rep / Geo. Rocky Milford Rig Murfin 8  
 Location: Sec. 11 Twp. 20<sup>s</sup> Rge. 13<sup>w</sup> Co. BARTON State K0  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3403-3445 Initial Str Wt./Lbs. 34000 Unseated Str Wt/Lbs. 34000  
 Anchor Length 42 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000  
 Top Packer Depth 3398 Tool Weight 2200  
 Bottom Packer Depth 3403 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3445 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 150  
 Mud Wt. 9 LCM - Vis. 50 WL 11.2 Drill Pipe Size 4 1/2 x H Ft. Run 3239  
 Blow Description IFP - WPAK Blow thru-out, surface to 1/4" Blow  
FFP - NO Blow  
NO Blow on shut-in

Recovery - Total Feet 20 GIP - Ft. in DC 20 Ft. in DP -  
 Rec. 5 Feet of CO %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 15 Feet of OCM %gas 10 %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud 90  
 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 38 °API D @ 60 °F Corrected Gravity 38 °API  
 RW - @ - °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 8500 ppm System

	AK-1	Alpine	Recorder No.	Pressure	Recorder No.	Pressure
(A) Initial Hydrostatic Mud		1621	6753	PSI	1100	PSI
(B) First Initial Flow Pressure		19	3410	PSI (depth)		PSI
(C) First Final Flow Pressure		25	13534	PSI (depth)		PSI
(D) Initial Shut-In Pressure		1026	3442	PSI (depth)		PSI
(E) Second Initial Flow Pressure		31	-	PSI (depth)		PSI
(F) Second Final Flow Pressure		36	-	PSI (depth)		PSI
(G) Final Shut-In Pressure		987	30	PSI Initial Opening		PSI
(Q) Final Hydrostatic Mud		1600	60	PSI Initial Shut-In		PSI

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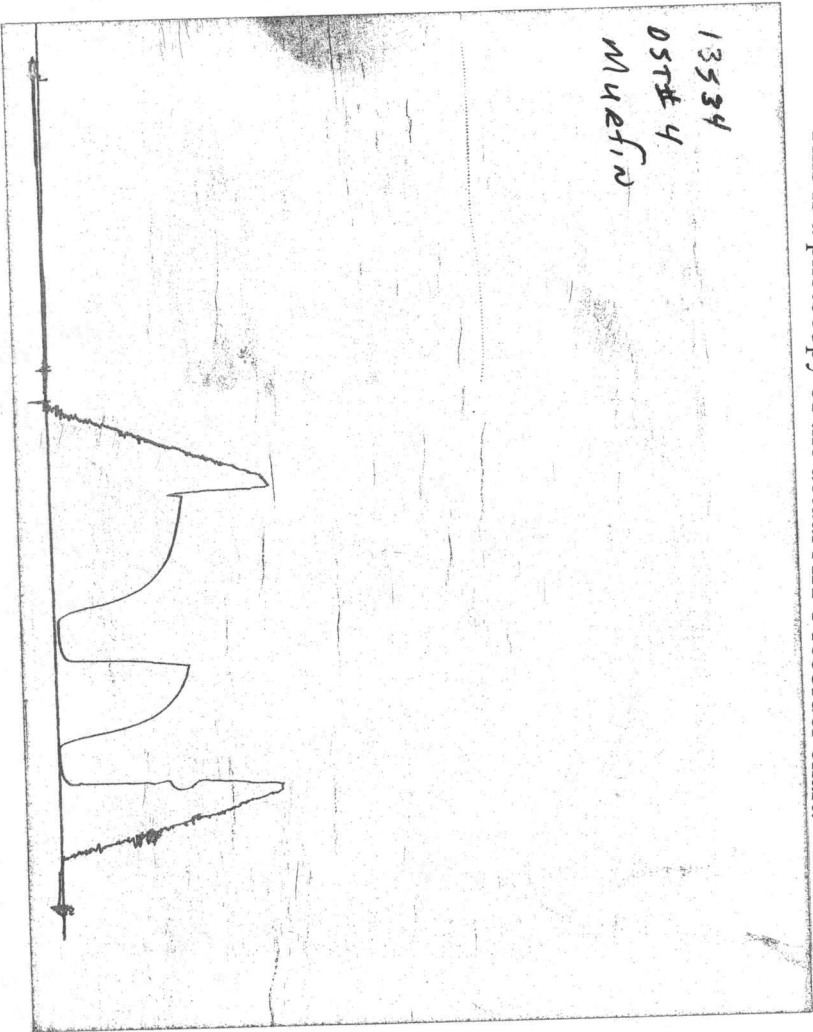
Approved By Robert Milford

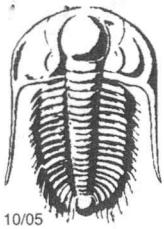
Our Representative Ray Schwager Thank you

Final Flow 30 Ruined Packer \_\_\_\_\_  
 Final Shut-In 90 Mileage 12 RT 170  
 T-On Location 1545 Sub Total: \_\_\_\_\_  
 T-Started 1602 Std. By 81270  
 T-Open 1745 Acc. Chg: \_\_\_\_\_  
 T-Pulled 2115 Other: \_\_\_\_\_  
 T-Out 2251 Total: \_\_\_\_\_

**CHART PAGE**

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





# TRILOBITE TESTING INC.

26230

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Pan John UNIT #1-11 Test No. 5 Date 9-15-06  
 Company MURFIN DRILLING Co INC Zone Tested Arbuckle  
 Address 250 N. WATER, SUITE 300 WICH, TA, K 67202 Elevation 1842 KB 1837 GL  
 Co. Rep / Geo. Rocky M. Lford Rig MURFIN B  
 Location: Sec. 11 Twp. 20<sup>s</sup> Rge. 13<sup>w</sup> Co. BARTON State K  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3445-3455 Initial Str Wt./Lbs. 34000 Unseated Str Wt/Lbs. 34000  
 Anchor Length 10 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000  
 Top Packer Depth 3440 Tool Weight 2200  
 Bottom Packer Depth 3445 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3455 Wt. Pipe Run - Drill Collar Run 150  
 Mud Wt. 9.2 LCM - Vis. 53 WL 11.2 Drill Pipe Size 4 1/2 XH Ft. Run 3302  
 Blow Description IFP - WEAK BLOW THRU-OUT, SURFACE TO 1/4" BLOW  
FFP - NO BLOW 1<sup>st</sup> 8 MIN, THEN WEAK SURFACE BLOW THRU-OUT  
NO BLOW ON SHUT-IN

Recovery - Total Feet 125 GIP - Ft. in DC 125 Ft. in DP -  
 Rec. 115 Feet of CO %gas %oil %water %mud  
 Rec. 10 Feet of HO + 6 CM 6 %gas 35 %oil %water 89 %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 38 °API D @ 60 °F Corrected Gravity 38 °API  
 RW - @ - °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 8500 ppm System

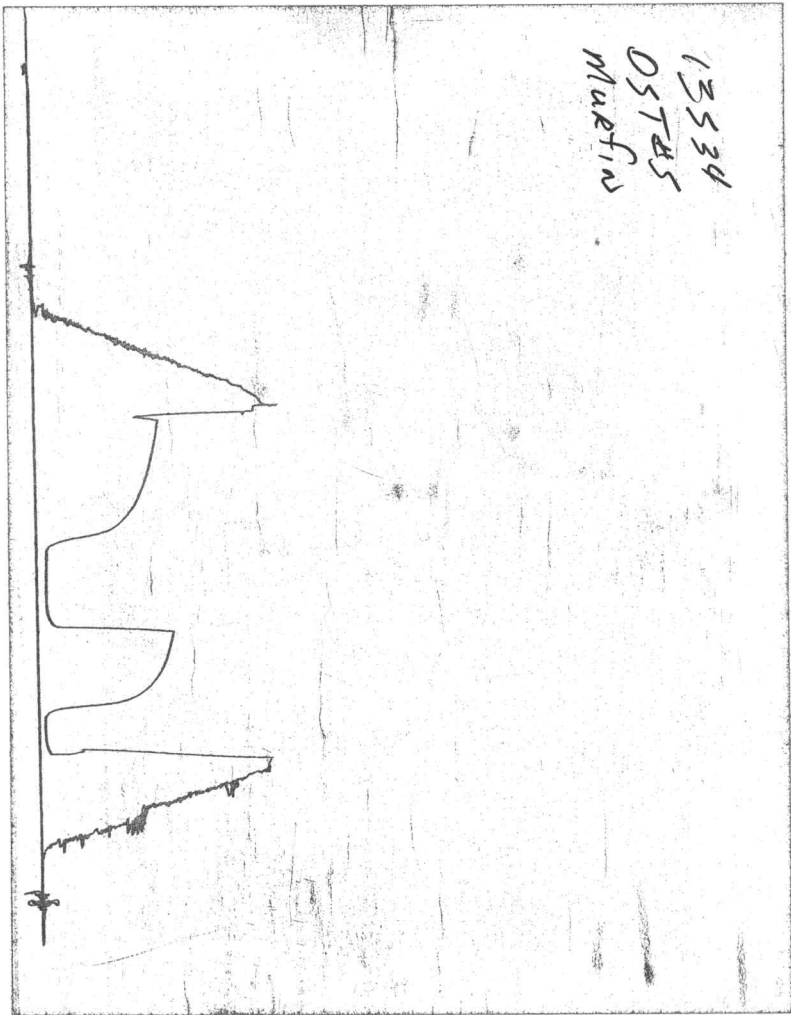
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1658	PSI	6753	1100
(B) First Initial Flow Pressure	16	PSI	(depth) 3447	Jars
(C) First Final Flow Pressure	35	PSI	Recorder No. 13534	Safety Jt.
(D) Initial Shut-In Pressure	999	PSI	(depth) 3452	Circ Sub
(E) Second Initial Flow Pressure	41	PSI	Recorder No. -	Sampler
(F) Second Final Flow Pressure	71	PSI	(depth) -	Straddle
(G) Final Shut-In Pressure	905	PSI	Initial Opening 30	Ext. Packer
(Q) Final Hydrostatic Mud	1641	PSI	Initial Shut-In 60	Shale Packer
			Final Flow 60	Ruined Packer
			Final Shut-In 90	Mileage <u>12RT 170</u>

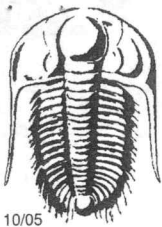
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Approved By Robert M. Lford T-Started 0408 Std. By 114 25  
 Our Representative RAY SCHWAGER Thank you T-Open 0600 Acc. Chg: \_\_\_\_\_  
 T-Pulled 1000 Other: 1295  
 T-Out 1147 Total: \_\_\_\_\_

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26231

## Test Ticket

Well Name & No. Pan John Unit #1-11 Test No. 6 Date 9-15-06  
 Company MURFIN DRILLING Co INC Zone Tested Arbuckle  
 Address 250 N. WATER, SUITE 300 WICHITA, K0 67202 Elevation 1842 KB 1837 GL  
 Co. Rep / Geo. Rocky Milford Rig Murfin 8  
 Location: Sec. 11 Twp. 20<sup>s</sup> Rge. 13<sup>w</sup> Co. BARTON State K0  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3455-3465 Initial Str Wt./Lbs. 32000 Unseated Str Wt/Lbs. 35000  
 Anchor Length 10 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 50000  
 Top Packer Depth 3450 Tool Weight 2200  
 Bottom Packer Depth 3455 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3465 Wt. Pipe Run - Drill Collar Run 150  
 Mud Wt. 9.1 LCM - Vis. 48 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3302  
 Blow Description IFP-WEAK TO A FAIR BLOW 1/4" TO 4 3/4" BLOW  
FFP- NO BLOW 1<sup>st</sup> 6 min, then weak surface BLOW thru-out  
NO BLOW ON SHUT-IN

Recovery - Total Feet 215 GIP - Ft. in DC 150 Ft. in DP 65  
 Rec. 5 Feet of CO %gas %oil %water %mud  
 Rec. 90 Feet of MW w/show of oil %gas %oil 85 %water 15 %mud  
 Rec. 120 Feet of MW %gas %oil 95 %water 5 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 114 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .24 @ 70 °F Chlorides 26000 ppm Recovery \_\_\_\_\_ Chlorides 7800 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1644	PSI	6753	1100
(B) First Initial Flow Pressure	19	PSI	(depth) 3457	Jars
(C) First Final Flow Pressure	81	PSI	Recorder No. 13534	Safety Jt.
(D) Initial Shut-In Pressure	917	PSI	(depth) 3462	Circ Sub
(E) Second Initial Flow Pressure	85	PSI	Recorder No. -	Sampler
(F) Second Final Flow Pressure	112	PSI	(depth) -	Straddle
(G) Final Shut-In Pressure	899	PSI	Initial Opening 30	Ext. Packer
(Q) Final Hydrostatic Mud	1612	PSI	Initial Shut-In 60	Shale Packer
			Final Flow 60	Ruined Packer
			Final Shut-In 90	Mileage <u>12 RT 170</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 Robert Milford

Our Representative RAY SCHWAGER Thank 404

T-On Location 1645  
 T-Started 1719  
 T-Open 1925  
 T-Pulled 2325  
 T-Out 0118  
 Std. By 1/2 hr 50  
 Acc. Chg: \_\_\_\_\_  
 Other: 11320  
 Total: \_\_\_\_\_

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

**CHART PAGE**

13534  
05T#6  
MURFIN

