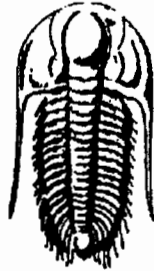


15-195-22306

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NOV 04 2005  
CONFIDENTIAL



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drig Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: David Doyle

**33-11-21-Trego-Ks**

**Lynd # 1-33**

Start Date: 2005.09.20 @ 09:25:16

End Date: 2005.09.20 @ 15:40:16

Job Ticket #: 22197                      DST #: 1

RECEIVED  
NOV 04 2005  
KCC WICHITA

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

Murfin Drig Co Inc

Lynd # 1-33

33-11-21-Trego-Ks

DST # 1

Toronto/A

L

2005.09.20

015.21.88



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Murfin Drig Co Inc  
 250 N Wtr Ste 300  
 Wichita Ks 67202  
 ATTN: David Doyle

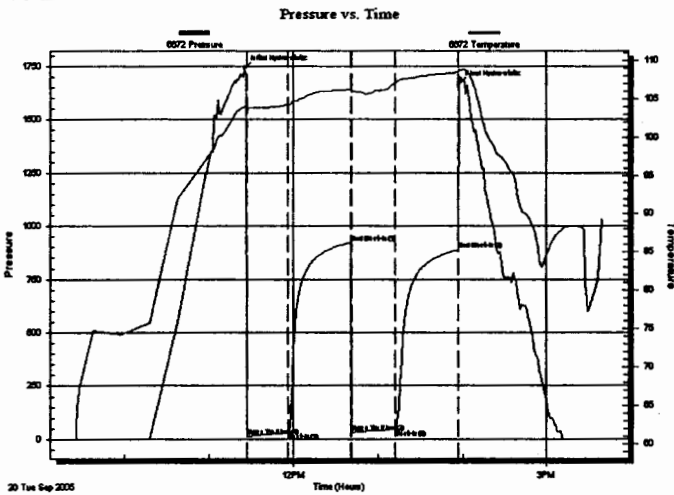
Lynd # 1-33  
 33-11-21-Trego-Ks  
 Job Ticket: 22197      DST#: 1  
 Test Start: 2005.09.20 @ 09:25:16

**GENERAL INFORMATION:**

Formation: Toronto/A L  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:27:16  
 Time Test Ended: 15:40:16  
 Interval: 3586.00 ft (KB) To 3648.00 ft (KB) (TVD)  
 Total Depth: 3648.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 21  
 Reference Elevations: 2328.00 ft (KB)  
 2323.00 ft (CF)  
 KB to GRVCF: 5.00 ft

Serial #: 6672      Inside  
 Press@RunDepth: 45.40 psig @ 3589.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2005.09.20      End Date: 2005.09.20      Last Calib.: 2005.09.20  
 Start Time: 09:25:17      End Time: 15:40:16      Time On Btm: 2005.09.20 @ 11:25:16  
 Time Off Btm: 2005.09.20 @ 13:57:16

TEST COMMENT: F-Weak building to 1/4"  
 FF-No blow  
 Times-30-45-30-45



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.57	103.99	Initial Hydro-static
2	12.30	103.28	Open To Flow (1)
31	29.88	104.24	Shut-In(1)
76	921.49	106.19	End Shut-In(1)
76	31.32	105.84	Open To Flow (2)
107	45.40	107.08	Shut-In(2)
152	887.82	108.46	End Shut-In(2)
152	1661.82	108.88	Final Hydro-static

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

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 22197

DST#: 1

ATTN: David Doyle

Test Start: 2005.09.20 @ 09:25:16

**Tool Information**

Drill Pipe:	Length: 3453.00 ft	Diameter: 3.80 inches	Volume: 48.44 bbl	Tool Weight: 2300.00 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: 40000.00 lb
			<u>Total Volume: 49.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3586.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	86.00 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			3563.00	
Shut In Tool	5.00			3568.00	
Hydraulic tool	5.00			3573.00	
Safety Joint	3.00			3576.00	
Packer	5.00			3581.00	24.00 Bottom Of Top Packer
Packer	5.00			3586.00	
Stubb	1.00			3587.00	
Perforations	1.00			3588.00	
Change Over Sub	1.00			3589.00	
Recorder	0.00	6672	Inside	3589.00	
Drill Pipe	30.00			3619.00	
Change Over Sub	1.00			3620.00	
Recorder	0.00	13254	Outside	3620.00	
Perforations	25.00			3645.00	
Bullnose	3.00			3648.00	62.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRIOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drig Co Inc

Lynd # 1-33

250 NWtr Ste 300  
Wchita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 22197

DST#: 1

ATTN: David Doyle

Test Start: 2005.09.20 @ 09:25:16

**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:

bbf

Water Loss: 7.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
65.00	DM	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:

Serial #: 6672

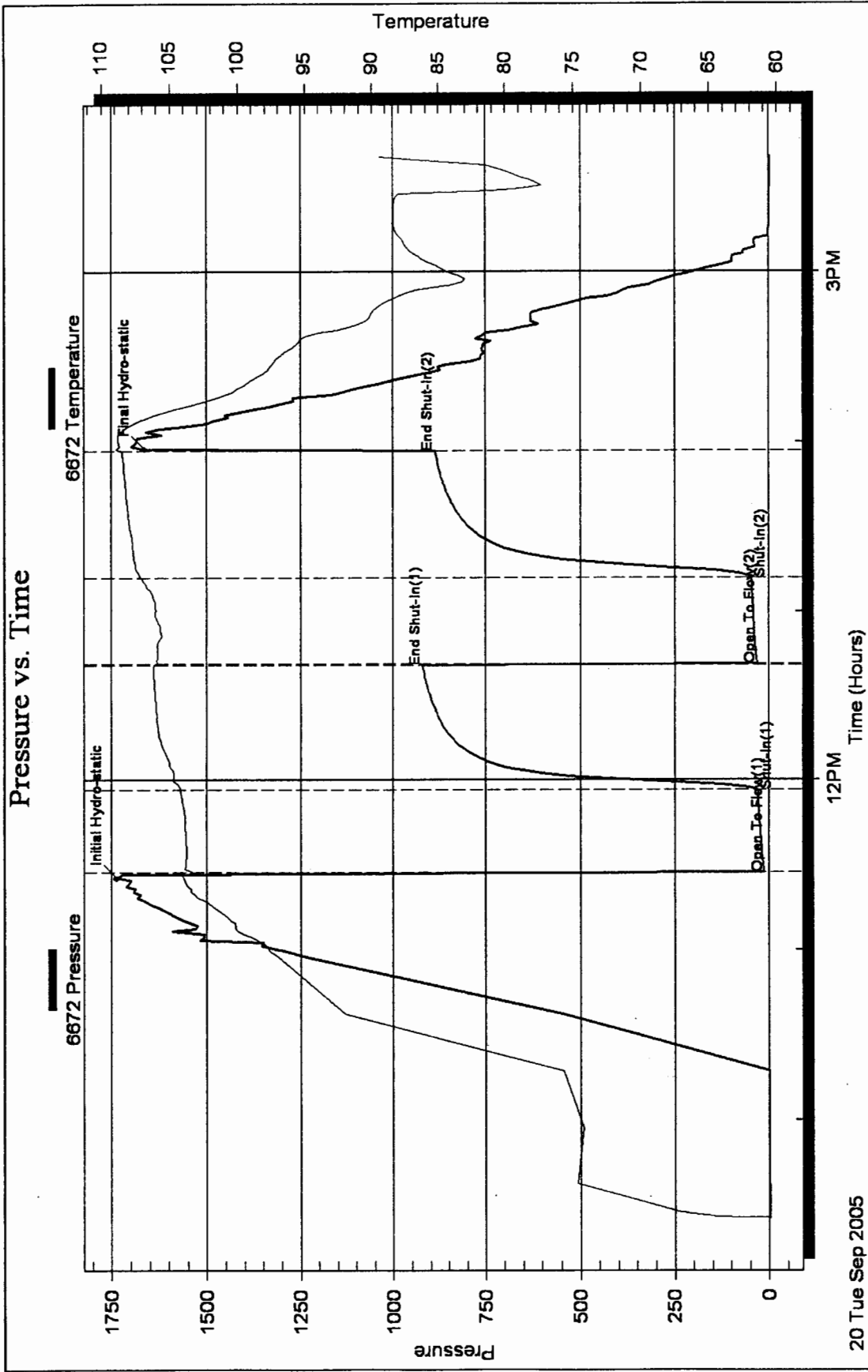
Inside

Murfin Drig Co Inc

33-11-21-Trego-Ks

DST Test Number: 1

# Pressure vs. Time



20 Tue Sep 2005



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drig Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: David Doyle

**33-11-21-Trego-Ks**

**Lynd # 1-33**

Start Date: 2005.09.21 @ 01:40:20

End Date: 2005.09.21 @ 09:06:20

Job Ticket #: 22198                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drig Co Inc

Lynd # 1-33

33-11-21-Trego-Ks

DST # 2

B-C-D-E-F

LKC

2005.09.21



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

ATTN: David Doyle

Job Ticket: 22198

DST#: 2

Test Start: 2005.09.21 @ 01:40:20

### GENERAL INFORMATION:

Formation: **B-C-D-E-F LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:40:20

Time Test Ended: 09:06:20

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3646.00 ft (KB) To 3716.00 ft (KB) (TVD)

Total Depth: 3716.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2328.00 ft (KB)

2323.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 122.95 psig @ 3649.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.09.21

End Date:

2005.09.21

Last Calib.: 2005.09.21

Start Time: 01:40:21

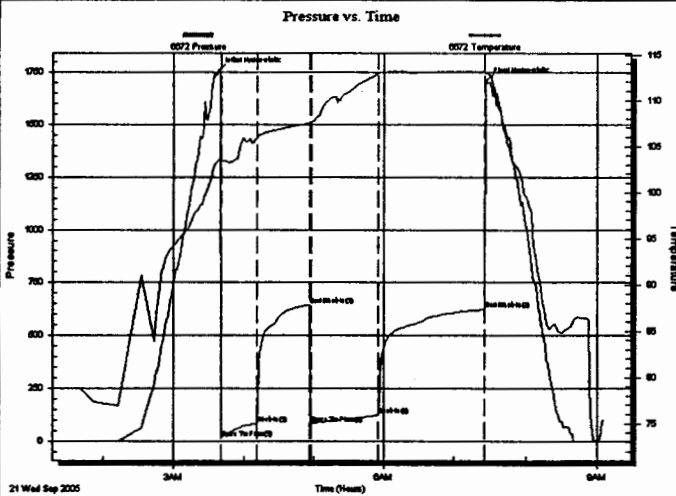
End Time:

09:06:20

Time On Btm: 2005.09.21 @ 03:38:20

Time Off Btm: 2005.09.21 @ 07:26:50

TEST COMMENT: F-Weak building to 3"  
FF-Weak building to 1 1/4"  
Times-30-45-60-90



### PRESSURE SUMMARY

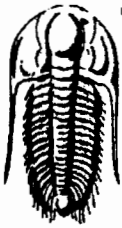
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.45	103.51	Initial Hydro-static
2	16.06	103.39	Open To Flow (1)
33	83.65	105.85	Shut-In(1)
78	644.03	107.50	End Shut-In(1)
79	83.72	107.49	Open To Flow (2)
137	122.95	112.93	Shut-In(2)
228	624.15	113.20	End Shut-In(2)
229	1708.81	113.00	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
105.00	Mdy Wtr 50% m 50% w	0.52
124.00	Wtr Rv .13 @ 76 = 78000ppm	1.57

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 22198

DST#: 2

ATTN: David Doyle

Test Start: 2005.09.21 @ 01:40:20

**Tool Information**

Drill Pipe:	Length: 3514.00 ft	Diameter: 3.80 inches	Volume: 49.29 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3646.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	93.00 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			3623.00	
Shut In Tool	5.00			3628.00	
Hydraulic tool	5.00			3633.00	
Safety Joint	3.00			3636.00	
Packer	5.00			3641.00	24.00 Bottom Of Top Packer
Packer	5.00			3646.00	
Stubb	1.00			3647.00	
Perforations	1.00			3648.00	
Change Over Sub	1.00			3649.00	
Recorder	0.00	6672	Inside	3649.00	
Drill Pipe	30.00			3679.00	
Change Over Sub	1.00			3680.00	
Recorder	0.00	13254	Outside	3680.00	
Perforations	32.00			3712.00	
Bullnose	3.00			3715.00	69.00 Bottom Packers & Anchor

**Total Tool Length: 93.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 22198

DST#: 2

ATTN: David Doyle

Test Start: 2005.09.21 @ 01:40:20

**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: bbl		
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3100.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
105.00	Mdy Wtr 50% m 50% w	0.516
124.00	Wtr Rw .13 @ 76 = 78000ppm	1.566

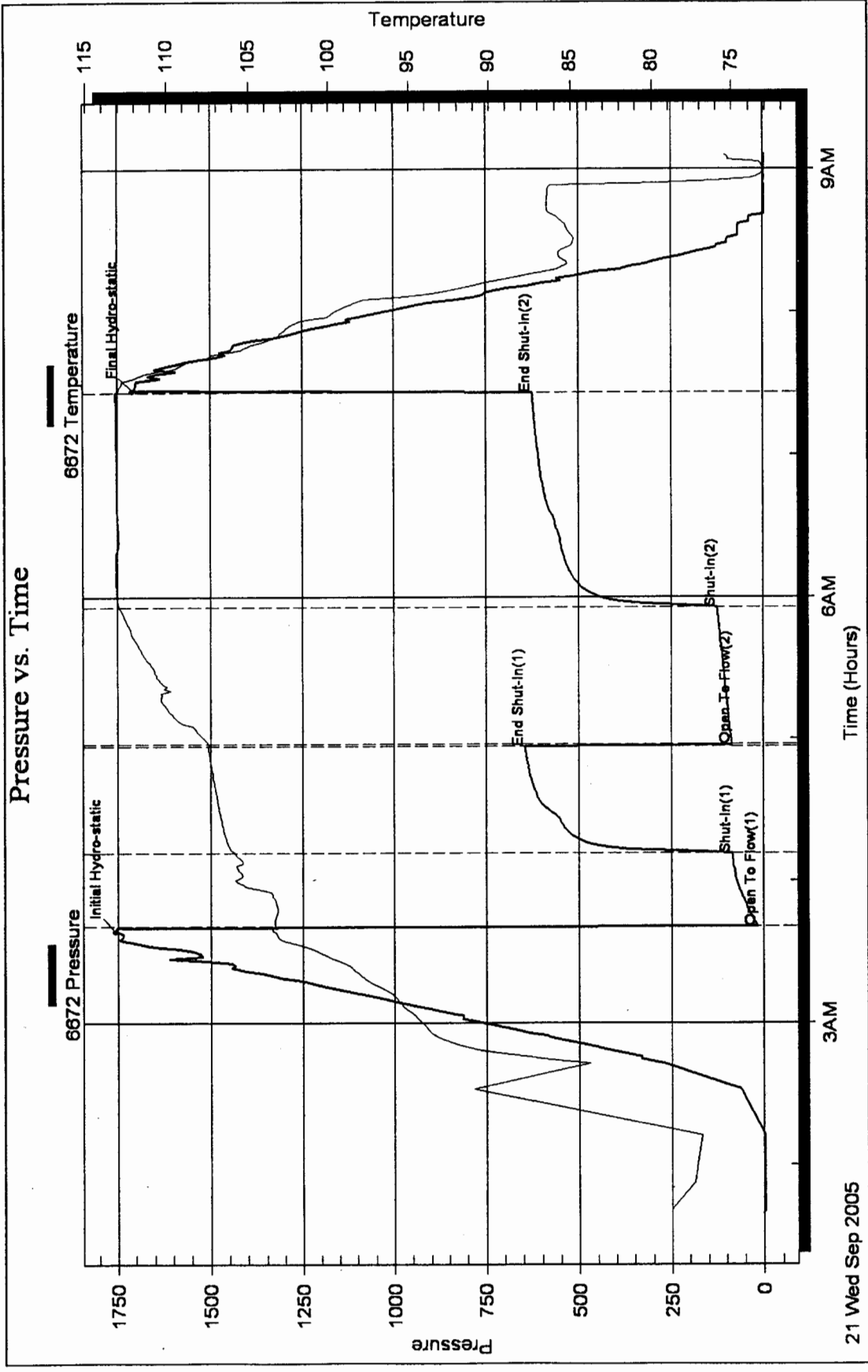
Total Length: 229.00 ft      Total Volume: 2.082 bbl

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

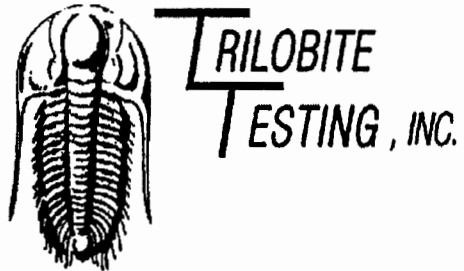
Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time



21 Wed Sep 2005



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: David Doyle

**33-11-21-Trego-Ks**

**Lynd # 1-33**

Start Date: 2005.09.21 @ 17:15:22

End Date: 2005.09.22 @ 01:50:22

Job Ticket #: 22199                      DST #: 3

Murfin Drlg Co Inc

Lynd # 1-33

33-11-21-Trego-Ks

DST # 3

H

2005.09.21

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 Drig Co Inc  
 250 N Wtr Ste 300  
 Wichita Ks 67202  
 ATTN: David Doyle

Lynd # 1-33  
 33-11-21-Trego-Ks  
 Job Ticket: 22199      DST#: 3  
 Test Start: 2005.09.21 @ 17:15:22

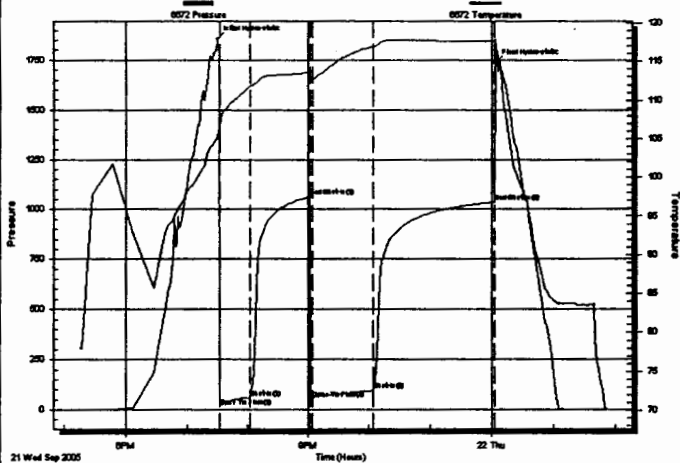
## GENERAL INFORMATION:

Formation: H  
 Deviated: No      Whipstock: ft (KB)  
 Time Tool Opened: 19:32:22  
 Time Test Ended: 01:50:22  
 Interval: 3746.00 ft (KB) To 3775.00 ft (KB) (TVD)  
 Total Depth: 3775.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 21  
 Reference Elevations: 2328.00 ft (KB)  
 2323.00 ft (CF)  
 KB to GR/CF: 5.00 ft

Serial #: 6672      Inside  
 Press@RunDepth: 94.34 psig @ 3747.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2005.09.21      End Date: 2005.09.22      Last Calib.: 2005.09.22  
 Start Time: 17:15:23      End Time: 01:50:22      Time On Btm: 2005.09.21 @ 19:29:52  
 Time Off Btm: 2005.09.22 @ 00:02:52

TEST COMMENT: F-Strong B-B in 13 min  
 SI-Weak died in 10 min  
 FF-Strong B-B in 6 min  
 FSI-Weak died in 10 min

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1855.83	105.23	Initial Hydro-static
3	12.29	105.29	Open To Flow (1)
33	59.17	111.82	Shut-In(1)
92	1062.76	113.58	End Shut-In(1)
94	53.99	112.54	Open To Flow (2)
155	94.34	116.93	Shut-In(2)
273	1036.45	117.59	End Shut-In(2)
273	1734.84	117.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (tbt)
124.00	MCGsyO 20%g 70%o 10%m	0.61
90.00	MCGsyO 20%g 60%o 20%m	1.26
0.00	770 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilg Co Inc

**Lynd # 1-33**

250 N Wtr Ste 300  
Wichita Ks 67202

**33-11-21-Trego-Ks**

Job Ticket: 22199

**DST#: 3**

ATTN: David Doyle

Test Start: 2005.09.21 @ 17:15:22

### Tool Information

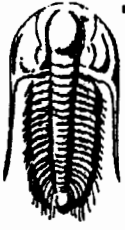
Drill Pipe:	Length: 3607.00 ft	Diameter: 3.80 inches	Volume: 50.60 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 51.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3746.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	53.00 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			3723.00	
Shut In Tool	5.00			3728.00	
Hydraulic tool	5.00			3733.00	
Safety Joint	3.00			3736.00	
Packer	5.00			3741.00	24.00 Bottom Of Top Packer
Packer	5.00			3746.00	
Stubb	1.00			3747.00	
Recorder	0.00	6672	Inside	3747.00	
Perforations	25.00			3772.00	
Recorder	0.00	13254	Outside	3772.00	
Bullnose	3.00			3775.00	29.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wchita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 22199

DST#: 3

ATTN: David Doyle

Test Start: 2005.09.21 @ 17:15:22

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 6.78 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3800.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCGsyO 20%g 70%o 10%m	0.610
90.00	MCGsyO 20%g 60%o 20%m	1.262
0.00	770 GP	0.000

Total Length: 214.00 ft      Total Volume: 1.872 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

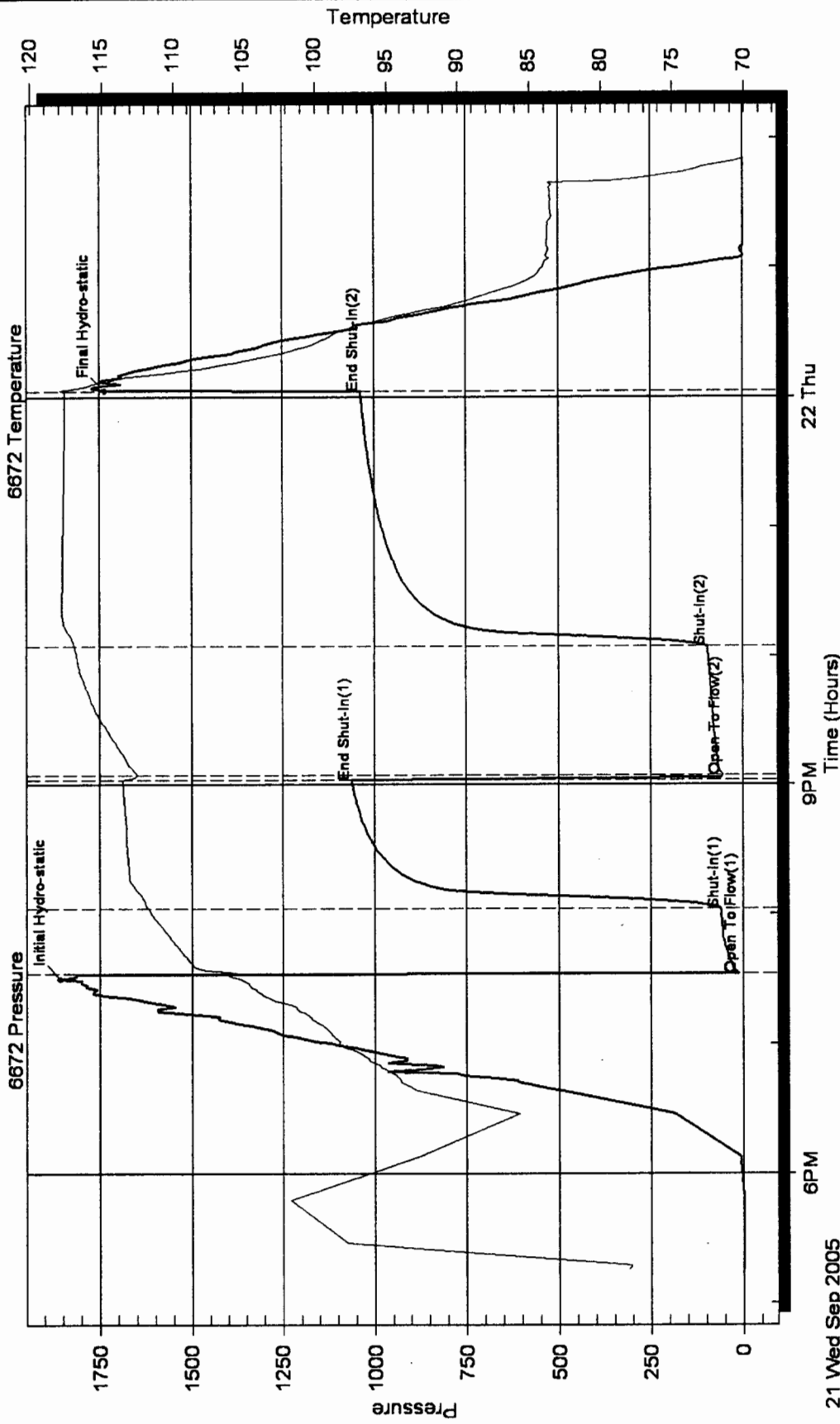
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: David Doyle

**33-11-21-Trego-Ks**

**Lynd # 1-33**

Start Date: 2005.09.22 @ 15:40:55

End Date: 2005.09.22 @ 22:09:55

Job Ticket #: 22200                      DST #: 4

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

Murfin Drlg Co Inc

Lynd # 1-33

33-11-21-Trego-Ks

DST # 4

I-J-K-L

L

2005.09.22



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drig Co Inc

Lynd # 1-33

250 NWtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 22200

DST#: 4

ATTN: David Doyle

Test Start: 2005.09.22 @ 15:40:55

## GENERAL INFORMATION:

Formation: I-J-K-L L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:59:25

Time Test Ended: 22:09:55

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3775.00 ft (KB) To 3874.00 ft (KB) (TVD)

Total Depth: 3874.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2328.00 ft (KB)

2323.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 21.87 psig @ 3778.00 ft (KB)

Start Date: 2005.09.22

End Date:

2005.09.22

Start Time: 15:40:56

End Time:

22:09:55

Capacity: 7000.00 psig

Last Calib.: 2005.09.22

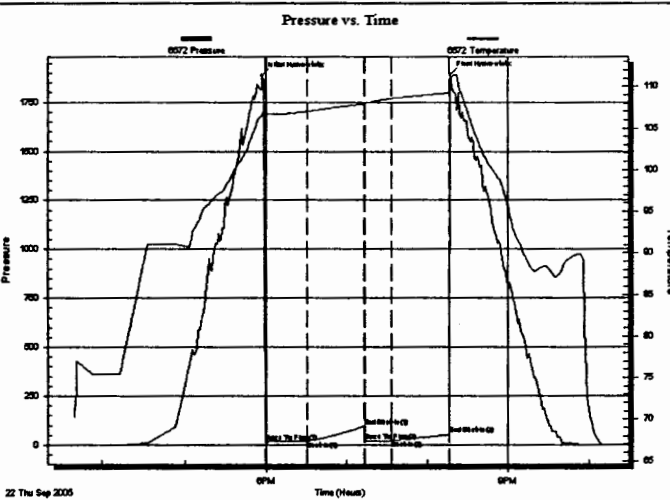
Time On Btm: 2005.09.22 @ 17:56:55

Time Off Btm: 2005.09.22 @ 20:17:25

TEST COMMENT: F-Weak died in 12 min

FF-No blow

Times-30-45-30-45



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.49	106.53	Initial Hydro-static
3	15.79	106.69	Open To Flow (1)
34	18.76	107.02	Shut-In(1)
76	94.26	107.90	End Shut-In(1)
77	19.89	107.91	Open To Flow (2)
97	21.87	108.56	Shut-In(2)
140	52.40	109.23	End Shut-In(2)
141	1891.30	110.83	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 Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 22200

DST#: 4

ATTN: David Doyle

Test Start: 2005.09.22 @ 15:40:55

### Tool Information

Drill Pipe:	Length: 3637.00 ft	Diameter: 3.80 inches	Volume: 51.02 bbl	Tool Weight: 1900.00 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: 51.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3775.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	99.00 ft			
Tool Length:	123.00 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			3752.00	
Shut In Tool	5.00			3757.00	
Hydraulic tool	5.00			3762.00	
Safety Joint	3.00			3765.00	
Packer	5.00			3770.00	24.00 Bottom Of Top Packer
Packer	5.00			3775.00	
Stubb	1.00			3776.00	
Perforations	1.00			3777.00	
Change Over Sub	1.00			3778.00	
Recorder	0.00	6672	Inside	3778.00	
Drill Pipe	63.00			3841.00	
Change Over Sub	1.00			3842.00	
Recorder	0.00	13254	Outside	3842.00	
Perforations	29.00			3871.00	
Bullnose	3.00			3874.00	99.00 Bottom Packers & Anchor

**Total Tool Length: 123.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 22200

DST#: 4

ATTN: David Doyle

Test Start: 2005.09.22 @ 15:40:55

### 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: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 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 #: 6672

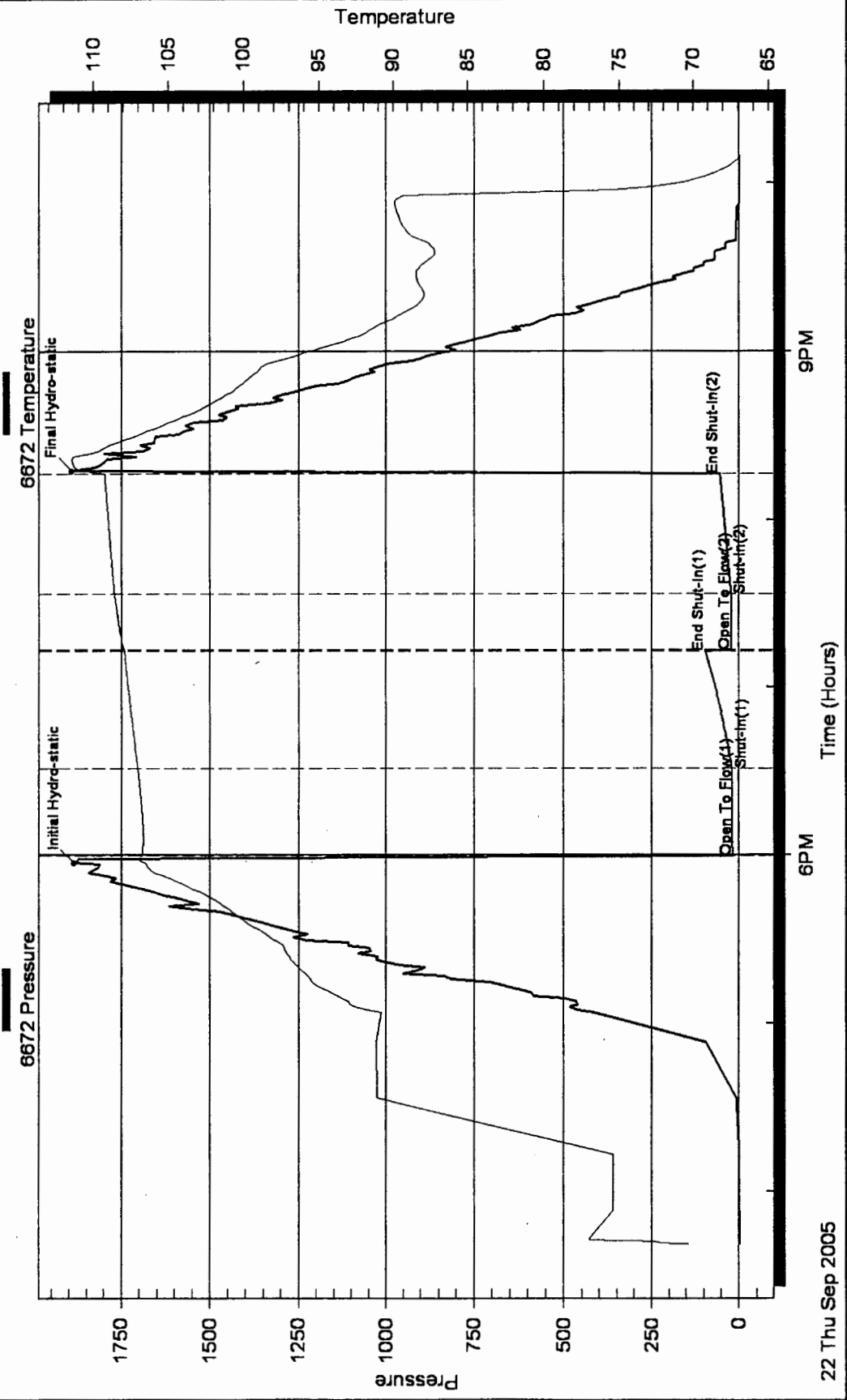
Inside

Murfin Dig Co Inc

33-11-21-Trego-Ks

DST Test Number: 4

### Pressure vs. Time

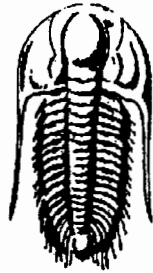


22 Thu Sep 2005

Trilobite Testing, Inc

Ref. No: 22200

Printed: 2005.09.27 @ 13:27:18 Page 5



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: David Doyle

**33-11-21-Trego-Ks**

**Lynd # 1-33**

Start Date: 2005.09.23 @ 06:32:04

End Date: 2005.09.23 @ 13:10:04

Job Ticket #: 23401                      DST #: 5

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

Murfin Drlg Co Inc

Lynd # 1-33

33-11-21-Trego-Ks

DST # 5

Marraton

2005.09.23



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drig Co Inc

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: David Doyle

Lynd # 1-33

33-11-21-Trego-Ks

Job Ticket: 23401

DST#: 5

Test Start: 2005.09.23 @ 06:32:04

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 08:23:04

Time Test Ended: 13:10:04

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: **3919.00 ft (KB) To 3935.00 ft (KB) (TVD)**

Total Depth: 3935.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2328.00 ft (KB)

2323.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6672**

Inside

Press@RunDepth: 30.97 psig @ 3920.00 ft (KB)

Start Date: 2005.09.23

End Date:

2005.09.23

Start Time: 06:32:05

End Time:

13:10:04

Capacity: 7000.00 psig

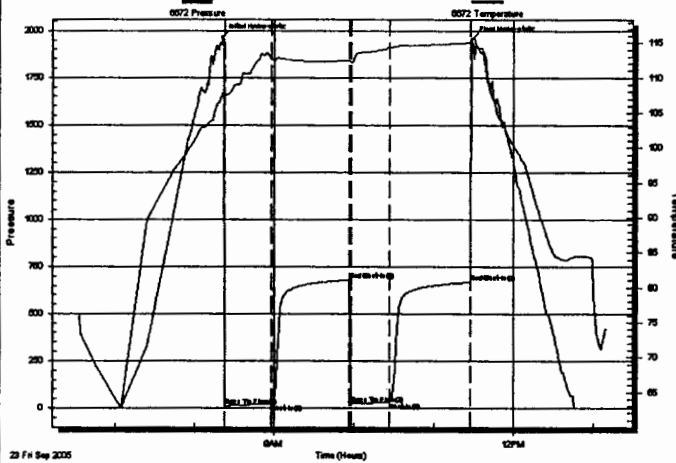
Last Calib.: 2005.09.23

Time On Btrn: 2005.09.23 @ 08:21:04

Time Off Btrn: 2005.09.23 @ 11:28:34

TEST COMMENT: F-Weak building to 3/4" then decreasing to 1/4" in 30 min  
FF-Weak steady surface blow  
Times-30-60-30-60

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1964.05	107.72	Initial Hydro-static
2	11.82	107.39	Open To Flow (1)
37	21.79	112.63	Shut-In(1)
96	680.33	112.46	End Shut-In(1)
97	22.61	112.17	Open To Flow (2)
126	30.97	114.40	Shut-In(2)
187	667.97	115.03	End Shut-In(2)
188	1950.70	115.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	CO	0.05
30.00	MCO 70%o 30% m	0.15

Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drig Co Inc

Lynd # 1-33

250 NWtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 23401

DST#: 5

ATTN: David Doyle

Test Start: 2005.09.23 @ 06:32:04

**Tool Information**

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 bbl	Tool Weight: 1300.00 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: 55000.00 lb
			<u>Total Volume: 53.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3919.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	40.00 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			3896.00	
Shut In Tool	5.00			3901.00	
Hydraulic tool	5.00			3906.00	
Safety Joint	3.00			3909.00	
Packer	5.00			3914.00	24.00 Bottom Of Top Packer
Packer	5.00			3919.00	
Stubb	1.00			3920.00	
Recorder	0.00	6672	Inside	3920.00	
Perforations	12.00			3932.00	
Recorder	0.00	13254	Outside	3932.00	
Bullnose	3.00			3935.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 23401

DST#: 5

ATTN: David Doyle

Test Start: 2005.09.23 @ 06:32:04

### 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:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	CO	0.049
30.00	MCO 70%o 30%m	0.148

Total Length: 40.00 ft

Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

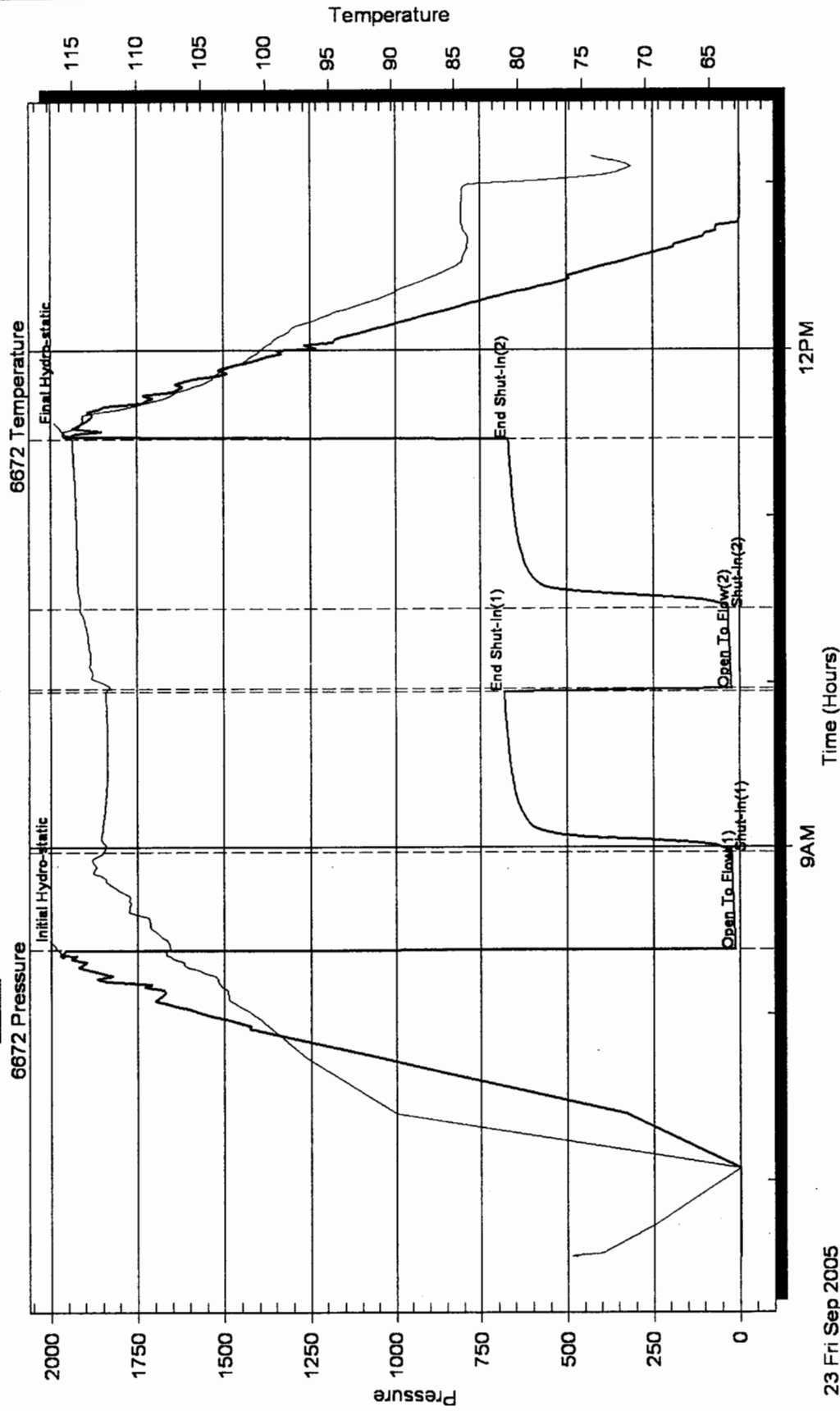
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



23 Fri Sep 2005



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: David Doyle

**33-11-21-Trego-Ks**

**Lynd # 1-33**

Start Date: 2005.09.23 @ 20:40:01

End Date: 2005.09.24 @ 03:37:01

Job Ticket #: 23402                      DST #: 6

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

Murfin Drlg Co Inc

Lynd # 1-33

33-11-21-Trego-Ks

DST # 6

Arbuckle

2005.09.23



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wchita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 23402

DST#: 6

ATTN: David Doyle

Test Start: 2005.09.23 @ 20:40:01

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:28:01

Time Test Ended: 03:37:01

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 21

Interval: 3958.00 ft (KB) To 3967.00 ft (KB) (TVD)

Total Depth: 3967.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2328.00 ft (KB)

2323.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 12.93 psig @ 3959.00 ft (KB)

Start Date: 2005.09.23

End Date:

2005.09.24

Capacity: 7000.00 psig

Last Calib.: 2005.09.24

Start Time: 20:40:02

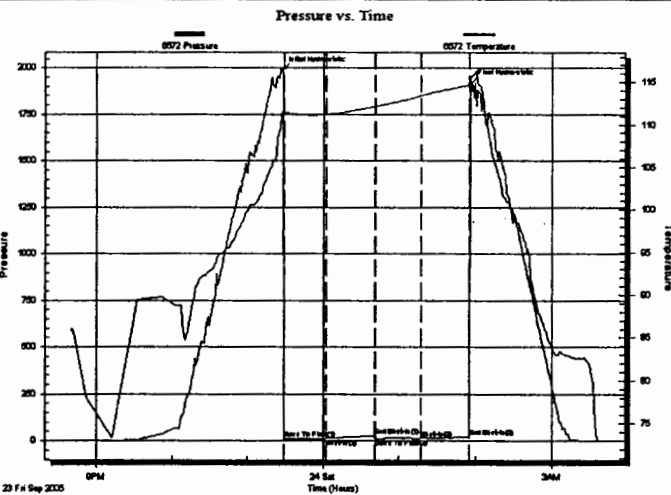
End Time:

03:37:01

Time On Btrr: 2005.09.23 @ 23:26:31

Time Off Btrr: 2005.09.24 @ 01:56:31

TEST COMMENT: F-Weak died in 15 min  
FF-No blow  
Times-30-45-30-45



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1987.45	111.20	Initial Hydro-static
2	10.26	111.35	Open To Flow (1)
36	12.92	111.20	Shut-In(1)
74	28.06	112.14	End Shut-In(1)
75	12.16	112.16	Open To Flow (2)
111	12.93	113.41	Shut-In(2)
149	20.57	114.67	End Shut-In(2)
150	1920.10	115.71	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1.00	DMw / oil spots	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 23402

DST#: 6

ATTN: David Doyle

Test Start: 2005.09.23 @ 20:40:01

**Tool Information**

Drill Pipe:	Length: 3823.00 ft	Diameter: 3.80 inches	Volume: 53.63 bbl	Tool Weight: 1100.00 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: 45000.00 lb
			<u>Total Volume: 54.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3958.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	33.00 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			3935.00	
Shut In Tool	5.00			3940.00	
Hydraulic tool	5.00			3945.00	
Safety Joint	3.00			3948.00	
Packer	5.00			3953.00	24.00 Bottom Of Top Packer
Packer	5.00			3958.00	
Stubb	1.00			3959.00	
Recorder	0.00	6672	Inside	3959.00	
Perforations	5.00			3964.00	
Recorder	0.00	13254	Outside	3964.00	
Bullnose	3.00			3967.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 33.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 23402

DST#: 6

ATTN: David Doyle

Test Start: 2005.09.23 @ 20:40:01

### 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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	DM w / oil spots	0.005

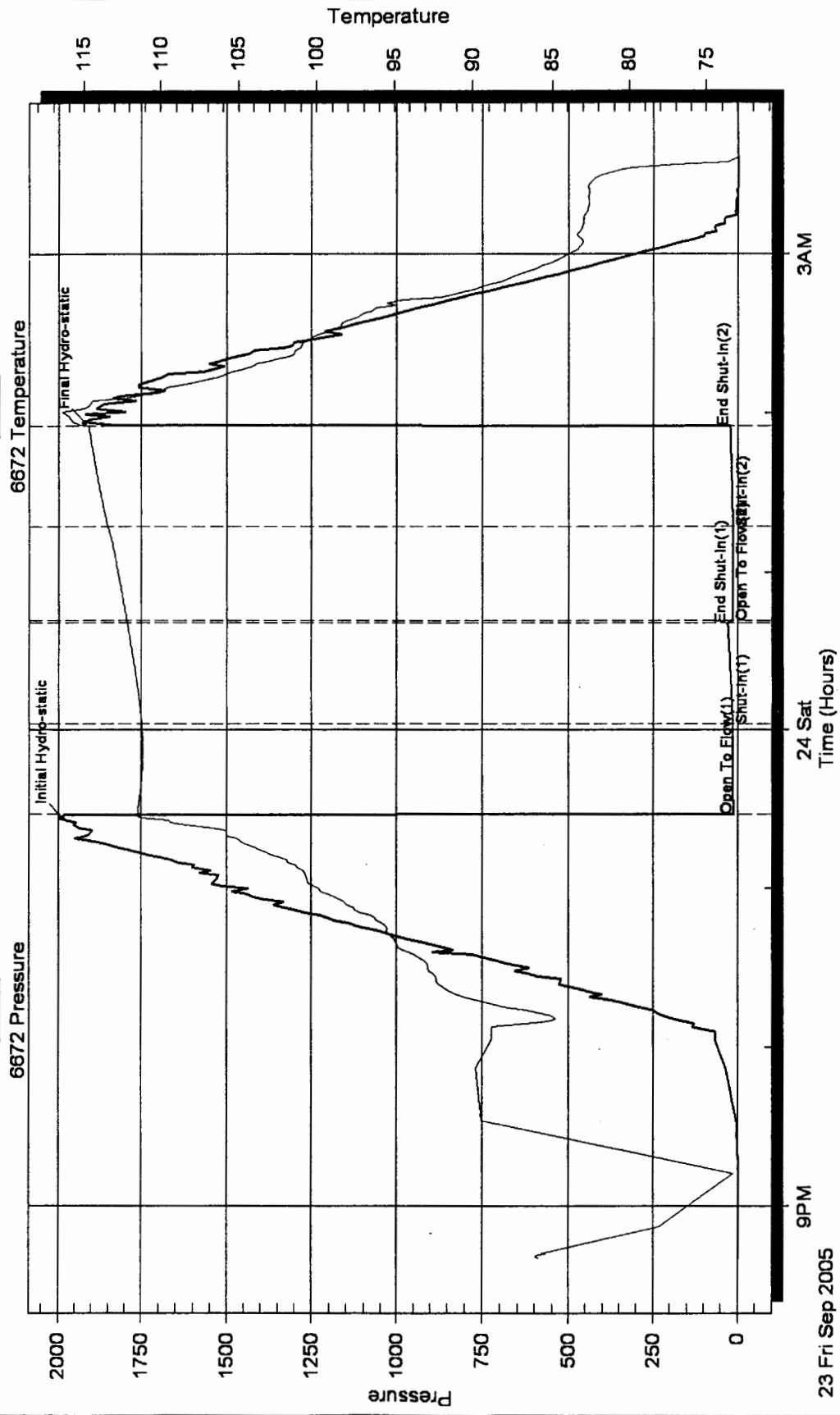
Total Length: 1.00 ft      Total Volume: 0.005 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drg Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: David Doyle

**33-11-21-Trego-Ks**

**Lynd # 1-33**

Start Date: 2005.09.24 @ 12:35:09

End Date: 2005.09.24 @ 21:30:09

Job Ticket #: 23403                      DST #: 7

Murfin Drg Co Inc

Lynd # 1-33

33-11-21-Trego-Ks

DST # 7

Arbuckle

2005.09.24

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 Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 23403

DST#: 7

ATTN: David Doyle

Test Start: 2005.09.24 @ 12:35:09

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No Whipstock:** ft (KB)

Test Type: **Conventional Bottom Hole**

Time Tool Opened: 14:38:39

Tester: **Dan Bangle**

Time Test Ended: 21:30:09

Unit No: **21**

Interval: **3966.00 ft (KB) To 3982.00 ft (KB) (TVD)**

Reference Elevations: **2328.00 ft (KB)**

Total Depth: **3648.00 ft (KB) (TVD)**

**2323.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **5.00 ft**

Serial #: **6672**

Inside

Press@RunDepth: **153.10 psig @ 3967.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.09.24**

End Date:

**2005.09.24**

Last Calib.: **2005.09.24**

Start Time: **12:35:10**

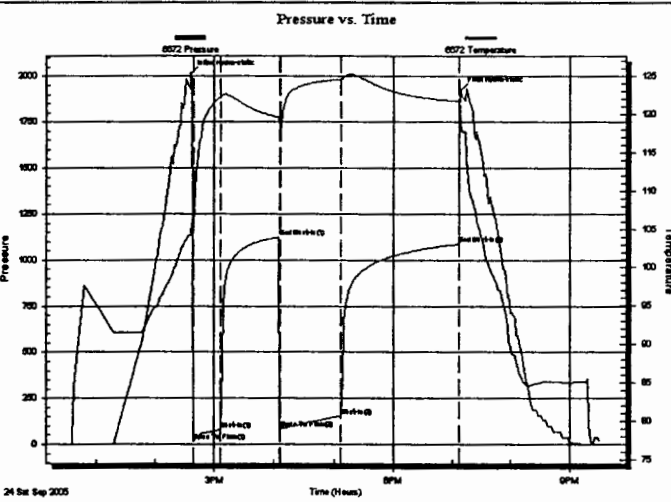
End Time:

**21:30:09**

Time On Btrr: **2005.09.24 @ 14:36:09**

Time Off Btrr: **2005.09.24 @ 19:08:39**

TEST COMMENT: **F-Strong B-B in 21 min  
FF-Strong B-B in 18 min  
Times-30-60-60-120**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2013.67	104.43	Initial Hydro-static
3	16.14	105.45	Open To Flow (1)
30	77.80	122.19	Shut-In(1)
89	1123.97	119.57	End Shut-In(1)
90	84.71	117.77	Open To Flow (2)
151	153.10	124.57	Shut-In(2)
271	1087.37	121.72	End Shut-In(2)
273	1925.41	118.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	MCGsyO 10%g 65%o 25%m	0.37
345.00	CGsyO 10%g 90%o	4.39
0.00	140 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 23403

DST#: 7

ATTN: David Doyle

Test Start: 2005.09.24 @ 12:35:09

### Tool Information

Drill Pipe:	Length: 3824.00 ft	Diameter: 3.80 inches	Volume: 53.64 bbl	Tool Weight: 1200.00 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: 45000.00 lb
			<u>Total Volume: 54.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3966.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	40.00 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			3943.00	
Shut In Tool	5.00			3948.00	
Hydraulic tool	5.00			3953.00	
Safety Joint	3.00			3956.00	
Packer	5.00			3961.00	24.00 Bottom Of Top Packer
Packer	5.00			3966.00	
Stubb	1.00			3967.00	
Recorder	0.00	6672	Inside	3967.00	
Perforations	12.00			3979.00	
Recorder	0.00	13254	Outside	3979.00	
Bullnose	3.00			3982.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wchita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 23403

DST#: 7

ATTN: David Doyle

Test Start: 2005.09.24 @ 12:35:09

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5200.00 ppm		
Filter Cake: inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	MCGsyO 10%g 65%o 25%m	0.369
345.00	CGsyO 10%g 90%o	4.393
0.00	140 GIP	0.000

Total Length: 420.00 ft      Total Volume: 4.762 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

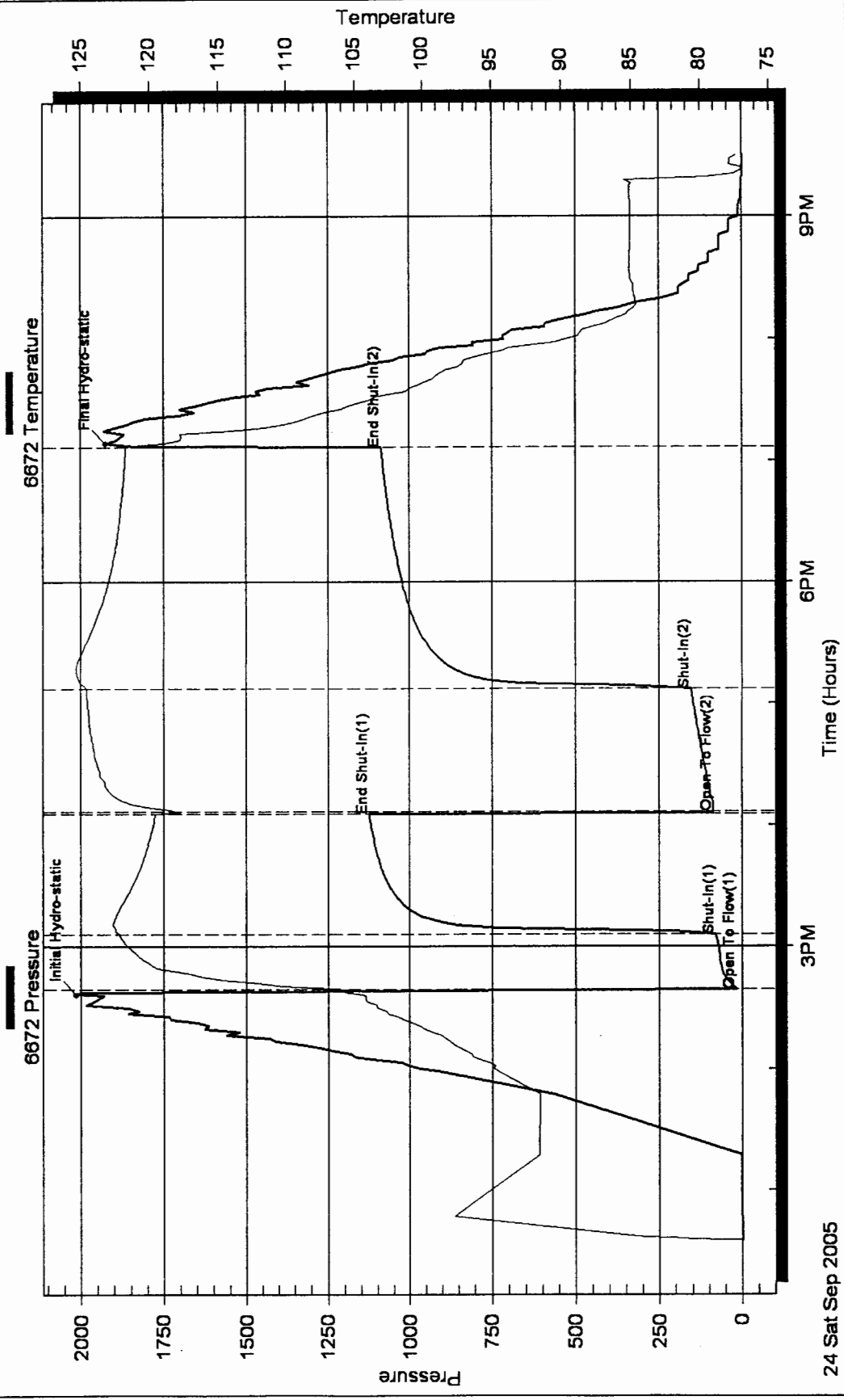
Serial #:

Laboratory Name:

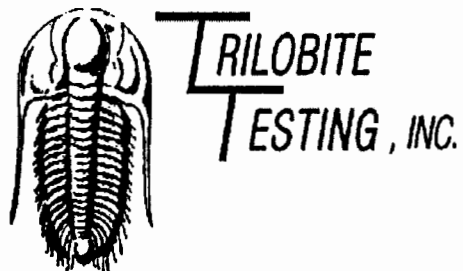
Laboratory Location:

Recovery Comments:

### Pressure vs. Time



24 Sat Sep 2005



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: David Doyle

**33-11-21-Trego-Ks**

**Lynd # 1-33**

Start Date: 2005.09.25 @ 03:40:37

End Date: 2005.09.25 @ 11:37:37

Job Ticket #: 23404                      DST #: 8

Murfin Drlg Co Inc

Lynd # 1-33

33-11-21-Trego-Ks

DST # 8

Arbuckle

2005.09.25

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 Drig Co Inc  
250 NWtr Ste 300  
Wichita Ks 67202  
ATTN: David Doyle

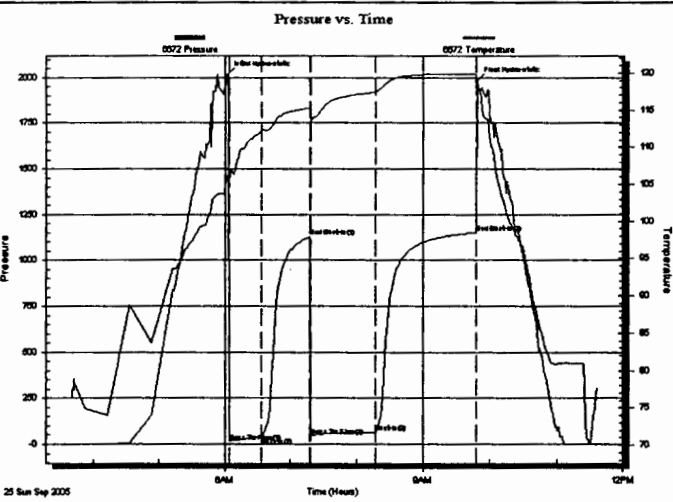
Lynd # 1-33  
33-11-21-Trego-Ks  
Job Ticket: 23404      DST#: 8  
Test Start: 2005.09.25 @ 03:40:37

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 06:04:37  
Time Test Ended: 11:37:37  
Interval: **3984.00 ft (KB) To 3997.00 ft (KB) (TVD)**  
Total Depth: **3997.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches**Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole**  
Tester: **Dan Bangle**  
Unit No: **21**  
Reference Elevations: **2328.00 ft (KB)**  
**2323.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

**Serial #: 6672**      Inside  
Press@RunDepth: **63.72 psig @ 3985.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2005.09.25**      End Date: **2005.09.25**      Last Calib.: **2005.09.25**  
Start Time: **03:40:38**      End Time: **11:37:37**      Time On Btrr: **2005.09.25 @ 06:03:07**  
Time Off Btrr: **2005.09.25 @ 09:48:37**

**TEST COMMENT:** F-Weak building to 1"  
FF-Weak building to 3/4"  
Times-30-45-60-90



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2014.38	106.13	Initial Hydro-static
2	13.26	105.45	Open To Flow (1)
31	39.07	112.10	Shut-In(1)
75	1126.46	115.23	End Shut-In(1)
76	43.77	113.40	Open To Flow (2)
134	63.72	117.47	Shut-In(2)
225	1150.95	119.87	End Shut-In(2)
226	1981.83	118.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCGsyo 10%g 60%o 30%r	0.30
90.00	CGsyo 10%g 90%o	0.68
0.00	90 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drig Co Inc

**Lynd # 1-33**

250 N Wtr Ste 300  
Wichita Ks 67202

**33-11-21-Trego-Ks**

Job Ticket: 23404

**DST#: 8**

ATTN: David Doyle

Test Start: 2005.09.25 @ 03:40:37

**Tool Information**

Drill Pipe:	Length: 3855.00 ft	Diameter: 3.80 inches	Volume: 54.08 bbl	Tool Weight: 1100.00 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: 45000.00 lb
			<u>Total Volume: 54.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3984.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	37.00 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			3961.00	
Shut In Tool	5.00			3966.00	
Hydraulic tool	5.00			3971.00	
Safety Joint	3.00			3974.00	
Packer	5.00			3979.00	24.00 Bottom Of Top Packer
Packer	5.00			3984.00	
Stubb	1.00			3985.00	
Recorder	0.00	6672	Inside	3985.00	
Perforations	9.00			3994.00	
Recorder	0.00	13254	Outside	3994.00	
Bullnose	3.00			3997.00	13.00 Bottom Packers & Anchor

**Total Tool Length: 37.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drig Co Inc

Lynd # 1-33

250 N Wtr Ste 300  
Wichita Ks 67202

33-11-21-Trego-Ks

Job Ticket: 23404

DST#: 8

ATTN: David Doyle

Test Start: 2005.09.25 @ 03:40:37

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	MCGsyO 10%g 60%o 30%m	0.295
90.00	CGsyO 10%g 90%o	0.679
0.00	90 GP	0.000

Total Length: 150.00 ft

Total Volume: 0.974 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

