

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Release:

APR 04 21

Prepared For: **Murfin Drilling Co.**
250 N. Water, #300
Wichita, KS 67202

From
Confidential

CONFIDENTIAL

ATTN: Pat Deenihan

27-33s-1e Sumner KS

Wolf#1

Start Date: 2001.08.04 @ 21:41:17

End Date: 2001.08.05 @ 05:18:47

Job Ticket #: 14976 DST #: 1

KCC

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

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Murfin Drilling Co., Inc.

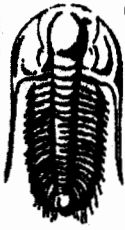
Wolf#1

27-33s-1e Sumner KS

DST # 1

Stalnaker

2001.08.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

Wolf#1

250 N.Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14976

DST#: 1

ATTN: Pat Deenihan

Test Start: 2001.08.04 @ 21:41:17

GENERAL INFORMATION:

Formation: **Stalnaker**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:35:47

Time Test Ended: 05:18:47

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: 2594.00 ft (KB) To 2644.00 ft (KB) (TVD)

Total Depth: 2644.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1270.00 ft (KB)

1265.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3302

Inside

Press@RunDepth: 178.15 psig @ 2595.00 ft (KB)

Start Date: 2001.08.04

End Date:

2001.08.05

Start Time: 21:41:19

End Time:

05:18:47

Capacity: 7000.00 psig

Last Calib.: 2001.08.05

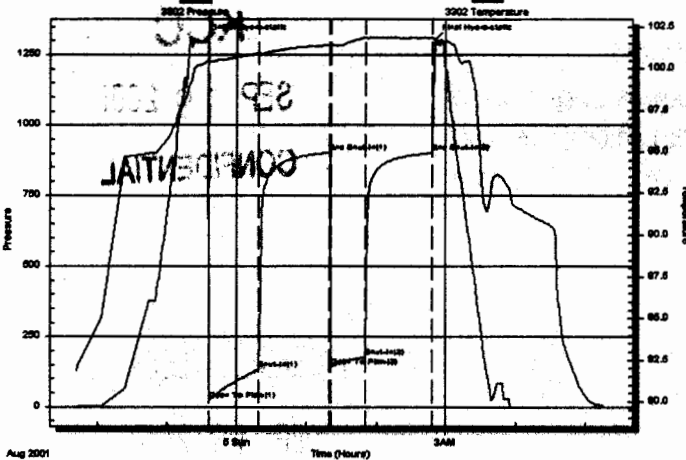
Time On Btm: 2001.08.04 @ 23:34:17

Time Off Btm: 2001.08.05 @ 02:50:47

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TEST COMMENT: Weak blow built to b.o.b in 33 mins.
IS: Bled down for 2 mins. no blow back.
FF: Weak blow built to 2" in H2O bucket slowly died off to weak surface blow.
FS: Bled down for 2 mins. no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1304.08	100.41	Initial Hydro-static
2	23.36	100.58	Open To Flow (1)
44	132.10	100.92	Shut-in(1)
105	903.55	101.40	End Shut-in(1)
107	144.28	101.52	Open To Flow (2)
136	178.15	101.87	Shut-in(2)
194	902.09	101.84	End Shut-in(2)
197	1303.32	101.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	353 - Mud cut Salt Water	2.09

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Wolf#1

250 N. Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14976

DST#: 1

ATTN: Pat Deenihan

Test Start: 2001.08.04 @ 21:41:17

Tool Information

Drill Pipe:	Length: 2286.00 ft	Diameter: 3.80 inches	Volume: 32.07 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 33.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2594.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2574.00	
S.I. Tool	5.00			2579.00	
HMV	5.00			2584.00	
Packer	5.00			2589.00	21.00 Bottom Of Top Packer
Packer	5.00			2594.00	
Stubb	1.00			2595.00	
Recorder	0.00	3302	Inside	2595.00	
Anchor	15.00			2610.00	
Recorder	0.00	13769	Outside	2610.00	
Blank Spacing	31.00			2641.00	
Bullnose	3.00			2644.00	50.00 Bottom Packers & Anchor

Total Tool Length: 71.00

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Well#1

250 N. Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14976

DST#: 1

ATTN: Pat Deenihan

Test Start: 2001.08.04 @ 21:41:17

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil Apt:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.98 in²

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	353 - Mud cut Salt Water	2.086

Total Length: 350.00 ft Total Volume: 2.086 bbl

Num Fluid Samples: 0

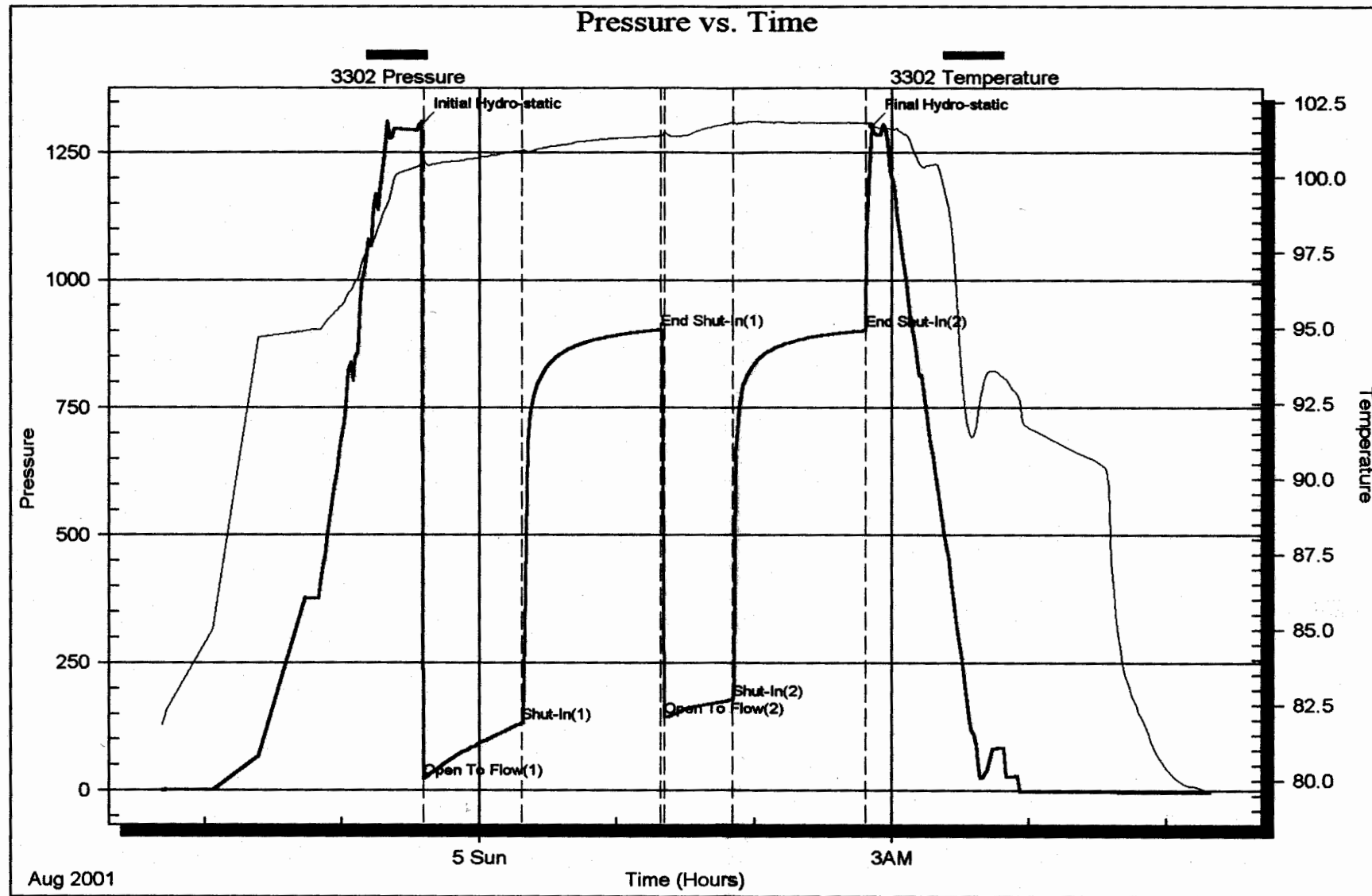
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .2@68degrees



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water, #300
Wichita, KS 67202

ATTN: Pat Deenihan

Wolf#1

27-33s-1e Sumner KS

Job Ticket: 14977

DST#: 2

Test Start: 2001.08.06 @ 09:08:06

GENERAL INFORMATION:

Formation: **Layton**

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

Time Tool Opened: 11:44:06

Time Test Ended: 18:43:36

Interval: **3069.00 ft (KB) To 3090.00 ft (KB) (TVD)**

Total Depth: **3090.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Reference Elevations: **1270.00 ft (KB)**

1265.00 ft (CF)

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

Serial #: **3302**

Inside

Press@RunDepth: **982.98 psig @ 3070.00 ft (KB)**

Start Date: **2001.08.06**

End Date:

2001.08.06

Start Time: **09:08:08**

End Time:

18:43:36

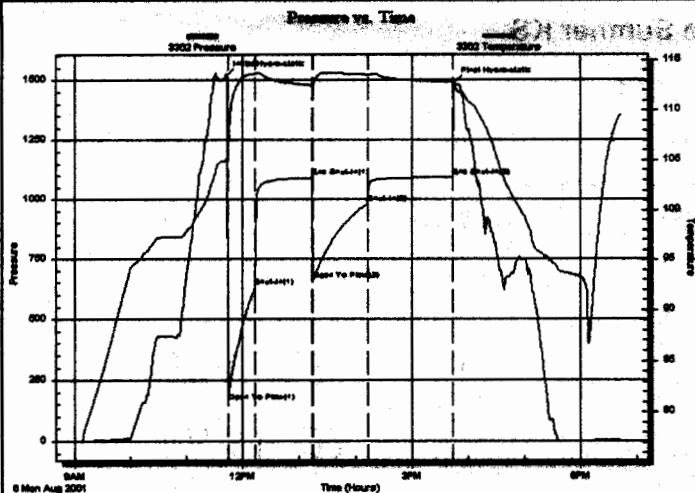
Capacity: **7000.00 psig**

Last Calib.: **2001.08.06**

Time On Btm: **2001.08.06 @ 11:42:36**

Time Off Btm: **2001.08.06 @ 15:45:36**

TEST COMMENT: F: Strong blow built to b.o.b in 60 sec.
 IST: Bled down n for 2 mins. built back to 1/4" in H2O bucket.
 FF: Strong blow built to b.o.b in 60 sec.
 FST: Bled down n for 2 mins. no blow back



PRESSURE SUMMARY

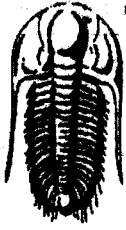
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1519.05	105.20	Initial Hydro-static
2	160.68	105.72	Open To Flow (1)
30	630.34	113.68	Shut-in(1)
91	1090.77	112.52	End Shut-in(1)
92	659.78	112.57	Open To Flow (2)
151	982.98	113.58	Shut-in(2)
242	1093.57	112.85	End Shut-in(2)
243	1488.99	112.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	104 - Water cut Mud	0.39
1800.00	153 - Salt Water	23.15
1200.00	350 - Mud cut Water	1.68

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, #300
Wichita, KS 67202
ATTN: Pat Deenihan

Wolf#1
27-33s-1e Sumner KS
Job Ticket: 14977 **DST#: 2**
Test Start: 2001.08.06 @ 09:08:06

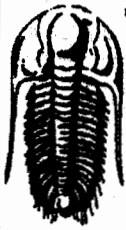
Tool Information

Drill Pipe:	Length: 2754.00 ft	Diameter: 3.80 inches	Volume: 38.63 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 310.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 40.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3069.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3049.00	
S.I. Tool	5.00			3054.00	
HMV	5.00			3059.00	
Packer	5.00			3064.00	21.00 Bottom Of Top Packer
Packer	5.00			3069.00	
Stubb	1.00			3070.00	
Recorder	0.00	3302	Inside	3070.00	
Anchor	17.00			3087.00	
Recorder	0.00	13769	Outside	3087.00	
Bullnose	3.00			3090.00	21.00 Bottom Packers & Anchor
Total Tool Length:	42.00				

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Well#1

250 N.Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14977

DST#: 2

ATTN: Pat Deenihan

Test Start: 2001.08.06 @ 09:08:06

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 12.78 in²

Resistivity: 1.50 ohm.m

Salinity: 2200.00 ppm

Filter Cake: 0.32 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	104 - Water cut Mud	0.393
1800.00	153 - Salt Water	23.154
120.00	350 - Mud cut Water	1.683

Total Length: 2000.00 ft Total Volume: 25.230 bbl

Num Fluid Samples: 0

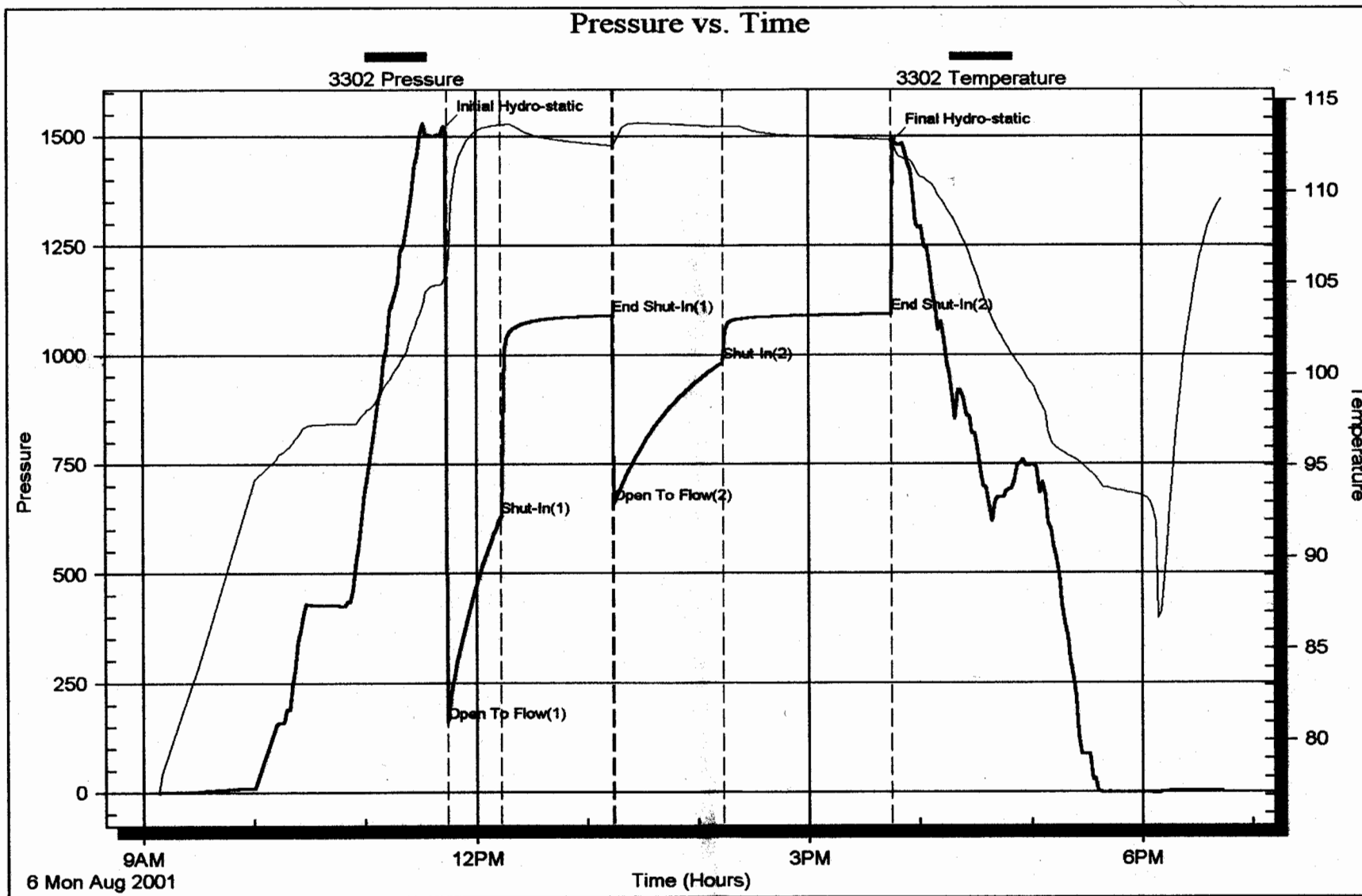
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

Wolf#1

250 N.Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14777

DST#: 3

ATTN: Pat Deenihan

Test Start: 2001.08.09 @ 20:30:00

GENERAL INFORMATION:

Formation: **Simp.**

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

Time Tool Opened: 23:00:00

Time Test Ended: 00:00:00

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3900.00 ft (KB) To 3970.00 ft (KB) (TVD)**

Total Depth: **3970.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1270.00 ft (KB)**

1265.00 ft (CF)

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

Serial #: 3017 Inside

Press@RunDepth: **psig @ 3938.01 ft (KB)**

Start Date: **2001.08.09**

End Date:

2001.08.10

Capacity: **7000.00 psig**

Last Calib.: **2001.08.10**

Start Time: **21:09:49**

End Time:

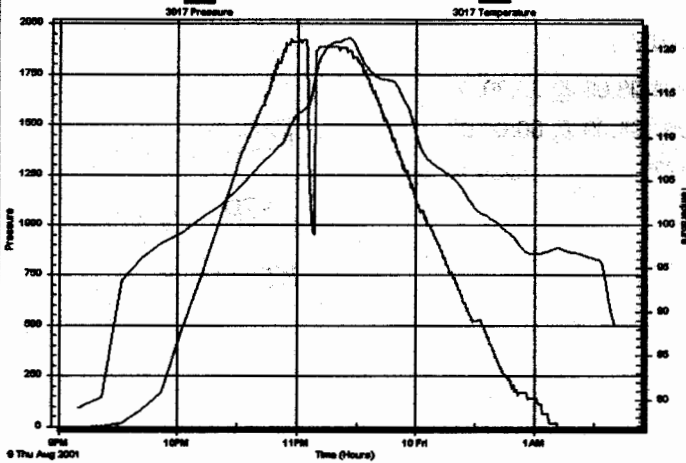
01:40:18

Time On Btrc:

Time Off Btrc:

TEST COMMENT: **Packer Failure**

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1280.00	Mud	15.19

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Wolf#1

250 N.Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14777

DST#: 3

ATTN: Pat Deenihan

Test Start: 2001.08.09 @ 20:30:00

Tool Information

Drill Pipe:	Length: 3597.00 ft	Diameter: 3.80 inches	Volume: 50.46 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 303.00 ft	Diameter: 2.25 inches	Volume: 1.49 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 51.95 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial lb
Depth to Top Packer:	3900.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	70.02 ft			
Tool Length:	90.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3881.00	
S.I. Tool	5.00			3886.00	
HMV	5.00			3891.00	
Packer	4.00			3895.00	20.00 Bottom Of Top Packer
Packer	5.00			3900.00	
Stubb	1.00			3901.00	
Perforations	4.00			3905.00	
C.O. Sub	1.00			3906.00	
Blank Spacing	31.00			3937.00	
C.O. Sub	1.00			3938.00	
Recorder	0.01	3017	Inside	3938.01	
Perforations	29.00			3967.01	
Recorder	0.01	13308	Outside	3967.02	
Bullnose	3.00			3970.02	70.02 Bottom Packers & Anchor

Total Tool Length: 90.02

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Well#1

250 N.Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14777

DST#: 3

ATTN: Pat Deenihan

Test Start: 2001.08.09 @ 20:30:00

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: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.94 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1280.00	Mud	15.195

Total Length: 1280.00 ft Total Volume: 15.195 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

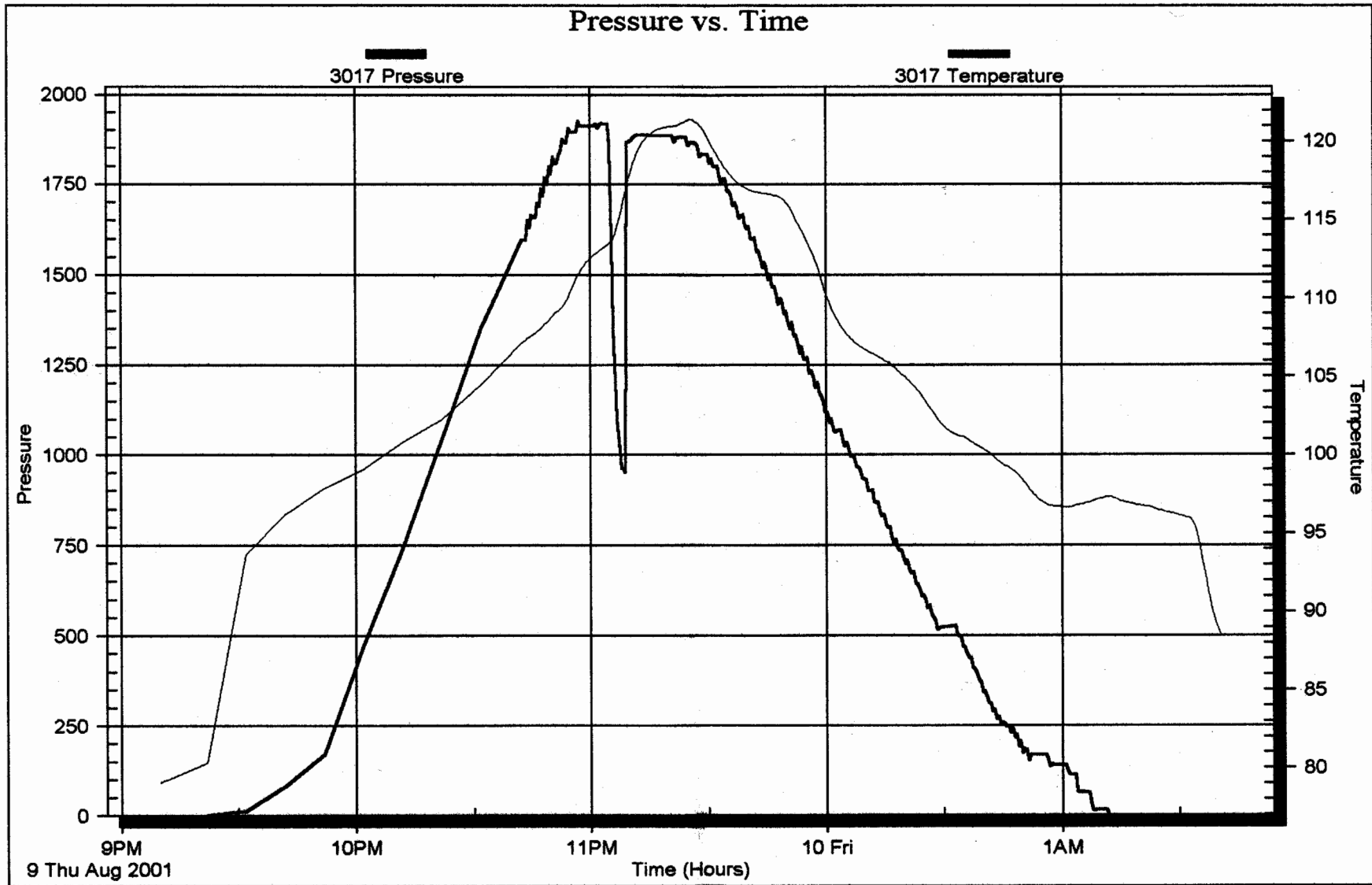
Recovery Comments:

Serial #: 3017

Inside Murfin Drilling Co., Inc.

27-33s-1e Sumner KS

DST Test Number: 3



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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

Wolf#1

250 N. Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14778

DST#: 4

ATTN: Pat Deenihan

Test Start: 2001.08.09 @ 01:50:00

GENERAL INFORMATION:

Formation: **Simp.**

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

Time Tool Opened: 04:30:00

Time Test Ended: 00:00:00

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3890.00 ft (KB) To 3970.00 ft (KB) (TVD)**

Total Depth: **3970.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1270.00 ft (KB)**

1265.00 ft (CF)

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

Serial #: **3017** **Inside**

Press@RunDepth: **psig @ 3894.01 ft (KB)**

Start Date: **2001.08.10**

End Date:

2001.08.10

Capacity: **7000.00 psig**

Last Calib.:

2001.08.10

Start Time: **02:25:27**

End Time:

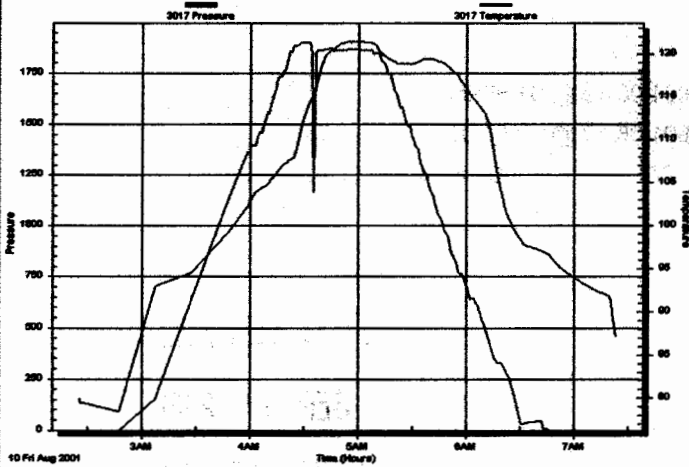
07:23:56

Time On Btm:

Time Off Btm:

TEST COMMENT: **Packer Failure**

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
915.00		10.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Wolf#1

250 N. Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14778

DST#: 4

ATTN: Pat Deenihan

Test Start: 2001.08.09 @ 01:50:00

Tool Information

Drill Pipe:	Length: 3596.00 ft	Diameter: 3.80 inches	Volume: 50.44 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 303.00 ft	Diameter: 2.25 inches	Volume: 1.49 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 51.93 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial lb
Depth to Top Packer:	3890.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.02 ft			
Tool Length:	100.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3871.00	
S.I. Tool	5.00			3876.00	
HMV	5.00			3881.00	
Packer	4.00			3885.00	20.00 Bottom Of Top Packer
Packer	5.00			3890.00	
Stubb	1.00			3891.00	
Perforations	2.00			3893.00	
C.O. Sub	1.00			3894.00	
Recorder	0.01	3017	Inside	3894.01	
Blank Spacing	62.00			3956.01	
C.O. Sub	1.00			3957.01	
Perforations	10.00			3967.01	
Recorder	0.01	13308	Outside	3967.02	
Bullnose	3.00			3970.02	80.02 Bottom Packers & Anchor

Total Tool Length: 100.02

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Wolf#1

250 N. Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14778

DST#: 4

ATTN: Pat Deenihan

Test Start: 2001.08.09 @ 01:50:00

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
915.00		10.075

Total Length: 915.00 ft Total Volume: 10.075 bbl

Num Fluid Samples: 0

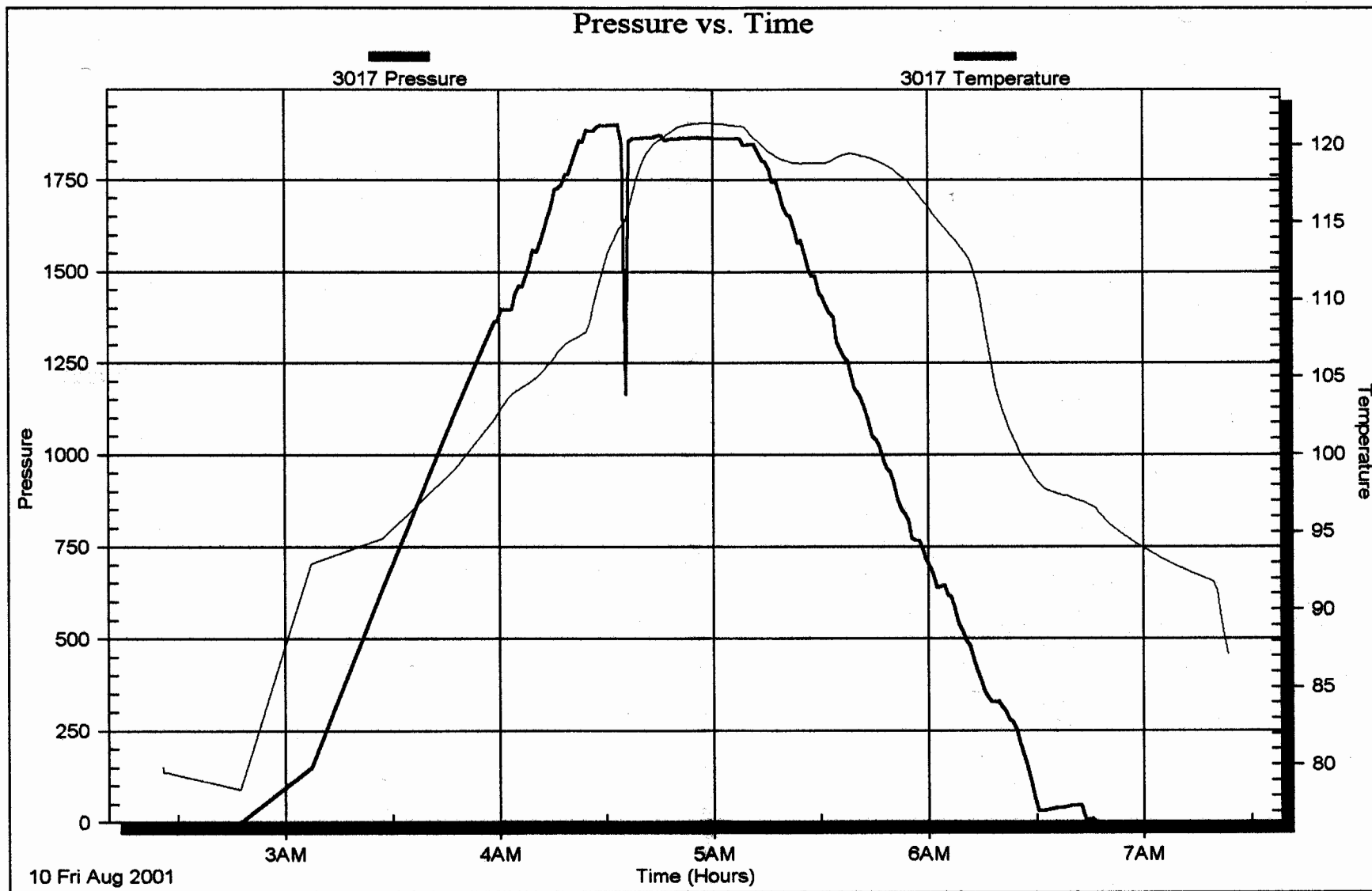
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water, #300
Wichita, KS 67202

ATTN: Pat Deenihan

Wolf#1

27-33s-1e Sumner KS

Job Ticket: 14779

DST#: 5

Test Start: 2001.08.09 @ 13:45:00

GENERAL INFORMATION:

Formation: **Simp.**

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

Time Tool Opened: **15:15:00**

Time Test Ended: **00:00:00**

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3820.00 ft (KB) To 3970.00 ft (KB) (TVD)**

Total Depth: **3970.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1270.00 ft (KB)**

1265.00 ft (CF)

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

Serial #: **3017**

Inside

Press@RunDepth: **psig @ 3947.01 ft (KB)**

Start Date: **2001.08.10**

End Date: **2001.08.10**

Capacity: **7000.00 psig**

Last Calib.: **2001.08.10**

Start Time: **13:17:20**

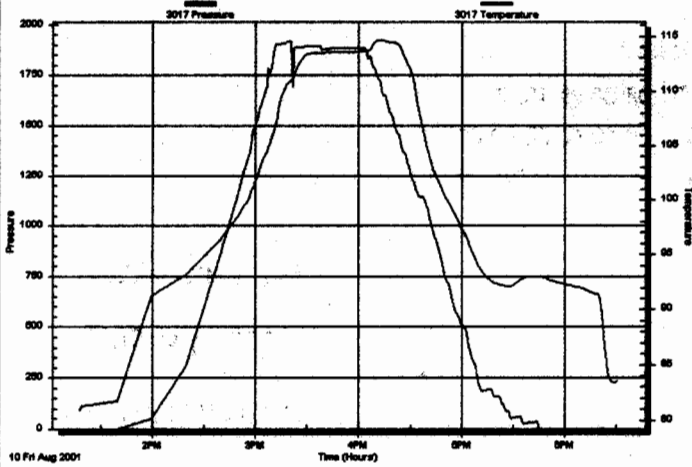
End Time: **18:31:49**

Time On Btm:

Time Off Btm:

TEST COMMENT: **Packer Failure Lost 20 to 25 Feet When Open**

Pressure vs. Time



PRESSURE SUMMARY

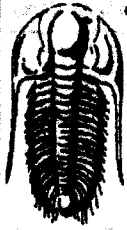
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
460.00	Mud	4.79

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

Wolf#1

250 N.Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14779

DST#: 5

ATTN: Pat Deenihan

Test Start: 2001.08.09 @ 13:45:00

Tool Information

Drill Pipe:	Length: 3626.00 ft	Diameter: 3.80 inches	Volume: 50.86 bbl	Tool Weight:	6000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 51.76 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3820.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	150.02 ft				
Tool Length:	170.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3801.00	
S.I. Tool	5.00			3806.00	
HMV	5.00			3811.00	
Packer	4.00			3815.00	20.00 Bottom Of Top Packer
Packer	5.00			3820.00	
Stubb	1.00			3821.00	
Perforations	4.00			3825.00	
C.O. Sub	1.00			3826.00	
Blank Spacing	120.00			3946.00	
C.O. Sub	1.00			3947.00	
Recorder	0.01	3017	Inside	3947.01	
Perforations	20.00			3967.01	
Recorder	0.01	13308	Outside	3967.02	
Bullnose	3.00			3970.02	150.02 Bottom Packers & Anchor

Total Tool Length: 170.02

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

Well#1

250 N.Water, #300
Wichita, KS 67202

27-33s-1e Sumner KS

Job Ticket: 14779

DST#: 5

ATTN: Pat Deenihan

Test Start: 2001.08.09 @ 13:45:00

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: 8.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
460.00	Mud	4.786

Total Length: 460.00 ft Total Volume: 4.786 bbl

Num Fluid Samples: 0

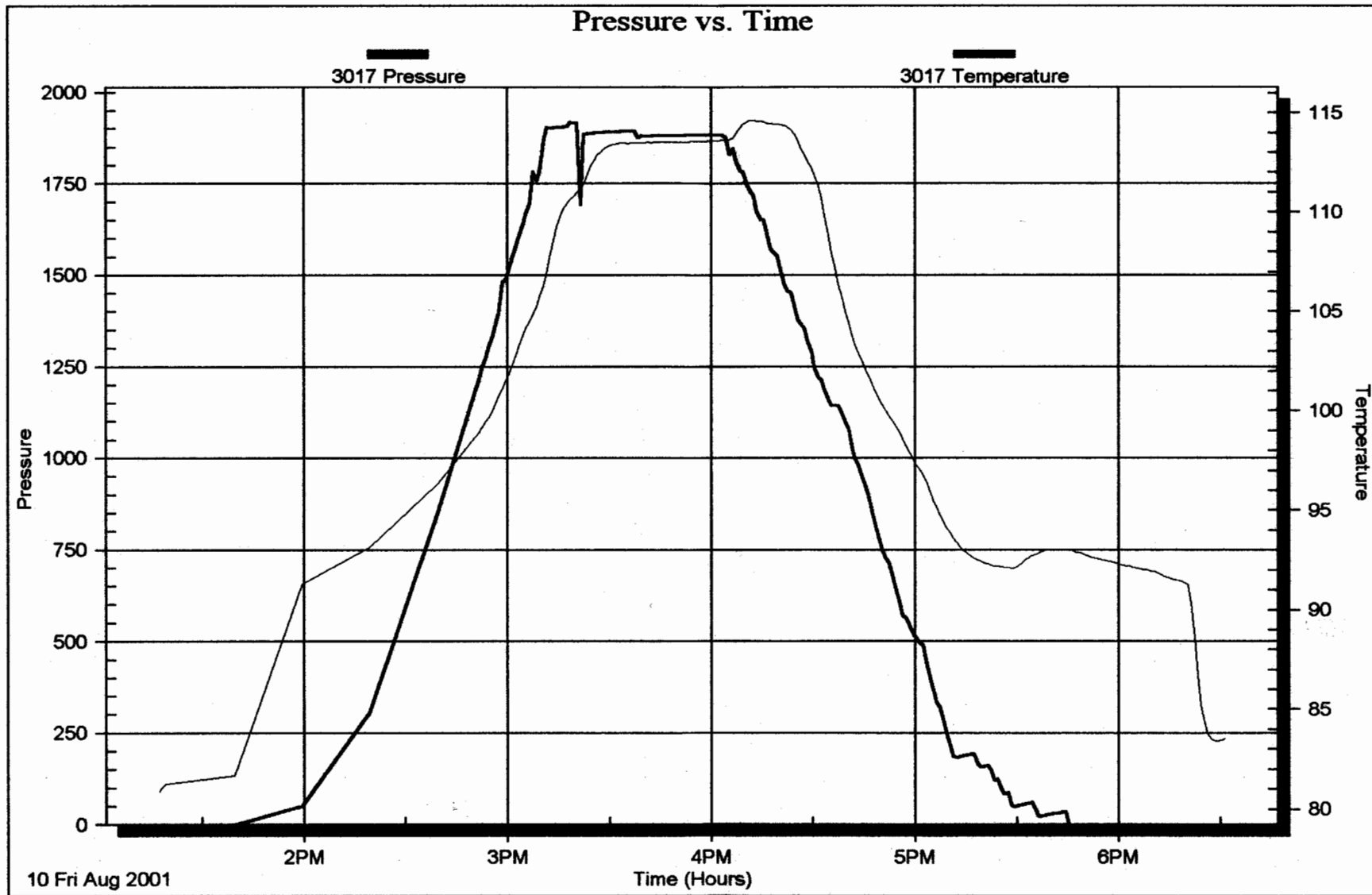
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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