

27-2S-42W

KCC

NOV 15 2005

CONFIDENTIAL CONFIDENTIAL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: Murfin Drilling Company Inc.

250 N. Water, Suite 300
Wichita, Ks 67202

ATTN: Paul Gunzelman

27-2s-42w Cheyenne

Robert 1-27

Start Date: 2005.07.31 @ 15:54:14

End Date: 2005.07.31 @ 22:55:49

Job Ticket #: 21293 DST #: 1

RECEIVED
NOV 17 2005
KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company Inc.

Robert 1-27

27-2s-42w Cheyenne

DST # 1

Lansing-D

2005.07.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

Robert 1-27

250 N. Water, Suite 300
Wichita, Ks 67202

27-2s-42w Cheyenne

Job Ticket: 21293

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2005.07.31 @ 15:54:14

Tool Information

Drill Pipe:	Length: 4046.00 ft	Diameter: 3.80 inches	Volume: 56.75 bbl	Tool Weight: 1500.00 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: 551.00 ft	Diameter: 2.25 inches	Volume: 2.71 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4605.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4582.00	
Shut In Tool	5.00			4587.00	
Hydraulic tool	5.00			4592.00	
Jars	5.00			4597.00	
Safety Joint	3.00			4600.00	
Packer	5.00		Fluid	4605.00	24.00 Bottom Of Top Packer
Packer - Shale	4.00			4609.00	
Stubb	1.00			4610.00	
Recorder	0.00	6772	Inside	4610.00	
Perforations	10.00			4620.00	
Change Over Sub	1.00			4621.00	
Drill Pipe	63.00			4684.00	
Change Over Sub	1.00			4685.00	
Recorder	0.00	7437	Inside	4685.00	
Bullnose	5.00			4690.00	85.00 Anchor Tool

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

Robert 1-27

250 N. Water, Suite 300
Wichita, Ks 67202

27-2s-42w Cheyenne

Job Ticket: 21293

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2005.07.31 @ 15:54:14

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100% _m	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 #: 6772

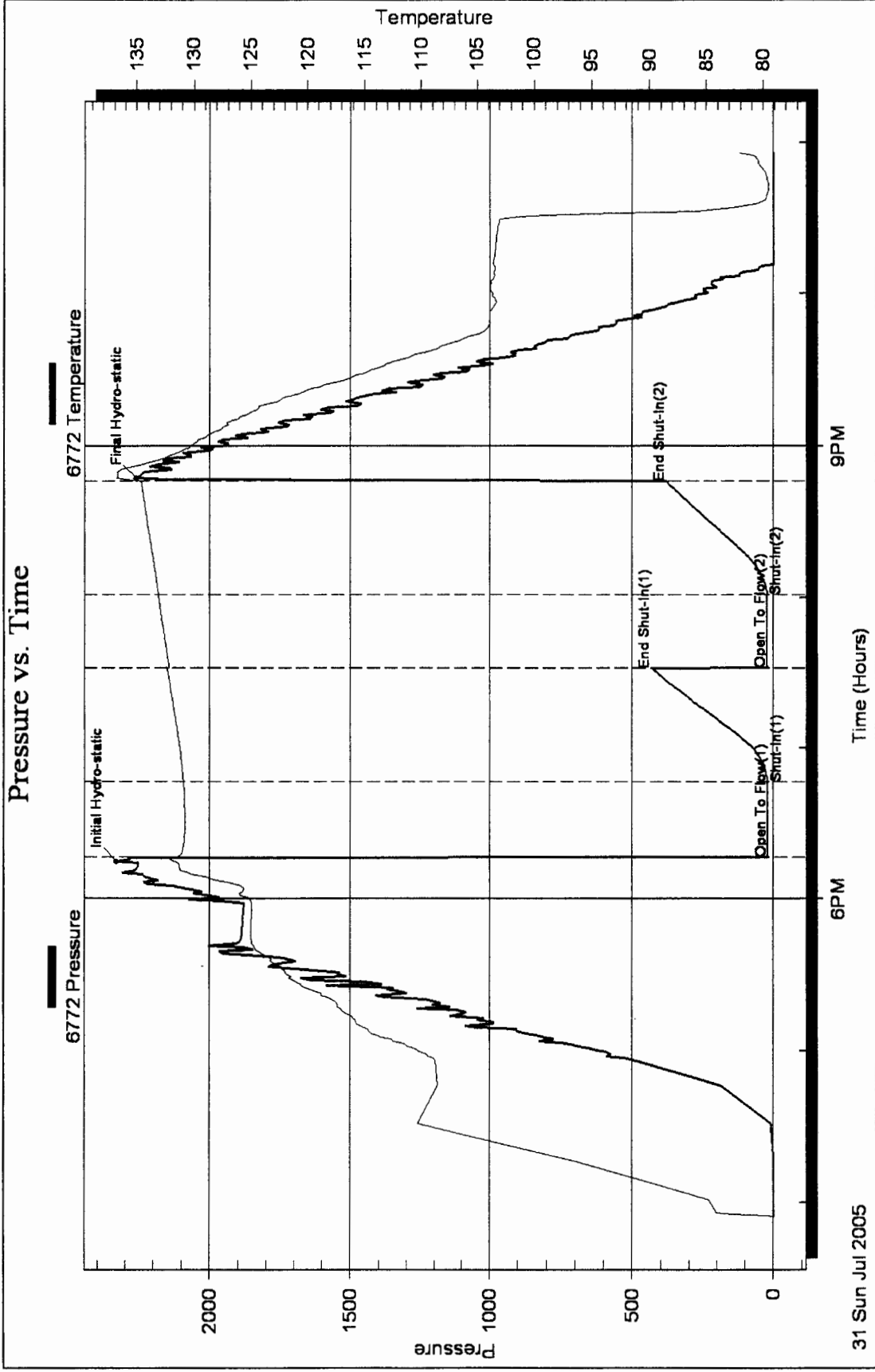
Inside

Murfin Drilling Company Inc.

27-2s-42w Cheyenne

DST Test Number: 1

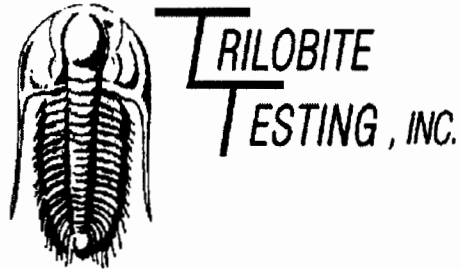
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 21293

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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water, Suite 300
Wichita, Ks 67202

ATTN: Paul Gunzelman

27-2s-42w Cheyenne

Robert 1-27

Start Date: 2005.08.01 @ 14:55:44

End Date: 2005.08.01 @ 23:51:03

Job Ticket #: 21294 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company Inc.

Robert 1-27

27-2s-42w Cheyenne

DST # 2

Lansing H-J

2005.08.01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

Robert 1-27

250 N. Water, Suite 300
Wichita, Ks 67202

27-2s-42w Cheyenne

ATTN: Paul Gunzelman

Job Ticket: 21294

DST#: 2

Test Start: 2005.08.01 @ 14:55:44

GENERAL INFORMATION:

Formation: **Lansing H-J**

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

Time Tool Opened: 16:57:49

Time Test Ended: 23:51:03

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 18

Interval: **4730.00 ft (KB) To 4817.00 ft (KB) (TVD)**

Total Depth: 4817.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3721.00 ft (KB)

3716.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 618.92 psig @ 4735.00 ft (KB)

Start Date: 2005.08.01

End Date:

2005.08.01

Start Time: 14:55:44

End Time:

23:51:03

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2005.08.01 @ 16:56:19

Time Off Btm: 2005.08.01 @ 20:44:19

TEST COMMENT:

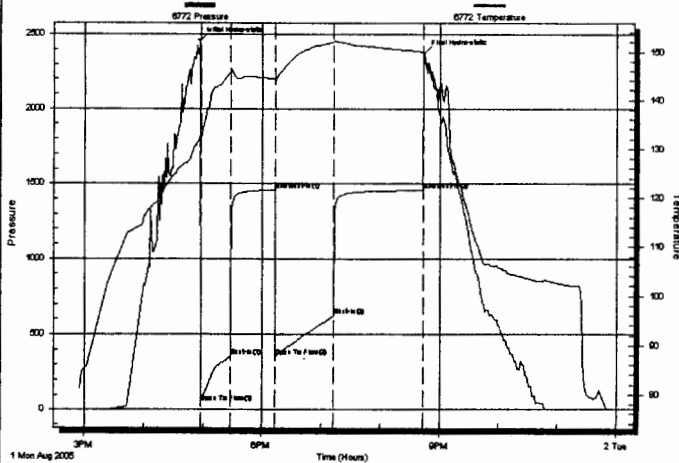
IF: 1/4 blow BOB in 8 min.

IS: Surface blow that never built.

FF: 1/4 blow BOB in 10 min.

FS: Surface blow built to 2 in 90 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2459.55	132.49	Initial Hydro-static
2	48.66	132.18	Open To Flow (1)
32	350.25	145.63	Shut-In(1)
77	1456.85	144.39	End Shut-In(1)
77	354.81	143.73	Open To Flow (2)
137	618.92	151.97	Shut-In(2)
227	1455.62	149.95	End Shut-In(2)
228	2376.38	149.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
551.00	mcw 80%w 20%m	2.71
183.00	omcw 10%o 60%w 30%m	2.57
248.00	w com 10%o 10%w 80%m	3.48
248.00	ocm 10%o 90%m	3.48
124.00	oil 100%o	1.74

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

Robert 1-27

250 N. Water, Suite 300
Wichita, Ks 67202

27-2s-42w Cheyenne

Job Ticket: 21294

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2005.08.01 @ 14:55:44

Tool Information

Drill Pipe:	Length: 4167.00 ft	Diameter: 3.80 inches	Volume: 58.45 bbl	Tool Weight: 1500.00 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: 551.00 ft	Diameter: 2.25 inches	Volume: 2.71 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4730.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4707.00	
Shut In Tool	5.00			4712.00	
Hydraulic tool	5.00			4717.00	
Jars	5.00			4722.00	
Safety Joint	3.00			4725.00	
Packer	5.00		Fluid	4730.00	24.00 Bottom Of Top Packer
Packer - Shale	4.00			4734.00	
Stubb	1.00			4735.00	
Recorder	0.00	6772	Inside	4735.00	
Perforations	16.00			4751.00	
Change Over Sub	1.00			4752.00	
Drill Pipe	63.00			4815.00	
Change Over Sub	1.00			4816.00	
Recorder	0.00	7437	Inside	4816.00	
Bullnose	5.00			4821.00	91.00 Anchor Tool

Total Tool Length: 115.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

Robert 1-27

250 N. Water, Suite 300
Wichita, Ks 67202

27-2s-42w Cheyenne

Job Ticket: 21294

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2005.08.01 @ 14:55:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

13000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
551.00	mcw 80%w 20%m	2.710
183.00	omcw 10%o 60%w 30%m	2.567
248.00	w com 10%o 10%w 80%m	3.479
248.00	ocm 10%o 90%m	3.479
124.00	oil 100%o	1.739

Total Length: 1354.00 ft

Total Volume: 13.974 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

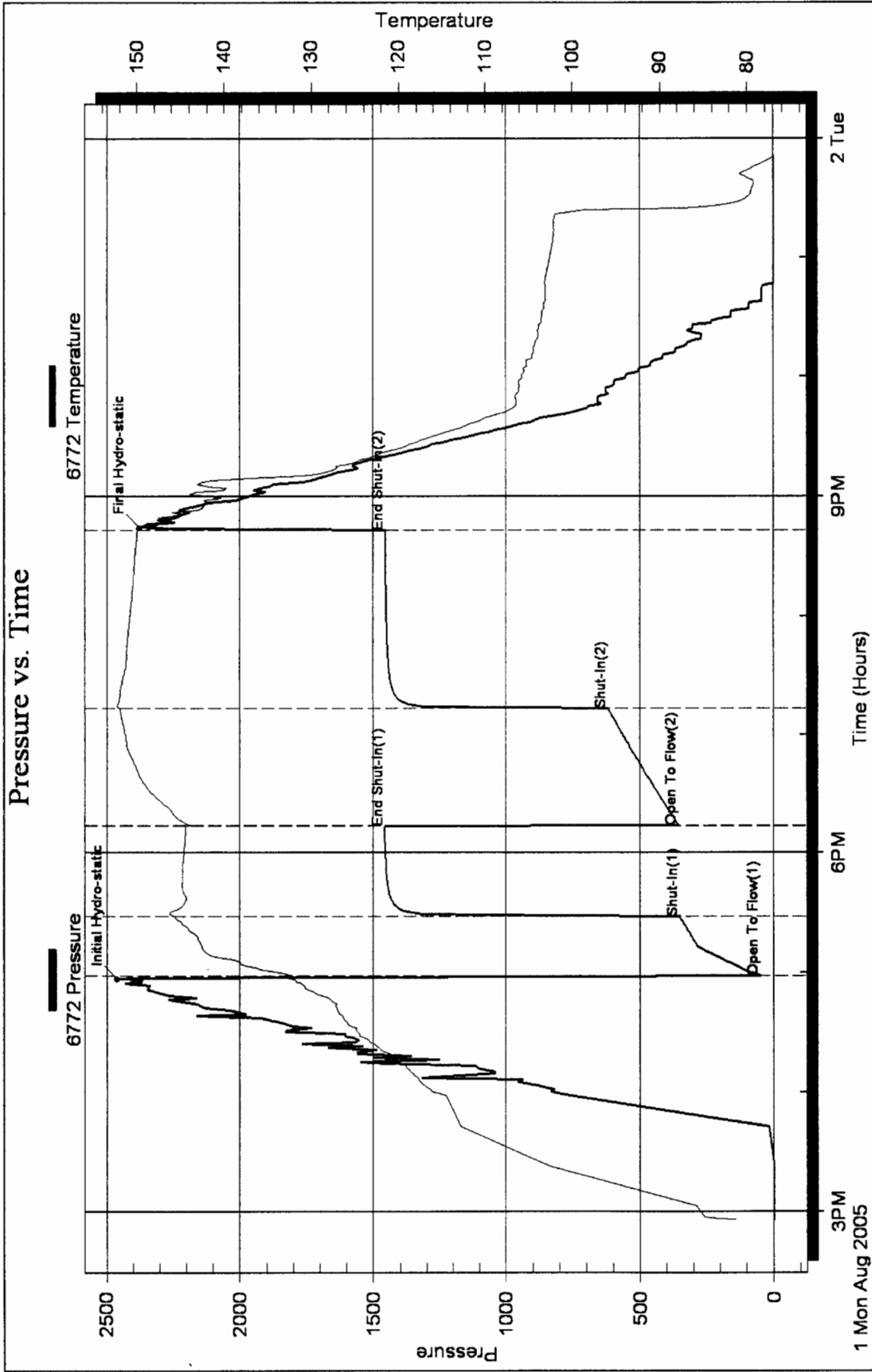
Inside

Murfin Drilling Company Inc.

27-2s-42w Cheyenne

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 21294

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

Robert 1-27

250 N. Water, Suite 300
Wichita, Ks 67202

27-2s-42w Cheyenne

Job Ticket: 21295

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2005.08.01 @ 14:55:44

Tool Information

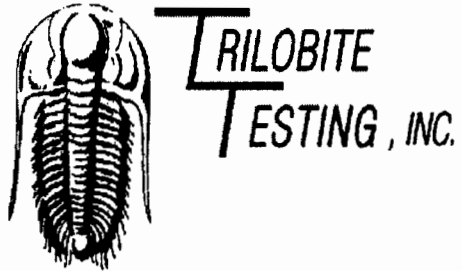
Drill Pipe:	Length: 4293.00 ft	Diameter: 3.80 inches	Volume: 60.22 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 551.00 ft	Diameter: 2.25 inches	Volume: 2.71 bbl	Weight to Pull Loose: 90000.00 lb
		<u>Total Volume: 62.93 bbl</u>		Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4856.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

IH: 2649 FF: 11 FS: 22 IS: 33
SIF: 22 SFF: 33 FSI: 33 FH:2324

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4833.00		
Shut In Tool	5.00			4838.00		
Hydraulic tool	5.00			4843.00		
Jars	5.00			4848.00		
Safety Joint	3.00			4851.00		
Packer	5.00		Fluid	4856.00	24.00	Bottom Of Top Packer
Packer - Shale	4.00			4860.00		
Stubb	1.00			4861.00		
Recorder	0.00	6772	Inside	4861.00		
Perforations	5.00			4866.00		
Recorder	0.00	7437	Inside	4866.00		
Bullnose	5.00			4871.00	15.00	Anchor Tool

Total Tool Length: 39.00



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc.**

250 N. Water, Suite 300
Wichita, Ks 67202

ATTN: Paul Gunzelman

27-2s-42w Cheyenne

Robert 1-27

Start Date: 2005.08.01 @ 14:55:44

End Date: 2005.08.01 @ 23:51:04

Job Ticket #: 21295 DST #: 3

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

Robert 1-27

250 N. Water, Suite 300
Wichita, Ks 67202

27-2s-42w Cheyenne

Job Ticket: 21295

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2005.08.01 @ 14:55:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100% _m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

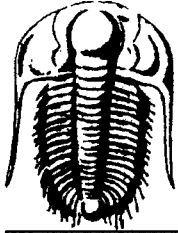
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT
 Murfin Drilling Co
 250 N Water Ste 300
 Wichita KS 67202

Well name#:	Robert 1-27	Date:	8/2/2005
Location#:	27-2S-42W Cheyenne Co Kansas	Ticket #:	21295
		DST#:	3

General Informaion:

Formation:	Lansing K	Test Type:	Conventional	BHT:	
Interval:	4856-4867	Tester:	Brandon Turley	OIL API:	
Total Depth:	4867	Elevation:	3721 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		3716 ft(CF)		
Start Data:		Tool Weight:	1500	Mud Type:	Chemical
Start Time:	10:13:00	Weight Set on Packers:	25000	Mud Weight:	9.3
Time tool opened:	12:00:00	Weight to Pull Loose:	90000	Viscosity:	55
Time Off Btm:	14:30:00	Initial String Weight:	72000	Water Loss:	6.4
End Date:	8/2/05	Final String Weight:	72000	Resistivity:	
End Time:	16:25:00	Drill Pipe Length:	4293	Salinity:	800
		Drill Collar Length:			
		Wt. Pipe Length:			

Test Comment:	IF: Surface blow died in 10 min. ISI: No return. FF: No blow. FSI: No return.
Recovery Length(ft):	3 Mud

Gas Volume Report

Recorder #:	7347	Min:	Ins. Of water PSIG	Orifice size	MCF/D
Pressure Summary:	2649	Time:(min)			
Initial Hydro-static:	2649				
Open to Flow (1):	11	30			
Shut-in (1):	22	45			
End Shut-in (1):	33				
Open to Flow (2):	22	30			
Shut-in (2):	33	45			
End Shut-in (2):	33				
Final Hydro-static:	2324				

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

