

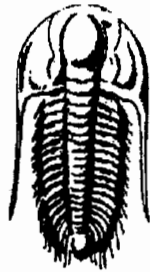
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KCC

OCT 9 1 2005

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co

21-6-26 Sheridan, Ks

Mauck #1-21

Start Date: 2005.08.29 @ 19:30:34

End Date: 2005.08.30 @ 03:30:03

Job Ticket #: 22531

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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KCC WICHITA

Murfin Drilling Co

Mauck #1-21

21-6-26 Sheridan, Ks

DST # 1

L KCC-C-D

2005.08.29

W05-20-12


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co

Mauck #1-21

21-6-26 Sheridan, Ks

Job Ticket: 22531

DST#: 1

Test Start: 2005.08.29 @ 19:30:34

GENERAL INFORMATION:

Formation: L KC C-D

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:41:18

Time Test Ended: 03:30:03

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: 3781.00 ft (KB) To 3825.00 ft (KB) (TVD)

Total Depth: 3825.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2651.00 ft (KB)

2646.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 95.97 psig @ 3782.00 ft (KB)

Start Date: 2005.08.29

End Date:

2005.08.30

Start Time: 19:30:34

End Time:

03:20:03

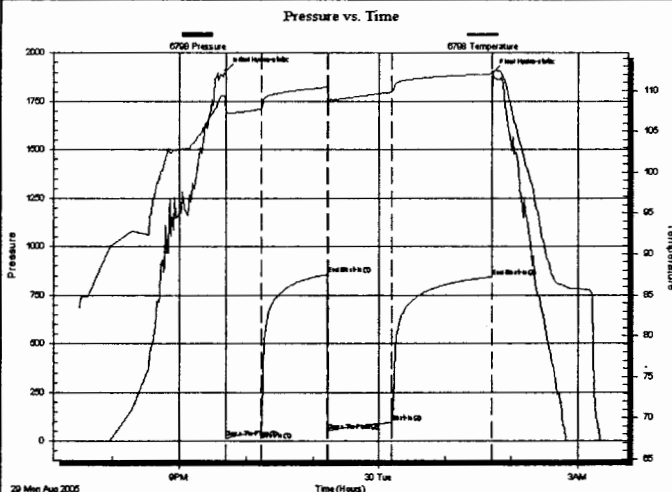
Capacity: 7000.00 psig

Last Calib.: 2005.08.30

Time On Btm: 2005.08.29 @ 21:41:03

Time Off Btm: 2005.08.30 @ 01:43:33

TEST COMMENT: Surface blow built to 2" in
 No return
 Surface blow in 6 min. built to 1/2" in
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.28	109.33	Initial Hydro-static
1	14.28	106.90	Open To Flow (1)
32	49.88	107.78	Shut-In(1)
92	856.60	110.42	End Shut-In(1)
93	51.91	108.89	Open To Flow (2)
151	95.97	109.82	Shut-In(2)
242	843.26	112.02	End Shut-In(2)
243	1896.92	112.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	m c w 40% m 60% w	0.60

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfine Drilling Co

Mauck #1-21

250 N Water Suite 300
Wichita, Ks 67202

21-6-26 Sheridan, Ks

Job Ticket: 22531

DST#: 1

ATTN: Murfine Drilling Co

Test Start: 2005.08.29 @ 19:30:34

Tool Information

Drill Pipe:	Length:	3299.00 ft	Diameter:	3.80 inches	Volume:	46.28 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:	493.00 ft	Diameter:	2.25 inches	Volume:	2.42 bbl	Weight to Pull Loose:	75000.00 lb		
						Total Volume:	48.70 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	31.00 ft								String Weight: Initial	60000.00 lb
Depth to Top Packer:	3781.00 ft								Final	60000.00 lb
Depth to Bottom Packer:	ft									
Interval between Packers:	44.00 ft									
Tool Length:	64.00 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			3762.00	
Shut In Tool	5.00			3767.00	
Hydraulic tool	5.00			3772.00	
Packer	5.00			3777.00	20.00 Bottom Of Top Packer
Packer	4.00			3781.00	
Stubb	1.00			3782.00	
Recorder	0.00	6798	Inside	3782.00	
Perforations	5.00			3787.00	
Change Over Sub	1.00			3788.00	
Drill Pipe	31.00			3819.00	
Change Over Sub	1.00			3820.00	
Recorder	0.00	11058	Outside	3820.00	
Bullnose	5.00			3825.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Mauck #1-21

250 N Water Suite 300
Wichita, Ks 67202

21-6-26 Sheridan, Ks

Job Ticket: 22531

DST#: 1

ATTN: Murfin Drilling Co

Test Start: 2005.08.29 @ 19:30:34

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:

22500 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in*

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	m c w 40% m 60% w	0.600

Total Length: 122.00 ft

Total Volume: 0.600 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: r w .315 @ 71* f 22,500 chlor

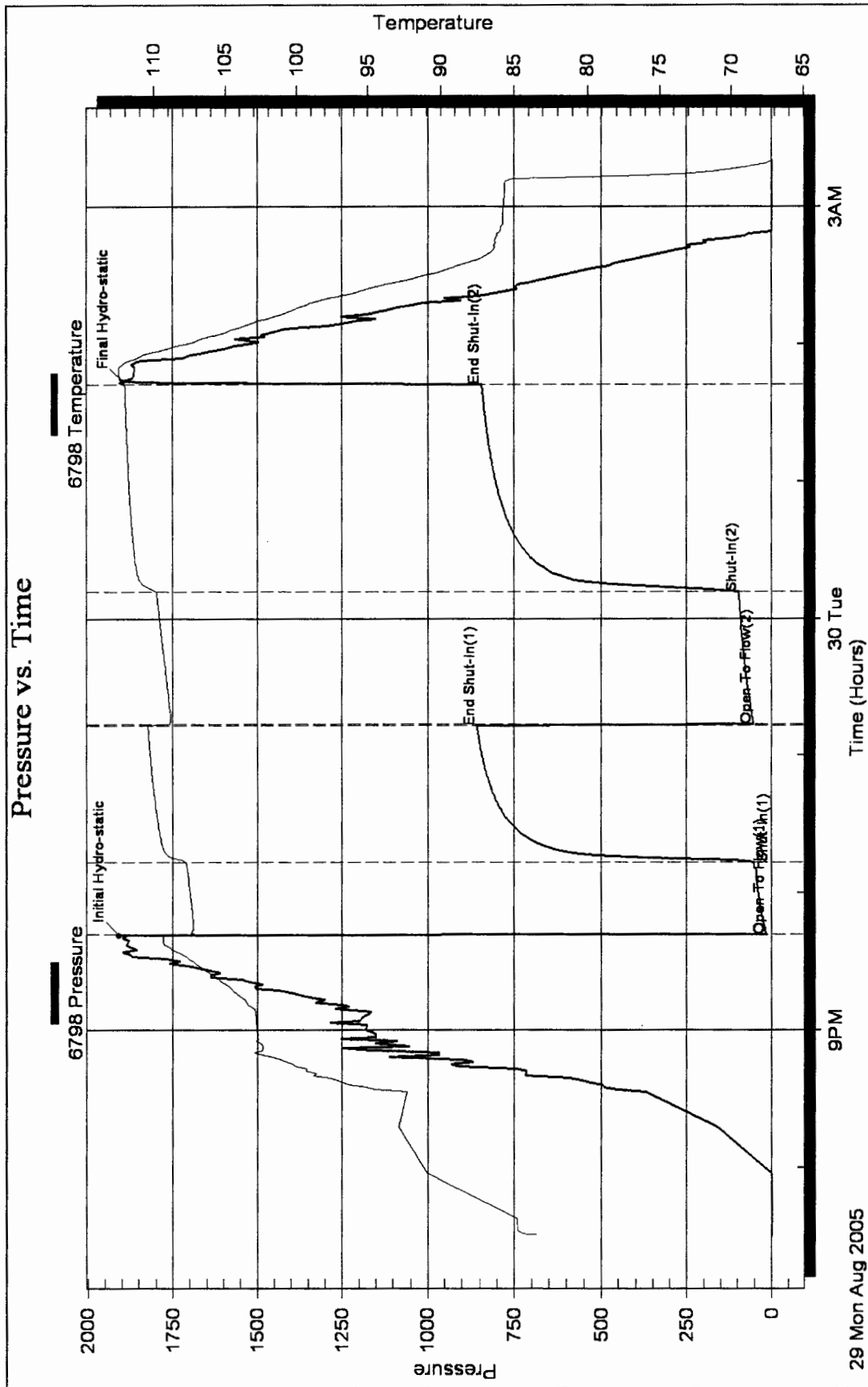
Serial #: 6798

Inside

Murfin Drilling Co

21-6-26 Sheridan, Ks

DST Test Number: 1



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Robb Testing, Inc

Ref. No: 22531

Printed: 2005.09.12 @ 10:23:53 Page 5



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co

21-6-26 Sheridan, Ks

Mauck #1-21

Start Date: 2005.08.30 @ 17:13:20

End Date: 2005.08.31 @ 00:25:34

Job Ticket #: 22532 DST #: 2

Trilobite Testing, Inc

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Murfin Drilling Co

Mauck #1-21

21-6-26 Sheridan, Ks

DST # 2

L KC F-H

2005.08.30



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co

Mauck #1-21

21-6-26 Sheridan, Ks

Job Ticket: 22532

DST#: 2

Test Start: 2005.08.30 @ 17:13:20

GENERAL INFORMATION:

Formation: L KC F-H

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:54:34

Time Test Ended: 00:25:34

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 25

Interval: 3823.00 ft (KB) To 3910.00 ft (KB) (TVD)

Total Depth: 3910.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2651.00 ft (KB)

2646.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 72.16 psig @ 3824.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.08.30

End Date: 2005.08.31

Last Calib.: 2005.08.31

Start Time: 17:13:20

End Time: 00:11:34

Time On Btm: 2005.08.30 @ 18:54:04

Time Off Btm: 2005.08.30 @ 22:28:19

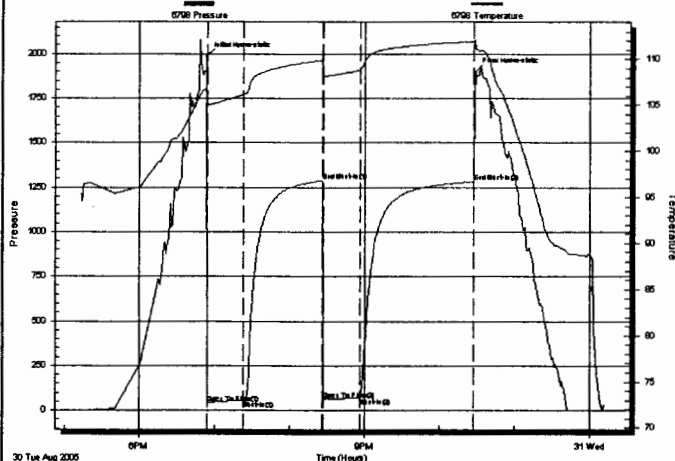
TEST COMMENT: Slide tool 4' to bottom 1" in blow @ open built to 1 1/4" in 13 min. died back to 1/4" in

No return

No blow

No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1987.77	106.77	Initial Hydro-static
1	41.40	105.08	Open To Flow (1)
30	56.30	106.19	Shut-In(1)
92	1287.60	109.88	End Shut-In(1)
93	61.66	108.23	Open To Flow (2)
122	72.16	108.82	Shut-In(2)
214	1281.96	111.94	End Shut-In(2)
215	1899.71	111.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	mud 100% m	0.32

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co

Mauck #1-21

21-6-26 Sheridan, Ks

Job Ticket: 22532

DST#: 2

Test Start: 2005.08.30 @ 17:13:20

Tool Information

Drill Pipe:	Length: 3330.00 ft	Diameter: 3.80 inches	Volume: 46.71 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: 493.00 ft	Diameter: 2.25 inches	Volume: 2.42 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 49.13 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	3823.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	87.00 ft				
Tool Length:	107.00 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			3804.00	
Shut In Tool	5.00			3809.00	
Hydraulic tool	5.00			3814.00	
Packer	5.00			3819.00	20.00 Bottom Of Top Packer
Packer	4.00			3823.00	
Stubb	1.00			3824.00	
Recorder	0.00	6798	Inside	3824.00	
Perforations	16.00			3840.00	
Change Over Sub	1.00			3841.00	
Drill Pipe	63.00			3904.00	
Change Over Sub	1.00			3905.00	
Recorder	0.00	11058	Outside	3905.00	
Bullnose	5.00			3910.00	87.00 Bottom Packers & Anchor

Total Tool Length: 107.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Mauck #1-21

250 N Water Suite 300
Wichita, Ks 67202

21-6-26 Sheridan, Ks

Job Ticket: 22532

DST#: 2

ATTN: Murfin Drilling Co

Test Start: 2005.08.30 @ 17:13:20

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:

1000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	mud 100% m	0.320

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

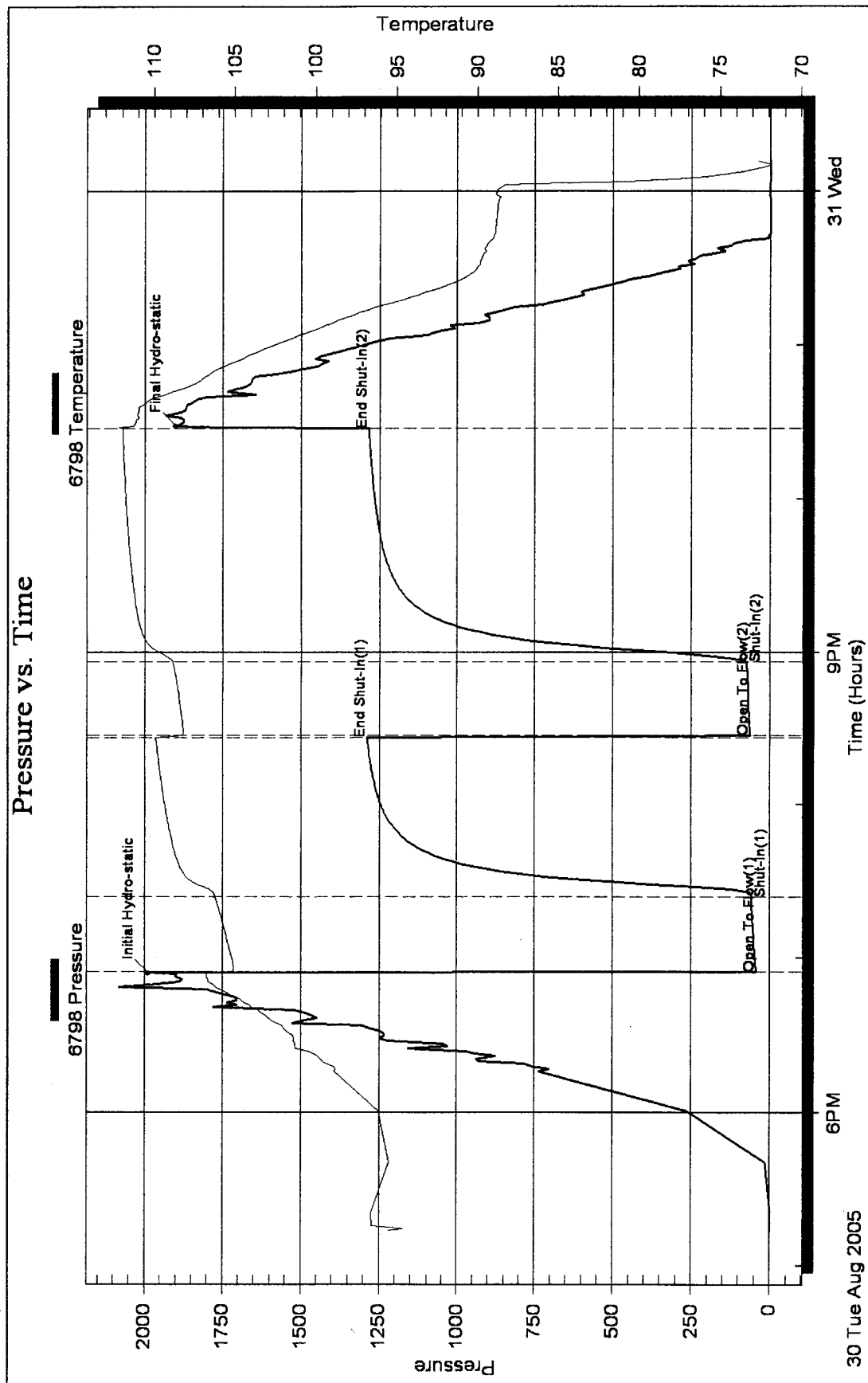
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co

21-6-26 Sheridan, Ks

Mauck #1-21

Start Date: 2005.08.31 @ 07:20:20

End Date: 2005.08.31 @ 15:25:49

Job Ticket #: 22533 DST #: 3

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

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Murfin Drilling Co

Mauck #1-21

21-6-26 Sheridan, Ks

DST # 3

L KCC "J"

2005.08.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co

Mauck #1-21

21-6-26 Sheridan, Ks

Job Ticket: 22533

DST#: 3

Test Start: 2005.08.31 @ 07:20:20

GENERAL INFORMATION:

Formation: **L KC "J"**

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

Time Tool Opened: 09:15:49

Time Test Ended: 15:25:49

Test Type: **Conventional Bottom Hole**

Tester: **Shane McBride**

Unit No: **25**

Interval: **3907.00 ft (KB) To 3941.00 ft (KB) (TVD)**

Total Depth: **3941.00 ft (KB) (TVD)**

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

Reference Elevations: **2651.00 ft (KB)**

2646.00 ft (CF)

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

Serial #: 6798

Inside

Press@RunDepth: **160.92 psig @ 3908.00 ft (KB)**

Start Date: **2005.08.31**

End Date: **2005.08.31**

Start Time: **07:20:20**

End Time: **15:12:49**

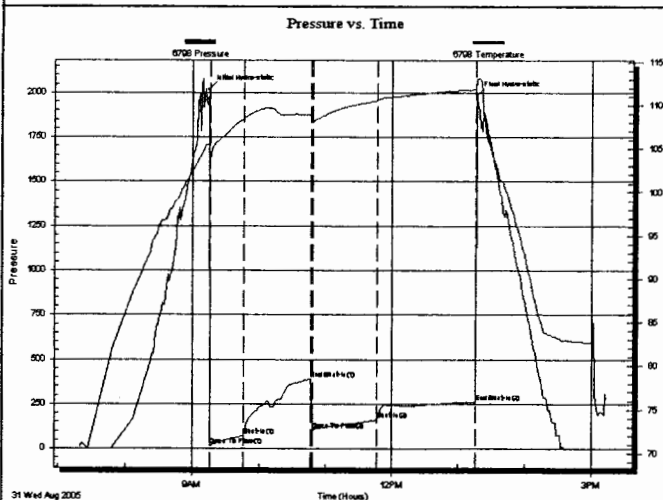
Capacity: **7000.00 psig**

Last Calib.: **2005.08.31**

Time On Btm: **2005.08.31 @ 09:15:19**

Time Off Btm: **2005.08.31 @ 13:16:19**

TEST COMMENT: 1/4" in. @ open built to B.O.B. in 19 min.
Bleed off for 2 1/2 min. return blow in 2 min. built to 2 1/2" in.
2" in. @ open, B.O.B. in 23 min.
Bleed off for 2 min. return blow in 2 min. built to 2" in



PRESSURE SUMMARY

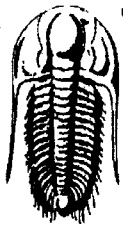
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2020.34	105.49	Initial Hydro-static
1	16.09	103.47	Open To Flow (1)
32	72.64	108.51	Shut-In (1)
92	389.59	108.95	End Shut-In (1)
93	103.31	108.01	Open To Flow (2)
152	160.92	110.55	Shut-In (2)
241	260.81	111.86	End Shut-In (2)
241	1990.18	112.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	g m c o 35g 35o 30o	0.64
427.00	c g o 20g 80o	2.16

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

250 N Water Suite 300
Wichita, Ks 67202

ATTN: Murfin Drilling Co

Mauck #1-21

21-6-26 Sheridan, Ks

Job Ticket: 22533

DST#: 3

Test Start: 2005.08.31 @ 07:20:20

Tool Information

Drill Pipe:	Length: 3368.00 ft	Diameter: 3.80 inches	Volume: 47.24 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: 550.00 ft	Diameter: 2.25 inches	Volume: 2.70 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume:	49.94 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3907.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3888.00	
Shut In Tool	5.00			3893.00	
Hydraulic tool	5.00			3898.00	
Packer	5.00			3903.00	20.00 Bottom Of Top Packer
Packer	4.00			3907.00	
Stubb	1.00			3908.00	
Recorder	0.00	6798	Inside	3908.00	
Perforations	28.00			3936.00	
Recorder	0.00	11058	Outside	3936.00	
Bullnose	5.00			3941.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Mauck #1-21

250 N Water Suite 300
Wichita, Ks 67202

21-6-26 Sheridan, Ks

Job Ticket: 22533

DST#: 3

ATTN: Murfin Drilling Co

Test Start: 2005.08.31 @ 07:20:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

1100 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	g m c o 35g 35o 30o	0.639
427.00	c g o 20g 80o	2.164

Total Length: 557.00 ft

Total Volume: 2.803 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

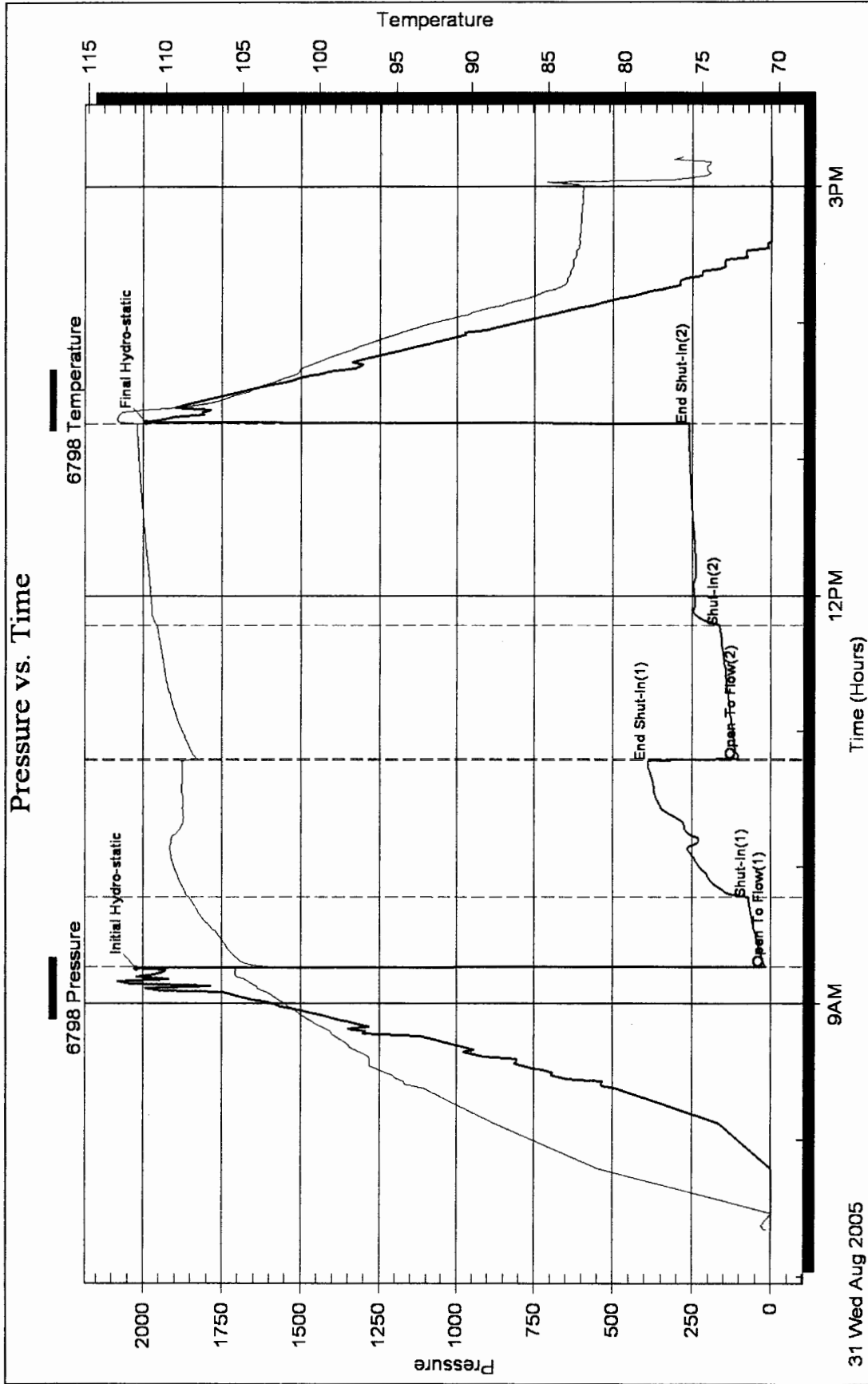
Inside

Murfin Drilling Co

21-6-26 Sheridan, Ks

DST Test Number: 3

Pressure vs. Time



Tri-Metric Testing, Inc

Ref. No: 22533

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