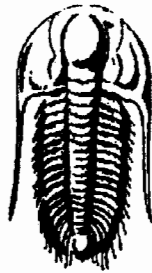


15-179-21126

CONFIDENTIAL

ORIGINAL



**TRILOBITE
TESTING, INC.**

KCC
APR 28 2005
CONFIDENTIAL

DRILL STEM TEST REPORT

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

250 N. Water Ste. #300
Wichita KS. 67202

ATTN: Paul Gunzelman

28-6S-26W Sheridan

Stowell #1-28

Start Date: 2005.02.26 @ 03:01:59

End Date: 2005.02.26 @ 10:22:29

Job Ticket #: 20437 DST #: 1

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

Murfin Drilling Company Inc.

Stowell #1-28

28-6S-26W Sheridan

DST # 1

L/KC "B-E"

2005.02.26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company Inc.

Stowell #1-28

250 N. Water Ste. #300
Wichita KS. 67202

28-6S-26W Sheridan

ATTN: Paul Gunzelman

Job Ticket: 20437

DST#: 1

Test Start: 2005.02.26 @ 03:01:59

GENERAL INFORMATION:

Formation: **L/KC¹B-E'**

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

Time Tool Opened: 04:39:14

Time Test Ended: 10:22:29

Test Type: **Conventional Bottom Hole**

Tester: **Rod Steinbrink**

Unit No: **22**

Interval: **3786.00 ft (KB) To 3850.00 ft (KB) (TVD)**

Total Depth: **3850.00 ft (KB) (TVD)**

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

Reference Elevations: **2645.00 ft (KB)**

2640.00 ft (CF)

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

Serial #: 6798

Inside

Press@RunDepth: **223.56 psig @ 3787.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.02.26**

End Date: **2005.02.26**

Last Calib.: **1899.12.30**

Start Time: **03:02:04**

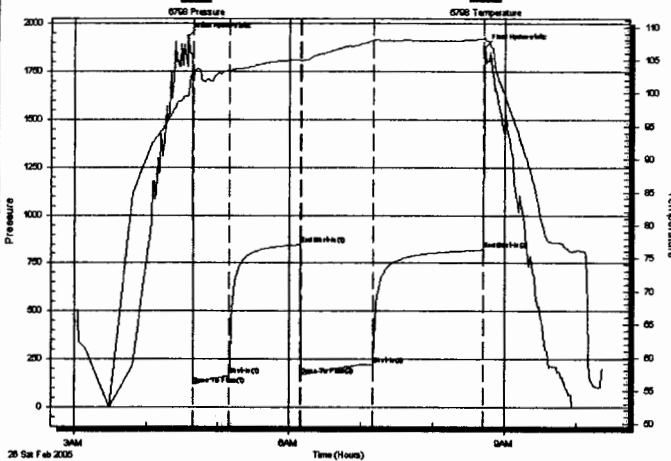
End Time: **10:22:28**

Time On Btm: **2005.02.26 @ 04:34:44**

Time Off Btm: **2005.02.26 @ 08:42:44**

TEST COMMENT: IF; Fluid Dropped at open questioned pkr seat / reset tool - picked up 3" blow built to 7"
IS; No blow Lost same amount of fluid as open
FF; Surface return built to 2"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1930.35	99.58	Initial Hydro-static
5	118.39	102.16	Open To Flow (1)
35	164.17	103.35	Shut-In(1)
95	846.73	105.06	End Shut-In(1)
96	167.14	104.91	Open To Flow (2)
156	223.56	107.94	Shut-In(2)
248	820.29	108.20	End Shut-In(2)
248	1873.59	108.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCW 85%w 15%rn	0.89
255.00	Drig. Mud	1.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

Stowell #1-28

250 N. Water Ste. #300
Wichita KS. 67202

28-6S-26W Sheridan

Job Ticket: 20437

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2005.02.26 @ 03:01:59

Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.80 inches	Volume: 47.13 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: 430.00 ft	Diameter: 2.25 inches	Volume: 2.11 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3786.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3770.00	
Hydraulic tool	5.00			3775.00	
Safety Joint	2.00			3777.00	
Packer	5.00			3782.00	21.00 Bottom Of Top Packer
Packer	4.00			3786.00	
Stubb	1.00			3787.00	
Recorder	0.00	6798	Inside	3787.00	
Perforations	25.00			3812.00	
Change Over Sub	1.00			3813.00	
Anchor	31.00			3844.00	
Change Over Sub	1.00			3845.00	
Recorder	0.00	13309	Outside	3845.00	
Bullnose	5.00			3850.00	64.00 Bottom Packers & Anchor

Total Tool Length: 85.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

Stowell #1-28

250 N. Water Ste. #300
Wichita KS. 67202

28-6S-26W Sheridan

Job Ticket: 20437

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2005.02.26 @ 03:01:59

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:

60000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MCW 85%w 15%m	0.885
255.00	Drig. Mud	1.300

Total Length: 435.00 ft Total Volume: 2.185 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.13 @ 70 Deg = 60,000 Chlorides

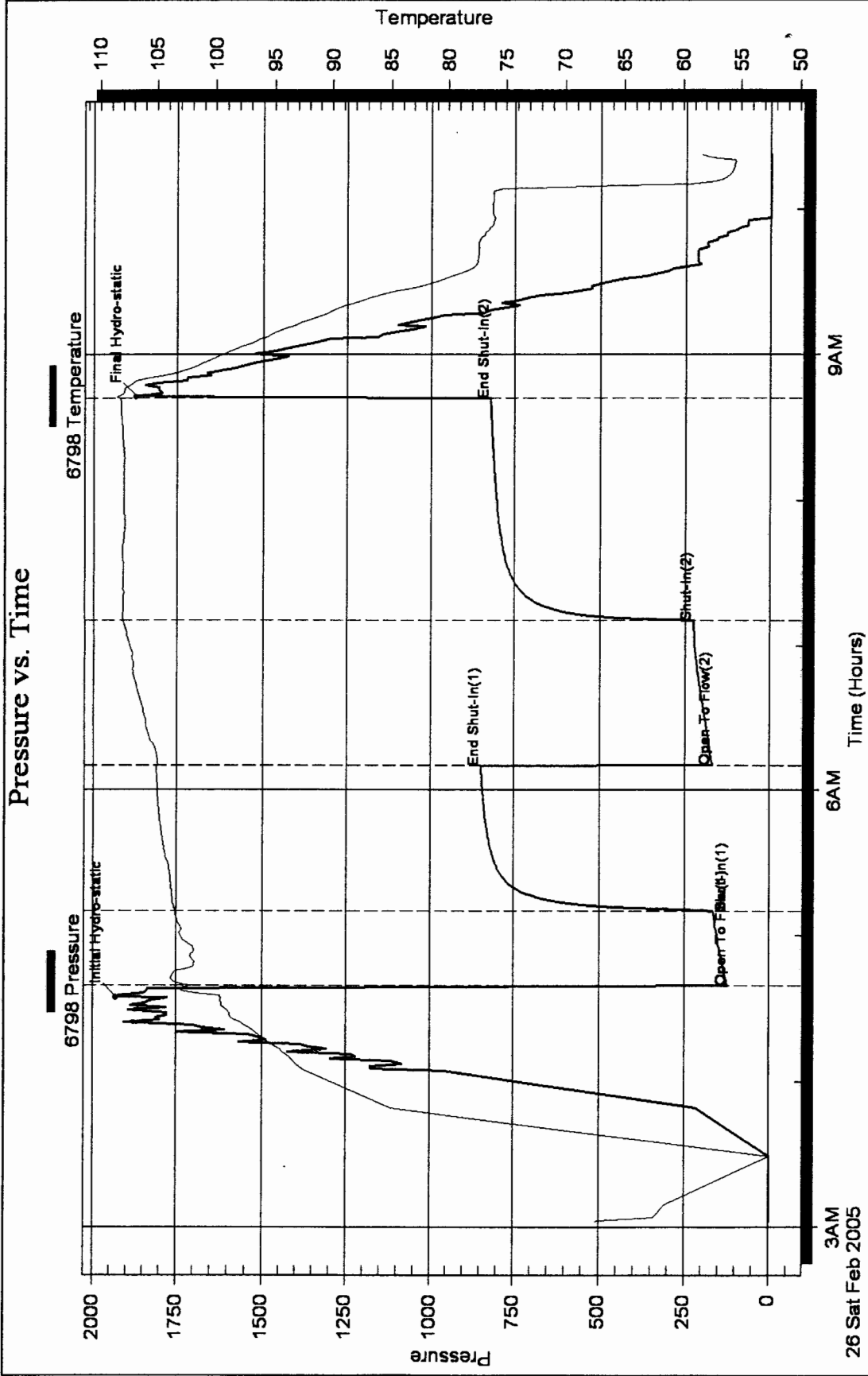
Serial #: 6798

Inside

Murfin Drilling Company Inc.

28-6S-26W Sheridan

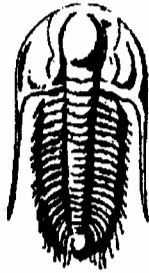
DST Test Number: 1



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Trilobite Testing, Inc

Ref. No: 20437



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N. Water Ste. #300
Wichita KS. 67202

ATTN: Paul Gunzelman

28-6S-26W Sheridan

Stowell #1-28

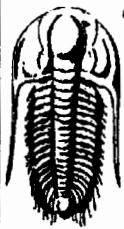
Start Date: 2005.02.26 @ 21:46:01

End Date: 2005.02.27 @ 05:37:26

Job Ticket #: 20438 DST #: 2

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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 Company Inc.
250 N. Water Ste. #300
Wichita KS. 67202
ATTN: Paul Gunzelman

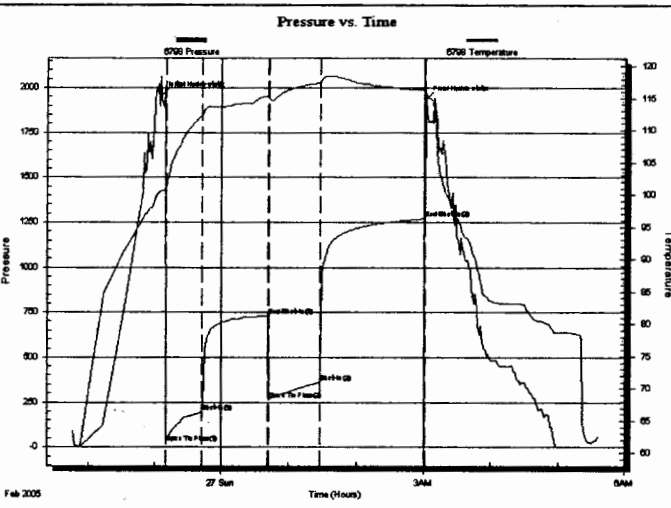
Stowell #1-28
28-6S-26W Sheridan
Job Ticket: 20438 **DST#: 2**
Test Start: 2005.02.26 @ 21:46:01

GENERAL INFORMATION:

Formation: **L/KC "I"**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: **23:09:56**
Time Test Ended: **05:37:26**
Test Type: **Conventional Bottom Hole**
Tester: **Rod Steinbrink**
Unit No: **22**
Interval: **3908.00 ft (KB) To 3937.00 ft (KB) (TVD)**
Reference Elevations: **2645.00 ft (KB)**
Total Depth: **3937.00 ft (KB) (TVD)**
2640.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Good**
KB to GR/CF: **5.00 ft**

Serial #: 6798 **Inside**
Press@RunDepth: **362.19 psig @ 3909.00 ft (KB)**
Capacity: **7000.00 psig**
Start Date: **2005.02.26** End Date: **2005.02.27**
Last Calib.: **1899.12.30**
Start Time: **21:46:01** End Time: **05:37:25**
Time On Btm: **2005.02.26 @ 23:05:41**
Time Off Btm: **2005.02.27 @ 03:01:10**

TEST COMMENT: IF; Fair to strong off btm in 5 mins
IS; Fair return off btm in 7 mins
FF; Fair to strong off btm in 5 mins
FS; Fair return off btm in 10 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1957.33	100.63	Initial Hydro-static
5	23.08	100.06	Open To Flow (1)
37	195.35	112.38	Shut-In(1)
96	728.86	115.27	End Shut-In(1)
97	263.98	115.06	Open To Flow (2)
142	362.19	117.34	Shut-In(2)
235	1269.31	116.21	End Shut-In(2)
236	1937.10	115.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	SGOCM 10%g 20%o 70%w	0.89
820.00	CGO 50%g 50%o	9.23
	1850 GIP	

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

Stowell #1-28

250 N. Water Ste. #300
Wichita KS. 67202

28-6S-26W Sheridan

Job Ticket: 20438

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2005.02.26 @ 21:46:01

Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 bbl	Tool Weight: 2000.00 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: 430.00 ft	Diameter: 2.25 inches	Volume: 2.11 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3908.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3892.00	
Hydraulic tool	5.00			3897.00	
Safety Joint	2.00			3899.00	
Packer	5.00			3904.00	21.00 Bottom Of Top Packer
Packer	4.00			3908.00	
Stubb	1.00			3909.00	
Recorder	0.00	6798	Inside	3909.00	
Perforations	23.00			3932.00	
Recorder	0.00	13309	Outside	3932.00	
Bullnose	5.00			3937.00	29.00 Bottom Packers & Anchor
Total Tool Length:	50.00				

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

Stowell #1-28

250 N. Water Ste. #300
Wichita KS. 67202

28-6S-26W Sheridan

Job Ticket: 20438

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2005.02.26 @ 21:46:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	SGOCM 10%g 20%o 70%m	0.885
820.00	CGO 50%g 50%o	9.225
	1850 GIP	

Total Length: -998999.00 ft

Total Volume: 10.110 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

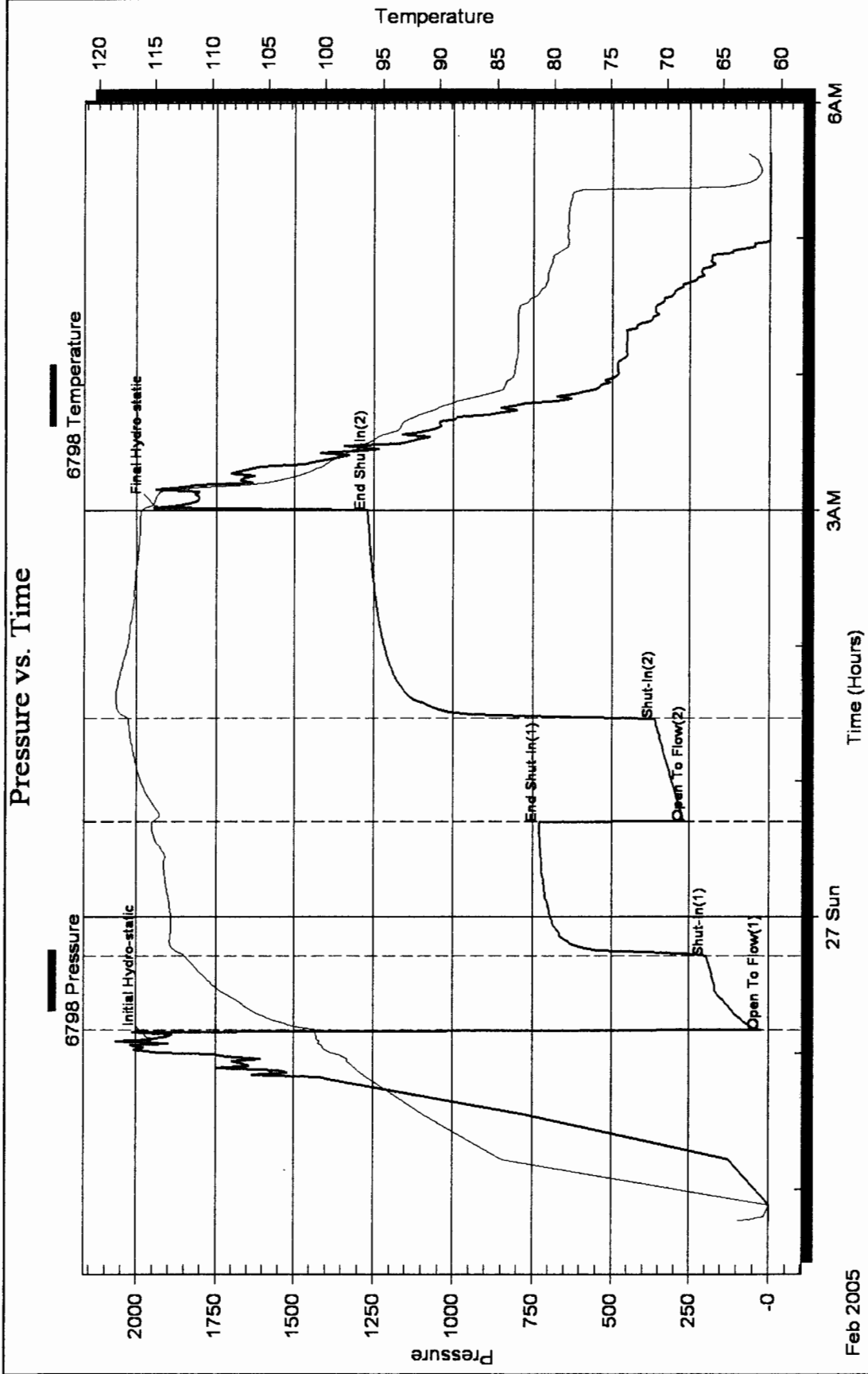
Inside

Murfin Drilling Company Inc.

28-6S-26W Sheridan

DST Test Number: 2

Pressure vs. Time



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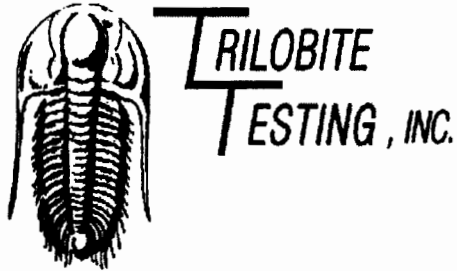
FEB 29 2005

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Triobite Testing, Inc

Ref. No: 20438

Printed: 2005.03.11 @ 11:39:45 Page 5



DRILL STEM TEST REPORT

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

250 N. Water Ste. #300
Wichita KS. 67202

ATTN: Paul Gunzelman

28-6S-26W Sheridan

Stowell #1-28

Start Date: 2005.02.27 @ 13:58:38

End Date: 2005.02.27 @ 19:55:38

Job Ticket #: 20439 DST #: 3

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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 Company Inc.

250 N. Water Ste. #300
Wichita KS. 67202

ATTN: Paul Gunzelman

Stowell #1-28

28-6S-26W Sheridan

Job Ticket: 20439

DST#: 3

Test Start: 2005.02.27 @ 13:58:38

GENERAL INFORMATION:

Formation: **L/KC "J - K"**

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

Time Tool Opened: 15:25:53

Time Test Ended: 19:55:38

Test Type: **Conventional Bottom Hole**

Tester: **Rod Steinbrink**

Unit No: **22**

Interval: **3939.00 ft (KB) To 3978.00 ft (KB) (TVD)**

Total Depth: **3978.00 ft (KB) (TVD)**

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

Reference Elevations: **2645.00 ft (KB)**

2640.00 ft (CF)

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

Serial #: 6798

Inside

Press@RunDepth: **28.36 psig @ 3940.00 ft (KB)**

Start Date: **2005.02.27**

End Date: **2005.02.27**

Start Time: **13:58:43**

End Time: **19:55:37**

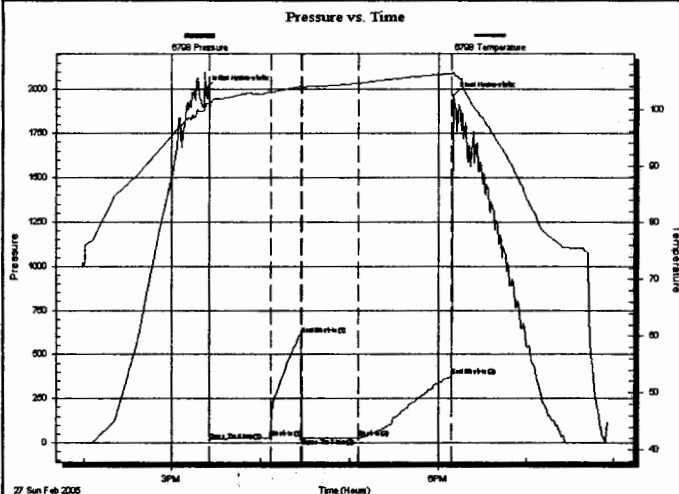
Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btrr: **2005.02.27 @ 15:22:53**

Time Off Btrr: **2005.02.27 @ 18:09:53**

TEST COMMENT: **F; Weak intermitten 1" blow steady throughout
FF; No return blow**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.46	100.66	Initial Hydro-static
3	10.63	100.14	Open To Flow (1)
45	27.89	102.99	Shut-In(1)
65	613.70	103.96	End Shut-In(1)
65	25.63	103.81	Open To Flow (2)
103	28.36	104.56	Shut-In(2)
166	374.85	106.27	End Shut-In(2)
167	1967.01	106.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig. Mud w/Specks oil in tool	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc.

Stowell #1-28

250 N. Water Ste. #300
Wichita KS. 67202

28-6S-26W Sheridan

Job Ticket: 20439 DST#: 3

ATTN: Paul Gunzelman

Test Start: 2005.02.27 @ 13:58:38

Tool Information

Drill Pipe:	Length: 3517.00 ft	Diameter: 3.80 inches	Volume: 49.33 bbl	Tool Weight: 2000.00 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: 430.00 ft	Diameter: 2.25 inches	Volume: 2.11 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3939.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3923.00	
Hydraulic tool	5.00			3928.00	
Safety Joint	2.00			3930.00	
Packer	5.00			3935.00	21.00 Bottom Of Top Packer
Packer	4.00			3939.00	
Stubb	1.00			3940.00	
Recorder	0.00	6798	Inside	3940.00	
Perforations	33.00			3973.00	
Recorder	0.00	13309	Outside	3973.00	
Bullnose	5.00			3978.00	39.00 Bottom Packers & Anchor
Total Tool Length:	60.00				

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc.

Stowell #1-28

250 N. Water Ste. #300
Wichita KS. 67202

28-6S-26W Sheridan

Job Ticket: 20439

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2005.02.27 @ 13:58:38

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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig. Mud w/Specks oil in tool	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Borbs: 0

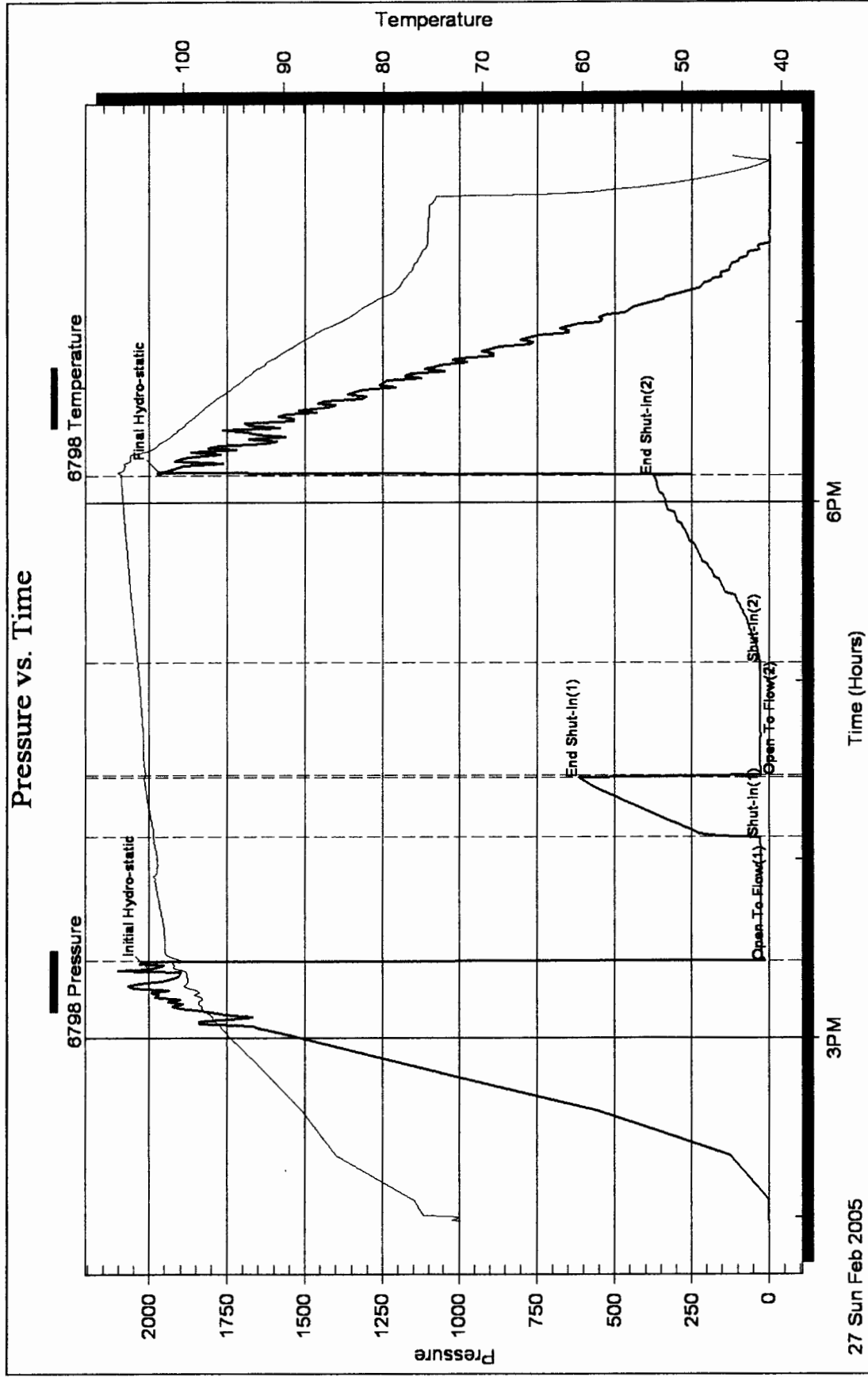
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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