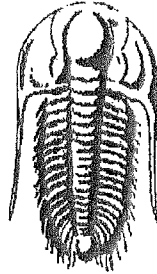


15-039-21008

4-3s-27w



**TRILOBITE
TESTING, INC.**

CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

**CONFIDENTIAL
NOV 12 2007
KCC**

ATTN: Paul Gunzelman

4 3 27 Decatur KS

Long # 1-4

Start Date: 2007.07.19 @ 18:30:34

End Date: 2007.07.20 @ 01:40:13

Job Ticket #: 27717 DST #: 1

Murfin Drilling Co Inc

Long # 1-4

4 3 27 Decatur KS

DST # 1

Toronto

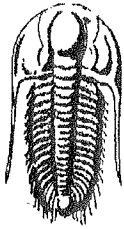
2007.07.19

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NOV 15 2007

**CONSERVATION DIVISION
WICHITA, KS**

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 Co Inc

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

Job Ticket: 27717

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2007.07.19 @ 18:30:34

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:53:14

Time Test Ended: 01:40:13

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: **3595.00 ft (KB) To 3635.00 ft (KB) (TVD)**

Total Depth: 3635.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2703.00 ft (KB)

2698.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6667** Inside

Press@RunDepth: 191.26 psig @ 3596.00 ft (KB)

Start Date: 2007.07.19

End Date:

2007.07.20

Capacity: 7000.00 psig

Last Calib.: 2007.07.20

Start Time: 18:30:34

End Time:

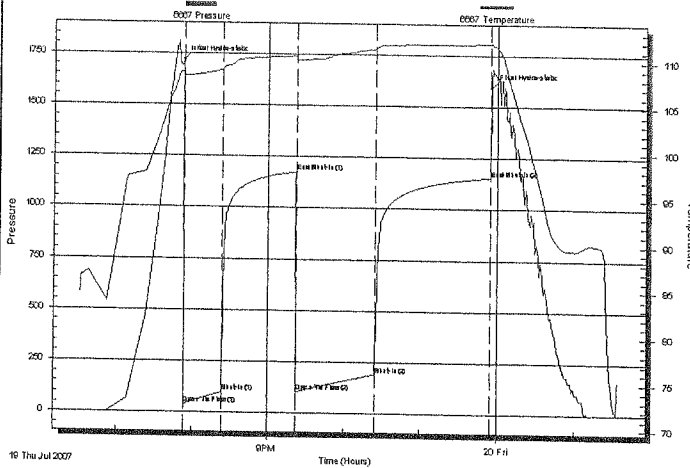
01:34:13

Time On Btm: 2007.07.19 @ 19:52:59

Time Off Btm: 2007.07.19 @ 23:55:28

TEST COMMENT: Mud dropped 20 " @ open 1 3/4 " @ open built to 5 "
No return
Surface blow in 5 min. built to 1 1/4 "
No return

Pressure vs. Time



PRESSURE SUMMARY

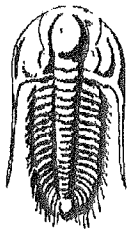
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1717.57	108.79	Initial Hydro-static
1	38.78	108.09	Open To Flow (1)
31	98.23	108.93	Shut-In(1)
90	1174.49	110.45	End Shut-In(1)
90	102.74	110.15	Open To Flow (2)
152	191.26	111.29	Shut-In(2)
242	1154.36	111.91	End Shut-In(2)
243	1593.42	112.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SWCM w/Oil spots 15%W 85%M	0.59
60.00	MCW 35%M 65%W	0.30
180.00	SMCW 5%M 95%W	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

Job Ticket: 27717

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2007.07.19 @ 18:30:34

Tool Information

Drill Pipe:	Length: 3113.00 ft	Diameter: 3.80 inches	Volume: 43.67 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 46.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3595.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	67.00 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			3569.00	
Shut In Tool	5.00			3574.00	
Hydraulic tool	5.00			3579.00	
Jars	5.00			3584.00	
Safety Joint	2.00			3586.00	
Packer	5.00			3591.00	27.00 Bottom Of Top Packer
Packer	4.00		Inside	3595.00	
Stubb	1.00			3596.00	
Recorder	0.00	6667	Inside	3596.00	
Perforations	4.00			3600.00	
Change Over Sub	1.00			3601.00	
Drill Pipe	28.00			3629.00	
Change Over Sub	1.00			3630.00	
Recorder	0.00	11058	Inside	3630.00	
Bullnose	5.00			3635.00	40.00 Bottom Packers & Anchor

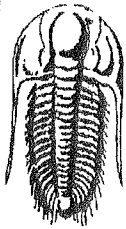
Total Tool Length: 67.00

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WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

Job Ticket: 27717

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2007.07.19 @ 18:30:34

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: 40000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.33 in³

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
120.00	SWCM w/Oil spots 15%W 85%M	0.590
60.00	MCW 35%M 65%W	0.295
180.00	SMCW 5%M 95%W	0.885

Total Length: 360.00 ft

Total Volume: 1.770 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .171 @ 74*f = 40,000 chlor

Serial #: 6667

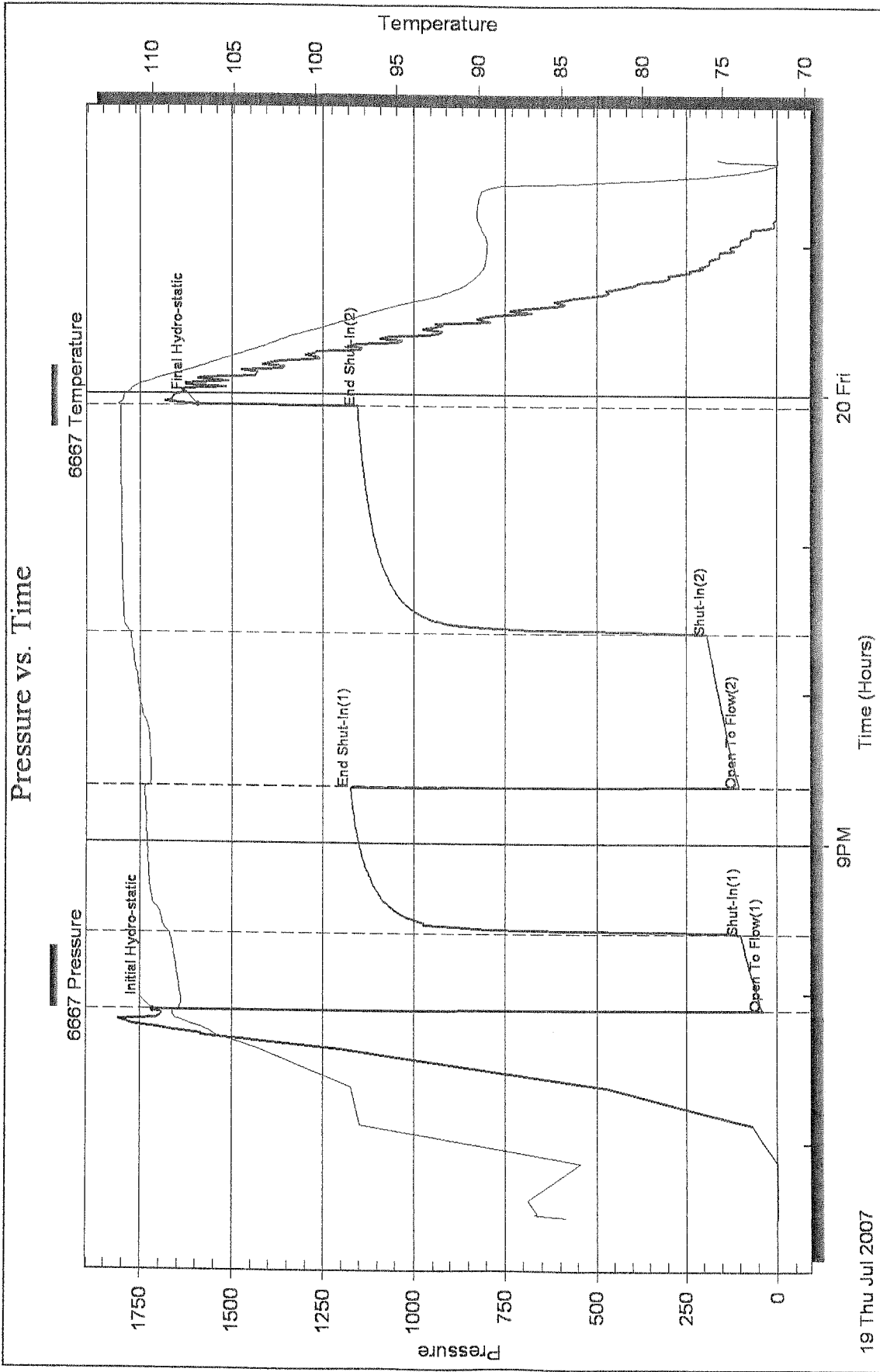
Inside

Murfin Drilling Co Inc

4 3 27 Decatur KS

DST Test Number: 1

Pressure vs. Time



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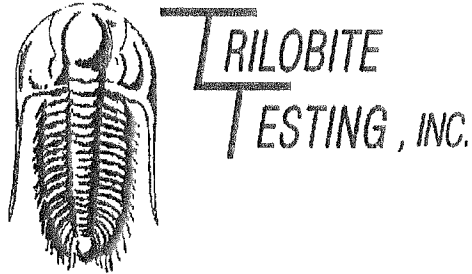
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CONSERVATION DIVISION
WICHITA, KS

Ref. No: 27717

Printed: 2007.07.26 @ 12:31:12 Page 5



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

4 3 27 Decatur KS

Long # 1-4

Start Date: 2007.07.20 @ 08:00:48

End Date: 2007.07.20 @ 14:50:27

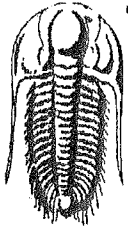
Job Ticket #: 27718 DST #: 2

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

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N Water Ste 300
Wichita KS 67202
ATTN: Paul Gunzelman

Long # 1-4
4 3 27 Decatur KS
Job Ticket: 27718 **DST#: 2**
Test Start: 2007.07.20 @ 08:00:48

GENERAL INFORMATION:

Formation: **Pollnow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:38:28
Time Test Ended: 14:50:27

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: **3650.00 ft (KB) To 3670.00 ft (KB) (TVD)**
Total Depth: 3670.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2703.00 ft (KB)
2698.00 ft (CF)
KB to GR/CF: 5.00 ft

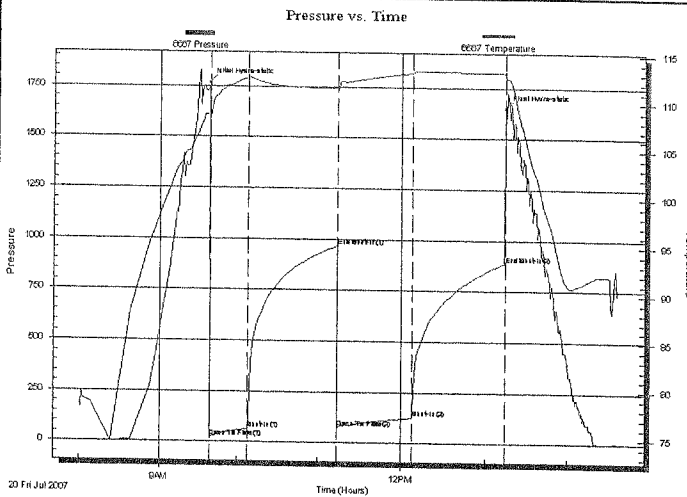
Serial #: 6667

Inside

Press@RunDepth: 124.63 psig @ 3651.00 ft (KB)
Start Date: 2007.07.20 End Date: 2007.07.20
Start Time: 08:00:48 End Time: 14:37:27

Capacity: 7000.00 psig
Last Calib.: 2007.07.20
Time On Btm: 2007.07.20 @ 09:37:58
Time Off Btm: 2007.07.20 @ 13:13:42

TEST COMMENT: 1/2 " @ open built to 1 3/4 "
No return
Weak surface blow
No return



PRESSURE SUMMARY

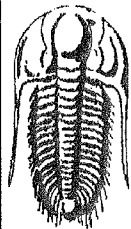
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.29	108.63	Initial Hydro-static
1	21.51	108.28	Open To Flow (1)
30	65.17	112.49	Shut-In(1)
96	965.52	111.49	End Shut-In(1)
97	75.17	111.20	Open To Flow (2)
150	124.63	113.08	Shut-In(2)
216	887.44	113.13	End Shut-In(2)
216	1648.78	113.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	6" Free Oil on top	0.00
60.00	SMCW w/Oil spots 15%M 85%W	0.30
120.00	Water w/Oil spots 100%W	0.59

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

ATTN: Paul Gunzelman

Job Ticket: 27718

DST#: 2

Test Start: 2007.07.20 @ 08:00:48

Tool Information

Drill Pipe:	Length: 3171.00 ft	Diameter: 3.80 inches	Volume: 44.48 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 85000.00 lb
		<u>Total Volume:</u>	<u>46.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3650.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

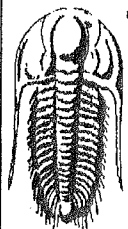
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3629.00	
Shut In Tool	5.00			3634.00	
Hydraulic tool	5.00			3639.00	
Safety Joint	2.00			3641.00	
Packer	5.00			3646.00	22.00 Bottom Of Top Packer
Packer	4.00		Inside	3650.00	
Stubb	1.00			3651.00	
Recorder	0.00	6667	Inside	3651.00	
Perforations	14.00			3665.00	
Recorder	0.00	11058	Inside	3665.00	
Bullnose	5.00			3670.00	20.00 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

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

Job Ticket: 27718

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2007.07.20 @ 08:00:48

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.58 in³

Resistivity: 0.00 ohm.m

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 0 deg API

Water Salinity: 56000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	6" Free Oil on top	0.000
60.00	SMCW w/Oil spots 15%M 85%W	0.295
120.00	Water w/Oil spots 100%W	0.590

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .111 @86*f = 56,000 chlor

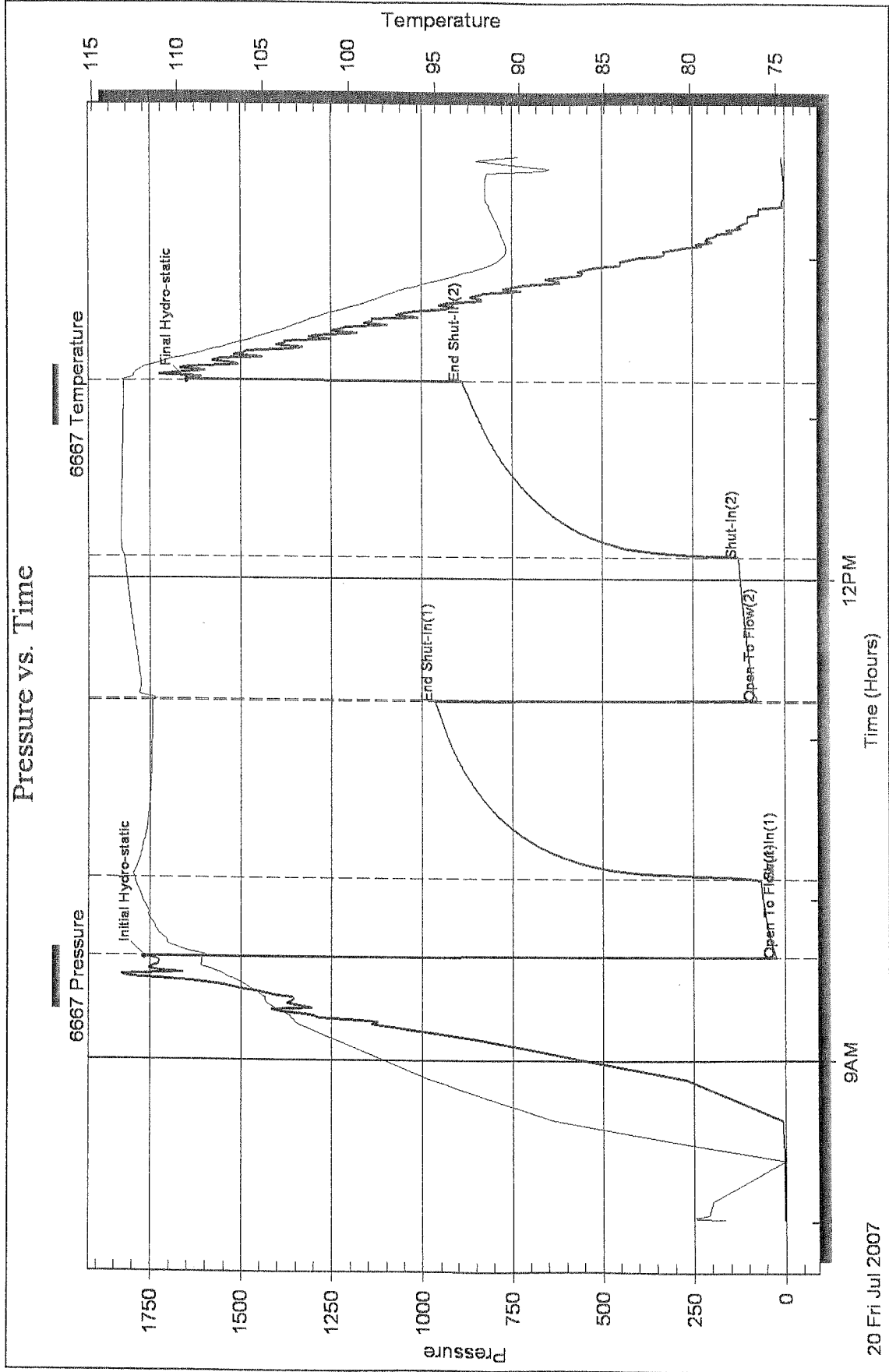
Serial #: 6667

Inside

Murfin Drilling Co Inc

4 3 27 Decatur KS

DST Test Number: 2



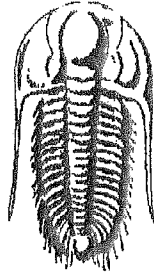
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Ref. No: 27718

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CONSERVATION DIVISION
 WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

4 3 27 Decatur KS

Long # 1-4

Start Date: 2007.07.20 @ 00:00:41

End Date: 2007.07.20 @ 06:15:50

Job Ticket #: 27719 DST #: 3

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

Murfin Drilling Co Inc

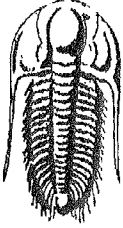
Long # 1-4

4 3 27 Decatur KS

DST # 3

C-H

2007.07.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Long # 1-4

4 3 27 Decatur KS

Job Ticket: 27719

DST#: 3

Test Start: 2007.07.20 @ 00:00:41

GENERAL INFORMATION:

Formation: C-H

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:46:21

Time Test Ended: 06:15:50

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: 3675.00 ft (KB) To 3759.00 ft (KB) (TVD)

Total Depth: 3759.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2703.00 ft (KB)

2698.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6667 Inside

Press@RunDepth: 92.59 psig @ 3677.00 ft (KB)

Start Date: 2007.07.20

End Date:

2007.07.20

Capacity: 7000.00 psig

Last Calib.: 2007.07.21

Start Time: 00:00:41

End Time:

05:58:50

Time On Btm: 2007.07.20 @ 01:46:06

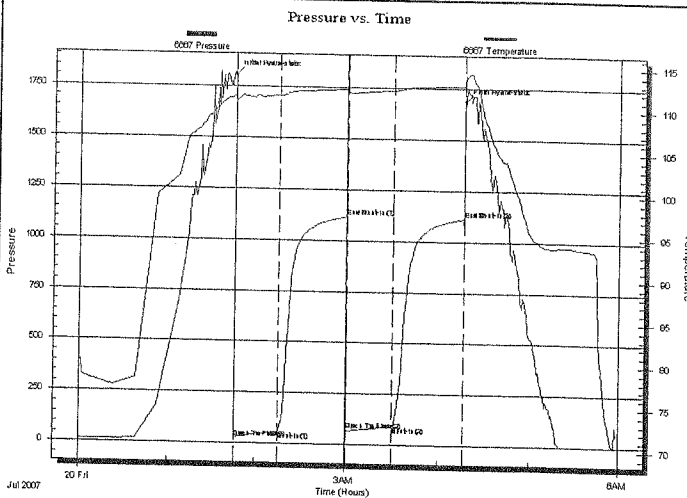
Time Off Btm: 2007.07.20 @ 04:16:21

TEST COMMENT: 1/2 " @ open died back to surface blow

No return

Surface blow blew throughout

No return



PRESSURE SUMMARY

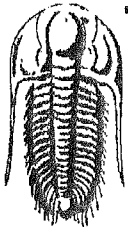
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1805.00	111.52	Initial Hydro-static
1	25.51	111.12	Open To Flow (1)
30	59.75	111.57	Shut-In(1)
75	1114.56	112.42	End Shut-In(1)
75	74.49	112.09	Open To Flow (2)
104	92.59	112.30	Shut-In(2)
150	1110.34	112.91	End Shut-In(2)
151	1683.78	113.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Free Oil 100%O	0.01
118.00	VSOCM 2%O 23%M 75%W	0.58

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

Job Ticket: 27719

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2007.07.20 @ 00:00:41

Tool Information

Drill Pipe:	Length: 3181.00 ft	Diameter: 3.80 inches	Volume: 44.62 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 47.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3676.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

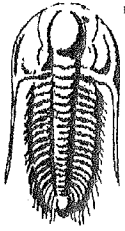
Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3655.00	
Shut In Tool	5.00			3660.00	
Hydraulic tool	5.00			3665.00	
Safety Joint	2.00			3667.00	
Packer	5.00			3672.00	22.00 Bottom Of Top Packer
Packer	4.00		Inside	3676.00	
Stubb	1.00			3677.00	
Recorder	0.00	6667	Inside	3677.00	
Perforations	14.00			3691.00	
Change Over Sub	1.00			3692.00	
Drill Pipe	62.00			3754.00	
Change Over Sub	1.00			3755.00	
Recorder	0.00	11058	Inside	3755.00	
Bullnose	5.00			3760.00	84.00 Bottom Packers & Anchor

Total Tool Length: 106.00

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WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

Job Ticket: 27719

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2007.07.20 @ 00:00:41

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:

38000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.31 in³

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
2.00	Free Oil 100%O	0.010
118.00	VSOCM 2%O 23%M 75%W	0.580

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .193 @ 68*f = 38,000 chlor

Serial #: 6667

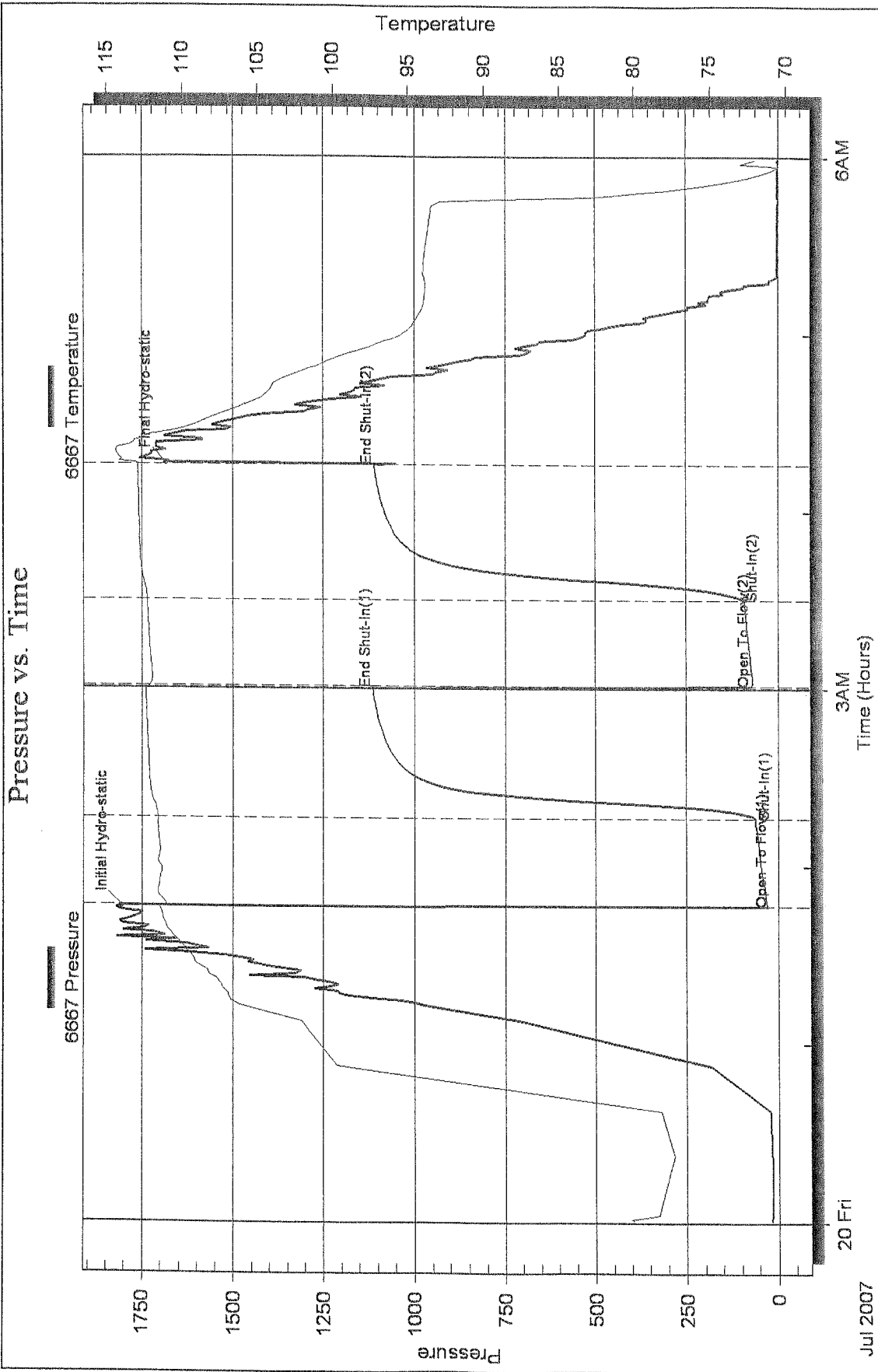
Inside

Murfin Drilling Co Inc

4 3 27 Decatur KS

DST Test Number: 3

Pressure vs. Time

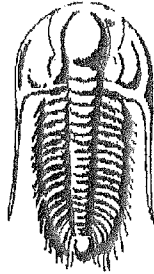


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 Trilobite Testing, Inc Ref. No: 27719

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CONSERVATION DIVISION
 WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

4 3 27 Decatur KS

Long # 1-4

Start Date: 2007.07.21 @ 14:55:56

End Date: 2007.07.21 @ 20:10:05

Job Ticket #: 27720 DST #: 4

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**CONSERVATION DIVISION
WICHITA, KS**

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

Murfin Drilling Co Inc

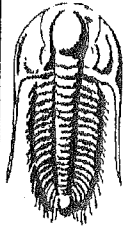
Long # 1-4

4 3 27 Decatur KS

DST # 4

J-L

2007.07.21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Long # 1-4

4 3 27 Decatur KS

Job Ticket: 27720

DST#: 4

Test Start: 2007.07.21 @ 14:55:56

GENERAL INFORMATION:

Formation: J-L
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:12:06
Time Test Ended: 20:10:05

Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40

Interval: 3758.00 ft (KB) To 3836.00 ft (KB) (TVD)
Total Depth: 3836.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

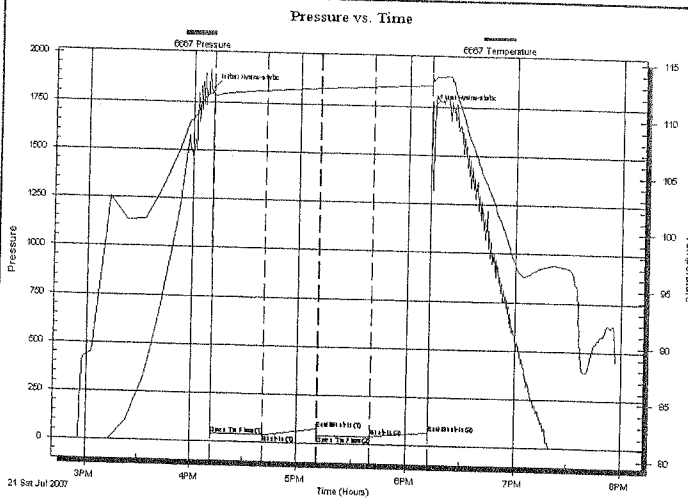
Reference Elevations: 2703.00 ft (KB)
2698.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6667 Inside

Press@RunDepth: 42.00 psig @ 3759.00 ft (KB)
Start Date: 2007.07.21 End Date: 2007.07.21
Start Time: 14:55:56 End Time: 19:57:05

Capacity: 7000.00 psig
Last Calib.: 2007.07.21
Time On Btm: 2007.07.21 @ 16:11:36
Time Off Btm: 2007.07.21 @ 18:12:21

TEST COMMENT: Slide 3' to bottom 3/4" blow @ open died in 12 min.
No return
No blow
No return



PRESSURE SUMMARY

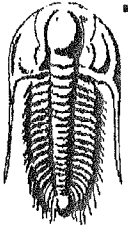
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.13	112.02	Initial Hydro-static
1	38.89	111.63	Open To Flow (1)
30	41.39	112.16	Shut-In(1)
59	77.11	112.46	End Shut-In(1)
60	40.67	112.45	Open To Flow (2)
89	42.00	112.68	Shut-In(2)
121	66.85	112.92	End Shut-In(2)
121	1746.85	113.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

Job Ticket: 27720

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2007.07.21 @ 14:55:56

Tool Information

Drill Pipe:	Length: 3266.00 ft	Diameter: 3.80 inches	Volume: 45.81 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 48.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	3758.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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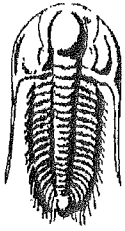
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3737.00	
Shut In Tool	5.00			3742.00	
Hydraulic tool	5.00			3747.00	
Safety Joint	2.00			3749.00	
Packer	5.00			3754.00	22.00 Bottom Of Top Packer
Packer	4.00		Inside	3758.00	
Stubb	1.00			3759.00	
Recorder	0.00	6667	Inside	3759.00	
Perforations	9.00			3768.00	
Change Over Sub	1.00			3769.00	
Drill Pipe	61.00			3830.00	
Change Over Sub	1.00			3831.00	
Recorder	0.00	11058	Inside	3831.00	
Bullnose	5.00			3836.00	78.00 Bottom Packers & Anchor
Total Tool Length:	100.00				

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WICHITA, KS**



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

Job Ticket: 27720

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2007.07.21 @ 14:55:56

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 5.99 in³

Resistivity: 0.00 ohm.m

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%M	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

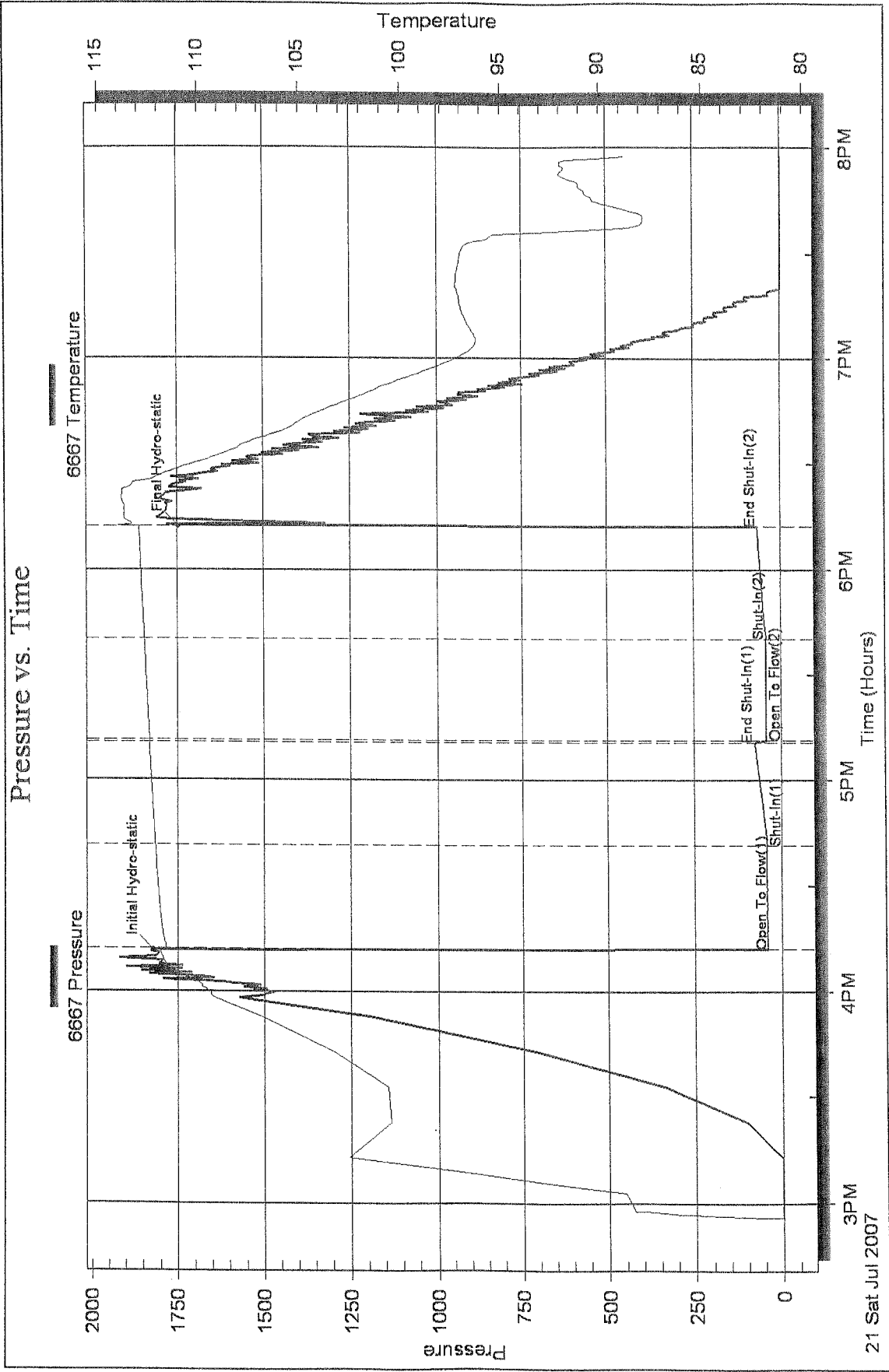
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



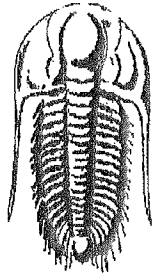
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 Hydro Testing, Inc

Ref. No: 27720

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CONSERVATION DIVISION
 WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

4 3 27 Decatur KS

Long # 1-4

Start Date: 2007.07.22 @ 22:58:07

End Date: 2007.07.23 @ 07:34:07

Job Ticket #: 27811 DST #: 5

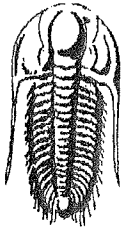
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WICHITA, KS

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 Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Long # 1-4

4 3 27 Decatur KS

Job Ticket: 27811

DST#: 5

Test Start: 2007.07.22 @ 22:58:07

GENERAL INFORMATION:

Formation: **Toronto & lasing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:27:37

Time Test Ended: 07:34:07

Test Type: Conventional Straddle

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3594.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Total Depth: 4110.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2703.00 ft (KB)

2698.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6799**

Inside

Press@RunDepth: 311.28 psig @ 3595.00 ft (KB)

Start Date: 2007.07.22

End Date:

2007.07.23

Capacity: 7000.00 psig

Last Calib.: 2007.07.23

Start Time: 22:58:09

End Time:

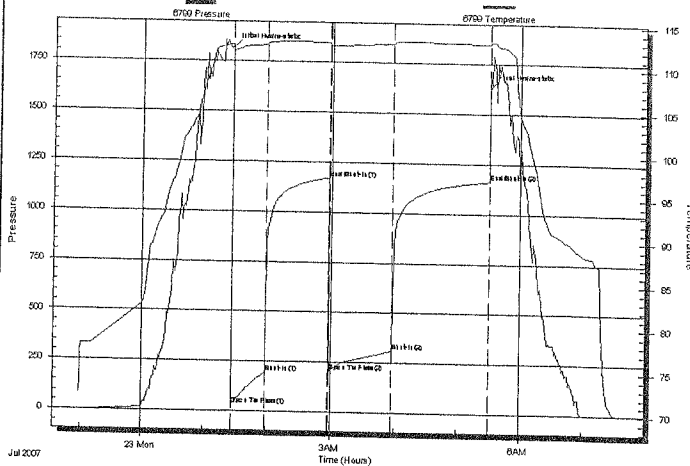
07:34:07

Time On Btm: 2007.07.23 @ 01:27:27

Time Off Btm: 2007.07.23 @ 05:31:17

TEST COMMENT: IF Fairly strong blow built to BOB in 20 minutes.
ISI Bled off no blow back
FF Fairly strong blow built to BOB in 31 minutes.
FSI Bled off no blow back

Pressure vs. Time



PRESSURE SUMMARY

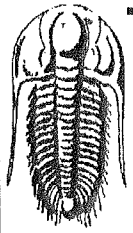
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.49	112.63	Initial Hydro-static
1	30.54	111.98	Open To Flow (1)
32	196.57	112.56	Shut-In(1)
91	1169.04	112.96	End Shut-In(1)
91	206.53	112.61	Open To Flow (2)
151	311.28	112.82	Shut-In(2)
244	1161.15	112.93	End Shut-In(2)
244	1628.01	113.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
485.00	MCW 10%M 90%W	2.39
150.00	Drig Mud w/slight Oil tr. 100%M	2.10
0.00	RW=.25 OHMS@71degF=27,750ppmChl	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

Job Ticket: 27811

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2007.07.22 @ 22:58:07

Tool Information

Drill Pipe:	Length: 3084.00 ft	Diameter: 3.80 inches	Volume: 43.26 bbl	Tool Weight: 7000.00 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 45.65 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3594.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	3650.00 ft			
Interval between Packers:	56.00 ft			
Tool Length:	540.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

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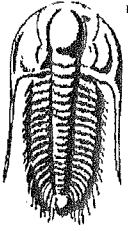
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3571.00	
Hydraulic tool	5.00			3576.00	
Jars	5.00			3581.00	
Safety Joint	3.00			3584.00	
Packer	5.00			3589.00	28.00 Bottom Of Top Packer
Packer	5.00			3594.00	
Stubb	1.00			3595.00	
Recorder	0.00	6799	Inside	3595.00	
Blank Spacing	34.00			3629.00	
Perforations	18.00			3647.00	
Recorder	0.00	10270	Outside	3647.00	
Blank Off Sub	3.00			3650.00	56.00 Tool Interval
Packer	3.00			3653.00	
Perforations	20.00			3673.00	
Blank Spacing	430.00			4103.00	
Recorder	0.00	3354	Fluid	4103.00	
Bullnose	3.00			4106.00	456.00 Bottom Packers & Anchor
Total Tool Length:	540.00				

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WICHITA, KS**



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Long # 1-4

250 N Water Ste 300
Wichita KS 67202

4 3 27 Decatur KS

Job Ticket: 27811

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2007.07.22 @ 22:58:07

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 65.00 sec/qt

Water Loss: 6.39 in³

Resistivity: ohm.m

Salinity: 1500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbf

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
485.00	MCW 10%M 90%W	2.385
150.00	Drfg Mud w/slight Oil tr. 100%M	2.104
0.00	RW=.25 OHMS@71degF=27,750ppmChl	0.000

Total Length: 635.00 ft

Total Volume: 4.489 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6799

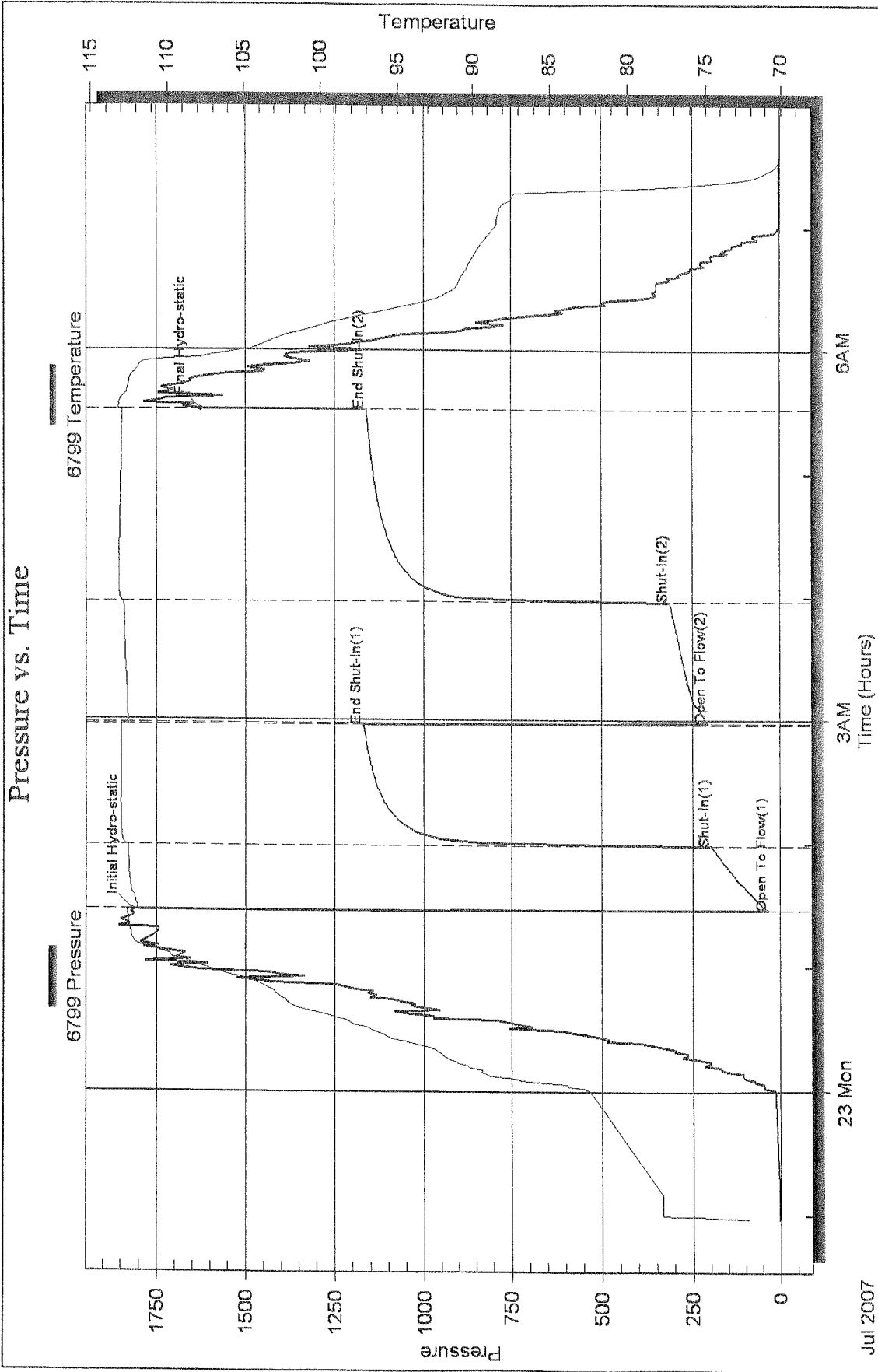
Inside

Murfur Drilling Co Inc

4 3 27 Decatur KS

DST Test Number: 5

Pressure vs. Time



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