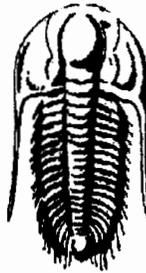


15-039-21065

22-5s-30w

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

22 5 30W Decatur KS

MBI #1-22

Start Date: 2007.07.18 @ 10:37:35

End Date: 2007.07.18 @ 21:39:00

Job Ticket #: 28710 DST #: 1

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PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

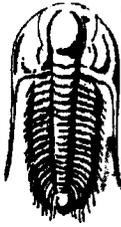
MBI #1-22

22 5 30W Decatur KS

DST # 1

Toronto, Lansing "C"

2007.07.18



TRILOBITE TESTING, INC.
CONFIDENTIAL

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

MBI #1-22

22 5 30W Decatur KS

Job Ticket: 28710

DST#: 1

Test Start: 2007.07.18 @ 10:37:35

GENERAL INFORMATION:

Formation: **Toronto, Lansing "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:54:00

Time Test Ended: 21:39:00

Interval: **3876.00 ft (KB) To 3975.00 ft (KB) (TVD)**

Total Depth: 3975.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 25

Reference Elevations: 2867.00 ft (KB)

2862.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755 Inside

Press@RunDepth: 1268.85 psig @ 3877.00 ft (KB)

Start Date: 2007.07.18

End Date: 2007.07.18

Start Time: 10:37:35

End Time: 21:39:00

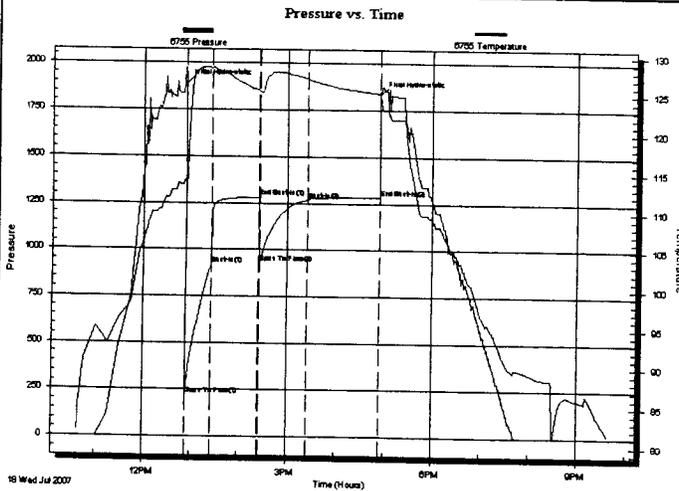
Capacity: 7000.00 psig

Last Calib.: 2007.07.18

Time On Btm: 2007.07.18 @ 12:53:45

Time Off Btm: 2007.07.18 @ 16:55:14

TEST COMMENT: IF BOB in 1 min.
IS Built to 1/4 inch died in 38 mins.
FF BOB in 1 min.
FS No return



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1889.41	114.01	Initial Hydro-static
1	222.73	113.54	Open To Flow (1)
32	919.76	128.43	Shut-In(1)
91	1281.26	125.57	End Shut-In(1)
92	930.01	125.48	Open To Flow (2)
152	1268.85	127.06	Shut-In(2)
241	1284.93	125.23	End Shut-In(2)
242	1833.18	125.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	WCM 20%w 80% m	0.32
795.00	W 100%w	10.06
1220.00	Slightly O&MCW 10%O 85%W 5%M	17.11
380.00	O&WCM 10%O 20%W 70%M	5.33
125.00	Slightly MCO 95%O 5%M	1.75
0.00	GIP 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

MBI #1-22

250 N Water Ste 300
Wichita KS 67202

22 5 30W Decatur KS

Job Ticket: 28710

DST#: 1

ATTN: Rocky Milford

Test Start: 2007.07.18 @ 10:37:35

Tool Information

Drill Pipe:	Length: 3674.00 ft	Diameter: 3.80 inches	Volume: 51.54 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 52.45 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3876.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	99.00 ft			
Tool Length:	127.00 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			3849.00	
Shut In Tool	5.00			3854.00	
Hydraulic tool	5.00			3859.00	
Jars	5.00			3864.00	
Safety Joint	3.00			3867.00	
Packer	5.00			3872.00	28.00 Bottom Of Top Packer
Packer	4.00			3876.00	
Stubb	1.00			3877.00	
Recorder	0.00	6755	Inside	3877.00	
Perforations	28.00			3905.00	
Change Over Sub	1.00			3906.00	
Drill Pipe	63.00			3969.00	
Change Over Sub	1.00			3970.00	
Recorder	0.00	2607	Inside	3970.00	
Bullnose	5.00			3975.00	99.00 Bottom Packers & Anchor

Total Tool Length: 127.00

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**TRIOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

MBI #1-22

250 N Water Ste 300
Wichita KS 67202

22 5 30W Decatur KS

Job Ticket: 28710

DST#: 1

ATTN: Rocky Milford

Test Start: 2007.07.18 @ 10:37:35

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:

75000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

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
65.00	WCM 20%w 80%m	0.320
795.00	W 100%w	10.059
1220.00	Slightly O&MCW 10%O 85%W 5%M	17.113
380.00	O&WCM 10%O 20%W 70%M	5.330
125.00	Slightly MCO 95%O 5%M	1.753
0.00	GIP 0	0.000

Total Length: 2585.00 ft

Total Volume: 34.575 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

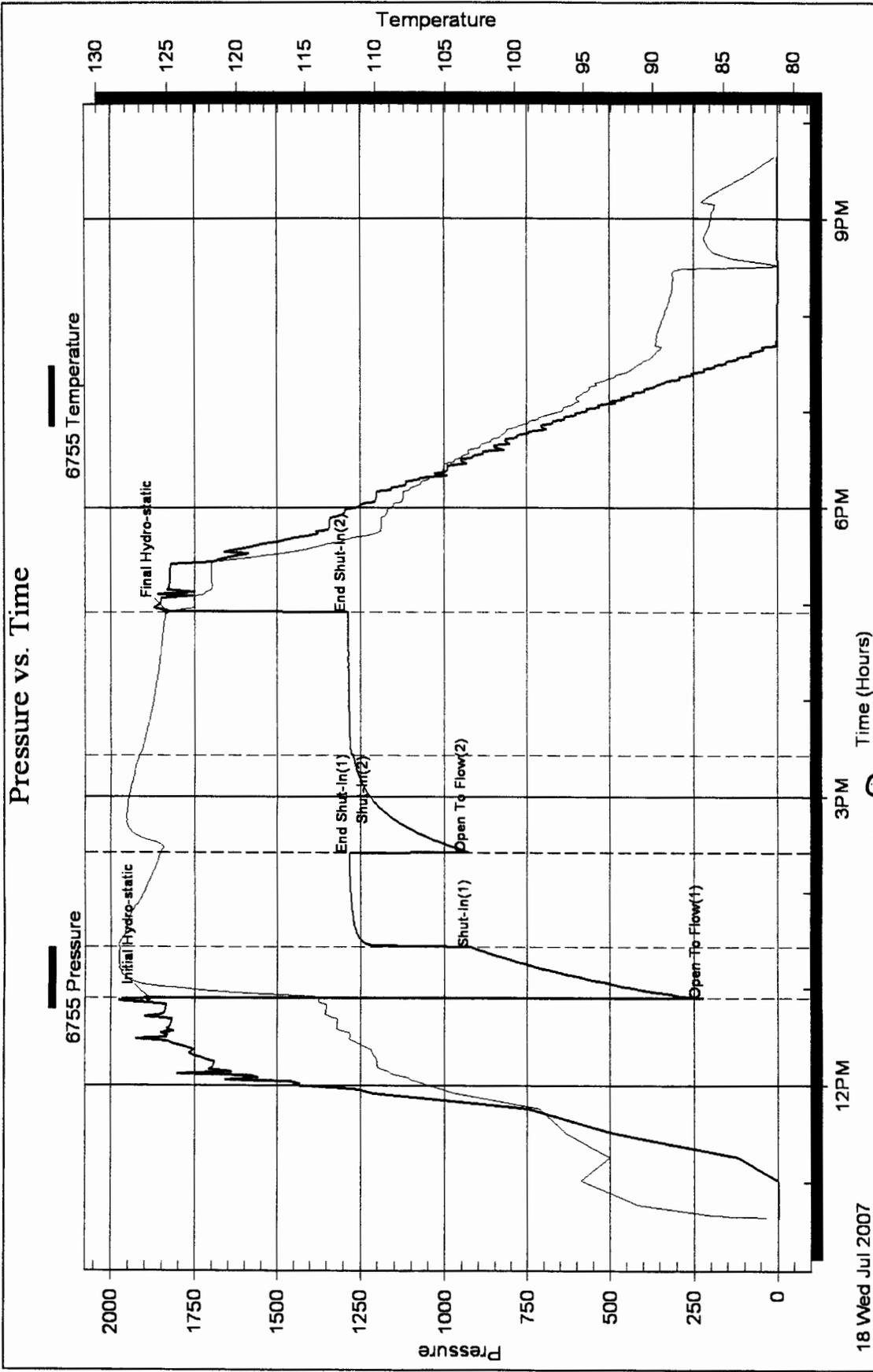
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



18 Wed Jul 2007

12PM 3PM 6PM 9PM

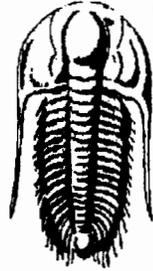
Time (Hours)

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

22 5 30W Decatur KS

MBI #1-22

Start Date: 2007.07.19 @ 06:50:39

End Date: 2007.07.19 @ 15:54:34

Job Ticket #: 28711 DST #: 2

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Murfin Drilling Company

MBI #1-22

22 5 30W Decatur KS

DST # 2

Lans. E-G

2007.07.19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Company

MBI #1-22

250 N Water Ste 300
Wichita KS 67202

22 5 30W Decatur KS

Job Ticket: 28711

DST#: 2

ATTN: Rocky Milford

Test Start: 2007.07.19 @ 06:50:39

GENERAL INFORMATION:

Formation: **Lans. E-G**

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

Time Tool Opened: 08:30:49

Time Test Ended: 15:54:34

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **25**

Interval: **3975.00 ft (KB) To 4016.00 ft (KB) (TVD)**

Reference Elevations: **2867.00 ft (KB)**

Total Depth: **4016.00 ft (KB) (TVD)**

2862.00 ft (CF)

Hole Diameter: **7.80 inches** Hole Condition: **Fair**

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

Serial #: 6755 **Inside**

Press@RunDepth: **172.69 psig @ 3976.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2007.07.19**

End Date: **2007.07.19**

Last Calib.: **2007.07.19**

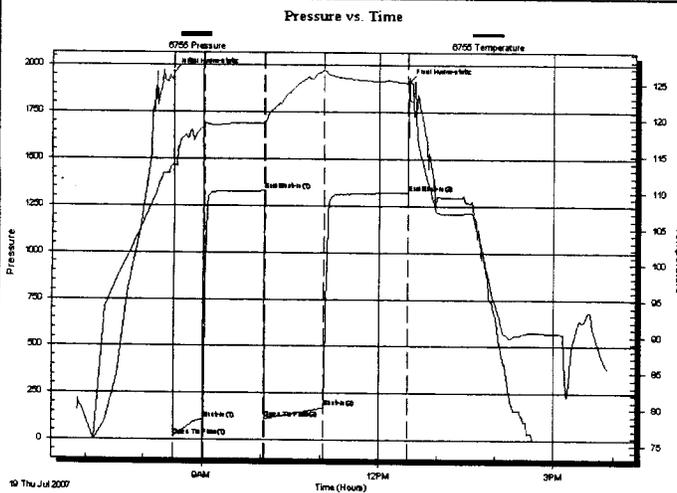
Start Time: **06:50:39**

End Time: **15:54:34**

Time On Btm: **2007.07.19 @ 08:30:34**

Time Off Btm: **2007.07.19 @ 12:30:18**

TEST COMMENT: IF Built to 9 1/4 inches.
IS No return
FF Built to 9 1/2 inches.
FS Built to a weak surface blow died in 27 mins.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1963.21	114.10	Initial Hydro-static
1	17.56	113.41	Open To Flow (1)
31	110.91	119.12	Shut-In (1)
92	1328.86	119.55	End Shut-In (1)
93	113.16	119.67	Open To Flow (2)
153	172.69	126.81	Shut-In (2)
240	1320.85	125.07	End Shut-In (2)
240	1909.77	124.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	SMCW 95%W 5%M	0.61
120.00	MCW 60%W 40%M	1.14
60.00	SO&WCM 5%O 25%W 70%M	0.84
15.00	SMCO 95%O 5%M	0.21
0.00	GIP 0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

MBI #1-22

250 N Water Ste 300
Wichita KS 67202

22 5 30W Decatur KS

Job Ticket: 28711

DST#: 2

ATTN: Rocky Milford

Test Start: 2007.07.19 @ 06:50:39

Tool Information

Drill Pipe:	Length: 3770.00 ft	Diameter: 3.80 inches	Volume: 52.88 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	53.79 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3975.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	69.00 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			3948.00	
Shut In Tool	5.00			3953.00	
Hydraulic tool	5.00			3958.00	
Jars	5.00			3963.00	
Safety Joint	3.00			3966.00	
Packer	5.00			3971.00	28.00 Bottom Of Top Packer
Packer	4.00			3975.00	
Stubb	1.00			3976.00	
Recorder	0.00	6755	Inside	3976.00	
Perforations	35.00			4011.00	
Recorder	0.00	2607	Inside	4011.00	
Bullnose	5.00			4016.00	41.00 Bottom Packers & Anchor

Total Tool Length: 69.00

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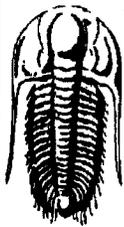
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WICHITA, KS**



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

MBI #1-22

250 N Water Ste 300
Wichita KS 67202

22 5 30W Decatur KS

Job Ticket: 28711

DST#: 2

ATTN: Rocky Miford

Test Start: 2007.07.19 @ 06:50:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	SMCW 95%W 5%M	0.615
120.00	MCW 60%W 40%M	1.137
60.00	SO&WCM 5%O 25%W 70%M	0.842
15.00	SMCO 95%O 5%M	0.210
0.00	GIP 0	0.000

Total Length: 320.00 ft

Total Volume: 2.804 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

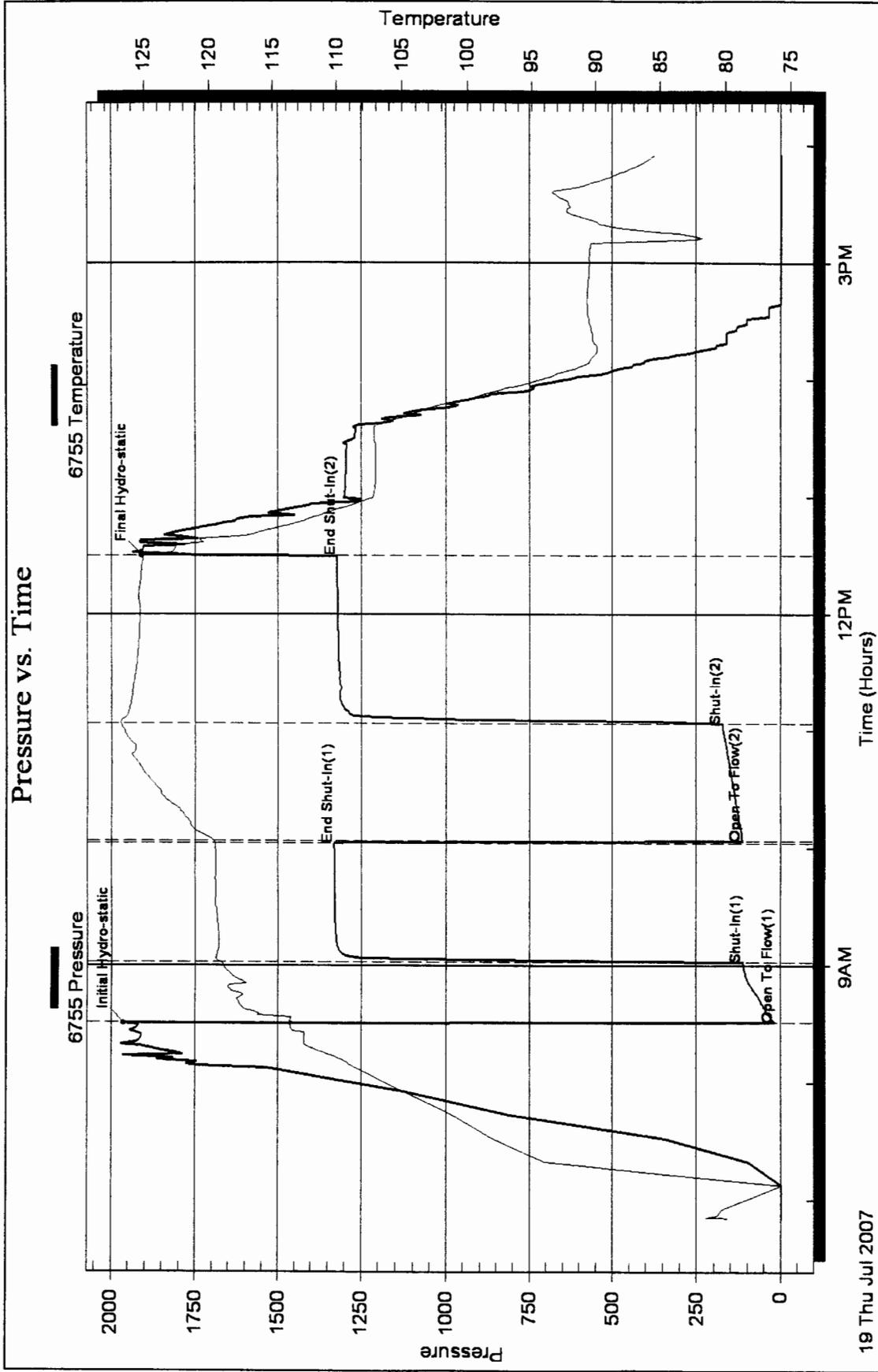
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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WICHITA, KS

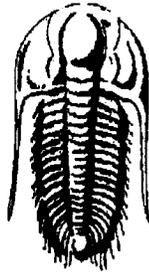
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19 Thu Jul 2007



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

22 5 30W Decatur KS

MBI #1-22

Start Date: 2007.07.20 @ 04:03:10

End Date: 2007.07.20 @ 12:55:05

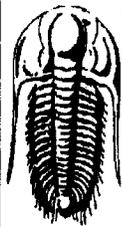
Job Ticket #: 28712 DST #: 3

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

MBI #1-22

250 N Water Ste 300
Wichita KS 67202

22 5 30W Decatur KS

ATTN: Rocky Milford

Job Ticket: 28712

DST#: 3

Test Start: 2007.07.20 @ 04:03:10

GENERAL INFORMATION:

Formation: **Lans. H - J**

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

Time Tool Opened: 06:08:50

Time Test Ended: 12:55:05

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **25**

Interval: **4018.00 ft (KB) To 4086.00 ft (KB) (TVD)**

Total Depth: **4086.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Fair**

Reference Elevations: **2867.00 ft (KB)**

2862.00 ft (CF)

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

Serial #: 6755

Inside

Press@RunDepth: **196.21 psig @ 4019.00 ft (KB)**

Start Date: **2007.07.20**

End Date: **2007.07.20**

Start Time: **04:03:10**

End Time: **12:55:05**

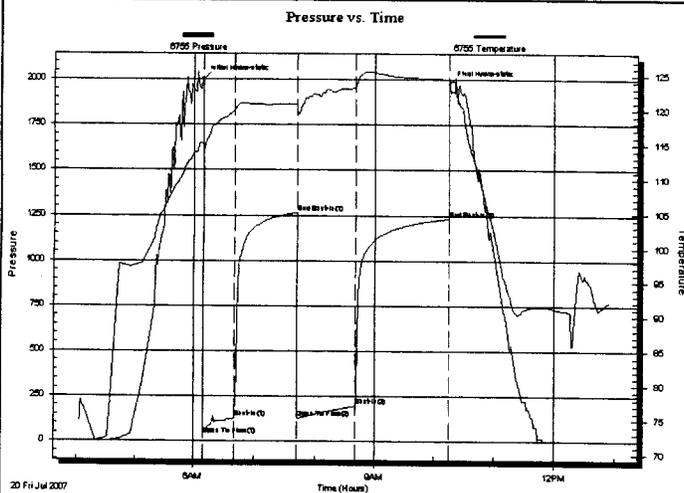
Capacity: **7000.00 psig**

Last Calib.: **2007.07.20**

Time On Btm: **2007.07.20 @ 06:08:35**

Time Off Btm: **2007.07.20 @ 10:15:34**

TEST COMMENT: IF BOB in 13 mins.
IS Built to 3 3/4 inches.
FF BOB in 9 mins.
FS Built to 8 inches in 50 mins died back to 4 inches.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.26	115.16	Initial Hydro-static
1	31.76	114.51	Open To Flow (1)
32	130.32	119.99	Shut-In(1)
94	1265.07	120.87	End Shut-In(1)
94	127.92	120.32	Open To Flow(2)
152	196.21	123.34	Shut-In(2)
247	1231.87	124.48	End Shut-In(2)
247	1972.44	124.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	O&GCM 20%G 30%O 50%M	1.68
180.00	GCO 50%G 50%O	2.52
55.00	HGCO 80%G 20%O	0.77
0.00	GIP 965	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

MBI #1-22

250 N Water Ste 300
Wichita KS 67202

22 5 30W Decatur KS

Job Ticket: 28712

DST#: 3

ATTN: Rocky Milford

Test Start: 2007.07.20 @ 04:03:10

Tool Information

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	54.70 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4018.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	96.00 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			3991.00	
Shut In Tool	5.00			3996.00	
Hydraulic tool	5.00			4001.00	
Jars	5.00			4006.00	
Safety Joint	3.00			4009.00	
Packer	5.00			4014.00	28.00 Bottom Of Top Packer
Packer	4.00			4018.00	
Stubb	1.00			4019.00	
Recorder	0.00	6755	Inside	4019.00	
Perforations	30.00			4049.00	
Change Over Sub	1.00			4050.00	
Drill Pipe	30.00			4080.00	
Change Over Sub	1.00			4081.00	
Recorder	0.00	2607	Inside	4081.00	
Bullnose	5.00			4086.00	68.00 Bottom Packers & Anchor

Total Tool Length: 96.00

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

MBI #1-22

250 N Water Ste 300
Wichita KS 67202

22 5 30W Decatur KS

Job Ticket: 28712

DST#: 3

ATTN: Rocky Milford

Test Start: 2007.07.20 @ 04:03:10

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 6.39 in³

Resistivity: 0.00 ohm.m

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 37 deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	O&GCM 20%G 30%O 50%M	1.681
180.00	GCO 50%G 50%O	2.525
55.00	HGCO 80%G 20%O	0.772
0.00	GIP 965	0.000

Total Length: 475.00 ft

Total Volume: 4.978 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

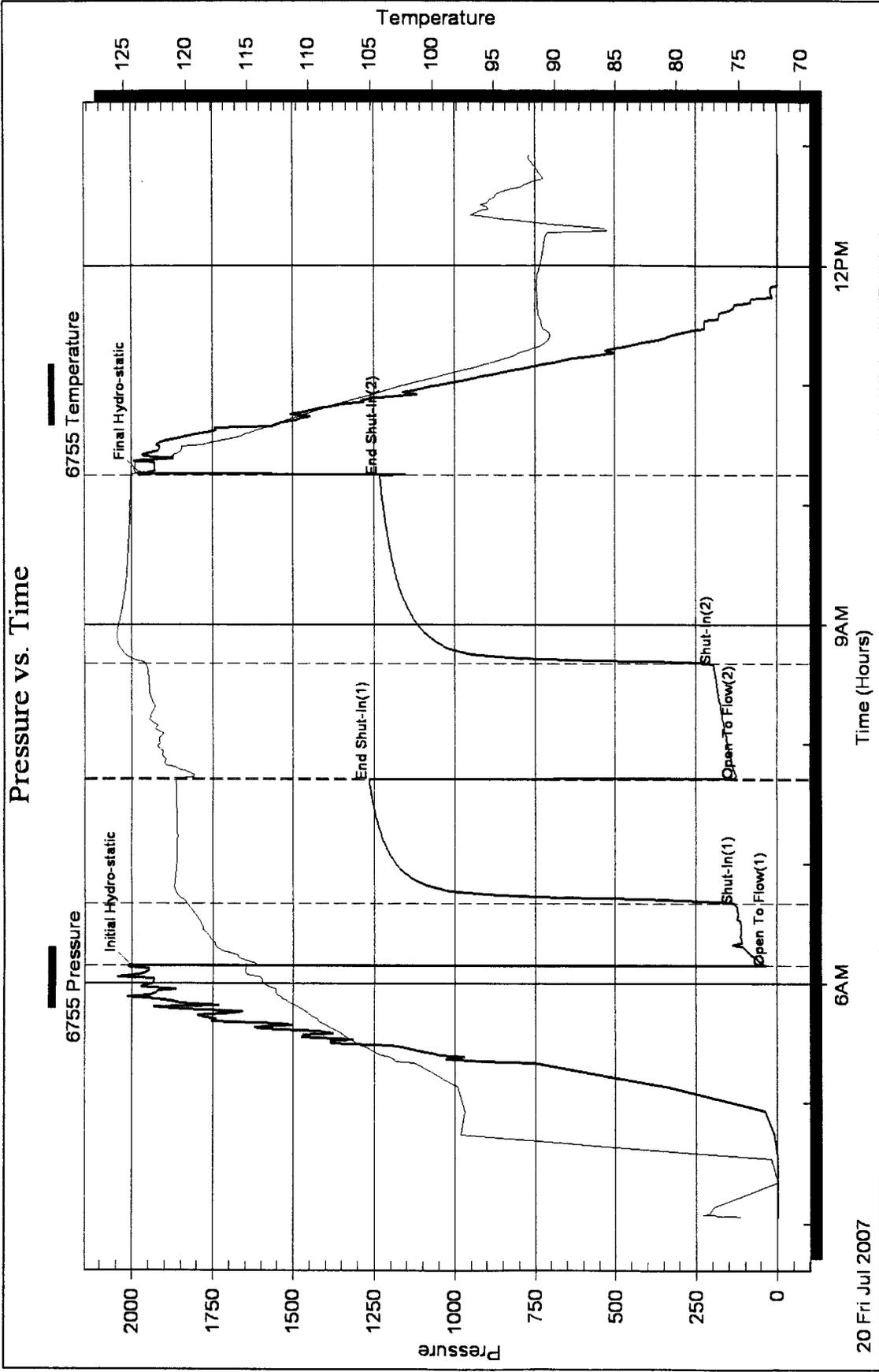
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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Ref. No: 28712

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