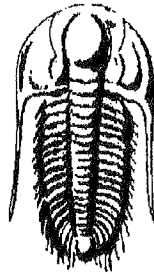


15-039-21029

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IND

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**TRILOBITE
TESTING, INC.**

Murfin Drilling Company

Eula 1-30

30 5 29 Decatur KS

DST # 1

Toronto - "C"

2007.11.09

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Rocky Milford

30 5 29 Decatur KS

Eula 1-30

Start Date: 2007.11.09 @ 12:36:21

End Date: 2007.11.09 @ 20:58:19

Job Ticket #: 29248 DST #: 1

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FEB 26 2008
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RECEIVED
KANSAS CORPORATION COMMISSION

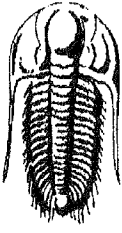
FEB 29 2008

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 Company
 250 N Water Ste 300
 Wichita KS 67202
 ATTN: Rocky Milford

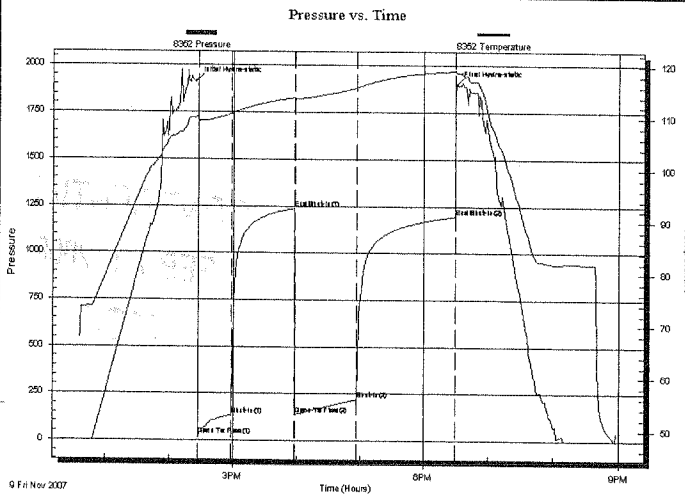
Eula 1-30
30 5 29 Decatur KS
 Job Ticket: 29248 **DST#: 1**
 Test Start: 2007.11.09 @ 12:36:21

GENERAL INFORMATION:

Formation: **Toronto - "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:27:09
 Time Test Ended: 20:58:19
 Interval: **3836.00 ft (KB) To 3916.00 ft (KB) (TVD)**
 Total Depth: 3916.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Jake Fahrenbruch
 Unit No: 22
 Reference Elevations: 2812.00 ft (KB)
 2807.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8352 **Inside**
 Press@RunDepth: 218.99 psig @ 3837.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2007.11.09 End Date: 2007.11.09 Last Calib.: 2007.11.09
 Start Time: 12:36:21 End Time: 20:58:19 Time On Btm: 2007.11.09 @ 14:24:39
 Time Off Btm: 2007.11.09 @ 18:31:19

TEST COMMENT: IF Fair blow built to BOB in 19.5 min
 ISI Blow back built to 1.25 " in bucket
 FF Fair blow built to BOB in 19 min
 FSI Blow back built to 2.5 " in bucket



PRESSURE SUMMARY

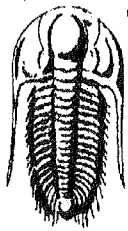
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1914.76 | 110.08 | Initial Hydro-static |
| 3 | 25.66 | 108.96 | Open To Flow (1) |
| 33 | 135.21 | 110.75 | Shut-In(1) |
| 93 | 1236.51 | 113.89 | End Shut-In(1) |
| 94 | 139.90 | 113.70 | Open To Flow (2) |
| 153 | 218.99 | 115.80 | Shut-In(2) |
| 246 | 1194.35 | 119.07 | End Shut-In(2) |
| 247 | 1898.75 | 118.98 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 126.00 | GCOM 16%g 32%o 52%m | 0.62 |
| 63.00 | GCMCO 15%g 20%m 65%o | 0.40 |
| 63.00 | GCMO 20%G 40%M 40%O | 0.88 |
| 126.00 | GCMO 15%G 35%M 50%O | 1.77 |
| 108.00 | GCO 10%G 90%O | 1.51 |
| 0.00 | Gravity = 19 (corrected) | 0.00 |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Eula 1-30

250 N Water Ste 300
Wichita KS 67202

30 5 29 Decatur KS

ATTN: Rocky Milford

Job Ticket: 29248

DST#: 1

Test Start: 2007.11.09 @ 12:36:21

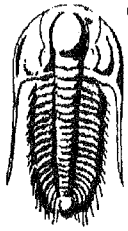
Tool Information

| | | | | |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 3671.00 ft | Diameter: 3.80 inches | Volume: 51.49 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: 30000.00 lb |
| Drill Collar: | Length: 179.00 ft | Diameter: 2.25 inches | Volume: 0.88 bbl | Weight to Pull Loose: 60000.00 lb |
| | | Total Volume: 52.37 bbl | | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 34.00 ft | | | String Weight: Initial 50000.00 lb |
| Depth to Top Packer: | 3836.00 ft | | | Final 53000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 80.00 ft | | | |
| Tool Length: | 100.00 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 | | | 3821.00 | |
| Hydraulic tool | 5.00 | | | 3826.00 | |
| Packer | 5.00 | | | 3831.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3836.00 | |
| Stubb | 1.00 | | | 3837.00 | |
| Recorder | 0.00 | 6799 | Inside | 3837.00 | |
| Recorder | 0.00 | 8352 | Inside | 3837.00 | |
| Perforations | 10.00 | | | 3847.00 | |
| Blank Spacing | 66.00 | | | 3913.00 | |
| Bullnose | 3.00 | | | 3916.00 | 80.00 Bottom Packers & Anchor |
| Total Tool Length: | 100.00 | | | | |

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Eula 1-30

250 N Water Ste 300
Wichita KS 67202

30 5 29 Decatur KS

Job Ticket: 29248

DST#: 1

ATTN: Rocky Milford

Test Start: 2007.11.09 @ 12:36:21

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------|---------------|
| 126.00 | GCOM 16%g 32%o 52%m | 0.620 |
| 63.00 | GCMCO 15%g 20%m 65%o | 0.401 |
| 63.00 | GCMO 20%G 40%M 40%O | 0.884 |
| 126.00 | GCMO 15%G 35%M 50%O | 1.767 |
| 108.00 | GCO 10%G 90%O | 1.515 |
| 0.00 | Gravity = 19 (corrected) | 0.000 |

Total Length: 486.00 ft

Total Volume: 5.187 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

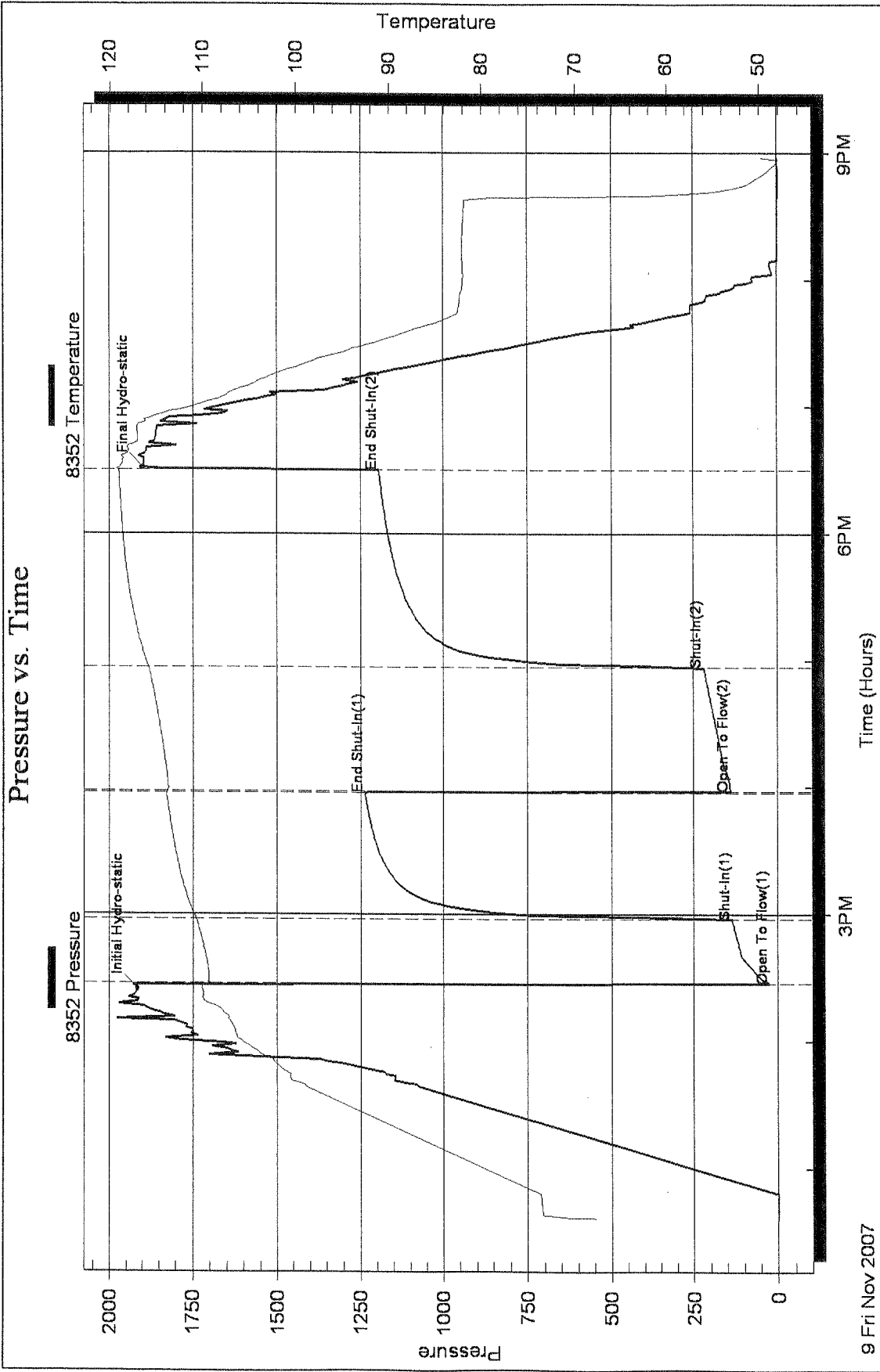
Serial #:

Laboratory Name:

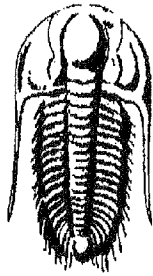
Laboratory Location:

Recovery Comments:

Pressure vs. Time



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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

30 5 29 Decatur KS

Eula 1-30

Start Date: 2007.11.10 @ 08:32:37

End Date: 2007.11.10 @ 17:19:47

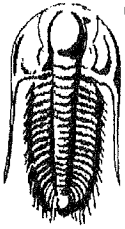
Job Ticket #: 29249 DST #: 2

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FEB 26 2008
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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

Eula 1-30

250 N Water Ste 300
Wichita KS 67202

30 5 29 Decatur KS

ATTN: Rocky Milford

Job Ticket: 29249

DST#: 2

Test Start: 2007.11.10 @ 08:32:37

GENERAL INFORMATION:

Formation: **"E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:36:37

Time Test Ended: 17:19:47

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: 3932.00 ft (KB) To 3980.00 ft (KB) (TVD)

Total Depth: 3980.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2812.00 ft (KB)

2807.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8352

Inside

Press@RunDepth: 185.90 psig @ 3933.00 ft (KB)

Start Date: 2007.11.10

End Date:

2007.11.10

Start Time: 08:32:39

End Time:

17:19:47

Capacity: 7000.00 psig

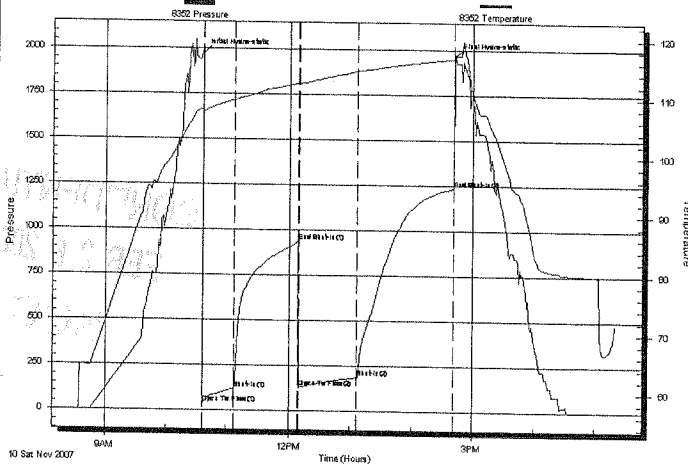
Last Callb.: 2007.11.10

Time On Btm: 2007.11.10 @ 10:36:17

Time Off Btm: 2007.11.10 @ 14:42:37

TEST COMMENT: IF Strong blow BOB 9.25 min.
ISI Blow back built to 4.5 "
FF Fairly strong blow BOB 19 min.
FSI Blow back built to 4 "

Pressure vs. Time



PRESSURE SUMMARY

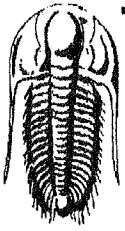
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1977.73 | 108.08 | Initial Hydro-static |
| 1 | 39.81 | 107.65 | Open To Flow (1) |
| 31 | 120.24 | 109.61 | Shut-In(1) |
| 93 | 939.22 | 112.48 | End Shut-In(1) |
| 93 | 130.96 | 112.41 | Open To Flow (2) |
| 151 | 185.90 | 114.58 | Shut-In(2) |
| 246 | 1235.50 | 116.77 | End Shut-In(2) |
| 247 | 1964.86 | 117.57 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------------|--------------|
| 140.00 | GMCO 23%G 29%M 48%O | 0.69 |
| 295.00 | GCO 15%G 85%O | 3.78 |
| 0.00 | 340' GIP 30.5 gravity (corrected) | 0.00 |
| | | |
| | | |

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Eula 1-30

250 N Water Ste 300
Wichita KS 67202

30 5 29 Decatur KS

ATTN: Rocky Milford

Job Ticket: 29249

DST#: 2

Test Start: 2007.11.10 @ 08:32:37

Tool Information

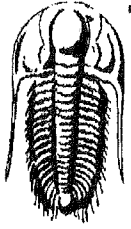
| | | | | |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 3767.00 ft | Diameter: 3.80 inches | Volume: 52.84 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 30000.00 lb |
| Drill Collar: | Length: 179.00 ft | Diameter: 2.25 inches | Volume: 0.88 bbl | Weight to Pull Loose: 65000.00 lb |
| | | Total Volume: | 53.72 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 34.00 ft | | | String Weight: Initial 50000.00 lb |
| Depth to Top Packer: | 3932.00 ft | | | Final 53000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 48.00 ft | | | |
| Tool Length: | 68.00 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 | | | 3917.00 | |
| Hydraulic tool | 5.00 | | | 3922.00 | |
| Packer | 5.00 | | | 3927.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3932.00 | |
| Stubb | 1.00 | | | 3933.00 | |
| Recorder | 0.00 | 6799 | Inside | 3933.00 | |
| Recorder | 0.00 | 8352 | Inside | 3933.00 | |
| Perforations | 10.00 | | | 3943.00 | |
| Blank Spacing | 34.00 | | | 3977.00 | |
| Bullnose | 3.00 | | | 3980.00 | 48.00 Bottom Packers & Anchor |
| Total Tool Length: | 68.00 | | | | |

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Eula 1-30

250 N Water Ste 300
Wichita KS 67202

30 5 29 Decatur KS

Job Ticket: 29249

DST#: 2

ATTN: Rocky Milford

Test Start: 2007.11.10 @ 08:32:37

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 6.38 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------------------|---------------|
| 140.00 | GMCO 23%G 29%M 48%O | 0.688 |
| 295.00 | GCO 15%G 85%O | 3.783 |
| 0.00 | 340' GIP 30.5 gravity (corrected) | 0.000 |

Total Length: 435.00 ft

Total Volume: 4.471 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

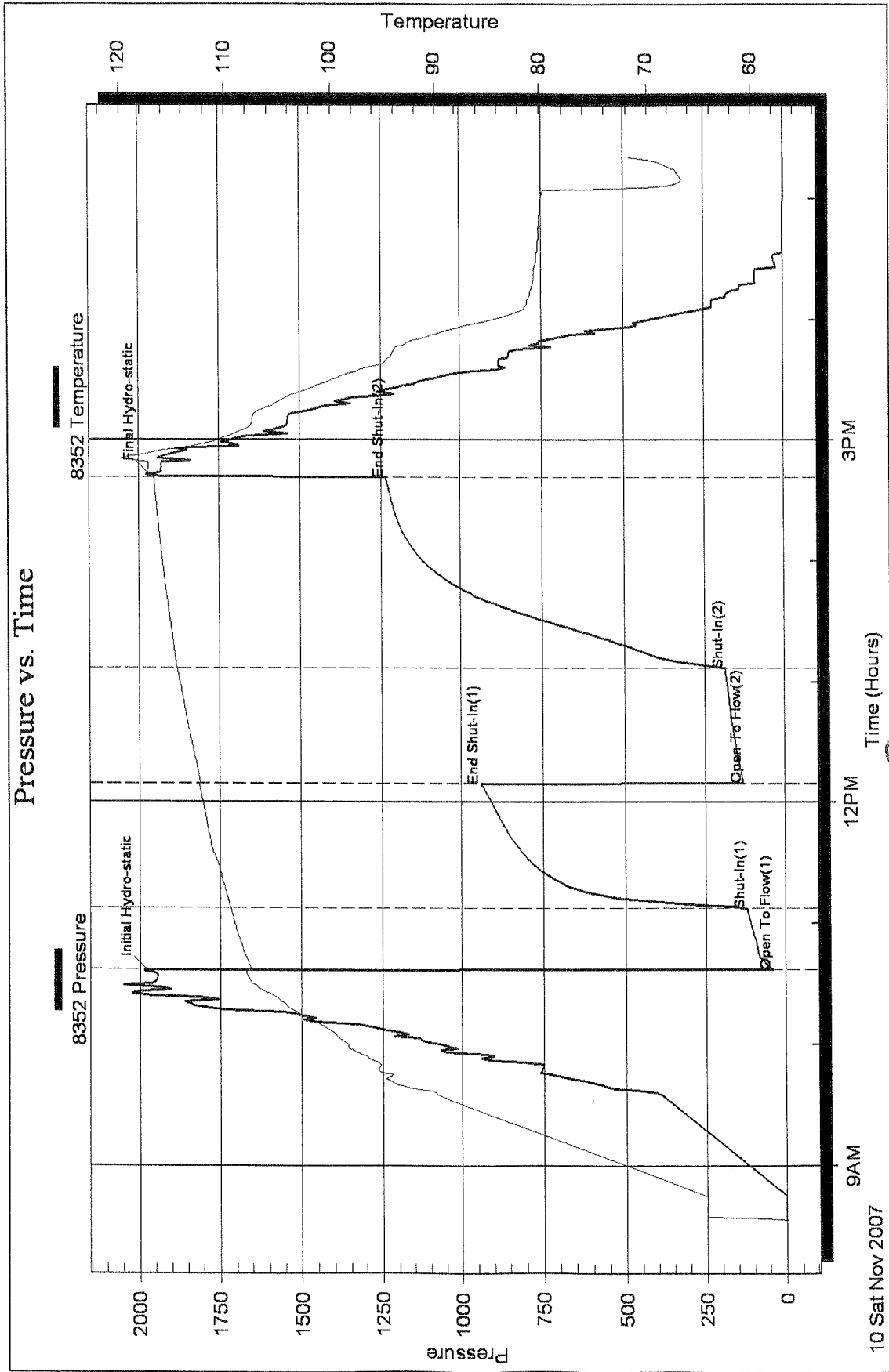
Laboratory Name:

Laboratory Location:

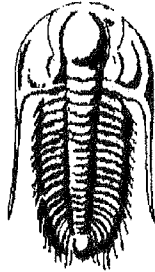
Recovery Comments:

DATE: 11/15/07
TIME: 11:22:40
PAGE: 4

Pressure vs. Time



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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

30 5 29 Decatur KS

Eula 1-30

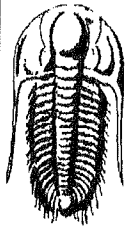
Start Date: 2007.11.11 @ 05:26:58

End Date: 2007.11.11 @ 12:28:48

Job Ticket #: 29250 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

Eula 1-30

250 N Water Ste 300
Wichita KS 67202

30 5 29 Decatur KS

ATTN: Rocky Milford

Job Ticket: 29250

DST#: 3

Test Start: 2007.11.11 @ 05:26:58

GENERAL INFORMATION:

Formation: **"H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:01:48

Time Test Ended: 12:28:48

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: 3979.00 ft (KB) To 4070.00 ft (KB) (TVD)

Total Depth: 4070.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2812.00 ft (KB)

2807.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 6799 Inside

Press@RunDepth: 23.05 psig @ 3980.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.11.11

End Date: 2007.11.11

Last Calib.: 2007.11.11

Start Time: 05:27:00

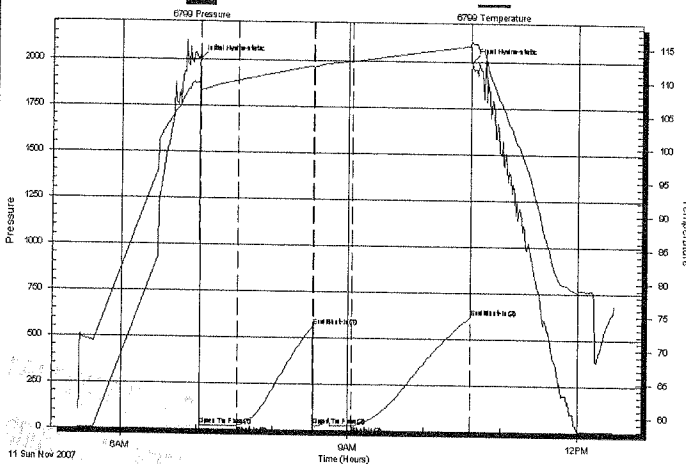
End Time: 12:28:47

Time On Btm: 2007.11.11 @ 07:01:18

Time Off Btm: 2007.11.11 @ 10:36:58

TEST COMMENT: IF Weak blow built to 1.25" in 20 min. blow died to .5" by end of flow
ISI No blow back
FF No blow
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

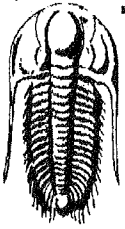
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1999.04 | 109.54 | Initial Hydro-static |
| 1 | 17.94 | 108.81 | Open To Flow (1) |
| 31 | 20.24 | 109.95 | Shut-In(1) |
| 91 | 560.04 | 112.21 | End Shut-In(1) |
| 91 | 22.42 | 112.00 | Open To Flow (2) |
| 122 | 23.05 | 112.93 | Shut-In(2) |
| 215 | 616.11 | 115.34 | End Shut-In(2) |
| 216 | 1997.19 | 116.05 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 7.00 | OSM 2%O 98%M | 0.03 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Eula 1-30

250 N Water Ste 300
Wichita KS 67202

30 5 29 Decatur KS

Job Ticket: 29250

DST#: 3

ATTN: Rocky Milford

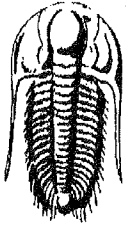
Test Start: 2007.11.11 @ 05:26:58

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3797.00 ft | Diameter: 3.80 inches | Volume: 53.26 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: 30000.00 lb |
| Drill Collar: | Length: 179.00 ft | Diameter: 2.25 inches | Volume: 0.88 bbl | Weight to Pull Loose: 68000.00 lb |
| | | | <u>Total Volume: 54.14 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 17.00 ft | | | String Weight: Initial 50000.00 lb |
| Depth to Top Packer: | 3979.00 ft | | | Final 50000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 91.00 ft | | | |
| Tool Length: | 111.00 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 | | | 3964.00 | |
| Hydraulic tool | 5.00 | | | 3969.00 | |
| Packer | 5.00 | | | 3974.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3979.00 | |
| Stubb | 1.00 | | | 3980.00 | |
| Recorder | 0.00 | 6799 | Inside | 3980.00 | |
| Recorder | 0.00 | 8352 | Inside | 3980.00 | |
| Perforations | 21.00 | | | 4001.00 | |
| Blank Spacing | 66.00 | | | 4067.00 | |
| Bullnose | 3.00 | | | 4070.00 | 91.00 Bottom Packers & Anchor |
| Total Tool Length: | 111.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Eula 1-30

250 N Water Ste 300
Wichita KS 67202

30 5 29 Decatur KS

Job Ticket: 29250

DST#: 3

ATTN: Rocky Milford

Test Start: 2007.11.11 @ 05:26:58

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 7.00 | OSM 2%O 98%M | 0.034 |

Total Length:

7.00 ft

Total Volume:

0.034 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

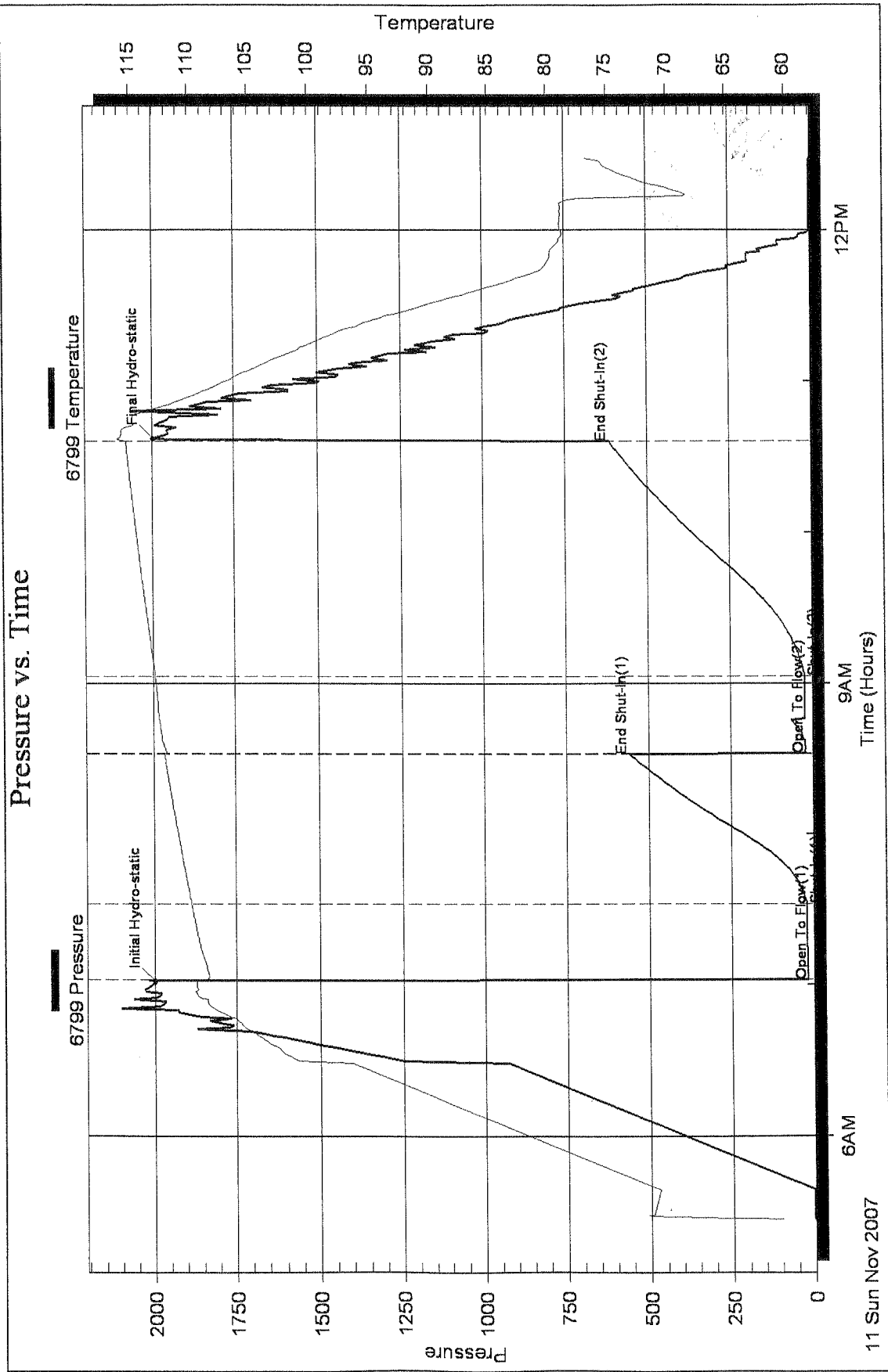
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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