

**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: ~~Clipper Energy~~ *Great Eastern Energy*  
3102 Maple Ave #450  
Dallas TX 75201

*KCC*

ATTN: Steve Murphy

**33 7 21W Graham KS**

**Berland #1**

Start Date: 2007.09.13 @ 17:09:02

End Date: 2007.09.13 @ 23:39:32

Job Ticket #: 30052                      DST #: 1

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

Clipper Energy

Berland #1

33 7 21W Graham KS

DST # 1

Toronto

2007.09.13



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Clipper Energy  
 3102 Maple Ave #450  
 Dallas TX 75201  
 ATTN: Steve Murphy

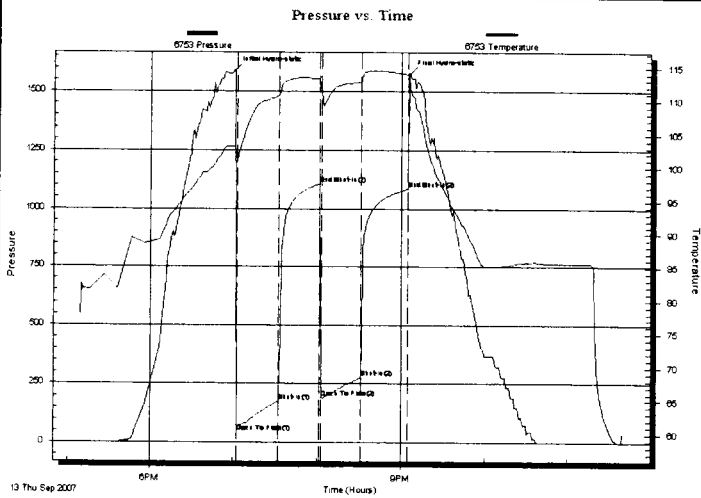
**Berland #1**  
**33 7 21W Graham KS**  
 Job Ticket: 30052      **DST#: 1**  
 Test Start: 2007.09.13 @ 17:09:02

**GENERAL INFORMATION:**

Formation: **Toronto**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 19:02:32  
 Tester: Kyle Kinderknecht  
 Time Test Ended: 23:39:32  
 Unit No: 42  
 Interval: **3296.00 ft (KB) To 3327.00 ft (KB) (TVD)**  
 Reference Elevations: 2095.00 ft (KB)  
 Total Depth: 3327.00 ft (KB) (TVD)  
 2087.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 8.00 ft

**Serial #: 6753      Inside**  
 Press@RunDepth: 276.24 psig @ 3299.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2007.09.13      End Date: 2007.09.13      Last Calib.: 2007.09.13  
 Start Time: 17:09:07      End Time: 23:39:31      Time On Btm: 2007.09.13 @ 19:01:02  
 Time Off Btm: 2007.09.13 @ 21:06:02

**TEST COMMENT:** IF BOB 4 min  
 ISI 7 1/2 "  
 FF Bled off BOB 6 min  
 FSI 1 1/2 "



| PRESSURE SUMMARY |                 |              |                      |
|------------------|-----------------|--------------|----------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation           |
| 0                | 1586.81         | 103.20       | Initial Hydro-static |
| 2                | 40.47           | 100.94       | Open To Flow (1)     |
| 32               | 175.88          | 110.82       | Shut-In (1)          |
| 61               | 1105.46         | 113.28       | End Shut-In (1)      |
| 62               | 189.68          | 111.61       | Open To Flow (2)     |
| 90               | 276.24          | 112.84       | Shut-In (2)          |
| 124              | 1084.62         | 113.94       | End Shut-In (2)      |
| 125              | 1575.11         | 112.31       | Final Hydro-static   |

| Recovery    |                    |              |
|-------------|--------------------|--------------|
| Length (ft) | Description        | Volume (bbl) |
| 135.00      | GOCM 5%G 35%O 60%M | 0.78         |
| 665.00      | GO 10%G 90%O       | 9.43         |
| 100.00      | GIP                | 1.42         |
|             |                    |              |
|             |                    |              |

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

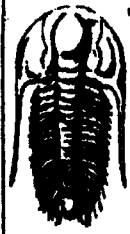
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15-065-23332

33-7s-21w

CONFIDENTIAL

OCT 10 2007



**TRILOBITE TESTING, INC**

### DRILL STEM TEST REPORT

Clipper Energy  
Great Eastern Energy  
ATTN: Steve Murphy

Berland #1  
33-7s-21w  
Job Ticket: 30052  
Test Start: 2007.09.13 @ 17:09:02  
DST#: 1  
KCC

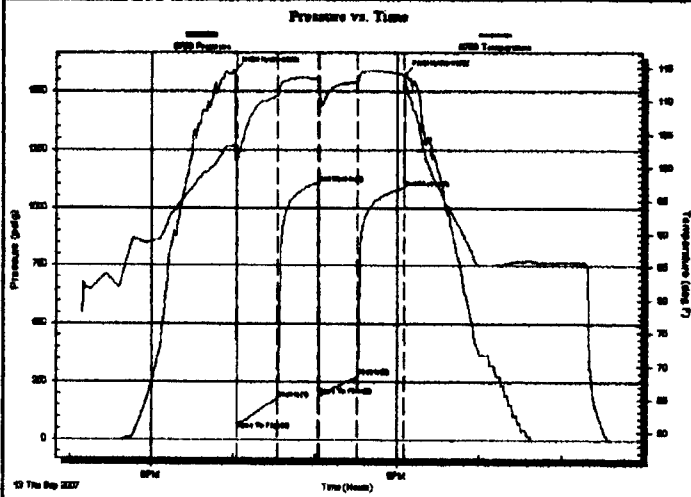
#### GENERAL INFORMATION:

Formation: **Teronto**  
Deviated: No Whipstock ft (KB)  
Time Tool Opened: 19:02:32  
Time Test Ended: 23:39:32  
Interval: **3298.00 ft (KB) To 3327.00 ft (KB) (TVD)**  
Total Depth: **3327.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**  
Tester: **Kyle Kinderknecht**  
Unit No: **42**  
Reference Elevations: **2095.00 ft (KB)**  
**2087.00 ft (CF)**  
KB to GRVCF: **8.00 ft**

Serial #: **6763** Inside  
Press @ Run Depth: **276.24 psig @ 3299.00 ft (KB)** Capacity: **7000.00 psig**  
Start Date: **2007.09.13** End Date: **2007.09.13** Last Calib.: **2007.09.13**  
Start Time: **17:09:02** End Time: **23:39:32** Time On Btm: **2007.09.13 @ 19:01:02**  
Time Off Btm: **2007.09.13 @ 21:06:02**

TEST COMMENT: F- BOB 4 min  
IS- 7 1/2'  
FF- bled off BOB 6 min  
FS- 1 1/2'



| PRESSURE SUMMARY |                 |              |                      |
|------------------|-----------------|--------------|----------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation           |
| 0                | 1586.81         | 103.20       | Initial Hydro-static |
| 2                | 40.47           | 100.94       | Open To Flow (1)     |
| 32               | 175.88          | 110.82       | Shut-In (1)          |
| 61               | 1105.46         | 113.28       | End Shut-In (1)      |
| 62               | 189.68          | 111.61       | Open To Flow (2)     |
| 90               | 276.24          | 112.84       | Shut-In (2)          |
| 124              | 1084.62         | 113.94       | End Shut-In (2)      |
| 125              | 1575.11         | 112.31       | Final Hydro-static   |

#### Recovery

| Length (ft) | Description               | Volume (bbl) |
|-------------|---------------------------|--------------|
| 135.00      | gocm 5% g 35% oil 60% mud | 0.78         |
| 665.00      | go 10% g 90% oil          | 9.43         |
| 100.00      | gip                       | 1.42         |
|             |                           |              |
|             |                           |              |

#### Gas Rates

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

OCT 10 2007

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**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Clipper Energy

Berland #1

**KCC**

33-7a-21w

Job Ticket: 30053

DST#: 2

ATTN: Steve Murphy

Test Start: 2007.09.14 @ 10:30:09

**GENERAL INFORMATION:**

Formation: "LKC"

Deviated: No Whipstock ft (KB)

Time Tool Opened: 12:26:39

Time Test Ended: 17:30:09

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 42

Interval: 3360.00 ft (KB) To 3400.00 ft (KB) (TVD)

Total Depth: 3400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2095.00 ft (KB)

2087.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6763**

Inside

Press@RunDepth: 141.45 psig @ 3352.00 ft (KB)

Start Date: 2007.09.14

End Date: 2007.09.14

Start Time: 10:30:09

End Time: 17:30:09

Capacity: 7000.00 psig

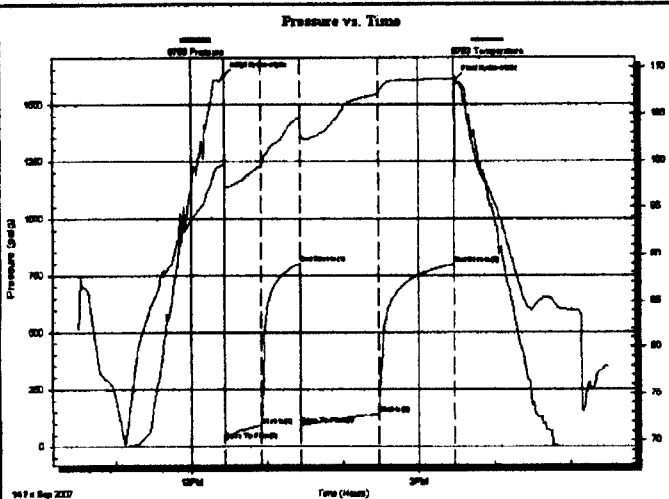
Last Calib.: 2007.09.14

Time On Btm: 2007.09.14 @ 12:26:09

Time Off Btm: 2007.09.14 @ 15:29:09

**TEST COMMENT:**

F- 9'  
IS- surface  
FF- 8 1/2'  
FS- surface



**PRESSURE SUMMARY**

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1621.39         | 99.74        | Initial Hydro-static |
| 1           | 25.53           | 97.39        | Open To Flow (1)     |
| 30          | 90.79           | 99.52        | Shut-In (1)          |
| 60          | 801.17          | 104.66       | End Shut-In (1)      |
| 61          | 95.85           | 102.99       | Open To Flow (2)     |
| 122         | 141.45          | 107.11       | Shut-In (2)          |
| 182         | 798.03          | 108.72       | End Shut-In (2)      |
| 183         | 1605.32         | 108.52       | Final Hydro-static   |

**Recovery**

| Length (ft) | Description             | Volume (bbl) |
|-------------|-------------------------|--------------|
| 100.00      | ocmw 1% oil 74% w 25% m | 0.49         |
| 145.00      | ocmw 5% oil 45% w 50% m | 1.85         |
| 30.00       | co                      | 0.43         |
|             |                         |              |
|             |                         |              |

**Gas Rates**

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

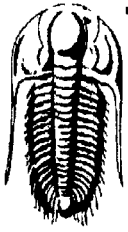
Trilobite Testing, Inc

Ref. No: 30053

Printed: 2007.09.14 @ 17:30:15 Page 1  
RECEIVED  
KANSAS CORPORATION COMMISSION

OCT 10 2007

CONSERVATION DIVISION  
WICHITA, KS



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Clipper Energy

**Berland #1**

3102 Maple Ave #450  
Dallas TX 75201

**33 7 21W Graham KS**

Job Ticket: 30052

**DST#: 1**

ATTN: Steve Murphy

Test Start: 2007.09.13 @ 17:09:02

**Tool Information**

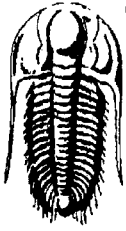
|                           |                    |                         |                   |                        |             |
|---------------------------|--------------------|-------------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3177.00 ft | Diameter: 3.82 inches   | Volume: 45.04 bbl | Tool Weight:           | 3000.00 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: 122.00 ft  | Diameter: 2.25 inches   | Volume: 0.60 bbl  | Weight to Pull Loose:  | 40000.00 lb |
|                           |                    | Total Volume: 45.64 bbl |                   | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 31.00 ft           |                         |                   | String Weight: Initial | 32000.00 lb |
| Depth to Top Packer:      | 3296.00 ft         |                         |                   | Final                  | 33000.00 lb |
| Depth to Bottom Packer:   | ft                 |                         |                   |                        |             |
| Interval between Packers: | 31.00 ft           |                         |                   |                        |             |
| Tool Length:              | 59.00 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        |            |          | 3269.00    |                               |
| Shut In Tool     | 5.00        |            |          | 3274.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3279.00    |                               |
| Jars             | 5.00        |            |          | 3284.00    |                               |
| Safety Joint     | 2.00        |            |          | 3286.00    |                               |
| Packer           | 5.00        |            |          | 3291.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3296.00    |                               |
| Stubb            | 1.00        |            |          | 3297.00    |                               |
| Perforations     | 2.00        |            |          | 3299.00    |                               |
| Recorder         | 0.00        | 6753       | Inside   | 3299.00    |                               |
| Perforations     | 25.00       |            |          | 3324.00    |                               |
| Recorder         | 0.00        | 13534      | Outside  | 3324.00    |                               |
| Bullnose         | 3.00        |            |          | 3327.00    | 31.00 Bottom Packers & Anchor |

**Total Tool Length: 59.00**



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Clipper Energy

**Berland #1**

3102 Maple Ave #450  
Dallas TX 75201

**33 7 21W Graham KS**

Job Ticket: 30052

**DST#: 1**

ATTN: Steve Murphy

Test Start: 2007.09.13 @ 17:09:02

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description        | Volume<br>bbbl |
|--------------|--------------------|----------------|
| 135.00       | GOCM 5%G 35%O 60%M | 0.784          |
| 665.00       | GO 10%G 90%O       | 9.427          |
| 100.00       | GIP                | 1.418          |

Total Length: 900.00 ft

Total Volume: 11.629 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

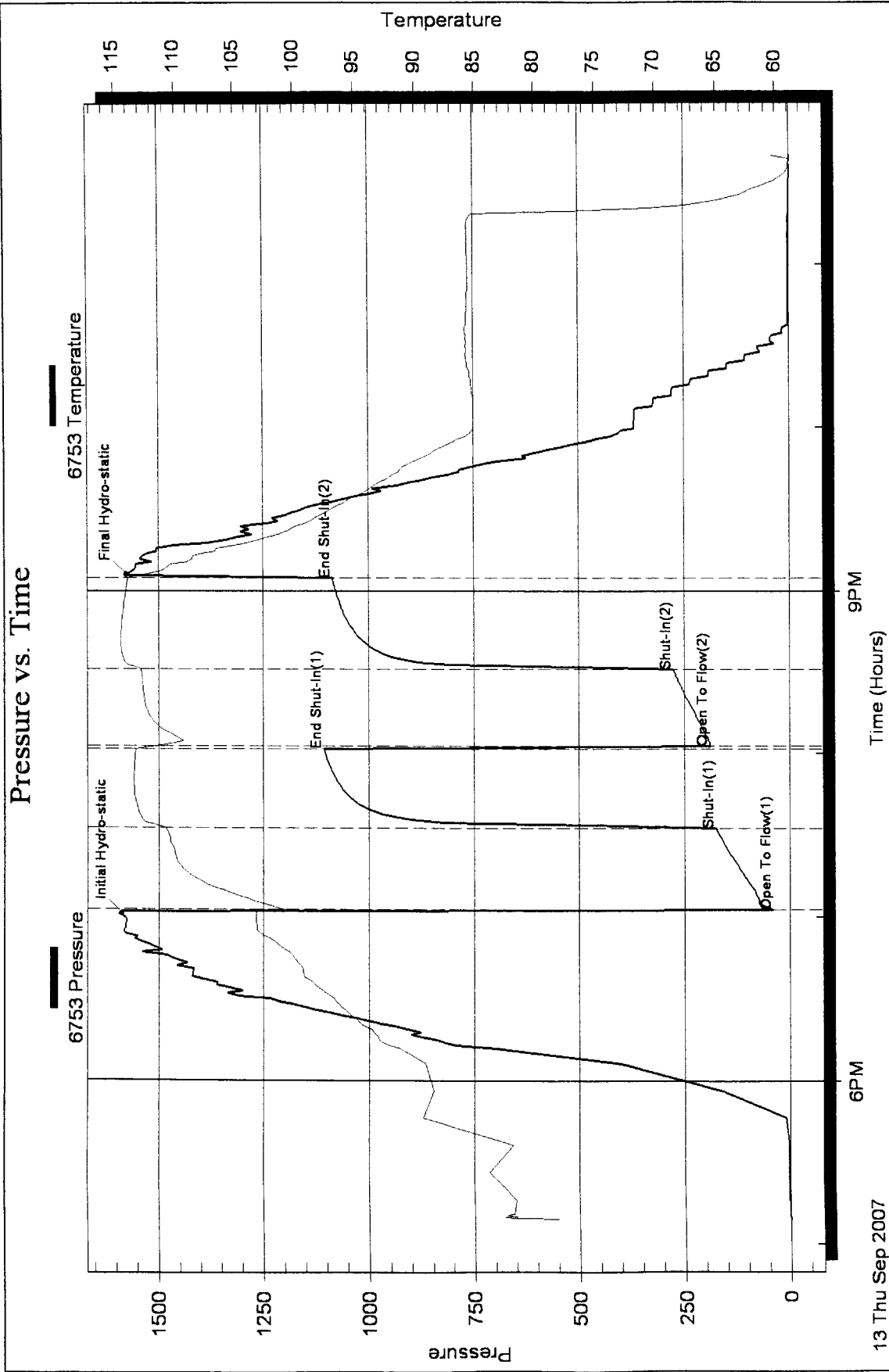
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

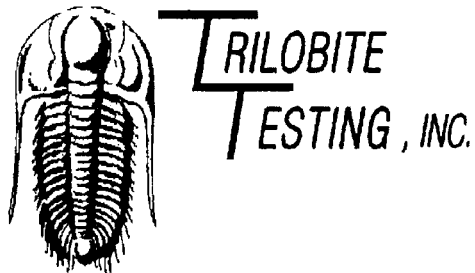


13 Thu Sep 2007

6PM

9PM

Time (Hours)



## DRILL STEM TEST REPORT

Prepared For: ~~Clipper Energy~~ Great Eastern Energy

3102 Maple Ave #450  
Dallas TX 75201

KCC

ATTN: Steve Murphy

**33 7 21W Graham KS**

**Berland #1**

Start Date: 2007.09.14 @ 10:30:09

End Date: 2007.09.14 @ 17:30:09

Job Ticket #: 30053                      DST #: 2

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Clipper Energy  
 3102 Maple Ave #450  
 Dallas TX 75201  
 ATTN: Steve Murphy

**Berland #1**  
**33 7 21W Graham KS**  
 Job Ticket: 30053      **DST#: 2**  
 Test Start: 2007.09.14 @ 10:30:09

## GENERAL INFORMATION:

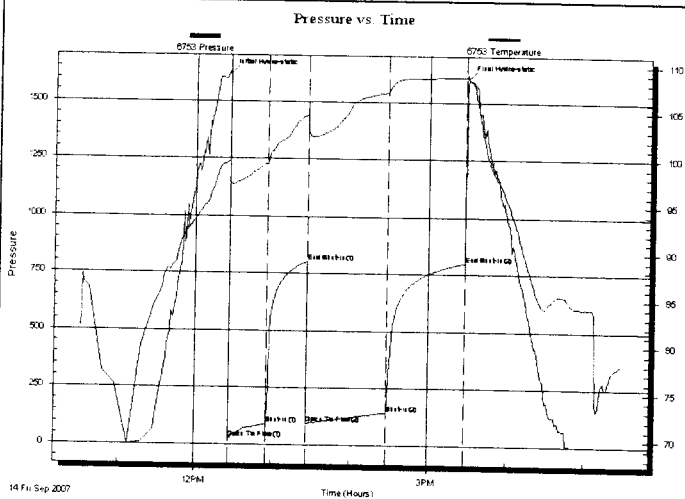
Formation: "LKC"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:26:39  
 Time Test Ended: 17:30:09  
 Interval: 3350.00 ft (KB) To 3400.00 ft (KB) (TVD)  
 Total Depth: 3400.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Kyle Kinderknecht  
 Unit No: 42  
 Reference Elevations: 2095.00 ft (KB)  
 2087.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 6753

Inside

Press@RunDepth: 141.45 psig @ 3352.00 ft (KB)  
 Start Date: 2007.09.14      End Date: 2007.09.14  
 Start Time: 10:30:14      End Time: 17:30:08  
 Capacity: 7000.00 psig  
 Last Calib.: 2007.09.14  
 Time On Btm: 2007.09.14 @ 12:26:09  
 Time Off Btm: 2007.09.14 @ 15:29:09

TEST COMMENT: IF 9 "  
 ISI Surface  
 FF 8 1/2 "  
 FSI Surface



## PRESSURE SUMMARY

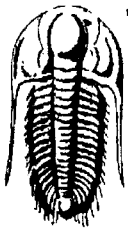
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1621.39         | 99.74        | Initial Hydro-static |
| 1           | 25.53           | 97.39        | Open To Flow (1)     |
| 30          | 90.79           | 99.52        | Shut-In(1)           |
| 60          | 801.17          | 104.66       | End Shut-in(1)       |
| 61          | 95.85           | 102.99       | Open To Flow (2)     |
| 122         | 141.45          | 107.11       | Shut-In(2)           |
| 182         | 798.03          | 108.72       | End Shut-in(2)       |
| 183         | 1605.32         | 108.52       | Final Hydro-static   |

## Recovery

| Length (ft) | Description        | Volume (bbl) |
|-------------|--------------------|--------------|
| 100.00      | OCMW 1%O 74%W 25%M | 0.49         |
| 145.00      | OCMW 5%O 45%W 50%M | 1.85         |
| 30.00       | CO                 | 0.43         |
|             |                    |              |
|             |                    |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Clipper Energy

**Berland #1**

3102 Maple Ave #450  
Dallas TX 75201

**33 7 21W Graham KS**

Job Ticket: 30053

**DST#: 2**

ATTN: Steve Murphy

Test Start: 2007.09.14 @ 10:30:09

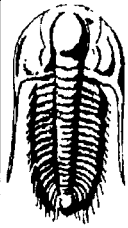
**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3210.00 ft | Diameter: 3.82 inches | Volume: 45.50 bbl              | Tool Weight: 3000.00 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: 122.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl               | Weight to Pull Loose: 42000.00 lb  |
|                           |                    |                       | <b>Total Volume: 46.10 bbl</b> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 10.00 ft           |                       |                                | String Weight: Initial 32000.00 lb |
| Depth to Top Packer:      | 3350.00 ft         |                       |                                | Final 37000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 50.00 ft           |                       |                                |                                    |
| Tool Length:              | 78.00 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        |            |          | 3323.00    |                               |
| Shut In Tool     | 5.00        |            |          | 3328.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3333.00    |                               |
| Jars             | 5.00        |            |          | 3338.00    |                               |
| Safety Joint     | 2.00        |            |          | 3340.00    |                               |
| Packer           | 5.00        |            |          | 3345.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3350.00    |                               |
| Stubb            | 1.00        |            |          | 3351.00    |                               |
| Perforations     | 1.00        |            |          | 3352.00    |                               |
| Recorder         | 0.00        | 6753       | Inside   | 3352.00    |                               |
| Blank Spacing    | 33.00       |            |          | 3385.00    |                               |
| Recorder         | 0.00        | 13534      | Outside  | 3385.00    |                               |
| Perforations     | 12.00       |            |          | 3397.00    |                               |
| Bullnose         | 3.00        |            |          | 3400.00    | 50.00 Bottom Packers & Anchor |

**Total Tool Length: 78.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Clipper Energy

**Berland #1**

3102 Maple Ave #450  
Dallas TX 75201

**33 7 21W Graham KS**

ATTN: Steve Murphy

Job Ticket: 30053

**DST#: 2**

Test Start: 2007.09.14 @ 10:30:09

## 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:

8000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 100.00       | OCMW 1%O 74%W 25%M | 0.492         |
| 145.00       | OCMW 5%O 45%W 50%M | 1.852         |
| 30.00        | CO                 | 0.425         |

Total Length: 275.00 ft      Total Volume: 2.769 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

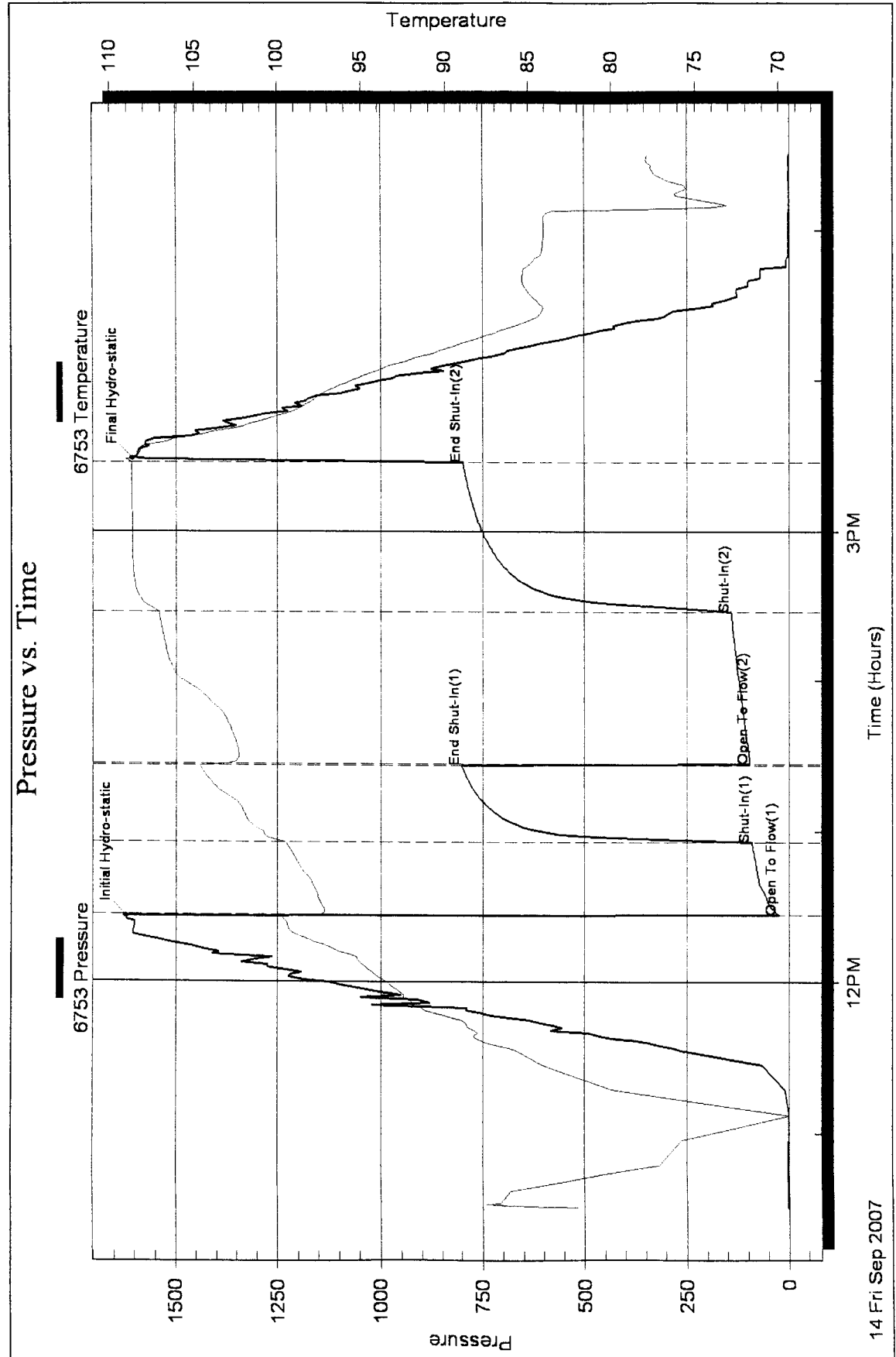
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 80 deg .7 rw

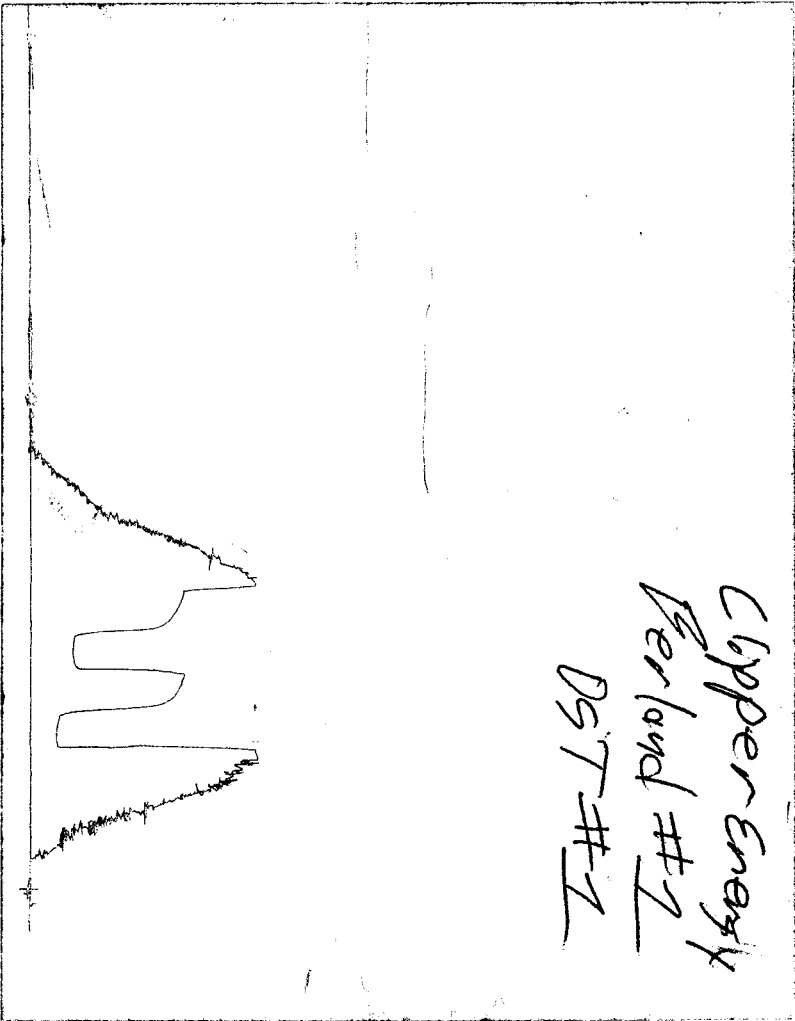
### Pressure vs. Time



**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart

Clipper Energy  
Perland #1  
DST #1



**CHART PAGE**

This is a photocopy of the actual AK-1 recorder chart

Clipper Energy  
Berland #1  
DST #2

