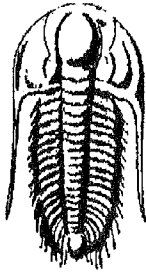


13-14s-16w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co.Inc.**

PO Box 372
Hays, Ks. 67601

ATTN: Al Downing/Ron Nelson

13-14s-16w-Ellis

Hammerschmidt #1-13

Start Date: 2005.10.01 @ 10:14:03

End Date: 2005.10.01 @ 15:54:48

Job Ticket #: 23803 DST #: 1

15-051-25440-00-00

**RECEIVED
MAR 23 2006
KCC WICHITA**

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

Downing Nelson Oil Co.Inc.
Hammerschmidt #1-13
13-14s-16w-Ellis
DST # 1
LKC
2005.10.01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co.Inc.

Hammerschmidt #1-13

PO Box 372
Hays,Ks. 67601

13-14s-16w-Ellis

Job Ticket: 23803 **DST#: 1**

ATTN: Al Dow ning/Ron Nelson67601

Test Start: 2005.10.01 @ 10:14:03

GENERAL INFORMATION:

Formation: **LKC**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 12:18:18
 Time Test Ended: 15:54:48

Test Type: Conventional Bottom Hole
 Tester: Jason McLemore
 Unit No: 32

Interval: **3144.00 ft (KB) To 3194.00 ft (KB) (TVD)**
 Total Depth: 3194.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inchesHole Condition: Good

Reference Elevations: 1898.00 ft (KB)
 1890.00 ft (CF)
 KB to GR/CF: 8.00 ft

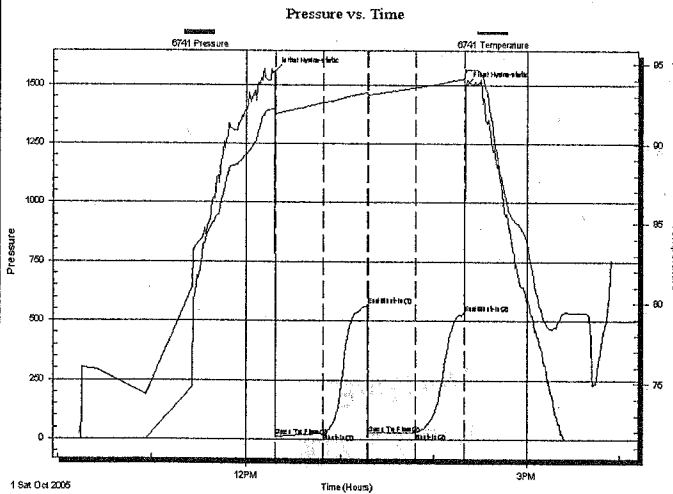
Serial #: 6741

Inside

Press@RunDepth: 28.94 psig @ 3146.00 ft (KB)
 Start Date: 2005.10.01 End Date: 2005.10.01
 Start Time: 10:14:05 End Time: 15:54:48

Capacity: 7000.00 psig
 Last Calib.: 2005.10.01
 Time On Btm: 2005.10.01 @ 12:18:03
 Time Off Btm: 2005.10.01 @ 14:20:33

TEST COMMENT: IFF-Weak Blow , built to 1"
 ISI-Dead
 FFP-Weak Blow , Built to 1/2"
 FSI-Dead



PRESSURE SUMMARY

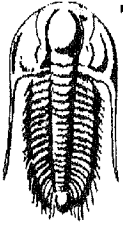
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1553.98 | 92.23 | Initial Hydro-static |
| 1 | 10.34 | 91.86 | Open To Flow (1) |
| 31 | 24.15 | 92.61 | Shut-In(1) |
| 59 | 563.85 | 93.22 | End Shut-In(1) |
| 60 | 26.24 | 93.11 | Open To Flow (2) |
| 91 | 28.94 | 93.55 | Shut-In(2) |
| 122 | 533.68 | 94.10 | End Shut-In(2) |
| 123 | 1497.18 | 94.54 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------|--------------|
| 10.00 | Mud W/Oil Spots in Tool | 0.05 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co.Inc.

Hammerschmidt #1-13

PO Box 372
Hays,Ks. 67601

13-14s-16w-Ellis

Job Ticket: 23803

DST#: 1

ATTN: Al Dow ning/Ron Nelson67601

Test Start: 2005.10.01 @ 10:14:03

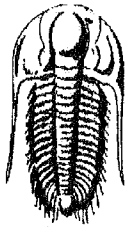
Tool Information

| | | | | |
|---------------------------|--------------------|--------------------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 3110.00 ft | Diameter: 3.80 inches | Volume: 43.63 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 31.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 40000.00 lb |
| | | <u>Total Volume: 43.78 bbl</u> | | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 18.00 ft | | | String Weight: Initial 39000.00 lb |
| Depth to Top Packer: | 3144.00 ft | | | Final 39000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 50.00 ft | | | |
| Tool Length: | 71.00 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 | | | 3124.00 | |
| Shut In Tool | 5.00 | | | 3129.00 | |
| Hydraulic tool | 5.00 | | | 3134.00 | |
| Packer | 5.00 | | | 3139.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3144.00 | |
| Stubb | 1.00 | | | 3145.00 | |
| Perforations | 1.00 | | | 3146.00 | |
| Recorder | 0.00 | 6741 | Inside | 3146.00 | |
| Change Over Sub | 1.00 | | | 3147.00 | |
| Blank Spacing | 31.00 | | | 3178.00 | |
| Change Over Sub | 1.00 | | | 3179.00 | |
| Perforations | 12.00 | | | 3191.00 | |
| Recorder | 0.00 | 13221 | Outside | 3191.00 | |
| Bullnose | 3.00 | | | 3194.00 | 50.00 Bottom Packers & Anchor |

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co. Inc.

Hammerschmidt #1-13

PO Box 372
Hays, Ks. 67601

13-14s-16w-Ellis

Job Ticket: 23803

DST#: 1

ATTN: Al Dow ning/Ron Nelson67601

Test Start: 2005.10.01 @ 10:14:03

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------------------|----------------|
| 10.00 | Mud W/Oil Spots in Tool | 0.049 |

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

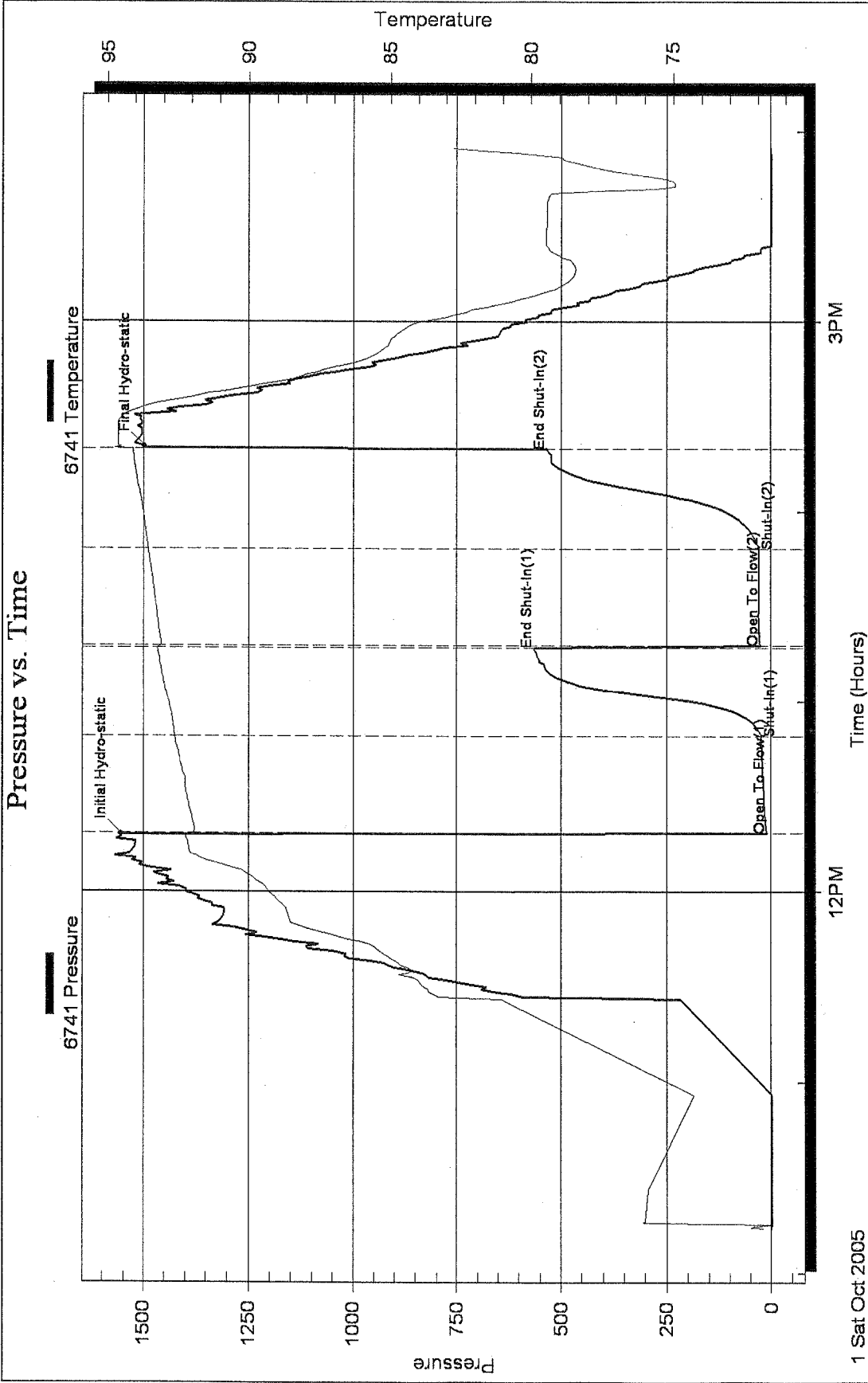
Num Gas Bombs: 0

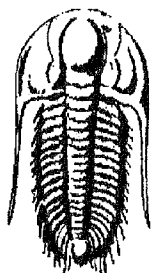
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co.Inc.**

PO Box 372
Hays, Ks. 67601

ATTN: Al Downing/Ron Nelson

13-14s-16w-Ellis

Hammerschmidt #1-13

Start Date: 2005.10.01 @ 12:15:19

End Date: 2005.10.01 @ 18:43:49

Job Ticket #: 23804 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing Nelson Oil Co.Inc.

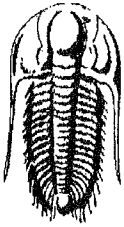
Hammerschmidt #1-13

13-14s-16w-Ellis

DST # 2

LKC-"E-G"

2005.10.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co. Inc.

Hammerschmidt #1-13

PO Box 372
Hays, Ks. 67601

13-14s-16w-Ellis

Job Ticket: 23804

DST#: 2

ATTN: Al Dow ning/Ron Nelson67601

Test Start: 2005.10.01 @ 12:15:19

GENERAL INFORMATION:

Formation: **LKC-"E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:08:04

Time Test Ended: 18:43:49

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 32

Interval: **3190.00 ft (KB) To 3260.00 ft (KB) (TVD)**

Total Depth: 3260.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 1898.00 ft (KB)

1890.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6741 Inside

Press@RunDepth: 72.15 psig @ 3195.00 ft (KB)

Start Date: 2005.10.01

End Date:

2005.10.01

Start Time: 12:15:21

End Time:

18:43:49

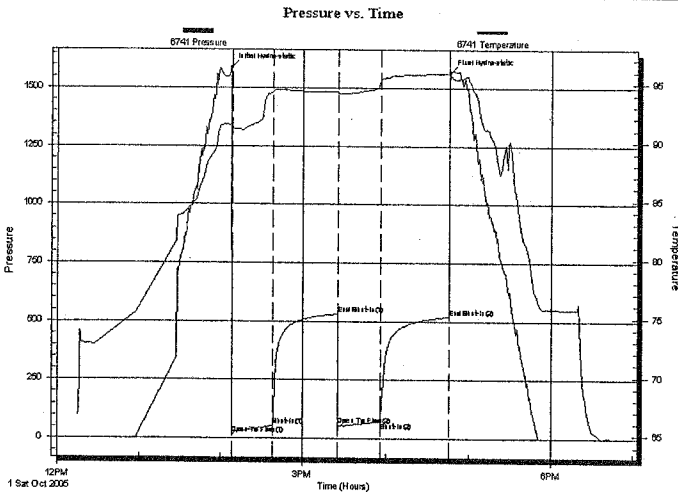
Capacity: 7000.00 psig

Last Calib.: 2005.10.02

Time On Btm: 2005.10.01 @ 14:07:34

Time Off Btm: 2005.10.01 @ 16:45:49

TEST COMMENT: IFF-Weak Blow ,Built to 6-1/4"
ISI-Dead
FFP-Weak Blow , Built to 6"
FSI-Dead



PRESSURE SUMMARY

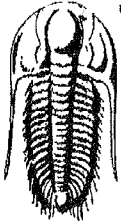
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1586.69 | 91.50 | Initial Hydro-static |
| 1 | 15.24 | 91.15 | Open To Flow (1) |
| 31 | 54.81 | 94.35 | Shut-In(1) |
| 78 | 531.08 | 94.28 | End Shut-In(1) |
| 78 | 56.25 | 94.18 | Open To Flow (2) |
| 108 | 72.15 | 95.26 | Shut-In(2) |
| 158 | 518.91 | 95.89 | End Shut-In(2) |
| 159 | 1567.41 | 95.98 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 125.00 | Mud | 1.47 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co.Inc.

Hammerschmidt #1-13

PO Box 372
Hays,Ks. 67601

13-14s-16w-Ellis

Job Ticket: 23804

DST#: 2

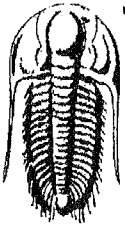
ATTN: Al Dow ning/Ron Nelson67601

Test Start: 2005.10.01 @ 12:15:19

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3171.00 ft | Diameter: 3.80 inches | Volume: 44.48 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 31.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 50000.00 lb |
| | | | <u>Total Volume: 44.63 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 33.00 ft | | | String Weight: Initial 40000.00 lb |
| Depth to Top Packer: | 3190.00 ft | | | Final 40000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 70.00 ft | | | |
| Tool Length: | 91.00 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 | | | 3170.00 | |
| Shut In Tool | 5.00 | | | 3175.00 | |
| Hydraulic tool | 5.00 | | | 3180.00 | |
| Packer | 5.00 | | | 3185.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3190.00 | |
| Stubb | 1.00 | | | 3191.00 | |
| Perforations | 3.00 | | | 3194.00 | |
| Change Over Sub | 1.00 | | | 3195.00 | |
| Recorder | 0.00 | 6741 | Inside | 3195.00 | |
| Blank Spacing | 31.00 | | | 3226.00 | |
| Change Over Sub | 1.00 | | | 3227.00 | |
| Perforations | 30.00 | | | 3257.00 | |
| Recorder | 0.00 | 13221 | Outside | 3257.00 | |
| Bullnose | 3.00 | | | 3260.00 | 70.00 Bottom Packers & Anchor |
| Total Tool Length: | | 91.00 | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co.Inc.

Hammerschmidt #1-13

PO Box 372
Hays,Ks. 67601

13-14s-16w-Ellis

Job Ticket: 23804

DST#: 2

ATTN: Al Dow ning/Ron Nelson67601

Test Start: 2005.10.01 @ 12:15:19

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 125.00 | Mud | 1.471 |

Total Length: 125.00 ft

Total Volume: 1.471 bbl

Num Fluid Samples: 0

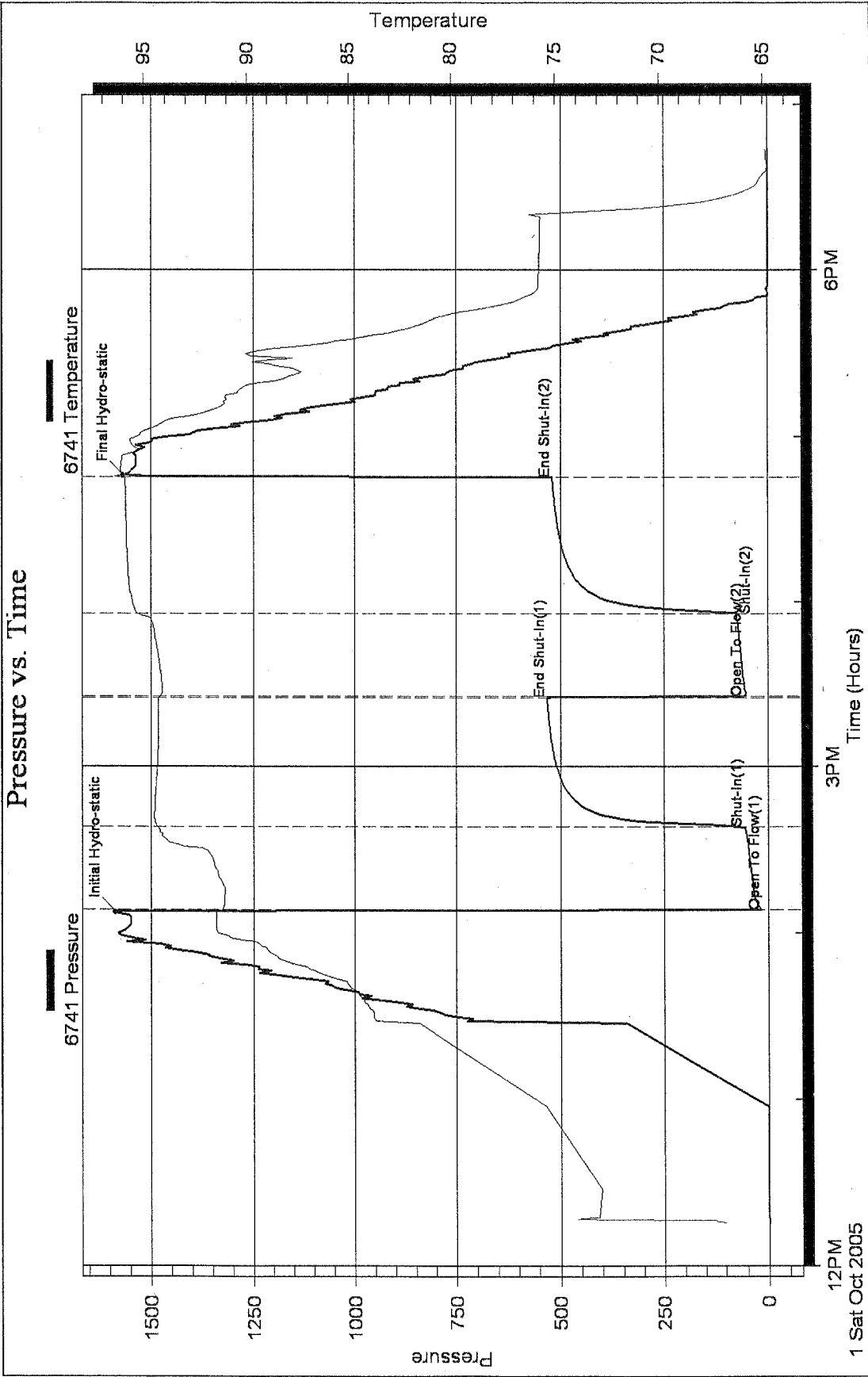
Num Gas Bombs: 0

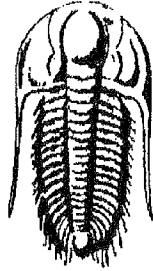
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co.Inc.**

PO Box 372
Hays, Ks. 67601

ATTN: Al Downing/Ron Nelson

13-14s-16w-Ellis

Hammerschmidt #1-13

Start Date: 2005.10.02 @ 15:16:13

End Date: 2005.10.02 @ 21:37:43

Job Ticket #: 23805 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing Nelson Oil Co.Inc.

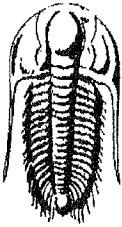
Hammerschmidt #1-13

13-14s-16w-Ellis

DST # 3

LKC-Lower

2005.10.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co.Inc.

Hammerschmidt #1-13

PO Box 372
Hays,Ks. 67601

13-14s-16w-Ellis

Job Ticket: 23805

DST#: 3

ATTN: Al Dow ning/Ron Nelson67601

Test Start: 2005.10.02 @ 15:16:13

GENERAL INFORMATION:

Formation: **LKC-Lower**

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

Time Tool Opened: 17:08:13

Time Test Ended: 21:37:43

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **32**

Interval: **3255.00 ft (KB) To 3331.00 ft (KB) (TVD)**

Total Depth: **3331.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches**Hole Condition: **Good**

Reference Elevations: **1898.00 ft (KB)**

1890.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 6741 **Inside**

Press@RunDepth: **45.19 psig @ 3259.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.10.02** End Date: **2005.10.02**

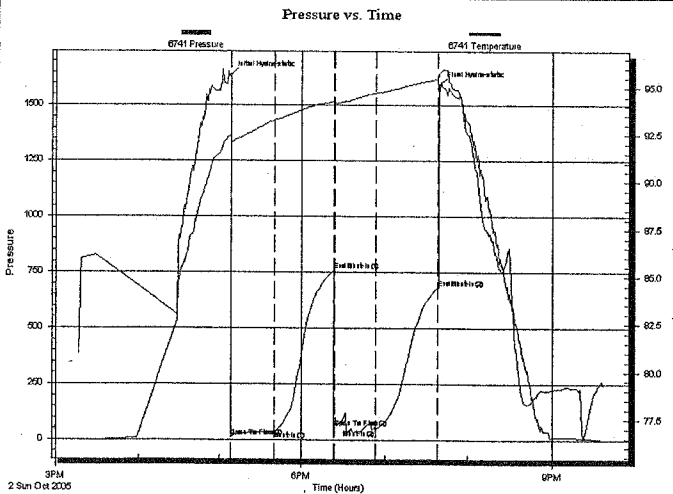
Last Calib.: **2005.10.02**

Start Time: **15:16:15** End Time: **21:37:43**

Time On Btm: **2005.10.02 @ 17:07:58**

Time Off Btm: **2005.10.02 @ 19:39:13**

TEST COMMENT: IFP-Weak Blow ,Built to 2-3/4"
ISI-Dead
FFP-Weak Blow ,Built to 5"
FSI-Dead



PRESSURE SUMMARY

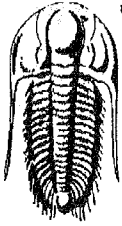
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1634.13 | 92.43 | Initial Hydro-static |
| 1 | 14.32 | 92.03 | Open To Flow (1) |
| 33 | 36.76 | 93.28 | Shut-In(1) |
| 75 | 757.48 | 94.27 | End Shut-In(1) |
| 76 | 57.10 | 94.08 | Open To Flow (2) |
| 106 | 45.19 | 94.69 | Shut-In(2) |
| 151 | 683.45 | 95.45 | End Shut-In(2) |
| 152 | 1591.05 | 95.71 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 65.00 | OCM-20%O-80%M | 0.63 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co. Inc.

Hammerschmidt #1-13

PO Box 372
Hays, Ks. 67601

13-14s-16w-Ellis

Job Ticket: 23805

DST#: 3

ATTN: Al Dow ning/Ron Nelson67601

Test Start: 2005.10.02 @ 15:16:13

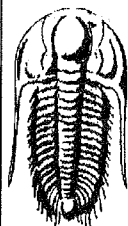
Tool Information

| | | | | |
|----------------------------|--------------------|-----------------------|--------------------------------|-----------------------------------|
| Drill Pipe: | Length: 3234.00 ft | Diameter: 3.80 inches | Volume: 45.36 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 31.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 44000.00 lb |
| | | | <u>Total Volume: 45.51 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 31.00 ft | | | String Weight: Initial 4000.00 lb |
| Depth to Top Packer: | 3255.00 ft | | | Final 4000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval betw een Packers: | 76.00 ft | | | |
| Tool Length: | 97.00 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 | | | 3235.00 | |
| Shut In Tool | 5.00 | | | 3240.00 | |
| Hydraulic tool | 5.00 | | | 3245.00 | |
| Packer | 5.00 | | | 3250.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3255.00 | |
| Stubb | 1.00 | | | 3256.00 | |
| Perforations | 3.00 | | | 3259.00 | |
| Recorder | 0.00 | 6741 | Inside | 3259.00 | |
| Change Over Sub | 1.00 | | | 3260.00 | |
| Blank Spacing | 62.00 | | | 3322.00 | |
| Change Over Sub | 1.00 | | | 3323.00 | |
| Perforations | 5.00 | | | 3328.00 | |
| Recorder | 0.00 | 13221 | Outside | 3328.00 | |
| Bullnose | 3.00 | | | 3331.00 | 76.00 Bottom Packers & Anchor |

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co. Inc.

Hammerschmidt #1-13

PO Box 372
Hays, Ks. 67601

13-14s-16w-Ellis

Job Ticket: 23805

DST#: 3

ATTN: Al Downing/Ron Nelson 67601

Test Start: 2005.10.02 @ 15:16:13

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---------------|----------------|
| 65.00 | OCM-20%O-80%M | 0.629 |

Total Length: 65.00 ft

Total Volume: 0.629 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

