

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Ernst Oil Co**

1234 Walker Ave
Walker KS 67674

ATTN: Pat Balthazor

33 9S16W Rooks KS

Plante #1

Start Date: 2006.06.06 @ 20:32:43

End Date: 2006.06.07 @ 00:16:58

Job Ticket #: 25382 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Ernst Oil Co

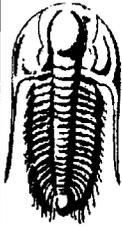
Plante #1

33 9S16W Rooks KS

DST # 1

Toronto

2006.06.06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ernst Oil Co
 1234 Walker Ave
 Walker KS 67674
 ATTN: Pat Balthazor

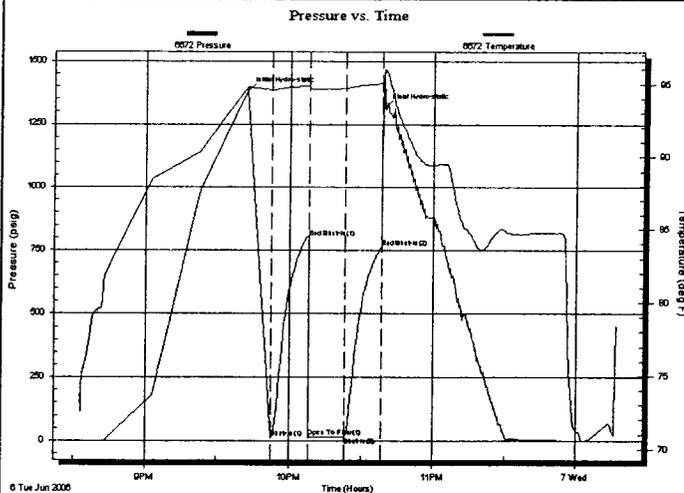
Plante #1
33 9S16W Rooks KS
 Job Ticket: 25382 **DST#: 1**
 Test Start: 2006.06.06 @ 20:32:43

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:08:13
 Time Test Ended: 00:16:58
 Interval: **2954.00 ft (KB) To 3028.00 ft (KB) (TVD)**
 Total Depth: 3028.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Joe
 Unit No: 22
 Reference Elevations: 2067.00 ft (KB)
 2062.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6672 Inside
 Press@RunDepth: 16.09 psig @ 2988.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2006.06.06 End Date: 2006.06.07 Last Calib.: 2006.06.07
 Start Time: 20:32:45 End Time: 00:16:58 Time On Btm: 2006.06.06 @ 21:42:43
 Time Off Btm: 2006.06.06 @ 22:39:28

TEST COMMENT: IF Weak Surface Blow Died after 3 min
 ISI Dead
 FF Dead
 FSI Dead



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1381.58 | 94.80 | Initial Hydro-static |
| 10 | 12.77 | 94.56 | Shut-In(1) |
| 26 | 797.94 | 94.84 | End Shut-In(1) |
| 26 | 14.62 | 94.64 | Open To Flow (1) |
| 41 | 16.09 | 94.72 | Shut-In(2) |
| 56 | 762.70 | 95.02 | End Shut-In(2) |
| 57 | 1316.75 | 95.98 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 3.00 | DM | 0.04 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ernst Oil Co
1234 Walker Ave
Walker KS 67674
ATTN: Pat Balthazor

Plante #1
33 9S16W Rooks KS
Job Ticket: 25382 **DST#: 1**
Test Start: 2006.06.06 @ 20:32:43

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2937.00 ft | Diameter: 3.80 inches | Volume: 41.20 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight set on Packer: 30000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 35000.00 lb |
| | | | Total Volume: 41.20 bbl | Tool Chased 5.00 ft |
| Drill Pipe Above KB: | 3.00 ft | | | String Weight: Initial 32000.00 lb |
| Depth to Top Packer: | 2954.00 ft | | | Final 32000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 74.00 ft | | | |
| Tool Length: | 94.00 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 | | | 2939.00 | |
| Hydraulic tool | 5.00 | | | 2944.00 | |
| Packer | 5.00 | | | 2949.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 2954.00 | |
| Stubb | 1.00 | | | 2955.00 | |
| Change Over Sub | 1.00 | | | 2956.00 | |
| Blank Spacing | 31.00 | | | 2987.00 | |
| Change Over Sub | 1.00 | | | 2988.00 | |
| Recorder | 0.00 | 6672 | Inside | 2988.00 | |
| Perforations | 37.00 | | | 3025.00 | |
| Recorder | 0.00 | 11020 | Inside | 3025.00 | |
| Bullnose | 3.00 | | | 3028.00 | 74.00 Bottom Packers & Anchor |

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ernst Oil Co

Plante #1

1234 Walker Ave
Walker KS 67674

33 9S16W Rooks KS

Job Ticket: 25382

DST#: 1

ATTN: Pat Balthazor

Test Start: 2006.06.06 @ 20:32:43

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: 49.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.79 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 3.00 | DM | 0.042 |

Total Length: 3.00 ft Total Volume: 0.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

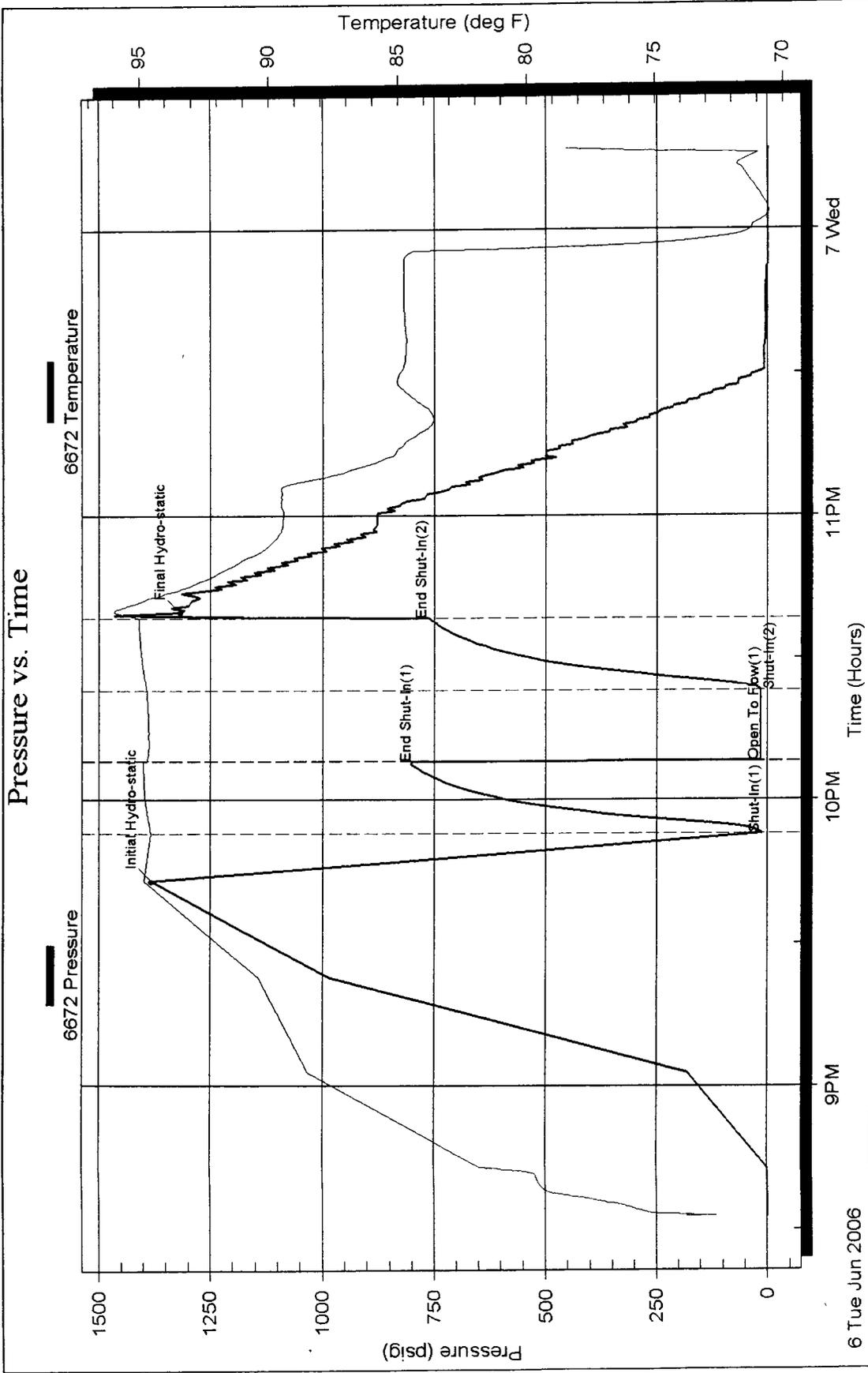
Serial #: 6672

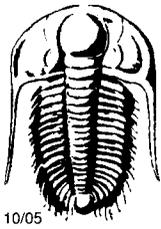
Inside

Ernst Oil Co

33-9S16W Rooks KS

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8872

25382

Test Ticket

| | | |
|---|----------------------------|--------------------|
| Well Name & No. <u>Plante #1</u> | Test No. <u>1</u> | Date <u>6-6-06</u> |
| Company <u>Ernst Oil Co</u> | Zone Tested <u>Toronto</u> | |
| Address <u>1234 Walker Ave Walker KS 67674</u> | Elevation <u>2067</u> | KB <u>2062</u> GL |
| Co. Rep / Geo. <u>Pat Balthazor</u> | Rig <u>AA</u> | |
| Location: Sec. <u>33</u> Twp. <u>9S</u> Rge. <u>16W</u> | Co. <u>Rooks</u> | State <u>Ks</u> |
| Comment: _____ | Release date / time: _____ | |

| | | |
|--|-----------------------------------|------------------------------------|
| Interval Tested <u>2954 - 3028</u> | Initial Str Wt./Lbs. <u>32000</u> | Unseated Str Wt./Lbs. <u>32000</u> |
| Anchor Length <u>74</u> | Wt. Set Lbs. <u>30000</u> | Wt. Pulled Loose/Lbs. <u>35000</u> |
| Top Packer Depth <u>2949</u> | Tool Weight <u>2000</u> | |
| Bottom Packer Depth <u>2954</u> | Hole Size <u>7 7/8"</u> | Rubber Size <u>6 3/4"</u> ✓ |
| Total Depth <u>3028</u> | Wt. Pipe Run _____ | Drill Collar Run _____ |
| Mud Wt. <u>9.4</u> LCM <u>1/4</u> Vis. <u>49</u> WL <u>88</u> | Drill Pipe Size <u>4 1/2 X 14</u> | Ft. Run <u>2937</u> |
| Blow Description <u>I-F - Weak Surface Blow Died after 3 min</u> | | |
| <u>I-SI - Dead</u> | | |
| <u>I-F - Dead</u> | | |
| <u>I-SI - Dead</u> | | |

| Recovery - Total Feet | GIP | Ft. in DC | Ft. in DP | %gas | %oil | %water | %mud |
|-----------------------|---------------------|----------------|----------------------------|--------------|------|--------|------|
| Rec. <u>3</u> | Feet of <u>DM</u> | | | | | | |
| Rec. _____ | Feet of _____ | | | | | | |
| Rec. _____ | Feet of _____ | | | | | | |
| Rec. _____ | Feet of _____ | | | | | | |
| Rec. _____ | Feet of _____ | | | | | | |
| BHT <u>95</u> | °F Gravity _____ | °API D @ _____ | °F Corrected Gravity _____ | °API _____ | | | |
| RW _____ @ _____ °F | Chlorides _____ ppm | Recovery _____ | Chlorides _____ ppm | System _____ | | | |

| | AK-1 | Alpine | Recorder No. | Test |
|----------------------------------|-------------|--------|----------------------------------|-----------------------------------|
| (A) Initial Hydrostatic Mud | <u>1382</u> | PSI | <u>6672</u> | ✓ <u>1000.</u> |
| (B) First Initial Flow Pressure | <u>11</u> | PSI | (depth) <u>2988</u> | Jars _____ |
| (C) First Final Flow Pressure | <u>13</u> | PSI | Recorder No. _____ | Safety Jt. _____ |
| (D) Initial Shut-In Pressure | <u>798</u> | PSI | (depth) _____ | Circ Sub _____ |
| (E) Second Initial Flow Pressure | <u>15</u> | PSI | Recorder No. <u>11020</u> | Sampler _____ |
| (F) Second Final Flow Pressure | <u>16</u> | PSI | (depth) <u>3025</u> | Straddle _____ |
| (G) Final Shut-In Pressure | <u>763</u> | PSI | Initial Opening <u>15</u> | Ext. Packer _____ |
| (Q) Final Hydrostatic Mud | <u>1317</u> | PSI | Initial Shut-In <u>15</u> | Shale Packer _____ |
| | | | Final Flow <u>15</u> | Ruined Packer _____ |
| | | | Final Shut-In <u>15</u> | Mileage <u>42.84</u> <u>53.55</u> |

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Joe Ramsey
 Our Representative Pat Balthazor

T-On Location

| | | |
|-----------|--------------|-----------------|
| T-Started | <u>20 32</u> | Std. By _____ |
| T-Open | <u>21 35</u> | Acc. Chg: _____ |
| T-Pulled | <u>22 55</u> | Other: _____ |
| T-Out | <u>24 00</u> | Total: _____ |

CHART PAGE

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

