

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

## DRILL STEM TEST REPORT

Prepared For: **D- Oil Inc.**

P.O. Box 259  
Victoria, Ks 67671

ATTN: Bob O'Dell

**29-13s-16w Ellis**

**Mermis #2**

Start Date: 2005.02.28 @ 10:30:28

End Date: 2005.02.28 @ 16:26:18

Job Ticket #: 20509                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

D- Oil Inc.

Mermis #2

29-13s-16w Ellis

DST # 1

Arbuckle

2005.02.28



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

D- Oil Inc.  
 P.O. Box 259  
 Victoria, Ks 67671  
 ATTN: Bob O'Dell

**Mermis #2**  
**29-13s-16w Ellis**  
 Job Ticket: 20509      **DST#: 1**  
 Test Start: 2005.02.28 @ 10:30:28

## GENERAL INFORMATION:

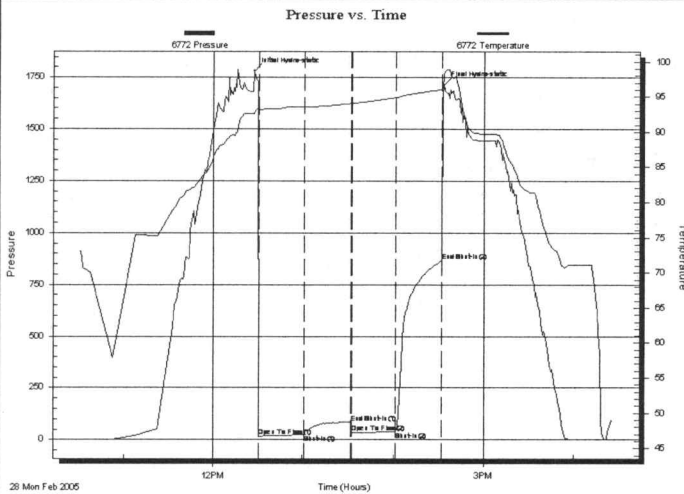
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:30:33  
 Time Test Ended: 16:26:18  
 Interval: **3501.00 ft (KB) To 3510.00 ft (KB) (TVD)**  
 Total Depth: 3510.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Brandon Turley  
 Unit No: 18  
 Reference Elevations: 1955.00 ft (KB)  
 1950.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 6772

Inside

Press@RunDepth: 40.55 psig @ 3511.00 ft (KB) Capacity: 7000.00 psig  
 Start Date: 2005.02.28 End Date: 2005.02.28 Last Calib.: 1899.12.30  
 Start Time: 10:30:28 End Time: 16:26:18 Time On Btm: 2005.02.28 @ 12:28:03  
 Time Off Btm: 2005.02.28 @ 14:33:03

TEST COMMENT: IF: Weak surface blow that never died in 30 min.  
 IS: Weak surface blow that never died.  
 FF: Weak surface blow that never died.  
 FS: No return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1780.31         | 92.58        | Initial Hydro-static |
| 3           | 15.95           | 92.42        | Open To Flow (1)     |
| 33          | 26.29           | 93.50        | Shut-In(1)           |
| 64          | 82.61           | 94.03        | End Shut-In(1)       |
| 65          | 32.83           | 94.03        | Open To Flow (2)     |
| 94          | 40.55           | 94.88        | Shut-In(2)           |
| 124         | 866.96          | 96.03        | End Shut-In(2)       |
| 125         | 1714.75         | 98.04        | Final Hydro-static   |

## Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 60.00       | w cm 40%w 60%m | 0.84         |
|             |                |              |
|             |                |              |
|             |                |              |
|             |                |              |

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

D- Oil Inc.  
P.O. Box 259  
Victoria, Ks 67671  
ATTN: Bob O'Dell

**Mermis #2**  
**29-13s-16w Ellis**  
Job Ticket: 20509      **DST#: 1**  
Test Start: 2005.02.28 @ 10:30:28

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3516.00 ft | Diameter: 3.80 inches | Volume: 49.32 bbl              | Tool Weight: 1000.00 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: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 74000.00 lb  |
|                           |                    |                       | <u>Total Volume: 49.32 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 26.00 ft           |                       |                                | String Weight: Initial 42000.00 lb |
| Depth to Top Packer:      | 3510.00 ft         |                       |                                | Final 44000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 9.00 ft            |                       |                                |                                    |
| Tool Length:              | 29.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |
| Tool Comments:            |                    |                       |                                |                                    |

### Tool Description

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                    |
|---------------------------|--------------|------------|----------|------------|-----------------------------------|
| Stubb                     | 1.00         |            |          | 3491.00    |                                   |
| Shut In Tool              | 5.00         |            |          | 3496.00    |                                   |
| Hydraulic tool            | 5.00         |            |          | 3501.00    |                                   |
| Packer                    | 5.00         |            |          | 3506.00    | 20.00      Bottom Of Top Packer   |
| Packer                    | 4.00         |            | Fluid    | 3510.00    |                                   |
| Stubb                     | 1.00         |            |          | 3511.00    |                                   |
| Recorder                  | 0.00         | 6772       | Inside   | 3511.00    |                                   |
| Perforations              | 3.00         |            |          | 3514.00    |                                   |
| Recorder                  | 0.00         | 10248      | Outside  | 3514.00    |                                   |
| Bullnose                  | 5.00         |            |          | 3519.00    | 9.00      Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>29.00</b> |            |          |            |                                   |



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

D- Oil Inc.  
P.O. Box 259  
Victoria, Ks 67671  
ATTN: Bob O'Dell

**Mermis #2**  
**29-13s-16w Ellis**  
Job Ticket: 20509      **DST#: 1**  
Test Start: 2005.02.28 @ 10:30:28

**Mud and Cushion Information**

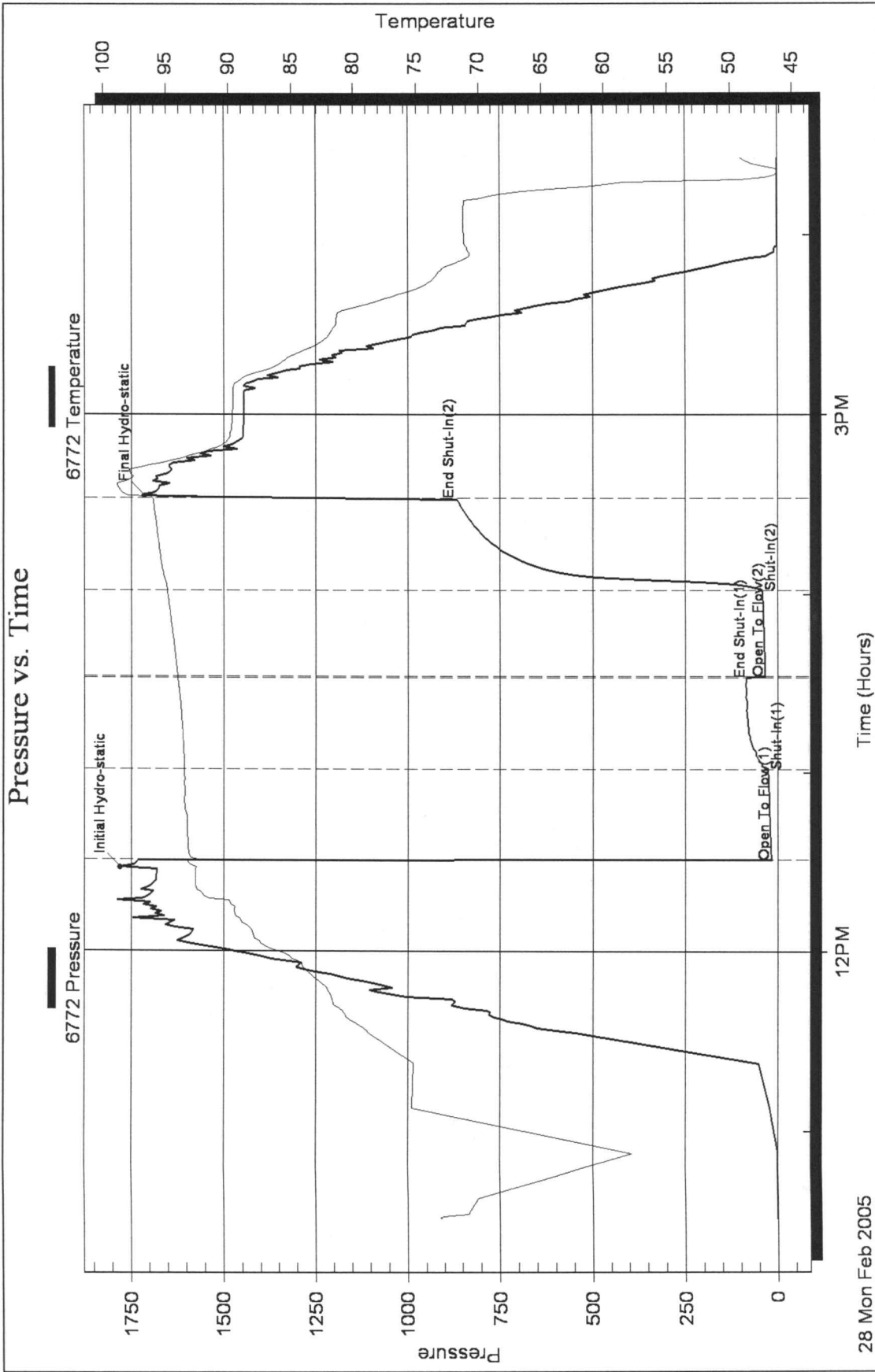
|                                   |                            |                           |
|-----------------------------------|----------------------------|---------------------------|
| Mud Type: Gel Chem                | Cushion Type:              | Oil API: 0 deg API        |
| Mud Weight: 9.00 lb/gal           | Cushion Length: ft         | Water Salinity: 17000 ppm |
| Viscosity: 47.00 sec/qt           | Cushion Volume: bbl        |                           |
| Water Loss: 11.16 in <sup>3</sup> | Gas Cushion Type:          |                           |
| Resistivity: 0.00 ohm.m           | Gas Cushion Pressure: psig |                           |
| Salinity: 1200.00 ppm             |                            |                           |
| Filter Cake: 1.00 inches          |                            |                           |

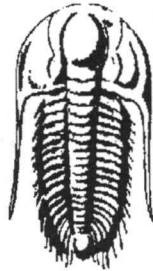
**Recovery Information**

Recovery Table

| Length<br>ft | Description    | Volume<br>bbl |
|--------------|----------------|---------------|
| 60.00        | w cm 40%w 60%m | 0.842         |

Total Length: 60.00 ft      Total Volume: 0.842 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: **D- Oil Inc.**

P.O. Box 259  
Victoria, Ks 67671

ATTN: Bob O'Dell

**29-13s-16w Ellis**

**Mermis #2**

Start Date: 2005.02.28 @ 16:55:44

End Date: 2005.02.28 @ 23:20:04

Job Ticket #: 20510                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

D- Oil Inc.

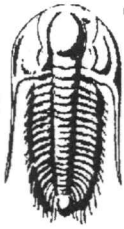
Mermis #2

29-13s-16w Ellis

DST # 2

Arbuckle

2005.02.28



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

D- Oil Inc.  
 P.O. Box 259  
 Victoria, Ks 67671  
 ATTN: Bob O'Dell

**Mermis #2**  
**29-13s-16w Ellis**  
 Job Ticket: 20510      **DST#: 2**  
 Test Start: 2005.02.28 @ 16:55:44

## GENERAL INFORMATION:

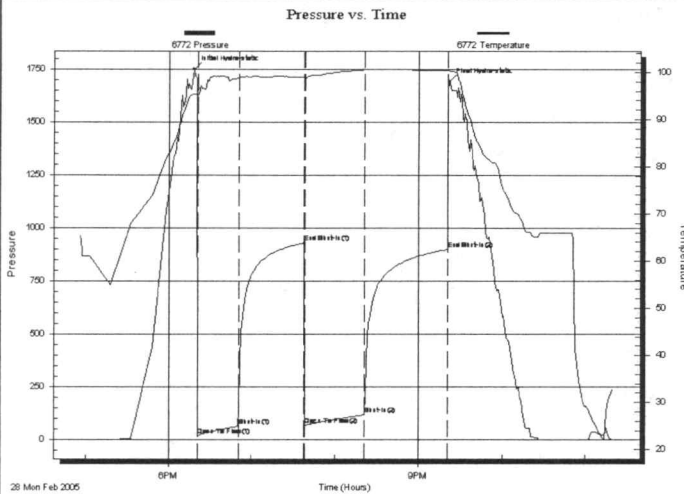
Formation: **Arbuckle**  
 Deviated: **No Whipstock:**                      ft (KB)  
 Time Tool Opened: 18:20:49  
 Time Test Ended: 23:20:04  
 Interval: **3446.00 ft (KB) To 3510.00 ft (KB) (TVD)**  
 Total Depth: **3510.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Brandon Turley**  
 Unit No: **18**  
 Reference Elevations: **1955.00 ft (KB)**  
    **1950.00 ft (CF)**  
    **KB to GR/CF: 5.00 ft**

## Serial #: 6772

**Inside**

Press@RunDepth: **118.55 psig @ 3511.00 ft (KB)**      Capacity: **7000.00 psig**  
 Start Date: **2005.02.28**      End Date: **2005.02.28**      Last Calib.: **1899.12.30**  
 Start Time: **16:55:44**      End Time: **23:20:04**      Time On Btm: **2005.02.28 @ 18:18:04**  
    **2005.02.28 @ 21:21:34**

TEST COMMENT: IF: 1/4 blow BOB in 23 min.  
 IS: No return.  
 FF: 1/4 blow BOB in 35 min.  
 FS: No return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1751.48         | 95.29        | Initial Hydro-static |
| 3           | 18.39           | 95.12        | Open To Flow (1)     |
| 33          | 64.90           | 98.68        | Shut-In(1)           |
| 80          | 930.59          | 99.04        | End Shut-In(1)       |
| 80          | 67.53           | 98.82        | Open To Flow (2)     |
| 123         | 118.55          | 100.49       | Shut-In(2)           |
| 183         | 900.91          | 100.41       | End Shut-In(2)       |
| 184         | 1692.25         | 100.33       | Final Hydro-static   |

## Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 124.00      | w cm 40%w 60%m | 1.74         |
| 105.00      | ocm 10%o 90%m  | 1.47         |
| 2.00        | free oil 100%o | 0.03         |
|             |                |              |
|             |                |              |

## Gas Rates

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



**TRILOBITE  
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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

D- Oil Inc.  
P.O. Box 259  
Victoria, Ks 67671  
ATTN: Bob O'Dell

**Mermis #2**  
**29-13s-16w Ellis**  
Job Ticket: 20510      **DST#: 2**  
Test Start: 2005.02.28 @ 16:55:44

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3509.00 ft | Diameter: 3.80 inches | Volume: 49.22 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: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 64000.00 lb  |
|                           |                    |                       | <u>Total Volume: 49.22 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 19.00 ft           |                       |                                | String Weight: Initial 42000.00 lb |
| Depth to Top Packer:      | 3510.00 ft         |                       |                                | Final 44000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 64.00 ft           |                       |                                |                                    |
| Tool Length:              | 84.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Stubb            | 1.00        |            |          | 3491.00    |                                    |
| Shut In Tool     | 5.00        |            |          | 3496.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 3501.00    |                                    |
| Packer           | 5.00        |            |          | 3506.00    | 20.00      Bottom Of Top Packer    |
| Packer           | 4.00        |            | Fluid    | 3510.00    |                                    |
| Stubb            | 1.00        |            |          | 3511.00    |                                    |
| Recorder         | 0.00        | 6772       | Inside   | 3511.00    |                                    |
| Perforations     | 27.00       |            |          | 3538.00    |                                    |
| Drill Pipe       | 31.00       |            |          | 3569.00    |                                    |
| Recorder         | 0.00        | 10248      | Outside  | 3569.00    |                                    |
| Bullnose         | 5.00        |            |          | 3574.00    | 64.00      Bottom Packers & Anchor |

**Total Tool Length: 84.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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P.O. Box 259  
Victoria, Ks 67671  
ATTN: Bob O'Dell

**Mermis #2**  
**29-13s-16w Ellis**  
Job Ticket: 20510      **DST#: 2**  
Test Start: 2005.02.28 @ 16:55:44

## Mud and Cushion Information

|                                   |                            |                           |
|-----------------------------------|----------------------------|---------------------------|
| Mud Type: Gel Chem                | Cushion Type:              | Oil API: 37 deg API       |
| Mud Weight: 9.00 lb/gal           | Cushion Length: ft         | Water Salinity: 17000 ppm |
| Viscosity: 47.00 sec/qt           | Cushion Volume: bbl        |                           |
| Water Loss: 11.15 in <sup>3</sup> | Gas Cushion Type:          |                           |
| Resistivity: 0.00 ohm.m           | Gas Cushion Pressure: psig |                           |
| Salinity: 1200.00 ppm             |                            |                           |
| Filter Cake: 1.00 inches          |                            |                           |

## Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbl |
|--------------|----------------|---------------|
| 124.00       | w cm 40%w 60%m | 1.739         |
| 105.00       | ocm 10%o 90%m  | 1.473         |
| 2.00         | free oil 100%o | 0.028         |

Total Length: 231.00 ft      Total Volume: 3.240 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

Serial #: 6772

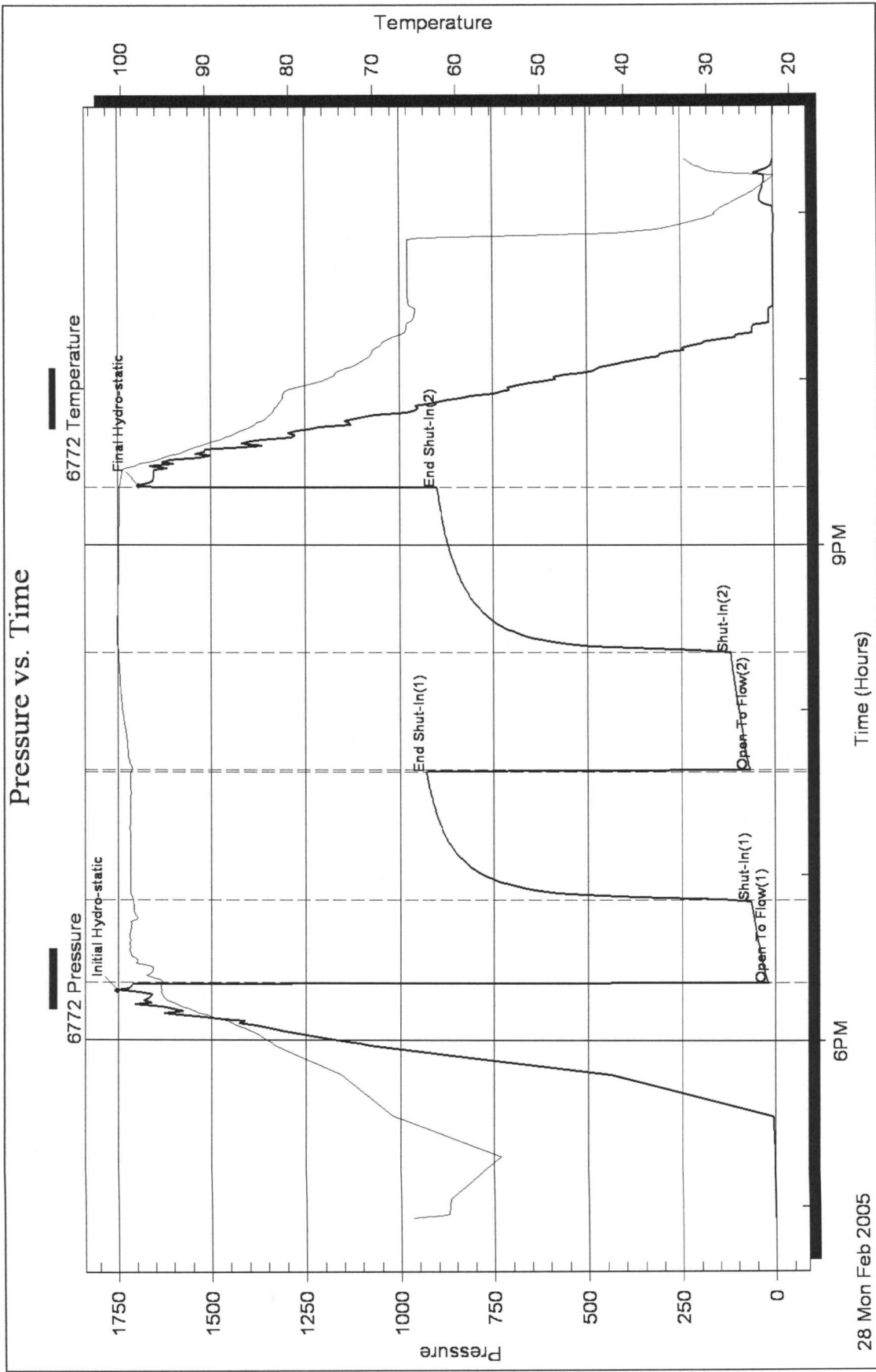
Inside

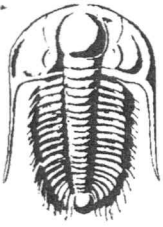
D-Oil Inc.

29-13s-16w Ellis

DST Test Number: 2

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

7249

No 20509

05/03

## Test Ticket

Well Name & No. Mermis #2 Test No. 1 Date 2-28-05  
 Company D-Oil, Inc. Zone Tested Arbuckle  
 Address P.O. BOX 259 Victoria, KS 67671 Elevation 1955 KB 1950 GL  
 Co. Rep / Geo. Bob O'Dell Cont. A & A Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 29 Twp. 13S Rge. 16W Co. Ellis State KS  
 No. of Copies Norm Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3501 3510 Initial Str Wt./Lbs. 42000 Unseated Str Wt./Lbs. 44000  
 Anchor Length \_\_\_\_\_ 9 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 74000  
 Top Packer Depth \_\_\_\_\_ 3496 Tool Weight 1000  
 Bottom Packer Depth \_\_\_\_\_ 3501 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth \_\_\_\_\_ 3510 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run \_\_\_\_\_  
 Mud Wt. 9.2 LCM Ø Vis. 47 WL 11.2 Drill Pipe Size F-H 4 1/2 X H Ft. Run 3516  
 Blow Description IF: Weak surface blow that never died in 30 min.  
IS: Weak surface blow, that never died.  
FF: Weak surface blow that never died.  
FS: No return.

Recovery - Total Feet 60 GIP \_\_\_\_\_ Ft. in DC \_\_\_\_\_ Ft. in DP 60  
 Rec. 60 Feet of WCM %gas \_\_\_\_\_ %oil 40 %water 60 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud  
 BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .53 @ 54 °F Chlorides 17,000 ppm Recovery 17,000 Chlorides 12,000 ppm System

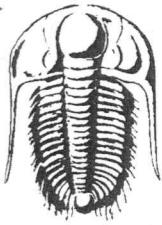
|                                  | AK-1 | Alpine          | Recorder No.                     | Test                  |
|----------------------------------|------|-----------------|----------------------------------|-----------------------|
| (A) Initial Hydrostatic Mud      |      | <u>1780</u> PSI | <u>6772</u>                      | <u>X 900.00</u>       |
| (B) First Initial Flow Pressure  |      | <u>15</u> PSI   | (depth) <u>3505</u>              | Elec. Rec. <u>X</u>   |
| (C) First Final Flow Pressure    |      | <u>26</u> PSI   | Recorder No. _____               | Jars _____            |
| (D) Initial Shut-In Pressure     |      | <u>82</u> PSI   | (depth) _____                    | Safety Jt. _____      |
| (E) Second Initial Flow Pressure |      | <u>32</u> PSI   | Recorder No. _____               | Circ Sub <u>X N/C</u> |
| (F) Second Final Flow Pressure   |      | <u>40</u> PSI   | (depth) _____                    | Sampler _____         |
| (G) Final Shut-In Pressure       |      | <u>866</u> PSI  | <b>Initial Opening</b> <u>30</u> | Straddle _____        |
| (Q) Final Hydrostatic Mud        |      | <u>1714</u> PSI | Initial Shut-In <u>30</u>        | Ext. Packer _____     |

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 Bob O'Dell  
 Our Representative [Signature]

Final Flow 30  
 Final Shut-In 30  
 T-On Location 9:20  
 T-Started 10:30  
 T-Open 12:30  
 T-Pulled 14:30  
 T-Out 16:26

Shale Packer \_\_\_\_\_  
 Mileage 28 28.000  
 Sub Total: 928  
 Std. By \_\_\_\_\_  
 Other \_\_\_\_\_  
 Total: \_\_\_\_\_



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 20510

05/03

## Test Ticket

Well Name & No. Mermis #2 Test No. 2 Date 2-28-05  
 Company D-Oil Inc. Zone Tested Arbyckle  
 Address P.O. Box 259 Victoria, KS 67671 Elevation 1955 KB 1950 GL  
 Co. Rep / Geo. Bob O'Dell Cont. A & A Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 29 Twp. 13s Rge. 16w Co. Ellis State KS  
 No. of Copies Norm Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3446 350 Initial Str Wt./Lbs. 42000 Unseated Str Wt./Lbs. 44000  
 Anchor Length \_\_\_\_\_ 64 Wt. Set Lbs. 25006 Wt. Pulled Loose/Lbs. 44000  
 Top Packer Depth \_\_\_\_\_ 3441 Tool Weight 1500  
 Bottom Packer Depth \_\_\_\_\_ 3446 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth \_\_\_\_\_ 3510 Wt. Pipe Run \_\_\_\_\_ Drill Collar Run \_\_\_\_\_  
 Mud Wt. 9.2 LCM 1 Vis. 47 WL 11.2 Drill Pipe Size F-H 4 1/2 XH Ft. Run 3509  
 Blow Description IF: 1/4 blow BOB in 23 min.  
IS: No return.  
FF: 1/4 blow BOB in 35 min.  
FS: No return.

Recovery - Total Feet 231 GIP \_\_\_\_\_ Ft. in DC \_\_\_\_\_ Ft. in DP 231  
 Rec. 2 Feet of Free oil %gas 100%oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. 105 Feet of oom %gas 10%oil \_\_\_\_\_ %water 90%mud \_\_\_\_\_  
 Rec. 124 Feet of wom %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water 40%mud 60%mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 100 °F Gravity 35 °API D @ 40° °F Corrected Gravity 37 °API  
 RW 39 @ .7 °F Chlorides 17000 ppm Recovery 17000 Chlorides 1206 ppm System

|                                  |      |        |      |     |                 |       |              |        |
|----------------------------------|------|--------|------|-----|-----------------|-------|--------------|--------|
| (A) Initial Hydrostatic Mud      | AK-1 | Alpine | 1751 | PSI | Recorder No.    | 6772  | Test x       | 900.00 |
| (B) First Initial Flow Pressure  |      |        | 18   | PSI | (depth)         | 3447  | Elec. Rec. x |        |
| (C) First Final Flow Pressure    |      |        | 64   | PSI | Recorder No.    | 10248 | Jars         |        |
| (D) Initial Shut-In Pressure     |      |        | 930  | PSI | (depth)         | 3509  | Safety Jt.   |        |
| (E) Second Initial Flow Pressure |      |        | 67   | PSI | Recorder No.    |       | Circ Sub x   | NIC    |
| (F) Second Final Flow Pressure   |      |        | 118  | PSI | (depth)         |       | Sampler      |        |
| (G) Final Shut-In Pressure       |      |        | 900  | PSI | Initial Opening | 30    | Straddle     |        |
| (Q) Final Hydrostatic Mud        |      |        | 1692 | PSI | Initial Shut-In | 45    | Ext. Packer  |        |
|                                  |      |        |      |     | Final Flow      | 45    | Shale Packer |        |
|                                  |      |        |      |     | Final Shut-In   | 60    | Mileage      |        |
|                                  |      |        |      |     | T-On Location   | 9:20  | Sub Total:   | 900    |
|                                  |      |        |      |     | T-Started       | 16:55 | Std. By      |        |
|                                  |      |        |      |     | T-Open          | 18:24 | Other        |        |
|                                  |      |        |      |     | T-Pulled        | 21:24 | Total:       |        |
|                                  |      |        |      |     | T-Out           | 23:20 |              |        |

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Approved By Bob O'Dell  
 Our Representative [Signature]

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

