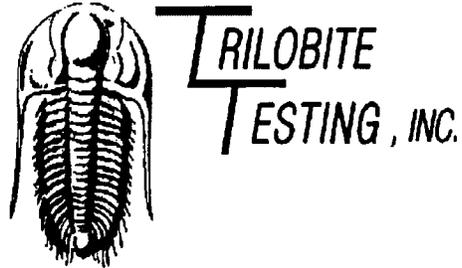


15-007-22852

34-32s-10w



DRILL STEM TEST REPORT

Prepared For: **Molz Oil, Company.**

19159 SW claimont.
Kiowa, Ks. 67070

ATTN: Arden Ratzlaff

34-32S-10W

Thompson #2

Start Date: 2005.02.11 @ 11:20:10

End Date: 2005.02.11 @ 20:42:25

Job Ticket #: 19938 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Molz Oil, Company.

Thompson #2

34-32S-10W

DST # 1

Viola

2005.02.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Molz Oil Company.

Thompson #2

19159 SW claimont.
Kiowa, Ks. 67070

34-32S-10W

Job Ticket: 19938

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2005.02.11 @ 11:20:10

GENERAL INFORMATION:

Formation: **Viola**

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

Time Tool Opened: 15:04:40

Time Test Ended: 20:42:25

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **30**

Interval: **4695.00 ft (KB) To 4715.00 ft (KB) (TVD)**

Reference Elevations: **1444.00 ft (KB)**

Total Depth: **4715.00 ft (KB) (TVD)**

1433.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **11.00 ft**

Serial #: 6625

Inside

Press@RunDepth: **39.65 psig @ 4697.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.02.11**

End Date:

2005.02.11

Last Calib.: **2005.02.11**

Start Time: **11:20:13**

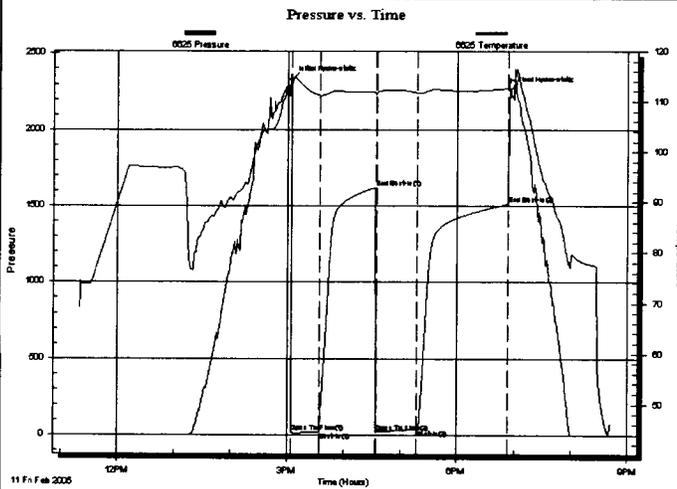
End Time:

20:42:25

Time On Btm: **2005.02.11 @ 15:03:55**

Time Off Btm: **2005.02.11 @ 18:55:25**

TEST COMMENT: F: Fair blow built to b.o.b in 2-1/4 mins.
 FSt: Bled down for 2 mins. no blow back.
 FF: Strong blow b.o.b in 15 sec. GTS in 10 mins. TSTM.
 FSt: Bled down for 5 mins. built back to weak surface blow.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2328.51 | 113.66 | Initial Hydro-static |
| 1 | 19.11 | 113.19 | Open To Flow (1) |
| 30 | 20.33 | 111.21 | Shut-In (1) |
| 90 | 1619.67 | 111.93 | End Shut-In (1) |
| 91 | 22.80 | 111.64 | Open To Flow (2) |
| 134 | 39.65 | 111.73 | Shut-In (2) |
| 230 | 1513.03 | 112.64 | End Shut-In (2) |
| 232 | 2260.38 | 114.19 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------|--------------|
| 0.00 | 4623' of gip | 0.00 |
| 75.00 | HG&OCM 30-%gas 30%oil 40%mud | 1.05 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.13 | 1.30 | 5.88 |
| Last Gas Rate | 0.13 | 2.80 | 6.44 |
| Max. Gas Rate | 0.13 | 2.80 | 6.44 |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Motz Oil, Company.

Thompson #2

19159 SW claimont.
Kiowa, Ks. 67070

34-32S-10W

Job Ticket: 19938

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2005.02.11 @ 11:20:10

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4698.00 ft | Diameter: 3.80 inches | Volume: 65.90 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Full Loose: 60000.00 lb |
| | | | <u>Total Volume: 65.90 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 27.00 ft | | | String Weight: Initial 52000.00 lb |
| Depth to Top Packer: | 4695.00 ft | | | Final 54000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 20.00 ft | | | |
| Tool Length: | 44.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 4672.00 | |
| Shut In Tool | 5.00 | | | 4677.00 | |
| Hydraulic tool | 5.00 | | | 4682.00 | |
| Safety Joint | 3.00 | | | 4685.00 | |
| Packer | 5.00 | | | 4690.00 | 24.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4695.00 | |
| Stubb | 2.00 | | | 4697.00 | |
| Recorder | 0.00 | 6625 | Inside | 4697.00 | |
| Anchor | 15.00 | | | 4712.00 | |
| Recorder | 0.00 | 10991 | Outside | 4712.00 | |
| Bullhose | 3.00 | | | 4715.00 | 20.00 Bottom Packers & Anchor |

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Molz Oil Company.

Thompson #2

19159 SW claimont.
Kiowa, Ks. 67070

34-32S-10W

Job Ticket: 19938

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2005.02.11 @ 11:20:10

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: 72.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.90 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------------|---------------|
| 0.00 | 4623' of gip | 0.000 |
| 75.00 | HG&OCM 30-%gas 30%oil 40%mud | 1.052 |

Total Length: 75.00 ft Total Volume: 1.052 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Molz Oil Company.

Thompson #2

19159 SW clairmont.
Kiowa, Ks. 67070

34-32S-10W

Job Ticket: 19938

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2005.02.11 @ 11:20:10

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m ³ /d) |
|-------------|--------------|------------|-----------------|------------------------------|
| 2 | 30 | 0.13 | 1.30 | 5.88 |
| 2 | 30 | 0.13 | 1.30 | 5.88 |
| 2 | 40 | 0.13 | 2.20 | 6.21 |
| 2 | 45 | 0.13 | 2.80 | 6.44 |

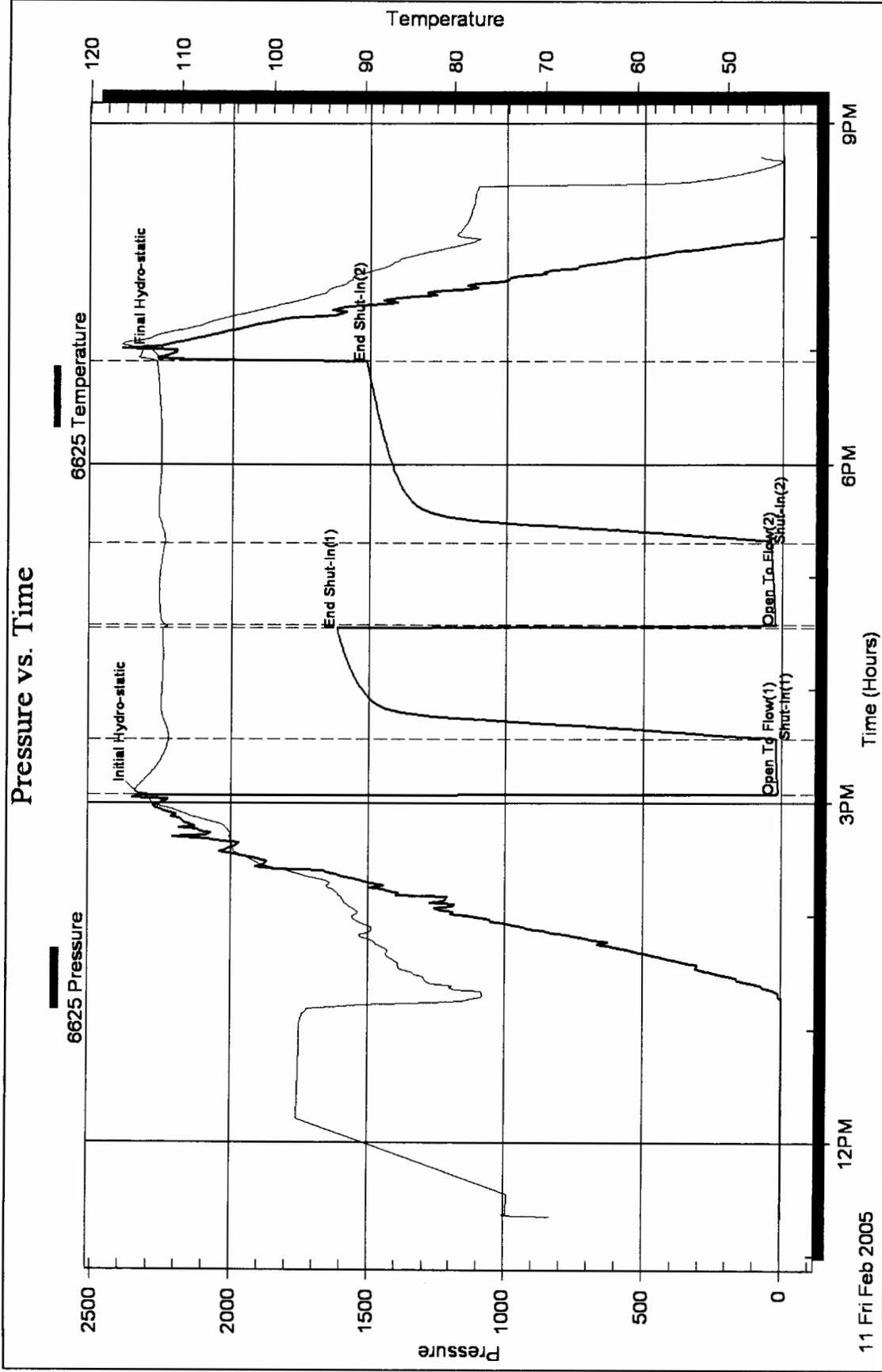
Serial #: 6625

Inside

Mobz Oil Company.

34-32S-10W

DST Test Number: 1



11 Fri Feb 2005

Trilobite Testing, Inc

Ref. No: 19938

Printed: 2005.03.03 @ 09:31:20 Page 6



DRILL STEM TEST REPORT

Prepared For: **Molz Oil, Company.**

19159 SW claimont.
Kiowa, Ks. 67070

ATTN: Arden Ratzlaff

34-32S-10W

Thompson #2

Start Date: 2005.02.12 @ 04:45:05

End Date: 2005.02.12 @ 12:15:35

Job Ticket #: 19939 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

Molz Oil, Company.

Thompson #2

19159 SW claimont.
Kiowa, Ks. 67070

34-32S-10W

Job Ticket: 19939

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2005.02.12 @ 04:45:05

GENERAL INFORMATION:

Formation: **Viola**

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

Time Tool Opened: 07:20:35

Time Test Ended: 12:15:35

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **30**

Interval: **4719.00 ft (KB) To 4736.00 ft (KB) (TVD)**

Reference Elevations: **1444.00 ft (KB)**

Total Depth: **4736.00 ft (KB) (TVD)**

1433.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **11.00 ft**

Serial #: 6625

Inside

Press@RunDepth: **16.08 psig @ 4721.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.02.12**

End Date:

2005.02.12

Last Calib.: **2005.02.12**

Start Time: **04:45:08**

End Time:

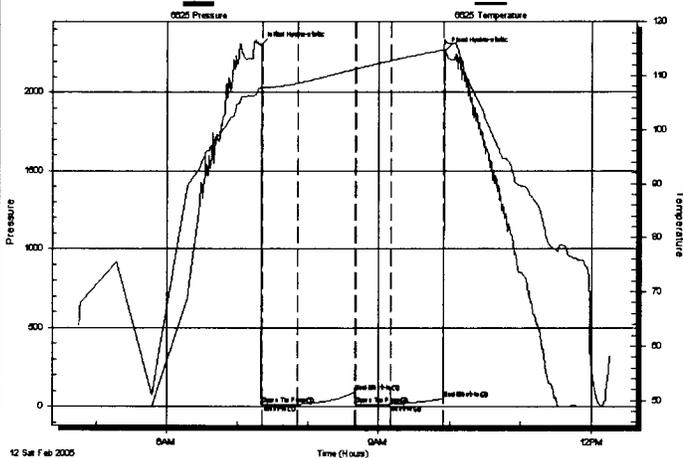
12:15:35

Time On Btm: **2005.02.12 @ 07:19:35**

Time Off Btm: **2005.02.12 @ 09:55:35**

TEST COMMENT: **F:Weak blow built to 1/4" in H₂O.
IS:No blow back.
FF:Weak blow built to 1/4" in H₂O.
FSI:No blow back.**

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2300.56 | 107.85 | Initial Hydro-static |
| 1 | 13.10 | 107.60 | Open To Flow (1) |
| 32 | 13.12 | 108.62 | Shut-In(1) |
| 80 | 94.08 | 111.24 | End Shut-In(1) |
| 82 | 13.81 | 111.31 | Open To Flow (2) |
| 111 | 16.08 | 112.81 | Shut-In(2) |
| 155 | 50.69 | 114.79 | End Shut-In(2) |
| 156 | 2262.38 | 116.72 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| | | 0.06 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Molz Oil Company.

Thompson #2

19159 SW claimont.
Kiova, Ks. 67070

34-32S-10W

Job Ticket: 19939

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2005.02.12 @ 04:45:05

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4702.00 ft | Diameter: 3.80 inches | Volume: 65.96 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 65000.00 lb |
| | | | <u>Total Volume: 65.96 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 7.00 ft | | | String Weight: Initial 54000.00 lb |
| Depth to Top Packer: | 4719.00 ft | | | Final 54000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 17.00 ft | | | |
| Tool Length: | 41.00 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 | | | 4696.00 | |
| Shut In Tool | 5.00 | | | 4701.00 | |
| Hydraulic tool | 5.00 | | | 4706.00 | |
| Safety Joint | 3.00 | | | 4709.00 | |
| Packer | 5.00 | | | 4714.00 | 24.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4719.00 | |
| Stubb | 2.00 | | | 4721.00 | |
| Recorder | 0.00 | 6625 | Inside | 4721.00 | |
| Anchor | 12.00 | | | 4733.00 | |
| Recorder | 0.00 | 10991 | Outside | 4733.00 | |
| Bullnose | 3.00 | | | 4736.00 | 17.00 Bottom Packers & Anchor |

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Molz Oil Company.

Thompson #2

19159 SW clairmont.
Kiowa, Ks. 67070

34-32S-10W

Job Ticket: 19939

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2005.02.12 @ 04:45:05

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: 57.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.78 in ³ | Gas Cushion Type: | | |
| Resistivity: 1.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 5000.00 ppm | | | |
| Filter Cake: 0.32 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| | | 0.056 |

Total Length: ft Total Volume: 0.112 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

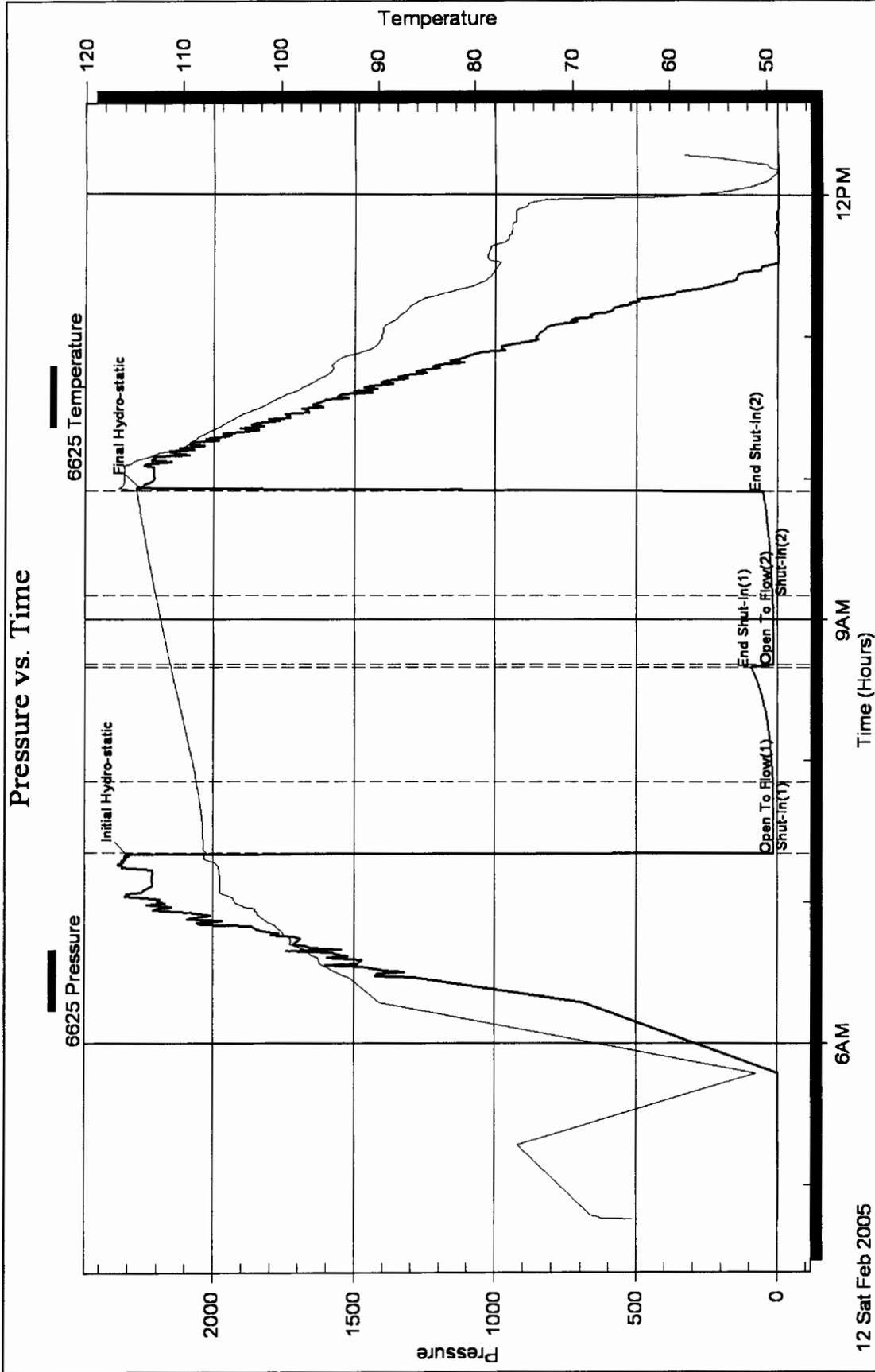
Serial #: 6625

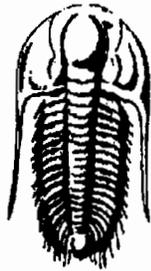
Inside

Molz Oil Company

34-32S-10W

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Molz Oil, Company.**

19159 SW claimont.
Kiowa, Ks. 67070

ATTN: Arden Ratzlaff

34-32S-10W

Thompson #2

Start Date: 2005.02.13 @ 01:28:48

End Date: 2005.02.13 @ 10:02:03

Job Ticket #: 21861 DST #: 3

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Molz Oil Company.

Thompson #2

19159 SW claimont.
Kiowa, Ks. 67070

34-32S-10W

Job Ticket: 21861

DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2005.02.13 @ 01:28:48

GENERAL INFORMATION:

Formation: **Simpson**

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

Time Tool Opened: 03:28:18

Time Test Ended: 10:02:03

Test Type: **Conventional Bottom Hole**

Tester: **Davy Cline**

Unit No: **24**

Interval: **4778.00 ft (KB) To 4796.00 ft (KB) (TVD)**

Reference Elevations: **1444.00 ft (KB)**

Total Depth: **4796.00 ft (KB) (TVD)**

1433.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **11.00 ft**

Serial #: 6753 Inside

Press@RunDepth: **289.60 psig @ 4779.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.02.13**

End Date:

2005.02.13

Last Calib.: **2005.02.13**

Start Time: **01:28:53**

End Time:

10:02:03

Time On Btm: **2005.02.13 @ 03:26:03**

Time Off Btm: **2005.02.13 @ 07:19:03**

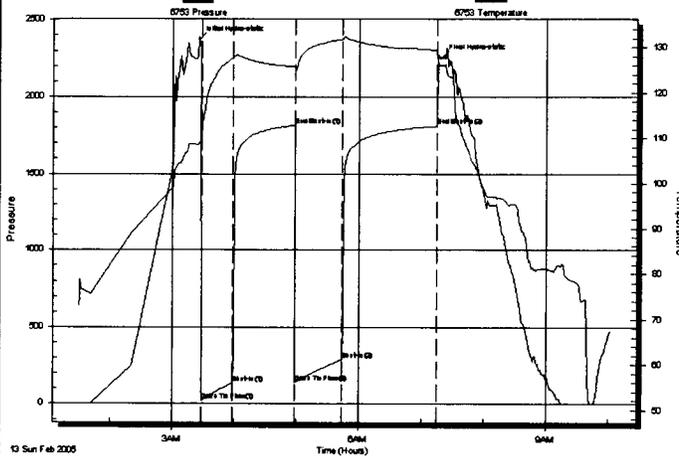
TEST COMMENT: **F: Strong blow . BOB 13 min.**

IS: Bled off. No blow .

FF: Strong blow . BOB 17 min.

FS: Bled off. No blow .

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2372.53 | 108.83 | Initial Hydro-static |
| 3 | 21.94 | 110.16 | Open To Flow (1) |
| 33 | 136.11 | 127.63 | Shut-In(1) |
| 92 | 1816.41 | 125.75 | End Shut-In(1) |
| 93 | 141.13 | 125.07 | Open To Flow (2) |
| 138 | 289.60 | 131.81 | Shut-In(2) |
| 229 | 1810.97 | 129.38 | End Shut-In(2) |
| 233 | 2253.54 | 125.99 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 66.00 | SI GCWM w/oil specs 60%w 40%m | 0.68 |
| 62.00 | SI GCWM w/oil specs 85%w 15%m | 0.64 |
| 372.00 | SI Gsy MV 95%w 5%m | 3.82 |
| 0.00 | | 0.00 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Molz Oil, Company.

Thompson #2

19159 SW Clairmont.
Kiowa, Ks. 67070

34-32S-10W

Job Ticket: 21861

DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2005.02.13 @ 01:28:48

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4760.00 ft | Diameter: 3.25 inches | Volume: 48.84 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 48.84 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 5.00 ft | | | String Weight: Initial 52000.00 lb |
| Depth to Top Packer: | 4778.00 ft | | | Final 57000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 18.00 ft | | | |
| Tool Length: | 41.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 4756.00 | |
| Shut In Tool | 5.00 | | | 4761.00 | |
| Hydraulic tool | 5.00 | | | 4766.00 | |
| Safety Joint | 2.00 | | | 4768.00 | |
| Packer | 5.00 | | | 4773.00 | 23.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4778.00 | |
| Stubb | 1.00 | | | 4779.00 | |
| Recorder | 0.00 | 6753 | Inside | 4779.00 | |
| Blank Spacing | 14.00 | | | 4793.00 | |
| Recorder | 0.00 | 10330 | Outside | 4793.00 | |
| Bullnose | 3.00 | | | 4796.00 | 18.00 Bottom Packers & Anchor |

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Molz Oil Company.

Thompson #2

19159 SW claimont.
Kiowa, Ks. 67070

34-32S-10W

Job Ticket: 21861

DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2005.02.13 @ 01:28:48

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:

80000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.12 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------------|---------------|
| 66.00 | SI GCMM w/oil specs 60%w 40%m | 0.677 |
| 62.00 | SI GCMM w/oil specs 85%w 15%m | 0.636 |
| 372.00 | SI Gsy MW 95%w 5%m | 3.817 |
| 0.00 | | 0.000 |

Total Length: 500.00 ft Total Volume: 5.130 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: N/A

Laboratory Name:

Laboratory Location:

Recovery Comments: Water recovery- .12ohms @ 51deg.

Serial #: 6753

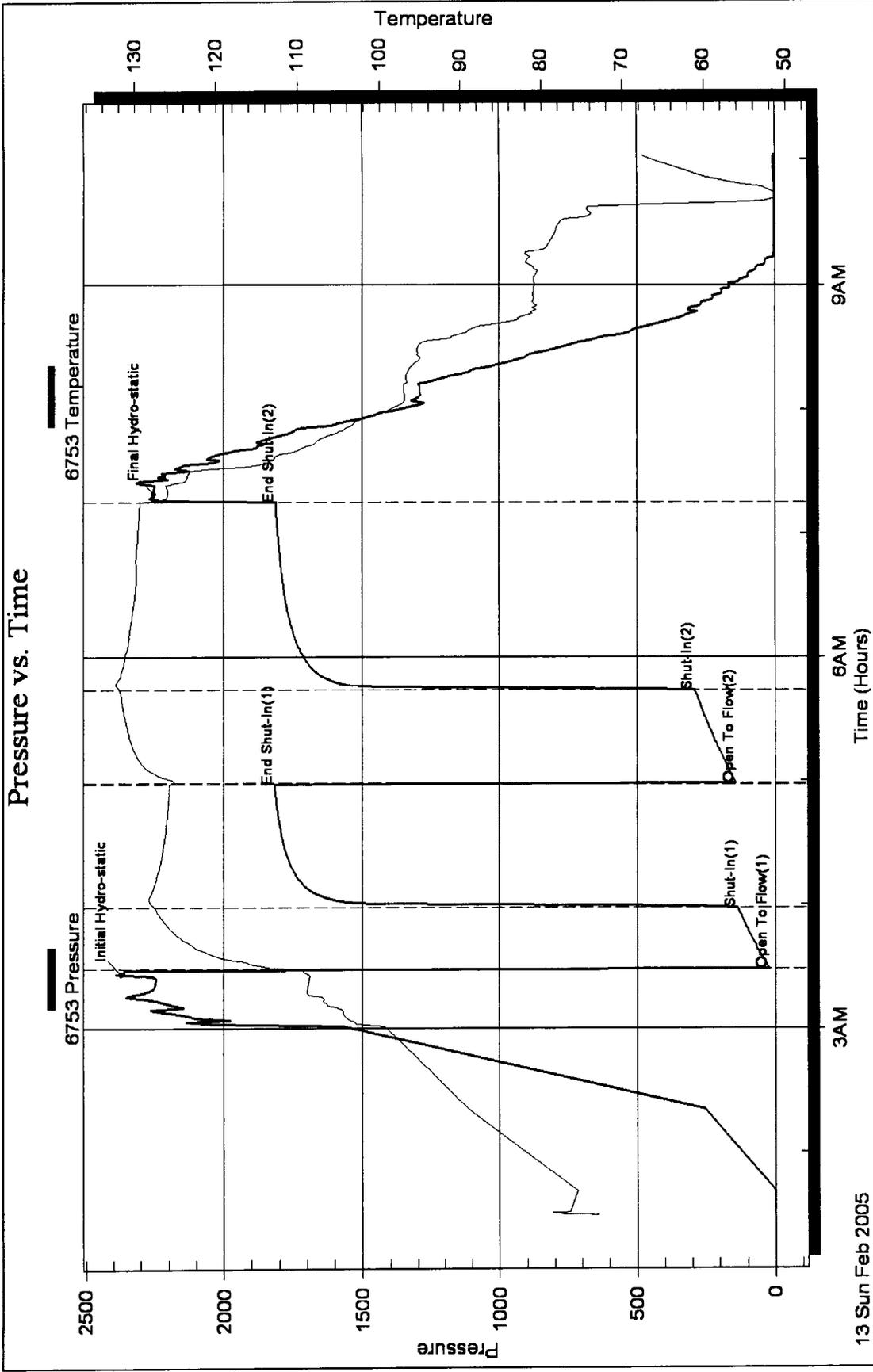
Inside

Mobz Oil Company

34-32S-10W

DST Test Number: 3

Pressure vs. Time



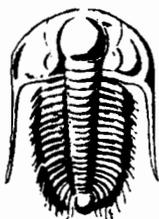
13 Sun Feb 2005

3AM

6AM

9AM

Time (Hours)



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 7214

No 19938

Test Ticket

Well Name & No. Thompson #2 Test No. # 1 Date 2-11-05
 Company Molz Oil Company, 19159 SW Zone Tested Viola
 Address Clairmont, Iowa, KS. 67070 Elevation 1444 KB 1433 GL
 Co. Rep / Geo. Arden Ratzlaff Cont. Duke #5 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 34 Twp. 32 S Rge. 10 W Co. Barber Co. State KS
 No. of Copies 5 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4695 - 4715' Initial Str Wt./Lbs. 52000 Unseated Str Wt./Lbs. 54000
 Anchor Length 20' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 4690' Tool Weight 2100
 Bottom Packer Depth 4695' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4715' Wt. Pipe Run N/A Drill Collar Run N/A
 Mud Wt. 9.2 LCM 2* Vis. 72 WL 8.8 Drill Pipe Size 4 1/2 KH Ft. Run 4698'

Blow Description IF: Fair blow p.o.p. in 2 1/4 mins.
ISI: Bleed down for 2 mins. No blow back.
FF: Strong blow p.o.p. in 15 sec. 6TS in 10 min TSTM
FS: Bleed down for 5 mins. Built back to work surface blow.

| Recovery - Total Feet | GIP | Ft. in DC | Ft. in DP |
|-----------------------|--------------------------|--------------------------|------------------------|
| <u>75'</u> | <u>4623'</u> | <u>N/A</u> | <u>75'</u> |
| Rec. <u>75'</u> | Feet of <u>HG 5' OCM</u> | <u>30% gas - 30% oil</u> | <u>% water 40% mud</u> |
| Rec. <u>4623'</u> | Feet of <u>GIP</u> | <u>% gas</u> | <u>% oil</u> |
| Rec. _____ | Feet of _____ | <u>% gas</u> | <u>% oil</u> |
| Rec. _____ | Feet of _____ | <u>% gas</u> | <u>% oil</u> |
| Rec. _____ | Feet of _____ | <u>% gas</u> | <u>% oil</u> |

BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 3000 ppm System

| | AK-1 | Alpine | Recorder No. | Test |
|----------------------------------|-------------|--------|---------------------------|-------------------------------|
| (A) Initial Hydrostatic Mud | <u>2329</u> | PSI | <u>6625</u> | <u>1000</u> |
| (B) First Initial Flow Pressure | <u>19</u> | PSI | <u>4697'</u> | <u>✓</u> |
| (C) First Final Flow Pressure | <u>20</u> | PSI | <u>10991</u> | Jars _____ |
| (D) Initial Shut-In Pressure | <u>1620</u> | PSI | <u>4712'</u> | Safety Jt. <u>✓</u> <u>50</u> |
| (E) Second Initial Flow Pressure | <u>23</u> | PSI | Recorder No. _____ | Circ Sub _____ |
| (F) Second Final Flow Pressure | <u>40</u> | PSI | (depth) _____ | Sampler _____ |
| (G) Final Shut-In Pressure | <u>1573</u> | PSI | Initial Opening <u>30</u> | Straddle _____ |
| (Q) Final Hydrostatic Mud | <u>2260</u> | PSI | Initial Shut-In <u>60</u> | Ext. Packer _____ |
| | | | Final Flow <u>45</u> | Shale Packer _____ |
| | | | Final Shut-In <u>90</u> | Mileage <u>46</u> <u>46</u> |

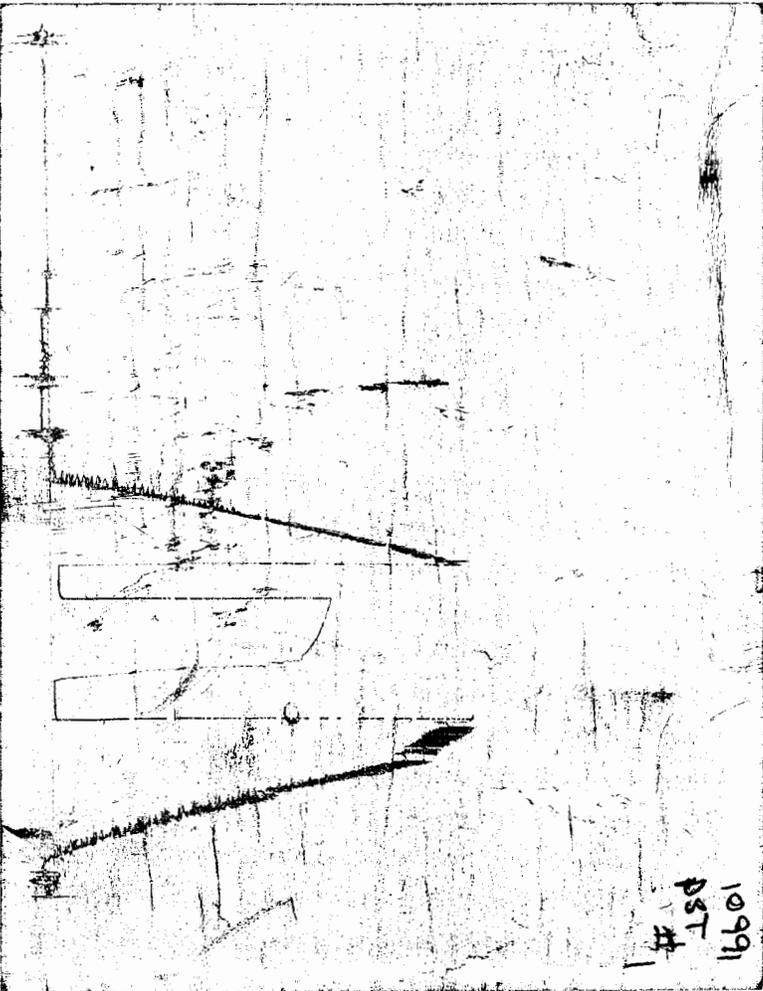
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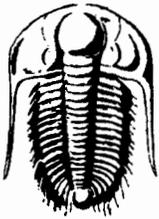
Approved By Arden Ratzlaff T-Started 1140
 Our Representative Arden Ratzlaff T-Open 1505
 T-Pulled 1850
 T-Out 2042

Sub Total: 1096
 Std. By 2hr 60
 Total: 1156

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 19939

05/03

Test Ticket

Well Name & No. Thompson #2 Test No. #2 Date 2-12-05
 Company Molz Oil Company, 19159 SW Zone Tested Viola
 Address Clairmont Kiowa, KS. 67070 Elevation 1444 KB 1433 GL
 Co. Rep / Geo. Arden Ratzliff Cont. Duke #5 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 34 Twp. 325 Rge. 10W Co. Barber, Co. State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4719' - 4736' Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 54,000
 Anchor Length 17' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 65,000
 Top Packer Depth 4714' Tool Weight 2,100
 Bottom Packer Depth 4719' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4736' Wt. Pipe Run N/A Drill Collar Run N/A
 Mud Wt. 9.1 LCM 2# Vis. 57 WL 8.8 Drill Pipe Size 4 1/2 KH Ft. Run 4702'

Blow Description IF: Weak blow built to 1/4" in #20.
F5I: No blow back.
FF: Weak blow built to 1/4" in #20
F5I: No blow back.

Recovery - Total Feet 4 GIP N/A Ft. in DC N/A Ft. in DP 4'
 Rec. 4 Feet of SOCM %gas 10 %oil _____ %water 90 %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 115 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 5,000 ppm System

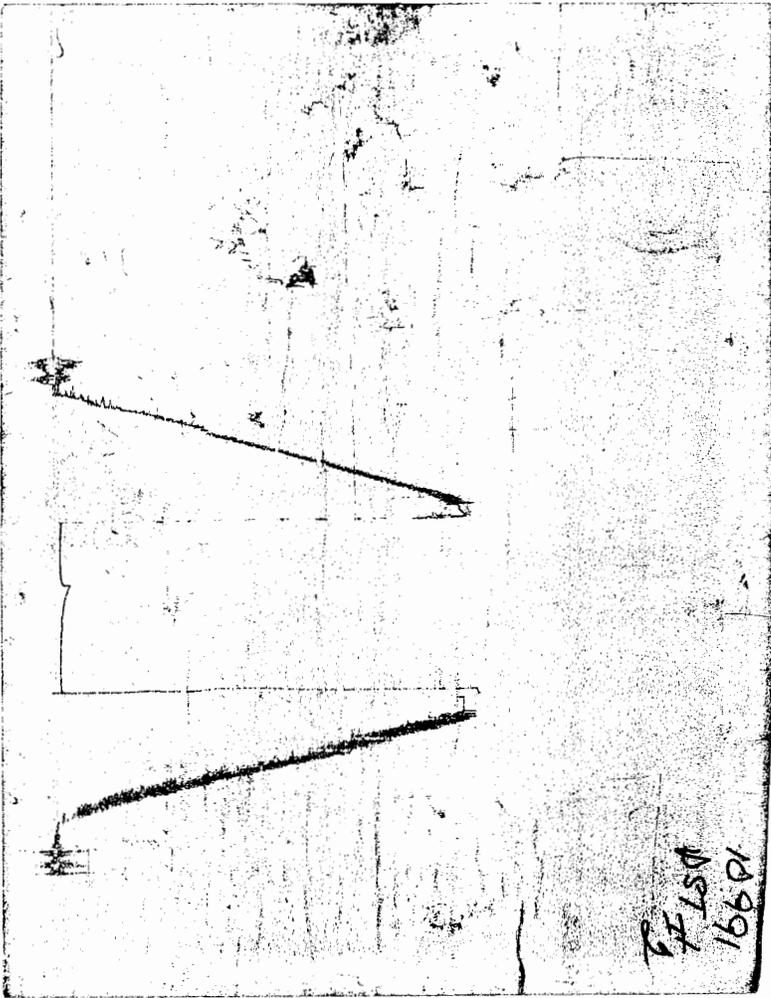
| | AK-1 | Alpine | Recorder No. | Test |
|----------------------------------|------|--------|---------------------------|------------------------|
| (A) Initial Hydrostatic Mud | 2301 | PSI | 6625 | ✓ 1000 |
| (B) First Initial Flow Pressure | 13 | PSI | (depth) 4721' | Elec. Rec. ✓ |
| (C) First Final Flow Pressure | 13 | PSI | Recorder No. 10991 | Jars |
| (D) Initial Shut-In Pressure | 94 | PSI | (depth) 4733' | Safety Jt. ✓ 50 |
| (E) Second Initial Flow Pressure | 14 | PSI | Recorder No. | Circ Sub |
| (F) Second Final Flow Pressure | 16 | PSI | (depth) | Sampler |
| (G) Final Shut-In Pressure | 51 | PSI | Initial Opening 30 | Straddle |
| (Q) Final Hydrostatic Mud | 2262 | PSI | Initial Shut-In 45 | Ext. Packer |
| | | | Final Flow 30 | Shale Packer |
| | | | Final Shut-In 45 | Mileage <u>46</u> |
| | | | T-On Location <u>0330</u> | Sub Total: <u>1094</u> |
| | | | T-Started <u>0445</u> | Std. By _____ |
| | | | T-Open <u>0720</u> | Other _____ |
| | | | T-Pulled <u>0950</u> | Total: _____ |
| | | | T-Out <u>1215</u> | |

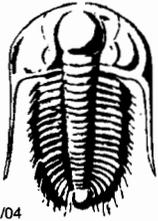
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Approved By Arden Ratzliff
 Our Representative Arden Ratzliff

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21861

9/04

Test Ticket

Well Name & No. Thompson #2 Test No. 3 Date 2-13-05
 Company Mol2 Oil Co. Zone Tested Simpson
 Address 19154 SW Clairmont Kiowa, KS 67020 Elevation 1442 KB 1431 GL
 Co. Rep / Geo. Arden Ratzliff Cont. Duke Dng, #5 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 34 Twp. 32s Rge. 10w Co. Barber State KS
 No. of Copies 5 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4778 - 4746 Initial Str Wt./Lbs. 52,000 Unseated Str Wt/Lbs. _____
 Anchor Length 18' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 4773 Tool Weight 2100
 Bottom Packer Depth 4778 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4746 Wt. Pipe Run _____ Drill Collar Run 0
 Mud Wt. 9.1 LCM _____ Vis. 57 WL 8.8 Drill Pipe Size 4 1/2" XH Ft. Run 4760

Blow Description FF: Strong blow, BOB 13 min
ISI: Bled off, No blow,
FF: Strong blow, BOB 17 min
FSI: Bled off, No blow.

| Recovery - Total Feet | GIP trace | Ft. in DC | Ft. in DP |
|-----------------------|------------------------------------|----------------------------|-------------------------------------------------|
| <u>500</u> | <u>trace</u> | <u>0</u> | <u>500</u> |
| Rec. <u>66</u> | Feet of <u>SI GCWM w/oil specs</u> | %gas _____ %oil _____ | %water <u>60</u> %mud <u>40</u> |
| Rec. <u>62</u> | Feet of <u>SI GCWM w/oil specs</u> | %gas _____ %oil _____ | %water <u>85</u> %mud <u>15</u> |
| Rec. <u>372</u> | Feet of <u>SI Gsy MW</u> | %gas _____ %oil _____ | %water <u>95</u> %mud <u>5</u> |
| Rec. _____ | Feet of _____ | %gas _____ %oil _____ | %water _____ %mud _____ |
| Rec. _____ | Feet of _____ | %gas _____ %oil _____ | %water _____ %mud _____ |
| BHT <u>129</u> | °F Gravity _____ | °API D @ _____ | °F Corrected Gravity _____ °API _____ |
| RW <u>12ohms</u> | @ <u>51</u> °F | Chlorides <u>80000</u> ppm | Recovery _____ Chlorides <u>5000</u> ppm System |

| | AK-1 | Alpine | Recorder No. | Test |
|----------------------------------|-----------------|-----------------|----------------------------|-------------------------------------------------------------|
| (A) Initial Hydrostatic Mud | <u>2373</u> PSI | <u>2373</u> PSI | <u>6753</u> | <input checked="" type="checkbox"/> <u>1000</u> |
| (B) First Initial Flow Pressure | <u>22</u> PSI | <u>22</u> PSI | <u>4774</u> | Jars _____ |
| (C) First Final Flow Pressure | <u>136</u> PSI | <u>136</u> PSI | <u>10330</u> | Safety Jt. <input checked="" type="checkbox"/> <u>50</u> |
| (D) Initial Shut-In Pressure | <u>1816</u> PSI | <u>1816</u> PSI | <u>4793</u> | Circ Sub <input checked="" type="checkbox"/> <u>35</u> |
| (E) Second Initial Flow Pressure | <u>141</u> PSI | <u>141</u> PSI | Recorder No. _____ | Sampler _____ |
| (F) Second Final Flow Pressure | <u>290</u> PSI | <u>290</u> PSI | (depth) _____ | Straddle _____ |
| (G) Final Shut-In Pressure | <u>1811</u> PSI | <u>1811</u> PSI | Initial Opening <u>30</u> | Ext. Packer _____ |
| (Q) Final Hydrostatic Mud | <u>2254</u> PSI | <u>2254</u> PSI | Initial Shut-In <u>60</u> | Shale Packer _____ |
| | | | Final Flow <u>45</u> | Ruined Packer _____ |
| | | | Final Shut-In <u>90</u> | Mileage <input checked="" type="checkbox"/> <u>90 total</u> |
| | | | T-On Location <u>00:00</u> | Sub Total: <u>1175</u> |
| | | | T-Started <u>01:28</u> | Std. By _____ |
| | | | T-Open <u>03:28</u> | Other _____ |
| | | | T-Pulled <u>07:15</u> | Total: _____ |
| | | | T-Out <u>10:00</u> | |

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Approved By Arden Ratzliff
 Our Representative Danny Clune

CHART PAGE

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

