



## DRILL STEM TEST REPORT

Prepared For: **CMX**

150 N. Main Ste. 1026  
Wichita KS 67202

ATTN: Doug McGinness Jr.

**9-35s-13w Barber KS**

**Albert #1**

Start Date: 2001.03.30 @ 15:14:00

End Date: 2001.03.30 @ 22:36:00

Job Ticket #: 14006                      DST #: 1

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



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

## DRILL STEM TEST REPORT

CMX

150 N. Main Ste. 1026  
Wichita KS 67202

ATTN: Doug McGinness Jr.

Albert #1

9-35s-13w Barber KS

Job Ticket: 14006

DST#: 1

Test Start: 2001.03.30 @ 15:14:00

### GENERAL INFORMATION:

Formation: **Lans A**

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

Time Tool Opened: 17:50:08

Time Test Ended: 22:36:00

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **13**

Interval: **4200.00 ft (KB) To 4222.00 ft (KB) (TVD)**

Total Depth: **4222.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1592.00 ft (KB)**

**1584.00 ft (CF)**

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

Serial #: **2342** Inside

Press@RunDepth: **577.00 psig @ 4201.00 ft (KB)**

Start Date: **2001.03.30**

End Date:

**2001.03.30**

Start Time: **15:14:39**

End Time:

**22:36:38**

Capacity: **7000.00 psig**

Last Calib.: **2001.01.04**

Time On Btm: **2001.03.30 @ 17:47:08**

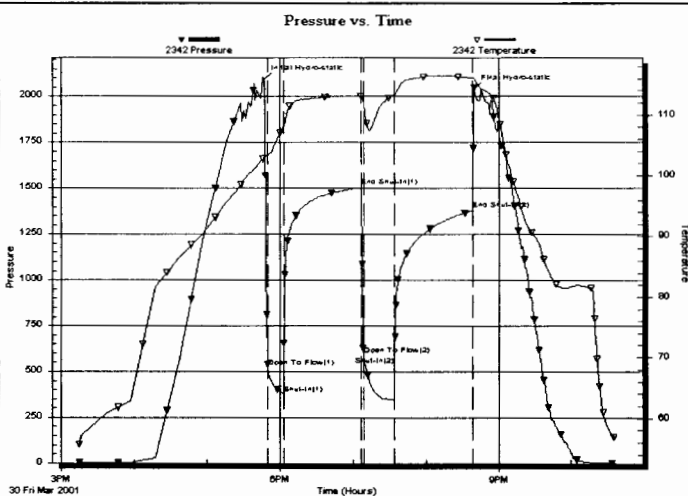
Time Off Btm: **2001.03.30 @ 20:40:08**

TEST COMMENT: IF: Strong blow . B.O.B. 2 secs. (see gas volume report)

ISI: No blow .

FF: Strong blow . (see gas volume report)

FSI: No blow .



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 153         | 2092.98         | 102.97       | Initial Hydro-static |
| 156         | 519.59          | 103.42       | Open To Flow (1)     |
| 169         | 374.73          | 108.29       | Shut-In (1)          |
| 232         | 1504.48         | 113.15       | End Shut-In (1)      |
| 234         | 587.91          | 111.79       | Open To Flow (2)     |
| 260         | 577.00          | 113.38       | Shut-In (2)          |
| 324         | 1379.60         | 116.17       | End Shut-In (2)      |
| 326         | 2040.95         | 116.04       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 0.00        | Gas in all fluid free pipe | 0.00         |
| 380.00      | Salt Water                 | 5.33         |
| 30.00       | Muddy water 70%w 30%v      | 0.42         |
|             |                            |              |
|             |                            |              |
|             |                            |              |

### Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.75           | 108.00          | 1947.90          |
| Last Gas Rate  | 0.75           | 108.00          | 1947.90          |
| Max. Gas Rate  | 0.75           | 130.00          | 2298.01          |



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

9-35s-13w Barber KS

Job Ticket: 14006

DST#: 1

ATTN: Doug McGinness Jr.

Test Start: 2001.03.30 @ 15:14:00

### Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 4191.00 ft | Diameter: 3.80 inches | Volume: 58.79 bbl | Tool Weight: 2100.00 lb            |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer: 20000.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight to Pull Loose: 60000.00 lb  |
| Drill Pipe Above KB:      | 18.00 ft           |                       |                   | Tool Chased 0.00 ft                |
| Depth to Top Packer:      | 4195.00 ft         |                       |                   | String Weight: Initial 48000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   | Final 49000.00 lb                  |
| Interval between Packers: | ft                 |                       |                   |                                    |
| Tool Length:              | 49.00 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

### Tool Comments

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub         | 1.00        |            |          | 4174.00    |                               |
| S.I. Tool        | 5.00        |            |          | 4179.00    |                               |
| HMV              | 5.00        |            |          | 4184.00    |                               |
| Jars             | 5.00        |            |          | 4189.00    |                               |
| Safety Joint     | 2.00        |            |          | 4191.00    |                               |
| Packer           | 4.00        |            |          | 4195.00    | 22.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4200.00    |                               |
| Stubb            | 1.00        |            |          | 4201.00    |                               |
| Recorder         | 0.00        | 2342       | Inside   | 4201.00    |                               |
| Perforations     | 16.00       |            |          | 4217.00    |                               |
| Recorder         | 0.00        | 10248      | Outside  | 4217.00    |                               |
| Bullnose         | 5.00        |            |          | 4222.00    | 27.00 Bottom Packers & Anchor |

**Total Tool Length: 49.00**



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## DRILL STEM TEST REPORT

### FLUID SUMMARY

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

9-35s-13w Barber KS

Job Ticket: 14006

DST#: 1

ATTN: Doug McGinness Jr.

Test Start: 2001.03.30 @ 15:14:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: -999999 deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: 105000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume: bbl

Water Loss: 11.86

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 3000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                | Volume<br>bbl |
|--------------|----------------------------|---------------|
| 0.00         | Gas in all fluid free pipe | 0.000         |
| 380.00       | Salt Water                 | 5.330         |
| 30.00        | Muddy water 70%w 30%m      | 0.421         |

Total Length: 410.00 ft

Total Volume: 5.750 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: 2342

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



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

## DRILL STEM TEST REPORT

**GAS RATES**

CMX

**Albert #1**

150 N. Main Ste. 1026  
Wichita KS 67202

**9-35s-13w Barber KS**

Job Ticket: 14006

**DST#: 1**

ATTN: Doug McGinness Jr.

Test Start: 2001.03.30 @ 15:14:00

### Gas Rates Information

Temperature: 40 (deg F)

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke<br>(inches) | Pressure<br>(kPaa) | Gas Rate<br>(Mcf/d) |
|-------------|--------------|-------------------|--------------------|---------------------|
| 1           | 5            | 0.75              | 108.00             | 1947.90             |
| 1           | 5            | 0.75              | 108.00             | 1947.90             |
| 1           | 5            | 0.75              | 108.00             | 1947.90             |
| 1           | 10           | 0.75              | 108.00             | 1947.90             |
| 1           | 15           | 0.75              | 92.00              | 1693.27             |
| 2           | 5            | 0.75              | 130.00             | 2298.01             |
| 2           | 10           | 0.75              | 108.00             | 1947.90             |

## NATURAL GAS ANALYSIS REPORT

**Sampled by:**

Trilobite Testing, L. L. C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

**Analyzed by:**

Caraway Analytical, Inc  
P. O. Box 2137  
Liberal, Kansas 67905  
Phone: 316-624-5389  
Fax: 316-626-7108

**Lab Number: 20011808****Analyzed: 04/07/01**

Sample From: Albert 1 DST 1  
Producer: CMX Inc

Pressure:  
Temperature:

**Date: Location: 9-35-13**

Time:  
Sampler:  
Source:

County: Barber  
State: Kansas  
Formation: Lansing

|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 0.191  | 0.000 |
| Hydrogen       | H2: 0.008  | 0.000 |
| Oxygen         | O2: 0.000  | 0.000 |
| Nitrogen       | N2: 5.728  | 0.000 |
| Carbon Dioxide | CO2: 0.050 | 0.000 |
| Methane        | C1: 86.946 | 0.000 |
| Ethane         | C2: 4.077  | 1.090 |
| Propane        | C3: 1.542  | 0.425 |
| Iso Butane     | iC4: 0.257 | 0.084 |
| Normal Butane  | nC4: 0.546 | 0.172 |
| Iso Pentane    | iC5: 0.167 | 0.061 |
| Normal Pentane | nC5: 0.152 | 0.055 |
| Hexanes Plus   | C6+: 0.336 | 0.147 |

TOTAL: 100.000 2.034

Z Fact: 0.9977

SP.GR.: 0.6404

BTU (SAT): 1031.8 @ 14.73 psia

BTU (DRY): 1050.1 @ 14.73 psia

**OCTANE RATING: 119.8**

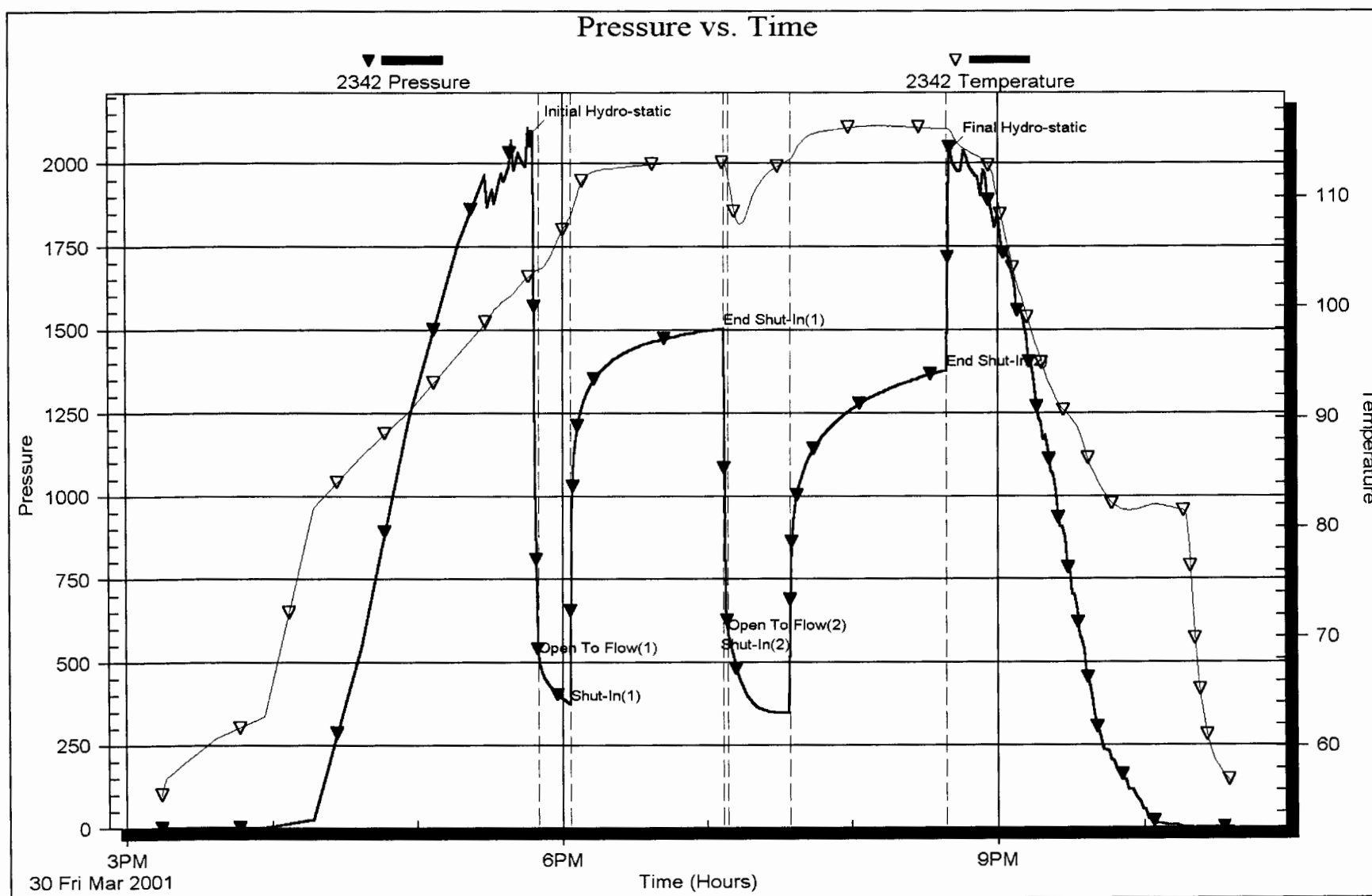
COMMENTS:

0.000

Serial #: 2342

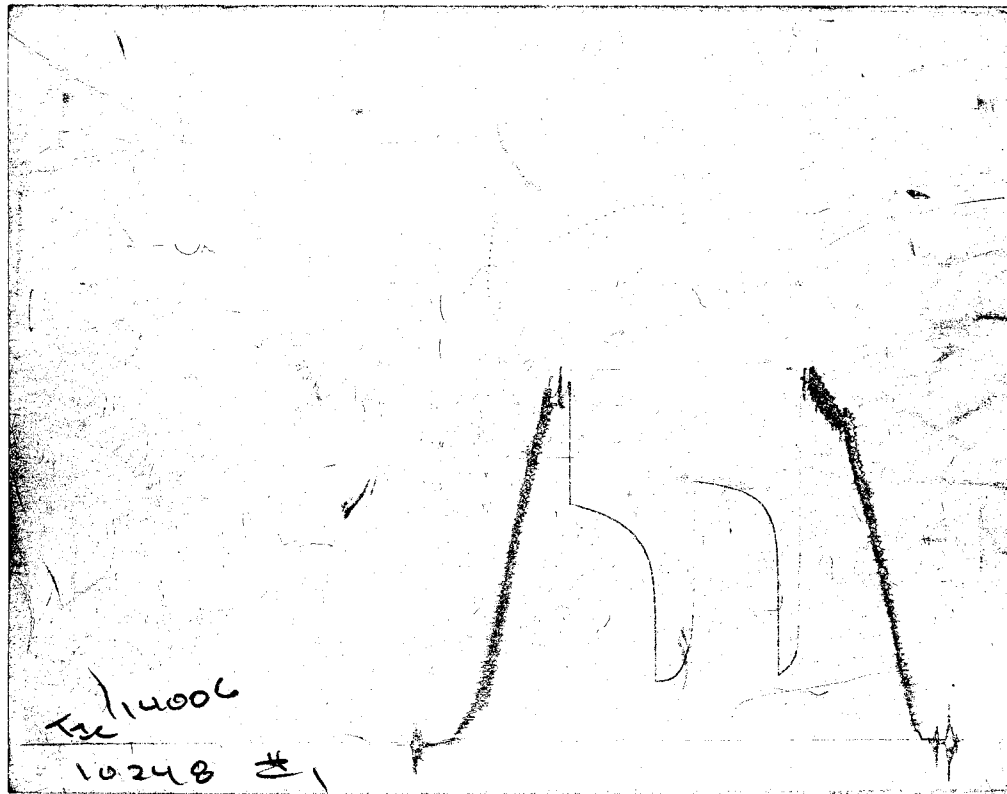
Inside CMX

9-35s-13w Barber KS



## CHART PAGE

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







1592 1-10  
84

Albert #1

CMX

**OPERATOR**

WELL NAME AND NO.

DST NO.

Initial Open

Final Opers

Remarks:

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 14006

## Test Ticket

|                                                       |                                         |                                                          |
|-------------------------------------------------------|-----------------------------------------|----------------------------------------------------------|
| Well Name & No. <u>Albert #1</u>                      | Test No. <u>1</u>                       | Date <u>3-30-2001</u>                                    |
| Company <u>CMX</u>                                    | Zone Tested <u>Lans. A</u>              |                                                          |
| Address <u>150 N. Main Ste 150, Wichita Ks. 67202</u> | Elevation <u>1592</u> KB <u>1584</u> GL |                                                          |
| Co. Rep / Geo. <u>Doug McGinnis</u>                   | Cont. <u>Duke Dwyer</u>                 | Est. Ft. of Pay <u>    </u> Por. <u>    </u> %           |
| Location: Sec. <u>9</u>                               | Twp. <u>35</u>                          | Rge. <u>13</u> Co. <u>Barber</u> State <u>Ks.</u>        |
| No. of Copies <u>7</u>                                | Distribution Sheet (Y, N) <u>    </u>   | Turnkey (Y, N) <u>    </u> Evaluation (Y, N) <u>    </u> |

Interval Tested 4200 - 4222' Initial Str Wt./Lbs. 48000 Unseated Str Wt./Lbs. 48000  
Anchor Length 22' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000  
Top Packer Depth 4195' Tool Weight 2100 lb  
Bottom Packer Depth 4200' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
Total Depth 4222' Wt. Pipe Run None Drill Collar Run None  
Mud Wt. 9.2 LCM      Vis. S3 WL 12.0cc Drill Pipe Size 4 1/2" x H. Ft. Run 4191'  
Blow Description IF: Strong blow. B.O.B. 2 sec. GTS in 2.5 mins.  
(see gas volume report) ISI: No blow.  
FF: Strong blow. (see gas volume report) FSI: No blow.

| Recovery — Total Feet                                                                         | GIP                                  | Ft. in DC                        | Ft. in DP   |
|-----------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------|-------------|
| <u>410</u>                                                                                    | <u>yes</u>                           | <u>0</u>                         | <u>410</u>  |
| Rec. <u>30</u> Feet Of <u>M.W.</u>                                                            | %gas                                 | %oil                             | %water %mud |
| Rec. <u>380</u> Feet Of <u>Salt Water</u>                                                     | %gas                                 | %oil                             | %water %mud |
| Rec. <u>    </u> Feet Of <u>    </u>                                                          | %gas                                 | %oil                             | %water %mud |
| Rec. <u>    </u> Feet Of <u>    </u>                                                          | %gas                                 | %oil                             | %water %mud |
| Rec. <u>    </u> Feet Of <u>    </u>                                                          | %gas                                 | %oil                             | %water %mud |
| BHT <u>116</u> °F Gravity <u>N/A</u> °API D@ <u>    </u> °F Corrected Gravity <u>N/A</u> °API |                                      |                                  |             |
| RW <u>0.09</u> @ <u>51</u> AK-1                                                               | Chlorides <u>105000</u> ppm Recovery | Chlorides <u>3000</u> ppm System |             |

| (A) Initial Hydrostatic Mud      | Alpine      | PSI             | Recorder No. | T-On Location             |
|----------------------------------|-------------|-----------------|--------------|---------------------------|
| (B) First Initial Flow Pressure  | <u>2093</u> | <u>520</u>      | <u>2342</u>  | <u>1300</u>               |
| (C) First Final Flow Pressure    | <u>375</u>  | <u>520</u>      | <u>4201'</u> | <u>1514</u>               |
| (D) Initial Shut-In Pressure     | <u>1504</u> | <u>375</u>      | <u>10248</u> | <u>1750</u> 9             |
| (E) Second Initial Flow Pressure | <u>588</u>  | <u>1504</u>     | <u>4217</u>  | <u>2040</u>               |
| (F) Second Final Flow Pressure   | <u>577</u>  | <u>588</u>      | <u>    </u>  | <u>2300</u>               |
| (G) Final Shut-in Pressure       | <u>1380</u> | <u>577</u>      | <u>    </u>  | <u>0015</u>               |
| (Q) Final Hydrostatic Mud        | <u>2041</u> | <u>1380</u>     | <u>15</u>    | <u>800</u> 00             |
|                                  |             | Initial Opening | <u>60</u>    | Jars <u>200</u> 00        |
|                                  |             | Initial Shut-in | <u>30</u>    | Safety Joint <u>50</u> 00 |
|                                  |             | Final Flow      | <u>60</u>    | Straddle <u>    </u>      |
|                                  |             | Final Shut-in   | <u>4</u>     | Circ. Sub <u>    </u>     |
|                                  |             |                 |              | Sampler <u>    </u>       |

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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     

Our Representative Gary R. Rostetter

Extra Packer       
Elec. Rec. ✓ 150 00  
Mileage ✓ 60  
Other       
TOTAL PRICE \$ ✓ 1260 00



## DRILL STEM TEST REPORT

Prepared For: **CMX**

150 N. Main Ste. 1026  
Wichita KS 67202

ATTN: Doug McGinness Jr.

**9-35s-13w Barber KS**

**Albert #1**

Start Date: 2001.03.30 @ 00:21:00

End Date: 2001.04.01 @ 09:17:00

Job Ticket #: 14007                      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

CMX

150 N. Main Ste. 1026  
Wichita KS 67202

ATTN: Doug McGinness Jr.

Albert #1

9-35s-13w Barber KS

Job Ticket: 14007

DST#: 2

Test Start: 2001.03.30 @ 00:21:00

### GENERAL INFORMATION:

Formation: **Drum**

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

Time Tool Opened: 02:33:22

Time Test Ended: 09:17:00

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **13**

Interval: **4530.00 ft (KB) To 4565.00 ft (KB) (TVD)**

Total Depth: **4565.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1592.00 ft (KB)**

**1584.00 ft (CF)**

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

Serial #: **2342** Inside

Press@RunDepth: **492.90 psig @ 4531.00 ft (KB)**

Start Date: **2001.04.01**

End Date:

**2001.04.01**

Start Time: **00:21:23**

End Time:

**09:17:22**

Capacity: **7000.00 psig**

Last Calib.: **2001.01.04**

Time On Btm: **2001.04.01 @ 02:30:52**

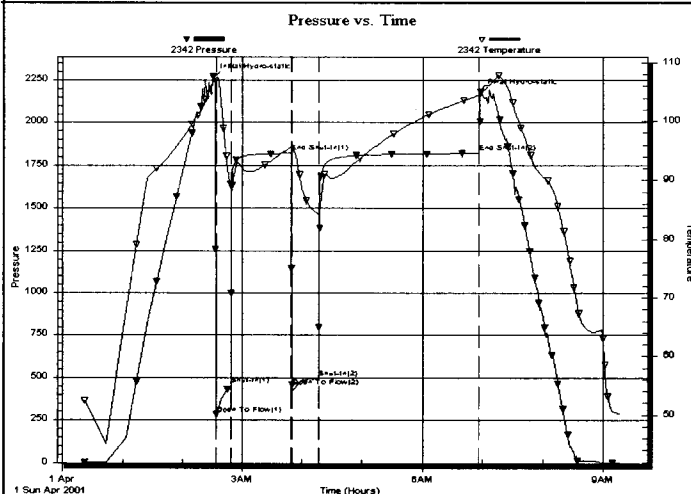
Time Off Btm: **2001.04.01 @ 06:57:52**

TEST COMMENT: **IF: Strong blow . GTS in 3 mins. (see gas volume report)**

**IS: No blow .**

**FF: Strong blow . (see gas volume report)**

**FS: No blow .**



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 130         | 2263.61         | 106.76       | Initial Hydro-static |
| 132         | 281.65          | 107.35       | Open To Flow (1)     |
| 148         | 452.95          | 88.47        | Shut-In(1)           |
| 208         | 1820.88         | 95.72        | End Shut-In(1)       |
| 210         | 442.21          | 95.52        | Open To Flow (2)     |
| 236         | 492.90          | 84.32        | Shut-In(2)           |
| 395         | 1820.72         | 104.51       | End Shut-In(2)       |
| 397         | 2172.21         | 104.86       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 0.00        | Gas in all fluid free pipe | 0.00         |
| 35.00       | Gas cut mud. 20%g 80%w     | 0.49         |
|             |                            |              |
|             |                            |              |
|             |                            |              |
|             |                            |              |

### Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.75           | 100.00          | 1820.59          |
| Last Gas Rate  | 0.75           | 190.00          | 3252.87          |
| Max. Gas Rate  | 0.75           | 190.00          | 3252.87          |



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

9-35s-13w Barber KS

Job Ticket: 14007

DST#: 2

ATTN: Doug McGinness Jr.

Test Start: 2001.03.30 @ 00:21:00

### Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 4530.00 ft | Diameter: 3.80 inches | Volume: 63.54 bbl | Tool Weight: 2100.00 lb            |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer: 20000.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight to Pull Loose: 65000.00 lb  |
| Drill Pipe Above KB:      | 27.00 ft           |                       |                   | Tool Chased 0.00 ft                |
| Depth to Top Packer:      | 4525.00 ft         |                       |                   | String Weight: Initial 53000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   | Final 53000.00 lb                  |
| Interval between Packers: | ft                 |                       |                   |                                    |
| Tool Length:              | 62.00 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

### Tool Comments

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub         | 1.00        |            |          | 4504.00    |                               |
| S.I. Tool        | 5.00        |            |          | 4509.00    |                               |
| HMV              | 5.00        |            |          | 4514.00    |                               |
| Jars             | 5.00        |            |          | 4519.00    |                               |
| Safety Joint     | 2.00        |            |          | 4521.00    |                               |
| Packer           | 4.00        |            |          | 4525.00    | 22.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4530.00    |                               |
| Stubb            | 1.00        |            |          | 4531.00    |                               |
| Recorder         | 0.00        | 2342       | Inside   | 4531.00    |                               |
| Perforations     | 29.00       |            |          | 4560.00    |                               |
| Recorder         | 0.00        | 10248      | Outside  | 4560.00    |                               |
| Bullnose         | 5.00        |            |          | 4565.00    | 40.00 Bottom Packers & Anchor |

**Total Tool Length: 62.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

9-35s-13w Barber KS

Job Ticket: 14007

DST#: 2

ATTN: Doug McGinness Jr.

Test Start: 2001.03.30 @ 00:21:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: -999999 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 4000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.85

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                | Volume<br>bbl |
|--------------|----------------------------|---------------|
| 0.00         | Gas in all fluid free pipe | 0.000         |
| 35.00        | Gas cut mud. 20%g 80%m     | 0.491         |

Total Length: 35.00 ft

Total Volume: 0.490 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: 2342

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



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

## DRILL STEM TEST REPORT

**GAS RATES**

CMX

**Albert #1**

150 N. Main Ste. 1026  
Wichita KS 67202

**9-35s-13w Barber KS**

Job Ticket: 14007

**DST#: 2**

ATTN: Doug McGinness Jr.

Test Start: 2001.03.30 @ 00:21:00

### Gas Rates Information

Temperature: 40 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke<br>(inches) | Pressure<br>(kPaa) | Gas Rate<br>(Mcf/d) |
|-------------|--------------|-------------------|--------------------|---------------------|
| 1           | 5            | 0.75              | 100.00             | 1820.59             |
| 1           | 5            | 0.75              | 100.00             | 1820.59             |
| 1           | 10           | 0.75              | 130.00             | 2298.01             |
| 1           | 15           | 0.75              | 158.00             | 2743.61             |
| 2           | 10           | 0.75              | 160.00             | 2775.44             |
| 2           | 20           | 0.75              | 190.00             | 3252.87             |

# NATURAL GAS ANALYSIS REPORT

**Sampled by:**

Trilobite Testing, L. L. C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

**Analyzed by:**

Caraway Analytical, Inc  
P. O. Box 2137  
Liberal, Kansas 67905  
Phone: 316-624-5389  
Fax: 316-626-7108

**Lab Number: 20011809****Analyzed: 04/07/01**

Sample From: Albert 1 DST 2  
Producer: CMX Inc

Pressure:  
Temperature:

**Date: Location: 9-35-13**

Time:  
Sampler:  
Source:

County: Barber  
State: Kansas  
Formation: Drum

|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 0.239  | 0.000 |
| Hydrogen       | H2: 0.000  | 0.000 |
| Oxygen         | O2: 0.000  | 0.000 |
| Nitrogen       | N2: 11.015 | 0.000 |
| Carbon Dioxide | CO2: 0.107 | 0.000 |
| Methane        | C1: 78.338 | 0.000 |
| Ethane         | C2: 5.472  | 1.463 |
| Propane        | C3: 2.690  | 0.741 |
| Iso Butane     | iC4: 0.337 | 0.110 |
| Normal Butane  | nC4: 0.917 | 0.289 |
| Iso Pentane    | iC5: 0.217 | 0.079 |
| Normal Pentane | nC5: 0.271 | 0.098 |
| Hexanes Plus   | C6+: 0.397 | 0.173 |

TOTAL: 100.000 2.955

Z Fact: 0.9976

SP.GR.: 0.6922

BTU (SAT): 1023.3 @ 14.73 psia

BTU (DRY): 1041.4 @ 14.73 psia

**OCTANE RATING: 111.7**

COMMENTS:

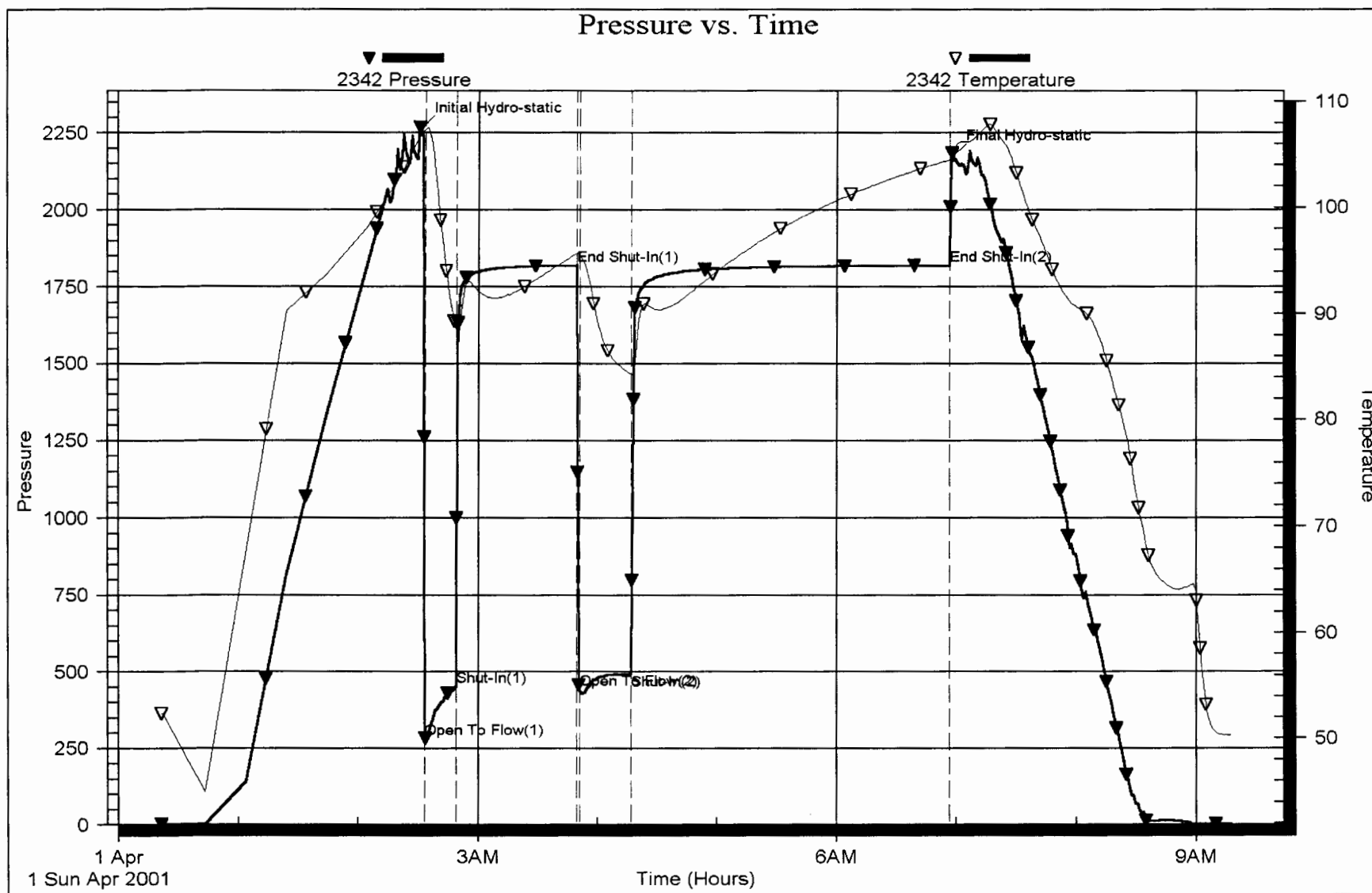
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Serial #: 2342

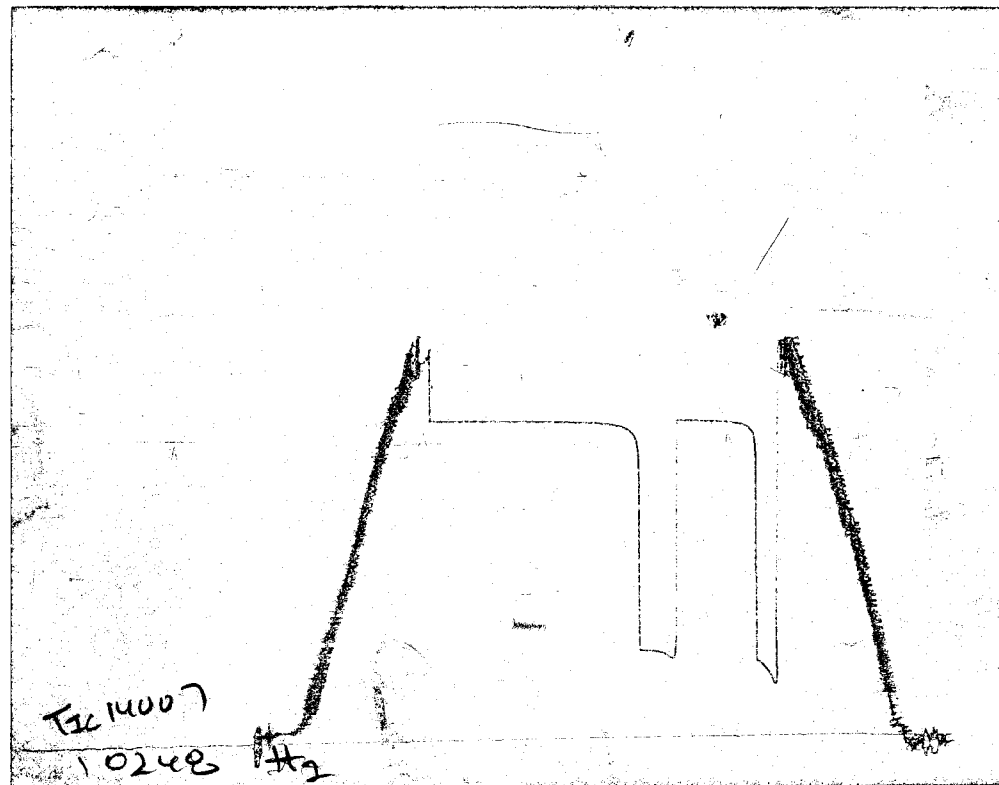
Inside CMX

9-35s-13w Barber KS



## CHART PAGE

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





## GAS VOLUME REPORT

CMX

Albert # 1

**OPERATOR**

WELL NAME AND NO.

2

DST NO.

Initial Open

# Final Open

Remarks:

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 14007

## Test Ticket

|                                                            |                                         |                                                          |
|------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------|
| Well Name & No. <u>Albert #1</u>                           | Test No. <u>2</u>                       | Date <u>4-1-2001</u>                                     |
| Company <u>CMX</u>                                         | Zone Tested <u>Drum</u>                 |                                                          |
| Address <u>150 N. Main Ste 1026, Winterville, NC 27282</u> | Elevation <u>1592</u> KB <u>1584</u> GL |                                                          |
| Co. Rep / Geo. <u>Doug McGinnis</u>                        | Cont. <u>Duke Daly</u> # <u>8</u>       | Est. Ft. of Pay <u>    </u> Por. <u>    </u> %           |
| Location: Sec. <u>9</u> Twp. <u>35S</u> Rge. <u>13W</u>    | Co. <u>Barber</u> State <u>Ks.</u>      |                                                          |
| No. of Copies <u>7</u>                                     | Distribution Sheet (Y, N) <u>    </u>   | Turnkey (Y, N) <u>    </u> Evaluation (Y, N) <u>    </u> |

Interval Tested 4530 - 4565' Initial Str Wt./Lbs. 53,000 Unseated Str Wt./Lbs. 53,000  
 Anchor Length 35' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 65,000  
 Top Packer Depth 4525' Tool Weight 2100#  
 Bottom Packer Depth 4530' Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒  
 Total Depth 4565' Wt. Pipe Run None Drill Collar Run None  
 Mud Wt. 9.3 LCM      Vis. SI WL 12.0 cc Drill Pipe Size 4 1/2" x 14 Ft. Run 4530'  
 Blow Description IF: Strong blow. GTS in 3 mins. (see gas volume report)  
ISI: No blow.  
FF: Strong blow. (see gas volume report)  
FSI: No blow.

Recovery — Total Feet 35 GIP yes Ft. in DC      Ft. in DP       
 Rec. 35 Feet Of Cut mud 20 %gas %oil %water 80 %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 105 °F Gravity N/A °API D@      °F Corrected Gravity N/A °API  
 RW N.C. @      °F Chlorides 4,000 ppm Recovery Chlorides 4,000 ppm System

|                                  | AK-1 | Alpine      | PSI | Recorder No.                  | T-On Location                      |
|----------------------------------|------|-------------|-----|-------------------------------|------------------------------------|
| (A) Initial Hydrostatic Mud      |      | <u>2744</u> |     | <u>2342</u>                   | <u>2400</u>                        |
| (B) First Initial Flow Pressure  |      | <u>282</u>  |     | (depth) <u>4531'</u>          | T-Started <u>0021</u>              |
| (C) First Final Flow Pressure    |      | <u>453</u>  |     | PSI Recorder No. <u>10258</u> | T-Open <u>0233</u>                 |
| (D) Initial Shut-In Pressure     |      | <u>1821</u> |     | (depth) <u>4560'</u>          | T-Pulled <u>0755</u>               |
| (E) Second Initial Flow Pressure |      | <u>442</u>  |     | PSI Recorder No. <u>    </u>  | T-Out <u>0917</u>                  |
| (F) Second Final Flow Pressure   |      | <u>493</u>  |     | (depth) <u>    </u>           | T-Off Location <u>1035</u>         |
| (G) Final Shut-in Pressure       |      | <u>1821</u> |     | PSI Initial Opening <u>15</u> | Test <u>✓</u> <u>800.00</u>        |
| (Q) Final Hydrostatic Mud        |      | <u>2172</u> |     | PSI Initial Shut-in <u>60</u> | Jars <u>✓</u> <u>200.00</u>        |
|                                  |      |             |     | Final Flow <u>30</u>          | Safety Joint <u>✓</u> <u>50.00</u> |
|                                  |      |             |     | Final Shut-in <u>150</u>      | Straddle <u>    </u>               |
|                                  |      |             |     | <u>6</u>                      | Circ. Sub <u>    </u>              |
|                                  |      |             |     | <u>7</u>                      | Sampler <u>    </u>                |

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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     

Our Representative     

Extra Packer       
 Elec. Rec. ✓ 150.00  
 Mileage ✓ 60.00  
 Other STAND BY ✓ 30.00  
 TOTAL PRICE \$ ✓ 1290.00



## DRILL STEM TEST REPORT

Prepared For: **CMX**

150 N. Main Ste. 1026  
Wichita KS 67202

ATTN: Doug McGinness Jr.

**9-35s-13w Barber KS**

**Albert #1**

Start Date: 2001.04.02 @ 04:33:00

End Date: 2001.04.02 @ 13:21:00

Job Ticket #: 14008                      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

CMX

150 N. Main Ste. 1026  
Wichita KS 67202

ATTN: Doug McGinness Jr.

Albert #1

9-35s-13w Barber KS

Job Ticket: 14008

DST#: 3

Test Start: 2001.04.02 @ 04:33:00

### GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:42:34

Time Test Ended: 13:21:00

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 13

Interval: **4646.00 ft (KB) To 4670.00 ft (KB) (TVD)**

Total Depth: 4670.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1592.00 ft (KB)

1584.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **2342** Inside

Press@RunDepth: 32.39 psig @ 4647.00 ft (KB)

Start Date: 2001.04.02

End Date:

2001.04.02

Start Time: 04:33:05

End Time:

13:21:34

Capacity: 7000.00 psig

Last Calib.: 2001.01.04

Time On Btm: 2001.04.02 @ 06:40:04

Time Off Btm: 2001.04.02 @ 11:13:34

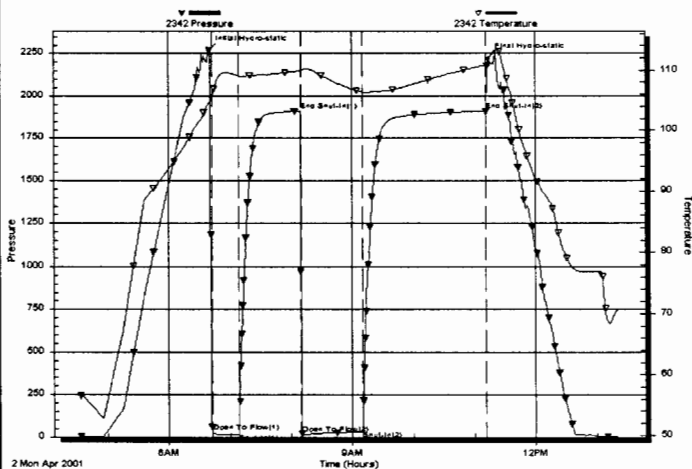
TEST COMMENT: IF: Strong blow . B.O.B. in 30 secs. GTS in 27 mins.

IS: No blow .

FF: Strong blow . (see gas volume report)

FS: No blow .

Pressure vs. Time



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 127         | 2269.65         | 104.61       | Initial Hydro-static |
| 130         | 25.25           | 105.57       | Open To Flow (1)     |
| 156         | 17.20           | 109.10       | Shut-In(1)           |
| 216         | 1912.79         | 109.96       | End Shut-In(1)       |
| 218         | 17.53           | 109.93       | Open To Flow (2)     |
| 277         | 32.39           | 106.41       | Shut-In(2)           |
| 399         | 1911.53         | 110.91       | End Shut-In(2)       |
| 401         | 2224.58         | 111.23       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 0.00        | Gas in all fluid free pipe | 0.00         |
| 20.00       | GCM 15%g 85%am             | 0.28         |
|             |                            |              |
|             |                            |              |
|             |                            |              |
|             |                            |              |

### Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25           |                 |                  |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

9-35s-13w Barber KS

Job Ticket: 14008

DST#: 3

ATTN: Doug McGinness Jr.

Test Start: 2001.04.02 @ 04:33:00

### Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 4625.00 ft | Diameter: 3.80 inches | Volume: 64.88 bbl | Tool Weight: 2100.00 lb            |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer: 20000.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight to Pull Loose: 65000.00 lb  |
| Drill Pipe Above KB:      | 6.00 ft            |                       |                   | Tool Chased 3.00 ft                |
| Depth to Top Packer:      | 4641.00 ft         |                       |                   | String Weight: Initial 53000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   | Final 53000.00 lb                  |
| Interval between Packers: | ft                 |                       |                   |                                    |
| Tool Length:              | 51.00 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

### Tool Comments

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|              |       |       |         |         |                               |
|--------------|-------|-------|---------|---------|-------------------------------|
| C.O. Sub     | 1.00  |       |         | 4620.00 |                               |
| S.I. Tool    | 5.00  |       |         | 4625.00 |                               |
| HMV          | 5.00  |       |         | 4630.00 |                               |
| Jars         | 5.00  |       |         | 4635.00 |                               |
| Safety Joint | 2.00  |       |         | 4637.00 |                               |
| Packer       | 4.00  |       |         | 4641.00 | 22.00 Bottom Of Top Packer    |
| Packer       | 5.00  |       |         | 4646.00 |                               |
| Stubb        | 1.00  |       |         | 4647.00 |                               |
| Recorder     | 0.00  | 2342  | Inside  | 4647.00 |                               |
| Perforations | 18.00 |       |         | 4665.00 |                               |
| Recorder     | 0.00  | 10248 | Outside | 4665.00 |                               |
| Bullnose     | 5.00  |       |         | 4670.00 | 29.00 Bottom Packers & Anchor |

**Total Tool Length: 51.00**



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

## DRILL STEM TEST REPORT

### FLUID SUMMARY

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

9-35s-13w Barber KS

Job Ticket: 14008

DST#: 3

ATTN: Doug McGinness Jr.

Test Start: 2001.04.02 @ 04:33:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: -999999 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 4000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.91

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                | Volume<br>bbl |
|--------------|----------------------------|---------------|
| 0.00         | Gas in all fluid free pipe | 0.000         |
| 20.00        | GCM 15%g 85%em             | 0.281         |

Total Length: 20.00 ft

Total Volume: 0.280 bbl

Num Fluid Samples: 1

Num Gas Bombs: 3

Serial #: 2342

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:





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

## DRILL STEM TEST REPORT

**GAS RATES**

CMX

**Albert #1**

150 N. Main Ste. 1026  
Wichita KS 67202

**9-35s-13w Barber KS**

Job Ticket: 14008

**DST#: 3**

ATTN: Doug McGinness Jr.

Test Start: 2001.04.02 @ 04:33:00

### Gas Rates Information

Temperature: 40 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke<br>(inches) | Pressure<br>(kPaa) | Gas Rate<br>(Mcf/d) |
|-------------|--------------|-------------------|--------------------|---------------------|
|             |              | 0.25              | -999999.00         |                     |

# NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, L. L. C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical, Inc  
P. O. Box 2137  
Liberal, Kansas 67905  
Phone: 316-624-5389  
Fax: 316-626-7108

Lab Number: 20011810

Analyzed: 04/07/01

Sample From: Albert 1 DST 3  
Producer: CMX Inc

Pressure:  
Temperature:

Date: Location: 9-35-13

Time:  
Sampler:  
Source:

County: Barber  
State: Kansas  
Formation: Swope

|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 0.153  | 0.000 |
| Hydrogen       | H2: 0.011  | 0.000 |
| Oxygen         | O2: 0.000  | 0.000 |
| Nitrogen       | N2: 3.515  | 0.000 |
| Carbon Dioxide | CO2: 0.030 | 0.000 |
| Methane        | C1: 86.872 | 0.000 |
| Ethane         | C2: 4.784  | 1.279 |
| Propane        | C3: 2.555  | 0.704 |
| Iso Butane     | iC4: 0.254 | 0.083 |
| Normal Butane  | nC4: 0.778 | 0.245 |
| Iso Pentane    | iC5: 0.172 | 0.063 |
| Normal Pentane | nC5: 0.236 | 0.085 |
| Hexanes Plus   | C6+: 0.640 | 0.279 |

TOTAL: 100.000 2.740

Z Fact: 0.9974

SP.GR.: 0.6579

BTU (SAT): 1095.2 @ 14.73 psia

BTU (DRY): 1114.6 @ 14.73 psia

**OCTANE RATING: 121.7**

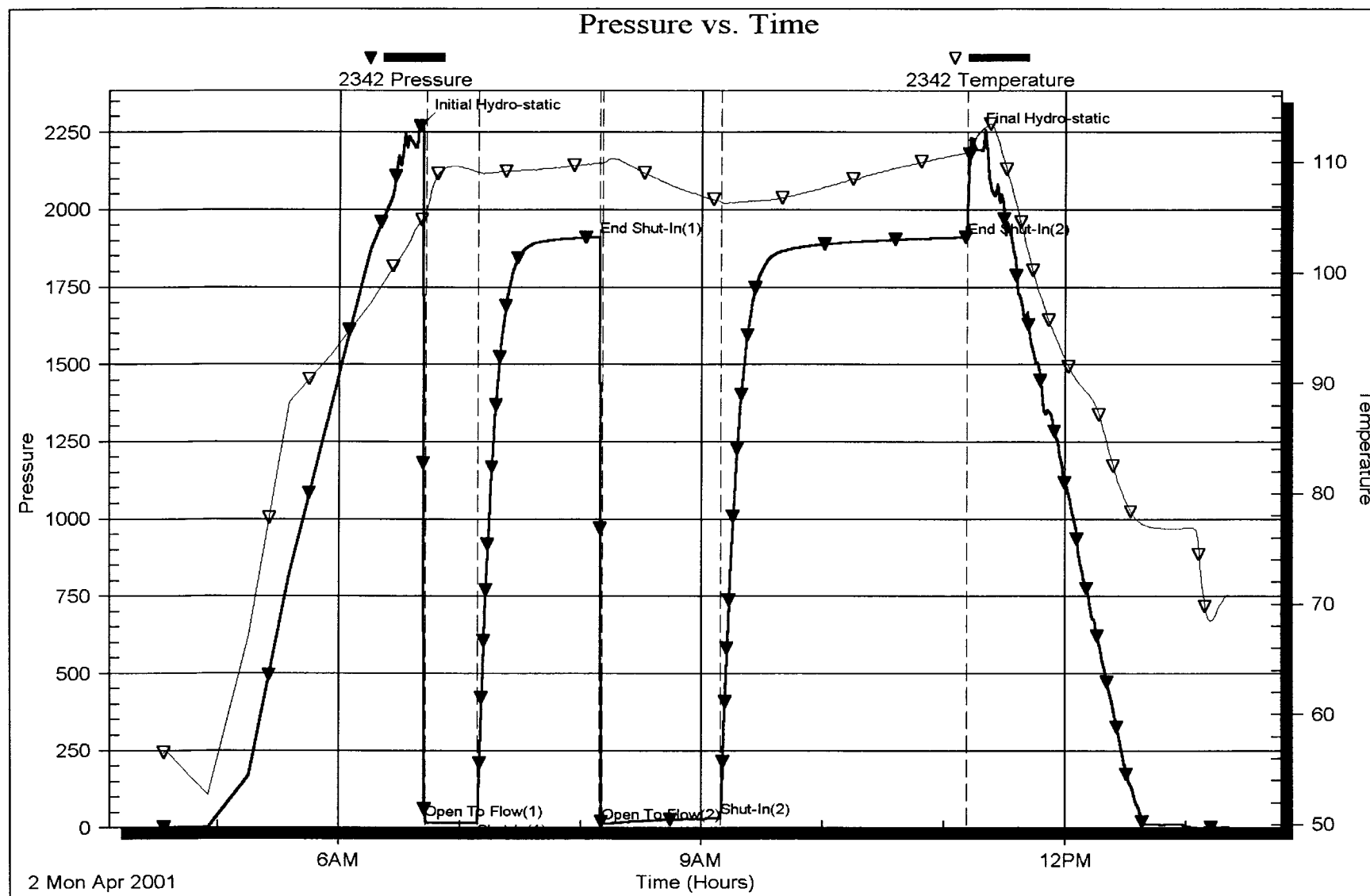
COMMENTS:

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Serial #: 2342

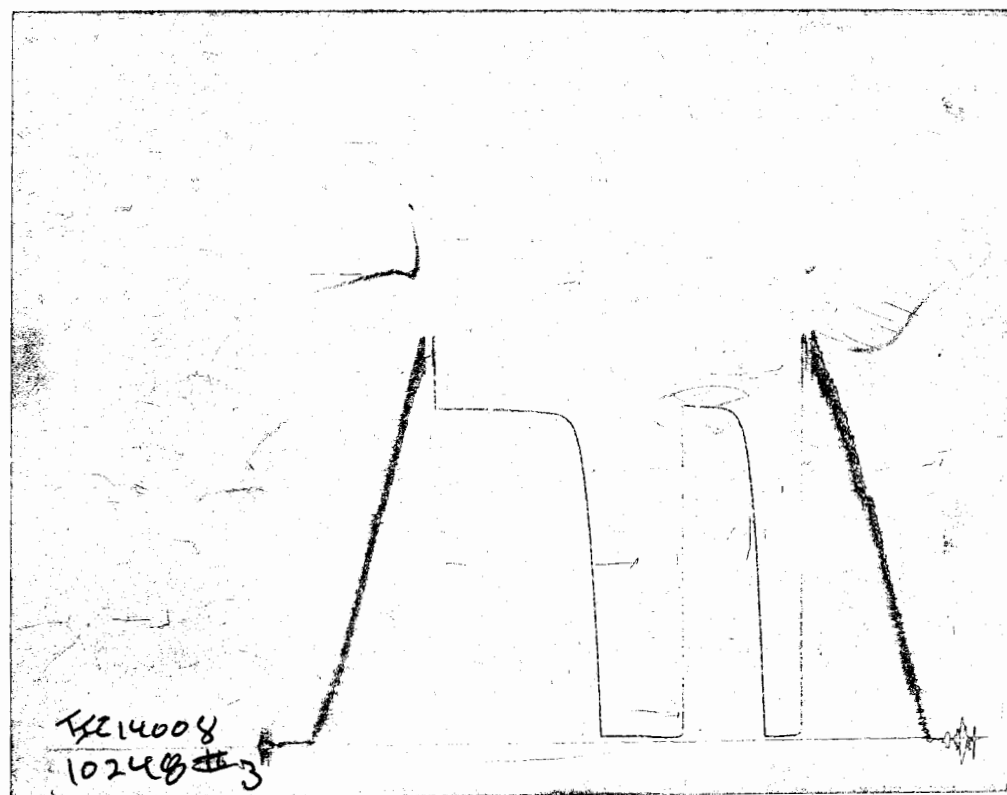
Inside CMX

9-35s-13w Barber KS



## CHART PAGE

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





## GAS VOLUME REPORT

OPERATOR

WELL NAME AND NO.

DST NO.

## Final Open

Remarks:

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 14008

## Test Ticket

|                 |                                              |                           |                     |                   |                   |
|-----------------|----------------------------------------------|---------------------------|---------------------|-------------------|-------------------|
| Well Name & No. | <u>Albert #1</u>                             | Test No.                  | <u>3</u>            | Date              | <u>4-2-2001</u>   |
| Company         | <u>CMX</u>                                   | Zone Tested               | <u>Slope</u>        |                   |                   |
| Address         | <u>50N. Main Ste 1026, Wichita Ks. 67202</u> |                           | Elevation           | <u>1592</u>       | KB <u>1584</u> GL |
| Co. Rep / Geo.  | <u>Doug McGinness</u>                        | Cont.                     | <u>Duke Dalg #8</u> | Est. Ft. of Pay   | Por. %            |
| Location: Sec.  | <u>9</u>                                     | Twp.                      | <u>35S</u>          | Rge.              | <u>13W</u>        |
|                 |                                              |                           |                     | Co.               | <u>Barber</u>     |
|                 |                                              |                           |                     | State             | <u>Ks.</u>        |
| No. of Copies   | <u>7</u>                                     | Distribution Sheet (Y, N) |                     | Turnkey (Y, N)    |                   |
|                 |                                              |                           |                     | Evaluation (Y, N) |                   |

Interval Tested 4646-4670' Initial Str Wt./Lbs. 53,000 Unseated Str Wt./Lbs. 53,000  
Anchor Length 24' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 65,000  
Top Packer Depth 4641' Tool Weight 2100#  
Bottom Packer Depth 4646' Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒  
Total Depth 4670' Wt. Pipe Run None Drill Collar Run None  
Mud Wt. 9.3 LCM — Vis. 47 WL 12.0 cc. Drill Pipe Size 4 1/2" X H. Ft. Run 4625'  
Blow Description IF: Strong blow. B.O.B. in 30 secs. GTS in 27 mins.  
ISI: No blow.  
FF: Strong blow. (see gas volume report) FSI: No blow.

Recovery — Total Feet 20 GIP yes Ft. in DC — Ft. in DP 20  
Rec. 20 Feet Of GCM 15 %gas %oil %water 85 %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 111 °F Gravity N/A °API D@ — °F Corrected Gravity N/A °API  
RW N.C. @ °F Chlorides 4,000 ppm Recovery Chlorides 4,000 ppm System

|                                  | AK-1        | Alpine |                           |                |              |
|----------------------------------|-------------|--------|---------------------------|----------------|--------------|
| (A) Initial Hydrostatic Mud      | <u>2270</u> | PSI    | Recorder No. <u>2342</u>  | T-On Location  | <u>0415</u>  |
| (B) First Initial Flow Pressure  | <u>25</u>   | PSI    | (depth) <u>4647'</u>      | T-Started      | <u>0433</u>  |
| (C) First Final Flow Pressure    | <u>17</u>   | PSI    | Recorder No. <u>10248</u> | T-Open         | <u>0642</u>  |
| (D) Initial Shut-In Pressure     | <u>1913</u> | PSI    | (depth) <u>4665'</u>      | T-Pulled       | <u>1113</u>  |
| (E) Second Initial Flow Pressure | <u>18</u>   | PSI    | Recorder No. <u>—</u>     | T-Out          | <u>1300</u>  |
| (F) Second Final Flow Pressure   | <u>32</u>   | PSI    | (depth) <u>—</u>          | T-Off Location | <u>1358</u>  |
| (G) Final Shut-in Pressure       | <u>1912</u> | PSI    | Initial Opening <u>30</u> | Test           | <u>✓ 800</u> |
| (Q) Final Hydrostatic Mud        | <u>7223</u> | PSI    | Initial Shut-in <u>60</u> | Jars           | <u>✓ 200</u> |
|                                  |             |        | Final Flow <u>60</u>      | Safety Joint   | <u>✓ 50</u>  |
|                                  |             |        | Final Shut-in <u>120</u>  | Straddle       | <u>—</u>     |
|                                  |             |        |                           | Circ. Sub      | <u>—</u>     |
|                                  |             |        |                           | Sampler        | <u>—</u>     |

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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

Our Representative

Extra Packer  
Elec. Rec. ✓ 150  
Mileage ✓ 60  
Other STAND BY 30  
TOTAL PRICE \$ 1290.00



## DRILL STEM TEST REPORT

Prepared For: **CMX**

150 N. Main Ste. 1026  
Wichita KS 67202

ATTN: Doug McGinness Jr.

**9-35s-13w Barber KS**

**Albert #1**

Start Date: 2001.04.03 @ 14:00:00

End Date: 2001.04.03 @ 22:18:00

Job Ticket #: 14009                      DST #: 4

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



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

## DRILL STEM TEST REPORT

CMX

150 N. Main Ste. 1026  
Wichita KS 67202

ATTN: Doug McGinness Jr.

Albert #1

9-35s-13w Barber KS

Job Ticket: 14009

DST#: 4

Test Start: 2001.04.03 @ 14:00:00

### GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:03:10

Time Test Ended: 22:18:00

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 13

Interval: **4835.00 ft (KB) To 4910.00 ft (KB) (TVD)**

Total Depth: 4910.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1592.00 ft (KB)

1584.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **2342** Inside

Press@RunDepth: 37.67 psig @ 4836.00 ft (KB)

Start Date: 2001.04.03

End Date: 2001.04.03

Start Time: 14:00:41

End Time: 22:18:40

Capacity: 7000.00 psig

Last Calib.: 2001.01.04

Time On Btm: 2001.04.03 @ 15:52:40

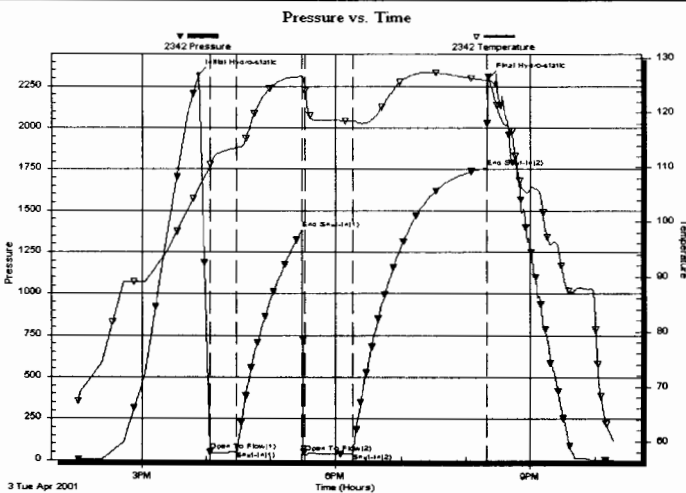
Time Off Btm: 2001.04.03 @ 20:21:40

TEST COMMENT: IF: Strong blow . GTS in 8 mins. (see gas volume report)

ISI: No blow .

FF: Strong blow . (see gas volume report)

FS: No blow .



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 112         | 2323.28         | 106.33       | Initial Hydro-static |
| 123         | 48.25           | 110.14       | Open To Flow (1)     |
| 148         | 52.95           | 113.64       | Shut-In(1)           |
| 209         | 1385.47         | 126.69       | End Shut-In(1)       |
| 211         | 36.75           | 125.00       | Open To Flow (2)     |
| 255         | 37.67           | 118.46       | Shut-In(2)           |
| 379         | 1760.21         | 126.04       | End Shut-In(2)       |
| 381         | 2303.22         | 126.32       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 0.00        | Gas in all fluid free pipe | 0.00         |
| 55.00       | Drig mud                   | 0.77         |
|             |                            |              |
|             |                            |              |
|             |                            |              |
|             |                            |              |

### Gas Rates

|                | Choke(inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|---------------|-----------------|------------------|
| First Gas Rate | 0.13          | 2.00            | 6.24             |
| Last Gas Rate  | 0.25          | 4.00            | 29.68            |
| Max. Gas Rate  | 0.13          | 8.00            | 8.53             |





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

9-35s-13w Barber KS

Job Ticket: 14009

DST#: 4

ATTN: Doug McGinness Jr.

Test Start: 2001.04.03 @ 14:00:00

### Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 4811.00 ft | Diameter: 3.80 inches | Volume: 67.49 bbl | Tool Weight: 2100.00 lb            |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer: 20000.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight to Pull Loose: 62000.00 lb  |
| Drill Pipe Above KB:      | 3.00 ft            |                       |                   | Tool Chased 0.00 ft                |
| Depth to Top Packer:      | 4830.00 ft         |                       |                   | String Weight: Initial 53000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   | Final 53000.00 lb                  |
| Interval between Packers: | ft                 |                       |                   |                                    |
| Tool Length:              | 102.00 ft          |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

### Tool Comments

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub         | 1.00        |            |          | 4809.00    |                               |
| S.I. Tool        | 5.00        |            |          | 4814.00    |                               |
| HMV              | 5.00        |            |          | 4819.00    |                               |
| Jars             | 5.00        |            |          | 4824.00    |                               |
| Safety Joint     | 2.00        |            |          | 4826.00    |                               |
| Packer           | 4.00        |            |          | 4830.00    | 22.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4835.00    |                               |
| Stubb            | 1.00        |            |          | 4836.00    |                               |
| Recorder         | 0.00        | 2342       | Inside   | 4836.00    |                               |
| Perforations     | 5.00        |            |          | 4841.00    |                               |
| C.O. Sub         | 1.00        |            |          | 4842.00    |                               |
| Blank Spacing    | 62.00       |            |          | 4904.00    |                               |
| C.O. Sub         | 1.00        |            |          | 4905.00    |                               |
| Recorder         | 0.00        | 10248      | Outside  | 4905.00    |                               |
| Bullnose         | 5.00        |            |          | 4910.00    | 80.00 Bottom Packers & Anchor |

**Total Tool Length: 102.00**



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

## DRILL STEM TEST REPORT

FLUID SUMMARY

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

9-35s-13w Barber KS

Job Ticket: 14009

DST#: 4

ATTN: Doug McGinness Jr.

Test Start: 2001.04.03 @ 14:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 11.95  
Resistivity: ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: 0.20 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: -999999 deg API  
Water Salinity: 5000 ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description                | Volume<br>bbl |
|--------------|----------------------------|---------------|
| 0.00         | Gas in all fluid free pipe | 0.000         |
| 55.00        | Drig. mud                  | 0.772         |

Total Length: 55.00 ft      Total Volume: 0.770 bbl

Num Fluid Samples: 0

Num Gas Bombs: 4

Serial #: 2342

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



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

## DRILL STEM TEST REPORT

**GAS RATES**

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

**9-35s-13w Barber KS**

Job Ticket: 14009

**DST#: 4**

ATTN: Doug McGinness Jr.

Test Start: 2001.04.03 @ 14:00:00

### Gas Rates Information

Temperature: 42 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke<br>(inches) | Pressure<br>(kPaa) | Gas Rate<br>(Mcf/d) |
|-------------|--------------|-------------------|--------------------|---------------------|
| 1           | 20           | 0.13              | 2.00               | 6.24                |
| 1           | 30           | 0.13              | 8.00               | 8.53                |
| 2           | 10           | 0.25              | 8.00               | 36.13               |
| 2           | 20           | 0.25              | 6.50               | 33.71               |
| 2           | 30           | 0.25              | 5.00               | 31.29               |
| 2           | 40           | 0.25              | 4.00               | 29.68               |

# NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, L. L. C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical, Inc  
P. O. Box 2137  
Liberal, Kansas 67905  
Phone: 316-624-5389  
Fax: 316-626-7108

Lab Number: 20011811

Analyzed: 04/07/01

Sample From: Albert 1 DST 4  
Producer: CMX Inc

Pressure:  
Temperature:

Date: Location: 9-35-13

Time:  
Sampler:  
Source:

County: Barber  
State: Kansas  
Formation: Miss

|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 0.082  | 0.000 |
| Hydrogen       | H2: 0.011  | 0.000 |
| Oxygen         | O2: 0.000  | 0.000 |
| Nitrogen       | N2: 1.708  | 0.000 |
| Carbon Dioxide | CO2: 0.093 | 0.000 |
| Methane        | C1: 90.029 | 0.000 |
| Ethane         | C2: 4.411  | 1.180 |
| Propane        | C3: 1.896  | 0.522 |
| Iso Butane     | iC4: 0.249 | 0.081 |
| Normal Butane  | nC4: 0.616 | 0.194 |
| Iso Pentane    | iC5: 0.158 | 0.058 |
| Normal Pentane | nC5: 0.203 | 0.074 |
| Hexanes Plus   | C6+: 0.544 | 0.237 |

TOTAL: 100.000 2.347

Z Fact: 0.9975

SP.GR.: 0.6371

BTU (SAT): 1091.6 @ 14.73 psia

BTU (DRY): 1111.0 @ 14.73 psia

**OCTANE RATING: 124.6**

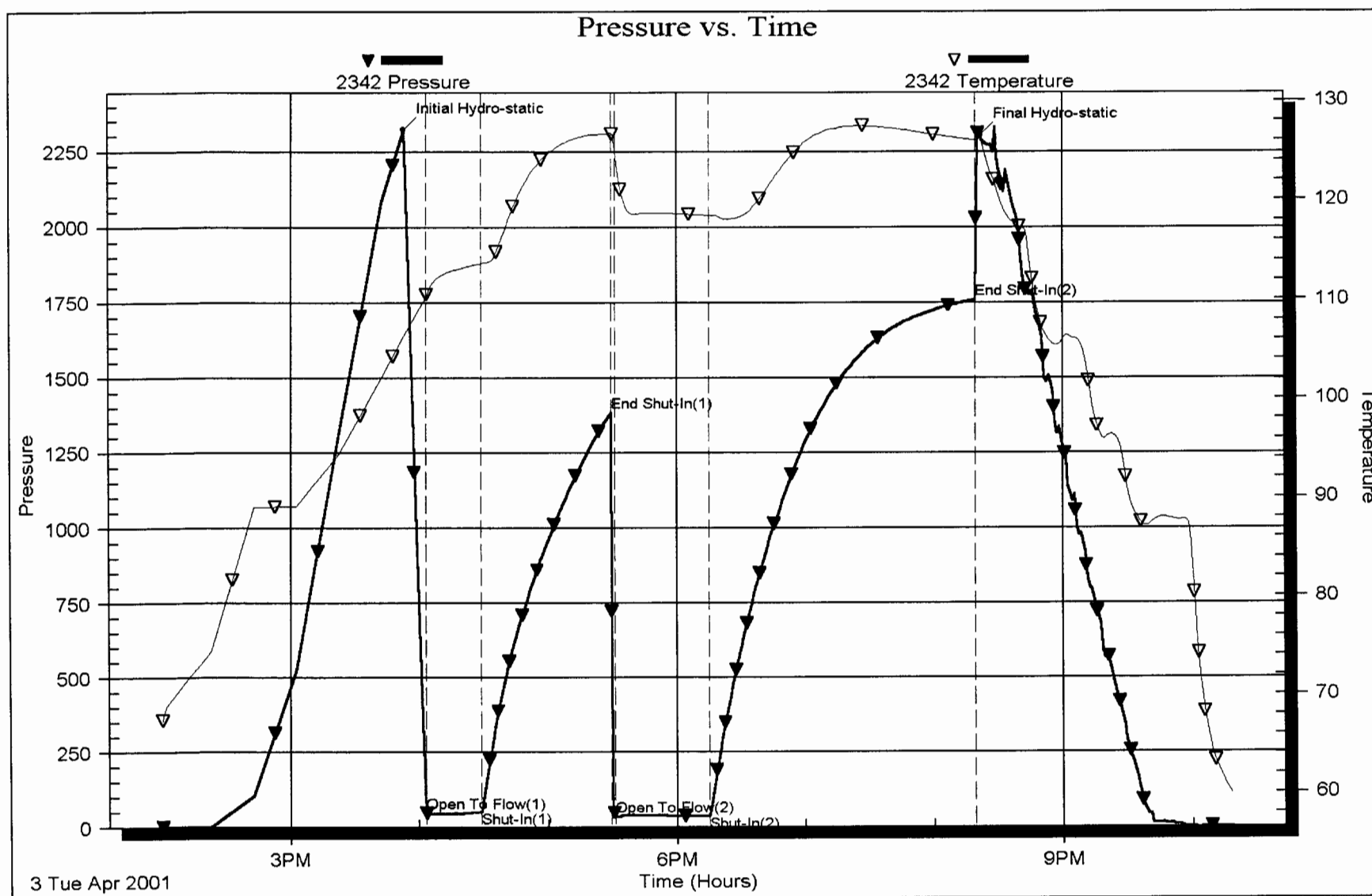
COMMENTS:

0.000

Serial #: 2342

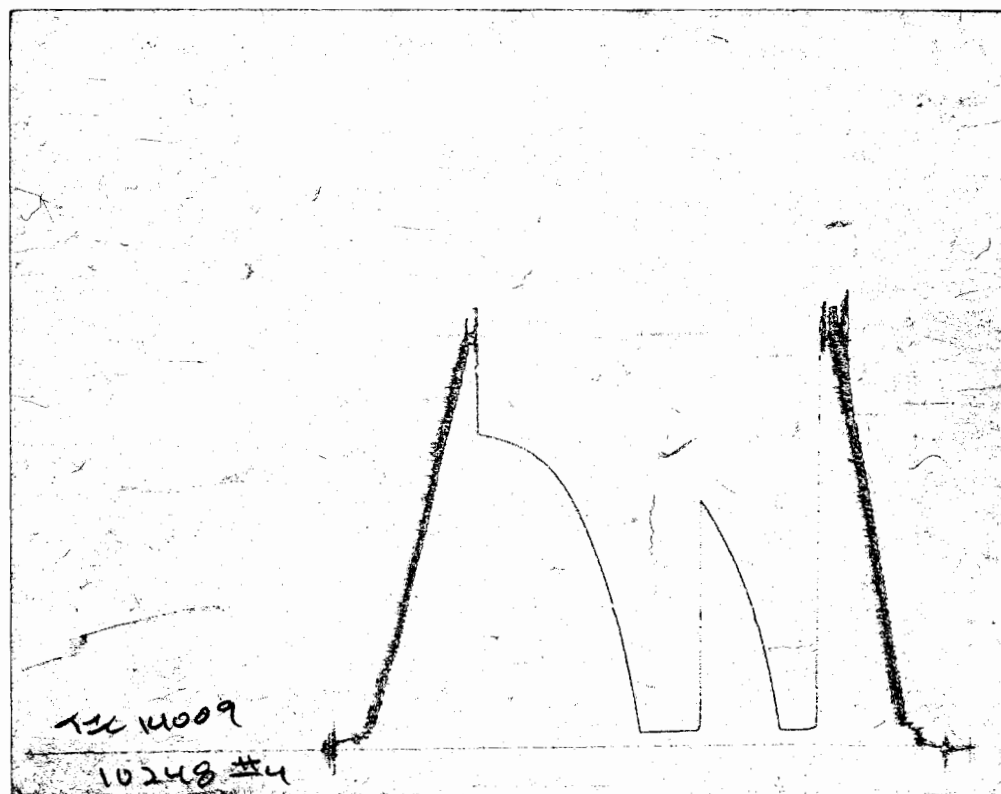
Inside CMX

9-35s-13w Barber KS



## CHART PAGE

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





## GAS VOLUME REPORT

CMX

Albert #1

**OPERATOR**

WELL NAME AND NO.

4  
DST NO

Initial Open

## Final Open

[illegible]

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 14009

## Test Ticket

|                                                          |                                         |                                                          |
|----------------------------------------------------------|-----------------------------------------|----------------------------------------------------------|
| Well Name & No. <u>Albert #1</u>                         | Test No. <u>4</u>                       | Date <u>4-3-2001</u>                                     |
| Company <u>CMX</u>                                       | Zone Tested <u>Miss.</u>                |                                                          |
| Address <u>150 N. Main Ste 1024, Wichita, Kan. 67202</u> | Elevation <u>1592</u> KB <u>1584</u> GL |                                                          |
| Co. Rep / Geo. <u>Doug McGinness II</u>                  | Cont. <u>Duke Dalg. #8</u>              | Est. Ft. of Pay <u>    </u> Por. <u>    </u> %           |
| Location: Sec. <u>9</u>                                  | Twp. <u>35S</u>                         | Rge. <u>13W</u> Co. <u>Barber</u> State <u>Ks.</u>       |
| No. of Copies <u>7</u>                                   | Distribution Sheet (Y, N) <u>N</u>      | Turnkey (Y, N) <u>    </u> Evaluation (Y, N) <u>    </u> |

Interval Tested 4835 - 4910' Initial Str Wt./Lbs. 53,000 Unseated Str Wt./Lbs. 53,000  
Anchor Length 75' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 63,000  
Top Packer Depth 4830' Tool Weight 2100 lb  
Bottom Packer Depth 4835' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
Total Depth 4910' Wt. Pipe Run None Drill Collar Run None  
Mud Wt. 9.2 LCM 0 Vis. SB WL 12.0cc. Drill Pipe Size 4 1/2" x 11' Ft. Run 4811  
Blow Description IF: Strong blow. GTS in 8 mins. (see gas volume report) ISI: No blow.  
FF: Strong blow. (see gas volume report) FSI: No blow.

| Recovery — Total Feet                   | GIP        | Ft. in DC | Ft. in DP   |
|-----------------------------------------|------------|-----------|-------------|
| <u>55</u>                               | <u>yes</u> | <u>0</u>  | <u>55</u>   |
| Rec. <u>55</u> Feet Of <u>Dalg. Mud</u> | %gas       | %oil      | %water %mud |
| Rec. <u>    </u> Feet Of <u>    </u>    | %gas       | %oil      | %water %mud |
| Rec. <u>    </u> Feet Of <u>    </u>    | %gas       | %oil      | %water %mud |
| Rec. <u>    </u> Feet Of <u>    </u>    | %gas       | %oil      | %water %mud |
| Rec. <u>    </u> Feet Of <u>    </u>    | %gas       | %oil      | %water %mud |

BHT 126 °F Gravity      °API D@      °F Corrected Gravity      °API  
RW N.C. @ 2 °F Chlorides 5,000 ppm Recovery Chlorides 5,000 ppm System

|                                  | AK-1        | Alpine       | PSI          | Recorder No.            | T-On Location |
|----------------------------------|-------------|--------------|--------------|-------------------------|---------------|
| (A) Initial Hydrostatic Mud      | <u>2323</u> | <u>2342</u>  | <u>2342</u>  | <u>1310</u>             |               |
| (B) First Initial Flow Pressure  | <u>48</u>   | <u>4836'</u> | <u>4836'</u> | <u>1400</u>             |               |
| (C) First Final Flow Pressure    | <u>53</u>   | <u>10248</u> | <u>10248</u> | <u>1603</u>             |               |
| (D) Initial Shut-In Pressure     | <u>1385</u> | <u>4905'</u> | <u>4905'</u> | <u>2017</u>             |               |
| (E) Second Initial Flow Pressure | <u>37</u>   | <u>    </u>  | <u>    </u>  | <u>2218</u>             |               |
| (F) Second Final Flow Pressure   | <u>38</u>   | <u>    </u>  | <u>    </u>  | <u>2305</u>             |               |
| (G) Final Shut-in Pressure       | <u>1760</u> | <u>30</u>    | <u>30</u>    | <u>800<sup>00</sup></u> |               |
| (Q) Final Hydrostatic Mud        | <u>2303</u> | <u>60</u>    | <u>60</u>    | <u>800<sup>00</sup></u> |               |
|                                  |             | <u>45</u>    | <u>45</u>    | <u>50</u>               |               |
|                                  |             | <u>120</u>   | <u>120</u>   | <u>    </u>             |               |
|                                  |             | <u>4</u>     | <u>4</u>     | <u>    </u>             |               |

Final Flow 45 Safety Joint ✓  
Final Shut-in 120 Straddle       
4 Circ. Sub       
7 Sampler     

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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     

Our Representative     

Extra Packer       
Elec. Rec. ✓ 150<sup>00</sup>  
Mileage ✓ 60<sup>00</sup>  
Other       
TOTAL PRICE \$ ✓ 1260<sup>00</sup>





## DRILL STEM TEST REPORT

Prepared For: **CMX**

150 N. Main Ste. 1026  
Wichita KS 67202

ATTN: Doug McGinness Jr.

**9-35s-13w Barber KS**

**Albert #1**

Start Date: 2001.04.05 @ 18:58:00

End Date: 2001.04.06 @ 00:00:00

Job Ticket #: 14010                      DST #: 5

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



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

## DRILL STEM TEST REPORT

CMX

150 N. Main Ste. 1026  
Wichita KS 67202

ATTN: Doug McGinness Jr.

Albert #1

9-35s-13w Barber KS

Job Ticket: 14010

DST#: 5

Test Start: 2001.04.05 @ 18:58:00

### GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:06:40

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 13

Interval: 5085.00 ft (KB) To 5135.00 ft (KB) (TVD)

Total Depth: 5135.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1592.00 ft (KB)

1584.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 2342 Inside

Press@RunDepth: 895.75 psig @ 5086.00 ft (KB)

Start Date: 2001.04.05

End Date: 2001.04.06

Start Time: 18:58:41

End Time: 05:31:40

Capacity: 7000.00 psig

Last Calib.: 2001.01.04

Time On Btm: 2001.04.05 @ 21:06:10

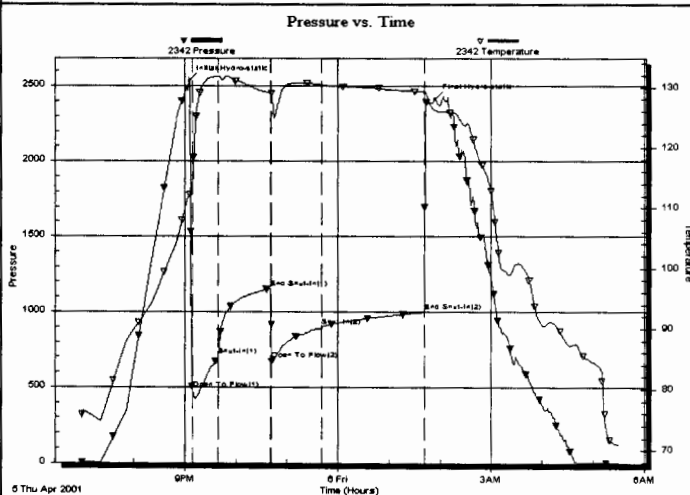
Time Off Btm: 2001.04.06 @ 01:54:40

TEST COMMENT: IF: Strong blow . GTS in 8 mins. (see gas volume report)

IS: Strong blow ..

FF: Strong blow . (see gas volume report)

FS: Fair blow .



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 128         | 2538.64         | 112.43       | Initial Hydro-static |
| 130         | 483.33          | 113.42       | Open To Flow (1)     |
| 161         | 699.11          | 131.87       | Shut-In(1)           |
| 223         | 1154.42         | 129.07       | End Shut-In(1)       |
| 224         | 678.63          | 128.97       | Open To Flow (2)     |
| 283         | 895.75          | 130.47       | Shut-In(2)           |
| 403         | 997.89          | 129.30       | End Shut-In(2)       |
| 416         | 2418.37         | 126.11       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 0.00        | Gas in all fluid free pipe | 0.00         |
| 1520.00     | Gassy Salt Water 5%g 95%w  | 21.32        |
| 360.00      | Muddy water 5%g 60%w 35%sm | 5.05         |
|             | Rw .095 ohms @ 52 deg.F.   |              |
|             |                            |              |
|             |                            |              |

### Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25           | 4.00            | 29.62            |
| Last Gas Rate  | 0.25           | 41.00           | 89.19            |
| Max. Gas Rate  | 0.25           | 47.00           | 98.85            |



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

9-35s-13w Barber KS

Job Ticket: 14010

DST#: 5

ATTN: Doug McGinness Jr.

Test Start: 2001.04.05 @ 18:58:00

### Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 5088.00 ft | Diameter: 3.80 inches | Volume: 71.37 bbl | Tool Weight: 2100.00 lb            |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer: 20000.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight to Pull Loose: 80000.00 lb  |
| Drill Pipe Above KB:      | 30.00 ft           |                       |                   | Tool Chased 4.00 ft                |
| Depth to Top Packer:      | 5080.00 ft         |                       |                   | String Weight: Initial 57000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   | Final 68000.00 lb                  |
| Interval between Packers: | ft                 |                       |                   |                                    |
| Tool Length:              | 77.00 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

### Tool Comments

| Tool Description   | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|--------------------|-------------|------------|----------|------------|-------------------------------|
| C.O. Sub           | 1.00        |            |          | 5059.00    |                               |
| S.I. Tool          | 5.00        |            |          | 5064.00    |                               |
| HMV                | 5.00        |            |          | 5069.00    |                               |
| Jars               | 5.00        |            |          | 5074.00    |                               |
| Safety Joint       | 2.00        |            |          | 5076.00    |                               |
| Packer             | 4.00        |            |          | 5080.00    | 22.00 Bottom Of Top Packer    |
| Packer             | 5.00        |            |          | 5085.00    |                               |
| Stubb              | 1.00        |            |          | 5086.00    |                               |
| Recorder           | 0.00        | 2342       | Inside   | 5086.00    |                               |
| Perforations       | 5.00        |            |          | 5091.00    |                               |
| C.O. Sub           | 1.00        |            |          | 5092.00    |                               |
| Blank Spacing      | 32.00       |            |          | 5124.00    |                               |
| C.O. Sub           | 1.00        |            |          | 5125.00    |                               |
| Perforations       | 5.00        |            |          | 5130.00    |                               |
| Recorder           | 0.00        | 10248      | Outside  | 5130.00    |                               |
| Bullnose           | 5.00        |            |          | 5135.00    | 55.00 Bottom Packers & Anchor |
| Total Tool Length: |             | 77.00      |          |            |                               |



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

9-35s-13w Barber KS

Job Ticket: 14010

DST#: 5

ATTN: Doug McGinness Jr.

Test Start: 2001.04.05 @ 18:58:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 17.54

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: -999999 deg API

Water Salinity: 122000 ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description                | Volume<br>bbl |
|--------------|----------------------------|---------------|
| 0.00         | Gas in all fluid free pipe | 0.000         |
| 1520.00      | Gassy Salt Water 5%g 95%w  | 21.322        |
| 360.00       | Muddy water 5%g 60%w 35%m  | 5.050         |
|              | Rw .095 ohms @ 52 deg.F.   |               |

Total Length: 1880.00 ft

Total Volume: 26.370 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: 2342

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



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

## DRILL STEM TEST REPORT

**GAS RATES**

CMX

Albert #1

150 N. Main Ste. 1026  
Wichita KS 67202

**9-35s-13w Barber KS**

Job Ticket: 14010

**DST#: 5**

ATTN: Doug McGinness Jr.

Test Start: 2001.04.05 @ 18:58:00

### Gas Rates Information

Temperature: 44 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

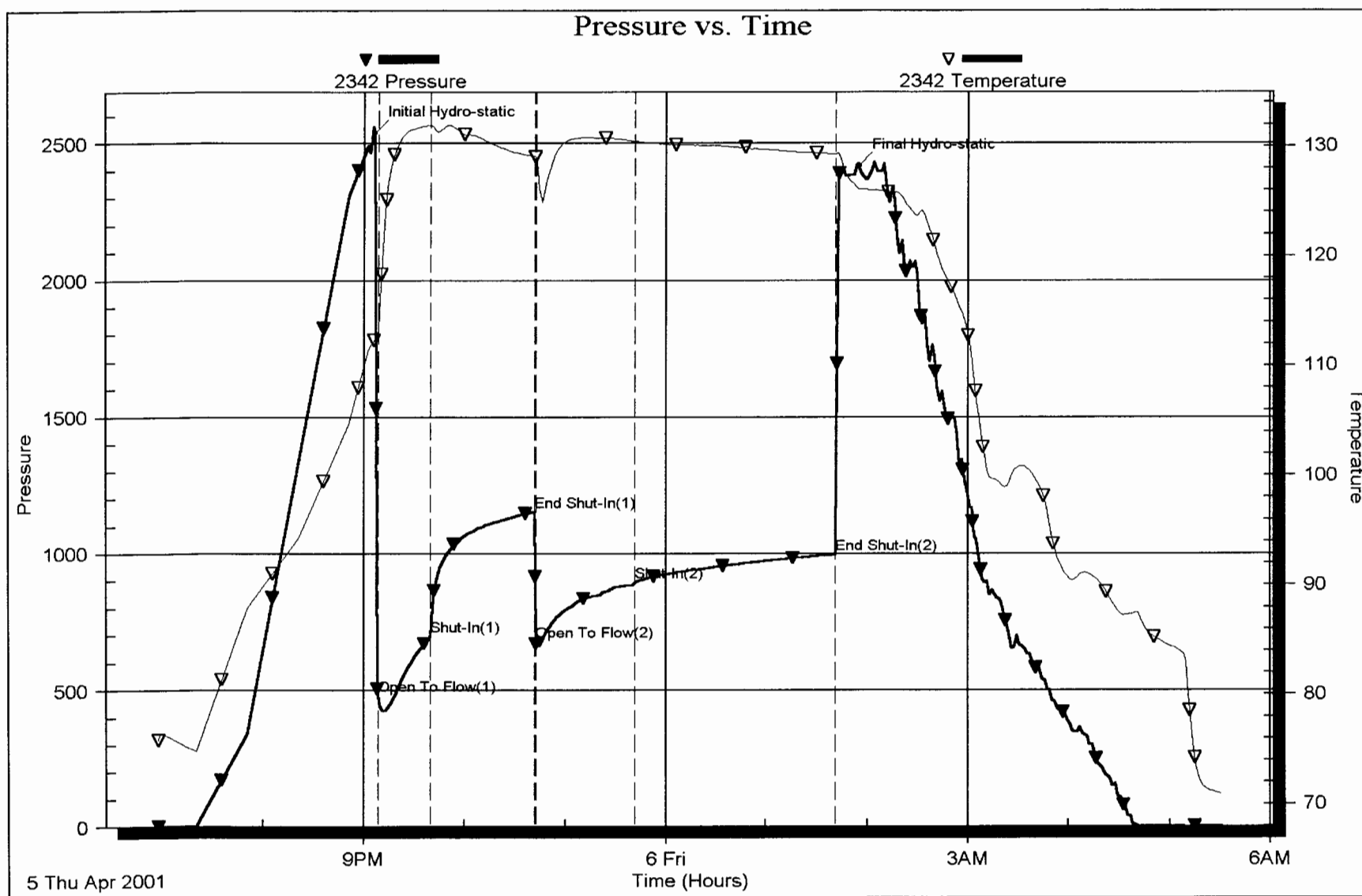
Gas Rates Table

| Flow Period | Elapsed Time | Choke<br>(inches) | Pressure<br>(kPaa) | Gas Rate<br>(Mcf/d) |
|-------------|--------------|-------------------|--------------------|---------------------|
| 1           | 10           | 0.25              | 4.00               | 29.62               |
| 1           | 20           | 0.25              | 12.00              | 42.50               |
| 1           | 30           | 0.25              | 13.00              | 44.11               |
| 2           | 40           | 0.25              | 27.00              | 66.65               |
| 2           | 50           | 0.25              | 47.00              | 98.85               |
| 2           | 60           | 0.25              | 41.00              | 89.19               |

Serial #: 2342

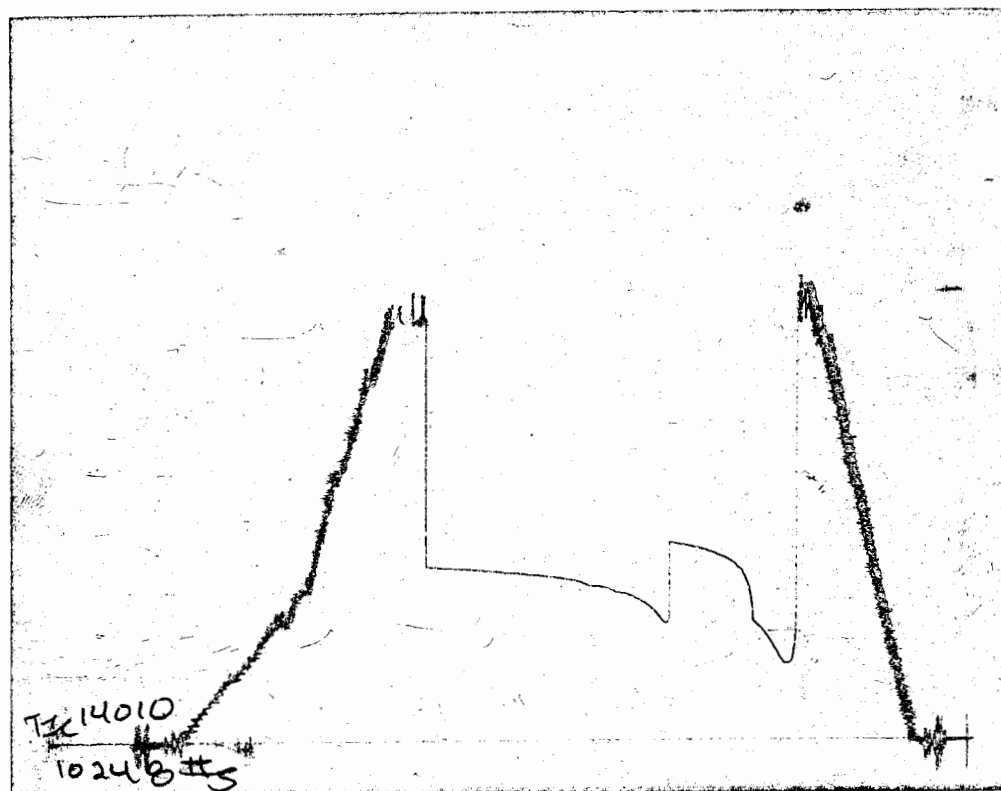
Inside CMX

9-35s-13w Barber KS



## CHART PAGE

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





## GAS VOLUME REPORT

cmx

Albert

**OPERATOR**

WELL NAME AND NO.

**DST NO**

Initial Open

Final Open

Remarks:



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 14010

## Test Ticket

|                 |                          |                           |                     |                   |                 |
|-----------------|--------------------------|---------------------------|---------------------|-------------------|-----------------|
| Well Name & No. | <u>Albert #1</u>         | Test No.                  | <u>5</u>            | Date              | <u>4-5-2001</u> |
| Company         | <u>CMX</u>               | Zone Tested               | <u>Miss.</u>        |                   |                 |
| Address         | <u>Wichita Ks. 67202</u> | Elevation                 | <u>1592</u>         | KB                | <u>1584GL</u>   |
| Co. Rep / Geo.  | <u>Doug McGinnest</u>    | Cont.                     | <u>Duke Dely #8</u> | Est. Ft. of Pay   | <u>Por. %</u>   |
| Location: Sec.  | <u>9</u>                 | Twp.                      | <u>35S</u>          | Rge.              | <u>13W</u>      |
|                 |                          |                           |                     | Co.               | <u>Barber</u>   |
|                 |                          |                           |                     | State             | <u>Ks.</u>      |
| No. of Copies   | <u>7</u>                 | Distribution Sheet (Y, N) | <u>N</u>            | Turnkey (Y, N)    | <u></u>         |
|                 |                          |                           |                     | Evaluation (Y, N) | <u></u>         |

Interval Tested 5085 - 5135' Initial Str Wt./Lbs. 57,000 Unseated Str Wt./Lbs. 48,000  
Anchor Length 50' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 80,000  
Top Packer Depth 5080' Tool Weight 2100 #  
Bottom Packer Depth 5085' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
Total Depth 5135' Wt. Pipe Run None Drill Collar Run None  
Mud Wt. 9.2 LCM 2# Vis. 48 WL 17.6cc. Drill Pipe Size 4 1/2" x 14' Ft. Run 5088'  
Blow Description IF: Strong blow. GTS in 8 min. (see gas volume report)  
ISI: Strong blow.  
FF: Strong blow. (see gas volume report) FSI: Fair blow.

Recovery — Total Feet 1880 GIP yes Ft. in DC ~ Ft. in DP 1880  
Rec. 360 Feet Of MW 5 %gas %oil 60 %water 35 %mud  
Rec. 1520 Feet Of Gassy salt water 5 %gas %oil 95 %water %mud  
Rec. Feet Of %gas %oil %water %mud  
Rec. Feet Of %gas %oil %water %mud  
Rec. Feet Of %gas %oil %water %mud  
BHT 129 °F Gravity N/A °API D@ ~ °F Corrected Gravity N/A °API  
RW .095 @ 52 °F Chlorides 122,000 ppm Recovery Chlorides 7,000 ppm System

|                                  |             |     |                           |                |                                  |
|----------------------------------|-------------|-----|---------------------------|----------------|----------------------------------|
| AK-1                             | Alpine      |     |                           |                |                                  |
| (A) Initial Hydrostatic Mud      | <u>2539</u> | PSI | Recorder No. <u>2342</u>  | T-On Location  | <u>1630</u>                      |
| (B) First Initial Flow Pressure  | <u>483</u>  | PSI | (depth) <u>5086'</u>      | T-Started      | <u>1730</u> <u>1858</u>          |
| (C) First Final Flow Pressure    | <u>699</u>  | PSI | Recorder No. <u>16248</u> | T-Open         | <u>2106</u>                      |
| (D) Initial Shut-In Pressure     | <u>1154</u> | PSI | (depth) <u>5130'</u>      | T-Pulled       | <u>6145</u> <u>13'01</u>         |
| (E) Second Initial Flow Pressure | <u>679</u>  | PSI | Recorder No. <u>~</u>     | T-Out          | <u>0531</u>                      |
| (F) Second Final Flow Pressure   | <u>896</u>  | PSI | (depth) <u>~</u>          | T-Off Location | <u>6620</u>                      |
| (G) Final Shut-in Pressure       | <u>998</u>  | PSI | Initial Opening <u>30</u> | Test           | <u>✓</u> <u>900<sup>00</sup></u> |
| (Q) Final Hydrostatic Mud        | <u>2410</u> | PSI | Initial Shut-in <u>60</u> | Jars           | <u>✓</u> <u>200<sup>00</sup></u> |
|                                  |             |     | Final Flow <u>60</u>      | Safety Joint   | <u>✓</u> <u>50<sup>00</sup></u>  |
|                                  |             |     | Final Shut-in <u>120</u>  | Straddle       | <u>~</u>                         |
|                                  |             |     | <u>4</u>                  | Circ. Sub      | <u>~</u>                         |
|                                  |             |     |                           | Sampler        | <u>~</u>                         |

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Approved By

Our Representative

Extra Packer ~  
Elec. Rec. ✓ 150<sup>00</sup>  
Mileage ✓ 60<sup>00</sup>  
Other STAND BY ✓ 90<sup>00</sup>  
TOTAL PRICE \$ ✓ 1450<sup>00</sup>