

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name MORRELL #1 Test No. 1 Date 10/6/92  
Company CLYDE BECKER Zone MORROW  
Address 212 1st NAT'L BANK BLDG PONCA CITY OK 74601 Elevation 3313  
Co. Rep./Geo. CLYDE BECKER Cont. CHEYENNE DRLG #3 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 27 Twp. 31S Rge. 40W Co. MORTON State KS

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Interval Tested <u>5630-5639</u>  | Drill Pipe Size <u>4.5 FH</u>           |
| Anchor Length <u>9</u>            | Wt. Pipe I.D. - 2.7 Ft. Run _____       |
| Top Packer Depth <u>5625-5630</u> | Drill Collar - 2.25 Ft. Run <u>432</u>  |
| Bottom Packer Depth <u>5639</u>   | Mud Wt. <u>9.1</u> lb/Gal.              |
| Total Depth <u>5990</u>           | Viscosity <u>42</u> Filtrate <u>9.2</u> |

Tool Open @ 3:34 AM Initial Blow GOOD BLOW OFF BOTTOM IN 6 MIN 30 SEC TO 4" IN 20 MIN  
.9 TO 0" OF WTR IN 8 MIN ON 1/4" ORIFICE ON INITIAL BLOW  
Final Blow 17 MINUTES OFF BOTTOM

Recovery - Total Feet 60 Flush Tool? NO

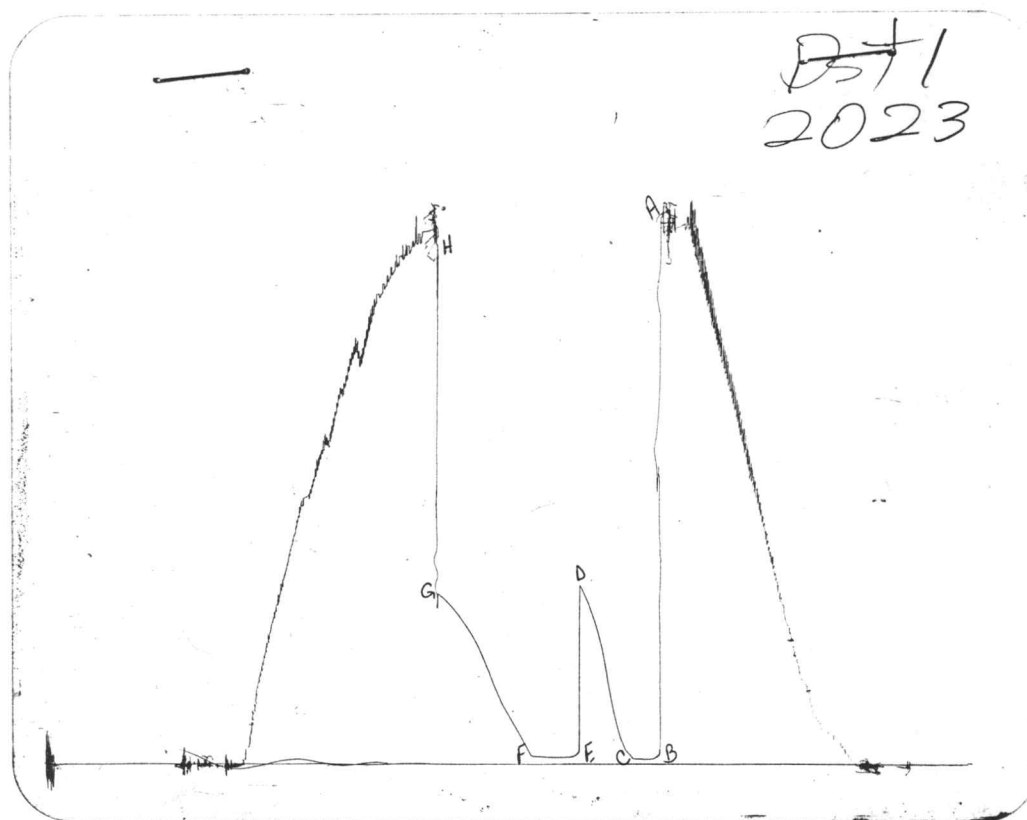
|                 |                                               |
|-----------------|-----------------------------------------------|
| Rec. <u>494</u> | Feet of <u>GAS IN PIPE</u>                    |
| Rec. <u>60</u>  | Feet of <u>SLTLY OIL CUT MUD-2%OIL/98%MUD</u> |
| Rec. _____      | Feet of _____                                 |
| Rec. _____      | Feet of _____                                 |
| Rec. _____      | Feet of _____                                 |

BHT 127 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1000 ppm System

|                                                  |                                                   |
|--------------------------------------------------|---------------------------------------------------|
| (A) Initial Hydrostatic Mud <u>2781.2</u> PSI    | AK1 Recorder No. <u>2023</u> Range <u>4000</u>    |
| (B) First Initial Flow Pressure <u>25.6</u> PSI  | @ (depth) <u>5616</u> w / Clock No. <u>19960</u>  |
| (C) First Final Flow Pressure <u>34.7</u> PSI    | AK1 Recorder No. <u>13308</u> Range <u>4700</u>   |
| (D) Initial Shut-in Pressure <u>927.6</u> PSI    | @ (depth) <u>5632</u> w / Clock No. <u>7452</u>   |
| (E) Second Initial Flow Pressure <u>34.7</u> PSI | AK1 Recorder No. <u>11057</u> Range <u>4500</u>   |
| (F) Second Final Flow Pressure <u>43.9</u> PSI   | @ (depth) <u>5650</u> w / Clock No. <u>20272</u>  |
| (G) Final Shut-in Pressure <u>871.2</u> PSI      | Initial Opening <u>20</u> Final Flow <u>35</u>    |
| (H) Final Hydrostatic Mud <u>2753.9</u> PSI      | Initial Shut-in <u>40</u> Final Shut-in <u>70</u> |

Our Representative MARK HERSKOWITZ

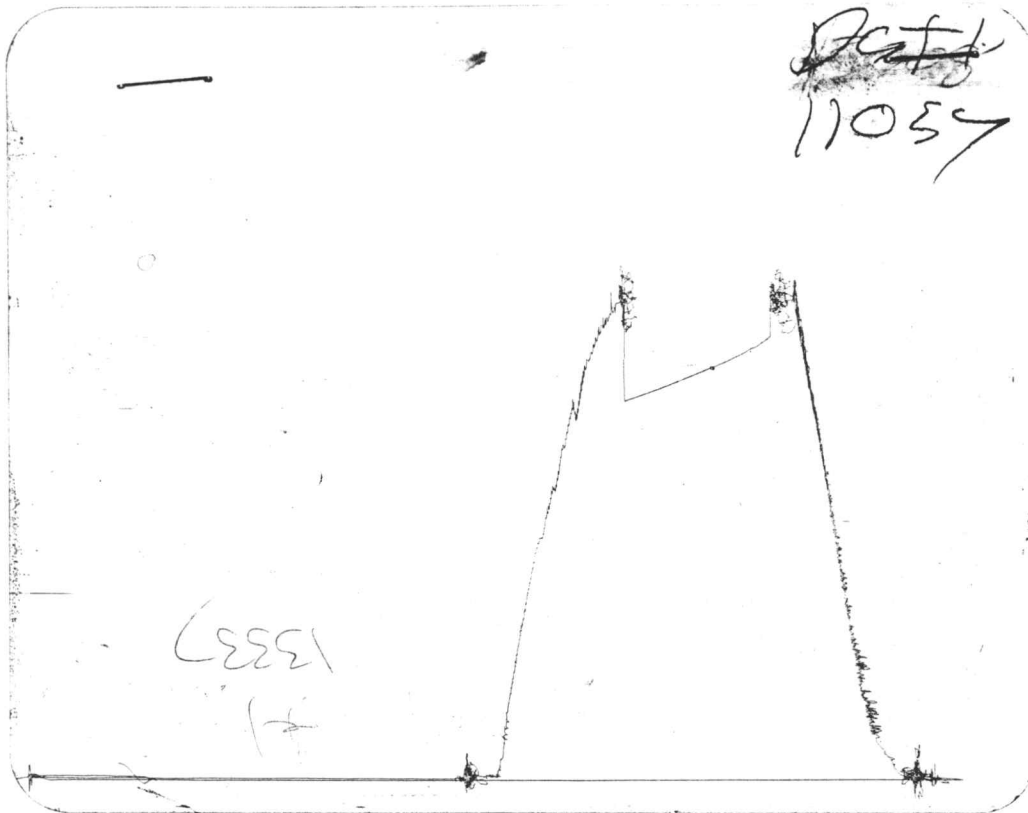
# CHART PAGE



This is an actual photograph of recorder chart

|                                  | FIELD<br>READING | OFFICE<br>READING |
|----------------------------------|------------------|-------------------|
| (A) INITIAL HYDROSTATIC MUD      | 2774             | 2781.2            |
| (B) FIRST INITIAL FLOW PRESSURE  | 22               | 25.6              |
| (C) FIRST FINAL FLOW PRESSURE    | 33               | 34.7              |
| (D) INITIAL CLOSED-IN PRESSURE   | 925              | 927.6             |
| (E) SECOND INITIAL FLOW PRESSURE | 33               | 34.7              |
| (F) SECOND FINAL FLOW PRESSURE   | 44               | 43.9              |
| (G) FINAL CLOSED-IN PRESSURE     | 877              | 871.2             |
| (H) FINAL HYDROSTATIC MUD        | 2754             | 2753.9            |

CHART PAGE



This is an actual photograph of recorder chart

FIELD  
READING

OFFICE  
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 5240

|                                                                                            |                               |                                               |
|--------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------|
| Well Name & No. <u>MORRELL 1H</u>                                                          | Test No. <u>1</u>             | Date <u>10-6-92</u>                           |
| Company <u>CLYDE M BECKER</u>                                                              | Zone Tested <u>MORROW</u>     |                                               |
| Address <u>212 First National Bldg Ponca City KC</u>                                       | Elevation <u>3318 AB</u>      |                                               |
| Co. Rep./Geo. <u>CLYDE BECKER</u>                                                          | Cont. <u>CHEYENNE DIST</u>    | Est. Ft. of Pay                               |
| Location: Sec. <u>27</u> Twp. <u>31S</u> Rge. <u>40W</u> Co. <u>MORTON</u> State <u>KS</u> |                               |                                               |
| No. of Copies <u>8</u>                                                                     | Distribution Sheet <u>Yes</u> | No Turnkey <u>Yes</u> No <u>No</u> Evaluation |

|                                                                     |                                         |
|---------------------------------------------------------------------|-----------------------------------------|
| Interval Tested <u>5630 - 5639</u>                                  | Drill Pipe Size <u>4 1/2 FH</u>         |
| Anchor Length <u>9</u>                                              | Top Choke — 1" Bottom Choke — 3/4"      |
| Top Packer Depth <u>5625 - 5630</u>                                 | Hole Size — 7 7/8" Rubber Size — 6 3/4" |
| Bottom Packer Depth <u>5634</u>                                     | Wt. Pipe I.D. — 2.7 Ft. Run             |
| Total Depth <u>5990</u>                                             | Drill Collar — 2.25 Ft. Run <u>432</u>  |
| Mud Wt. <u>29.1</u> lb/gal. <u>2H</u>                               | Viscosity <u>42</u> Filtrate <u>9.2</u> |
| Tool Open @ <u>3:34</u> Initial Blow <u>Good Blow OFF BOTTOM IN</u> |                                         |
| <u>6 MIN 30 SEC TO 4" IN 20 MIN 9 TO 0 IN. OF WATER</u>             |                                         |
| Final Blow <u>17 MIN OFF BOTTOM</u>                                 | <u>IN 8 MIN ON 1/4 BRIFIC</u>           |

|                                          |                                                                 |                        |
|------------------------------------------|-----------------------------------------------------------------|------------------------|
| Recovery — Total Feet <u>60</u>          | Feet of Gas in Pipe <u>494</u>                                  | Flush Tool? <u>Yes</u> |
| Rec. <u>60</u> Feet Of <u>1500 MUD</u>   | %gas <u>2</u> %oil <u>98</u> %water <u>98</u> %mud              |                        |
| Rec. <u>      </u> Feet Of <u>      </u> | %gas <u>      </u> %oil <u>      </u> %water <u>      </u> %mud |                        |
| Rec. <u>      </u> Feet Of <u>      </u> | %gas <u>      </u> %oil <u>      </u> %water <u>      </u> %mud |                        |
| Rec. <u>      </u> Feet Of <u>      </u> | %gas <u>      </u> %oil <u>      </u> %water <u>      </u> %mud |                        |
| Rec. <u>      </u> Feet Of <u>      </u> | %gas <u>      </u> %oil <u>      </u> %water <u>      </u> %mud |                        |

BHT 127 °F Gravity        °API @        °F Corrected Gravity        °API

RW        @        °F Chlorides        ppm Recovery Chlorides 1000 ppm System

|                                            |                                                        |
|--------------------------------------------|--------------------------------------------------------|
| (A) Initial Hydrostatic Mud <u>2774</u>    | PSI AK1 Recorder No. <u>2023</u> Range <u>19960</u>    |
| (B) First Initial Flow Pressure <u>22</u>  | PSI @ (depth) <u>5616</u> w/Clock No. <u>19960</u>     |
| (C) First Final Flow Pressure <u>33</u>    | PSI AK1 Recorder No. <u>13308</u> Range <u>4700</u>    |
| (D) Initial Shut-In Pressure <u>925</u>    | PSI @ (depth) <u>5632</u> w/Clock No. <u>7452</u>      |
| (E) Second Initial Flow Pressure <u>33</u> | PSI AK1 Recorder No. <u>11057</u> Range <u>4500</u>    |
| (F) Second Final Flow Pressure <u>44</u>   | PSI @ (depth) <u>5650</u> w/Clock No. <u>2027218</u>   |
| (G) Final Shut-In Pressure <u>877</u>      | PSI Initial Opening <u>20</u> Test <u>✓</u> <u>650</u> |
| (H) Final Hydrostatic Mud <u>2754</u>      | PSI Initial Shut-In <u>40</u> Jars <u>✓</u> <u>200</u> |

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Approved By Clyde Becker

Our Representative Mark Hershey

Printcraft Printers - Hays, KS

Final Flow 35 Safety Joint ✓ 50

Final Shut-In 70 Straddle ✓ 250

Circ. Sub ✓ NC

Sampler       

Extra Packer ✓ 150

Other       

TOTAL PRICE \$ 1300.00

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name MORRELL #1 Test No. 2 Date 10/6/92  
Company CLYDE BECKER Zone MORROW  
Address 212 1st NAT'L BANK BLDG PONCA CITY OK 74601 Elevation 3313  
Co. Rep./Geo. CLYDE BECKER Cont. CHEYENNE DRLG #3 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 27 Twp. 31S Rge. 40W Co. MORTON State KS

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Interval Tested <u>5540-5563</u>  | Drill Pipe Size <u>4.5 FH</u>           |
| Anchor Length <u>23</u>           | Wt. Pipe I.D. - 2.7 Ft. Run _____       |
| Top Packer Depth <u>5535-5540</u> | Drill Collar - 2.25 Ft. Run <u>345</u>  |
| Bottom Packer Depth <u>5563</u>   | Mud Wt. <u>9.1</u> lb/Gal.              |
| Total Depth <u>5990</u>           | Viscosity <u>42</u> Filtrate <u>9.2</u> |

Tool Open @ 12:49 PM Initial Blow SURFACE BLOW TO 7" IN 25 MINUTES

Final Blow SURFACE TO 6" IN 35 MINUTES

Recovery - Total Feet 60 Flush Tool? NO

|                 |                            |
|-----------------|----------------------------|
| Rec. <u>180</u> | Feet of <u>GAS IN PIPE</u> |
| Rec. <u>60</u>  | Feet of <u>MUD</u>         |
| Rec. _____      | Feet of _____              |
| Rec. _____      | Feet of _____              |
| Rec. _____      | Feet of _____              |

BHT 127 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud 2722.4 PSI AK1 Recorder No. 2023 Range 4000

(B) First Initial Flow Pressure 50.6 PSI @ (depth) 5543 w / Clock No. 19960

(C) First Final Flow Pressure 50.6 PSI AK1 Recorder No. 13308 Range 4700

(D) Initial Shut-in Pressure 1344.2 PSI @ (depth) 5550 w / Clock No. 7452

(E) Second Initial Flow Pressure 62.3 PSI AK1 Recorder No. 11057 Range 4500

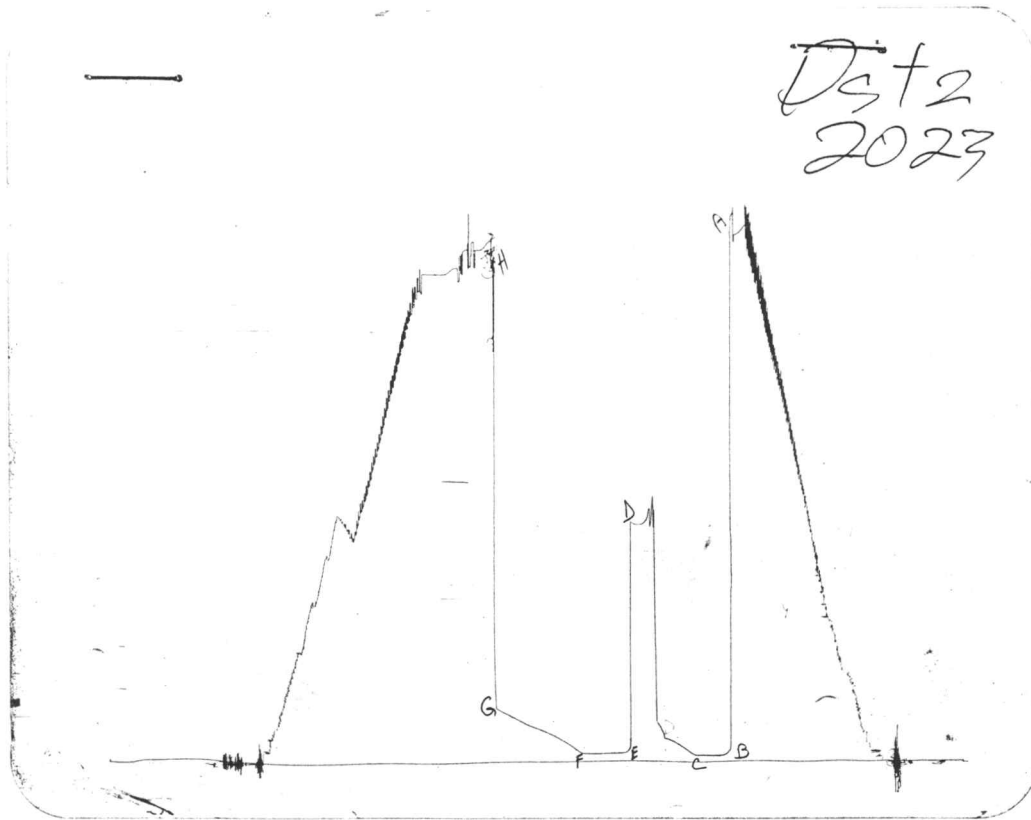
(F) Second Final Flow Pressure 70.8 PSI @ (depth) 5573 w / Clock No. 20272

(G) Final Shut-in Pressure 291.6 PSI Initial Opening 25 Final Flow 35

(H) Final Hydrostatic Mud 2699.7 PSI Initial Shut-in 50 Final Shut-in 70

Our Representative MARK HERSKOWITZ

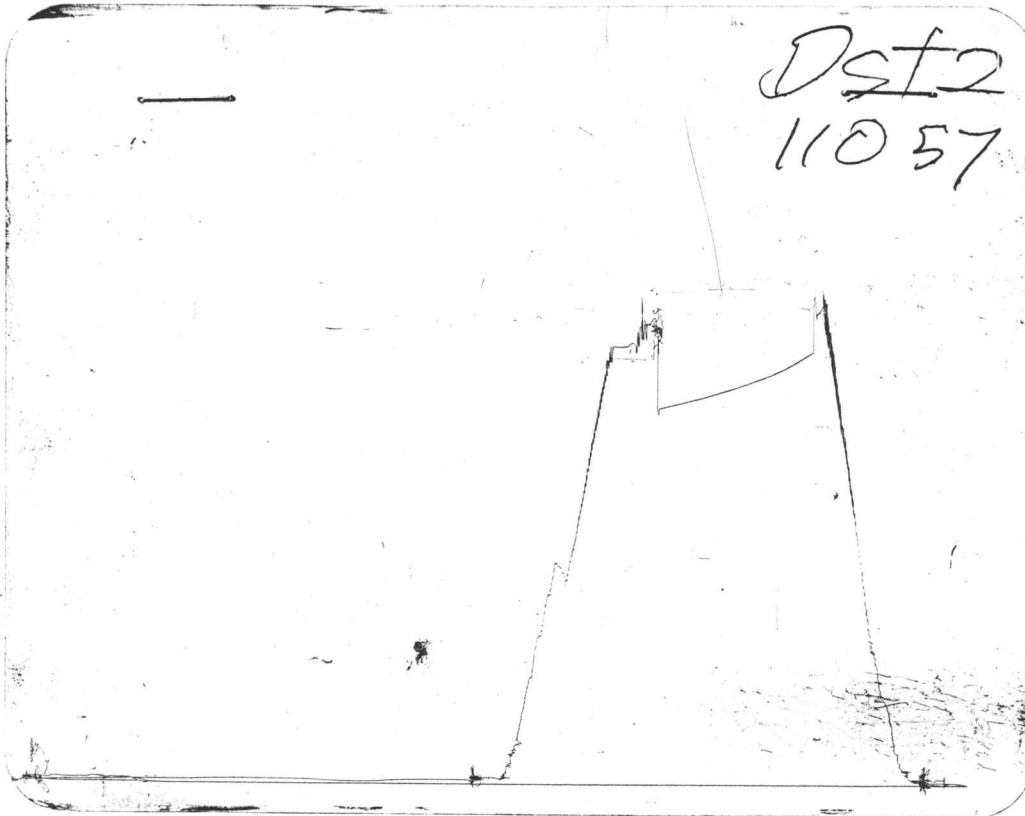
# CHART PAGE



This is an actual photograph of recorder chart

|                                  | FIELD<br>READING | OFFICE<br>READING |
|----------------------------------|------------------|-------------------|
| (A) INITIAL HYDROSTATIC MUD      | 2720             | 2722.4            |
| (B) FIRST INITIAL FLOW PRESSURE  | 48               | 50.6              |
| (C) FIRST FINAL FLOW PRESSURE    | 48               | 50.6              |
| (D) INITIAL CLOSED-IN PRESSURE   | 1346             | 1344.2            |
| (E) SECOND INITIAL FLOW PRESSURE | 60               | 62.3              |
| (F) SECOND FINAL FLOW PRESSURE   | 72               | 70.8              |
| (G) FINAL CLOSED-IN PRESSURE     | 288              | 291.6             |
| (H) FINAL HYDROSTATIC MUD        | 2697             | 2699.7            |

CHART PAGE



This is an actual photograph of recorder chart

FIELD  
READING

OFFICE  
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 5241

|                                                 |                               |                            |
|-------------------------------------------------|-------------------------------|----------------------------|
| Well Name & No. <u>MORRIE 1#</u>                | Test No. <u>2</u>             | Date <u>10-6-92</u>        |
| Company <u>CLYDE M BECKER</u>                   | Zone Tested <u>MORROW</u>     |                            |
| Address <u>212 FIRST NATIONAL Bldg PONCA OK</u> | Elevation <u>3313</u>         | <u>KS</u>                  |
| Co. Rep./Geo. <u>CLYDE BECKER</u>               | Cont. <u>CHEYENNE</u>         | Est. Ft. of Pay <u>113</u> |
| Location: Sec. <u>27</u>                        | Twp. <u>31</u>                | Rge. <u>40 N</u>           |
|                                                 | Co. <u>MORTON</u>             | State <u>KS</u>            |
| No. of Copies <u>8</u>                          | Distribution Sheet <u>Yes</u> | No Turnkey <u>Yes</u>      |
|                                                 |                               | No Evaluation <u>No</u>    |

|                                     |                                              |
|-------------------------------------|----------------------------------------------|
| Interval Tested <u>5540 - 5563</u>  | Drill Pipe Size <u>4 1/2 FH</u>              |
| Anchor Length <u>23</u>             | Top Choke — 1" Bottom Choke — 3/4"           |
| Top Packer Depth <u>5535 - 5540</u> | Hole Size — 7 7/8" Rubber Size — 6 3/4"      |
| Bottom Packer Depth <u>5563</u>     | Wt. Pipe I.D. — 2.7 Ft. Run                  |
| Total Depth <u>5990</u>             | Drill Collar — 2.25 Ft. Run <u>345</u>       |
| Mud Wt. <u>9.1</u> <u>lb/gal</u>    | Viscosity <u>42</u> Filtrate <u>9.2</u>      |
| Tool Open @ <u>12:49</u>            | Initial Blow <u>SUR BLOW TO 7" IN 25 MIN</u> |

Final Blow SUR TO 6" IN 35 MIN

|                                   |                                |                       |
|-----------------------------------|--------------------------------|-----------------------|
| Recovery — Total Feet <u>60</u>   | Feet of Gas in Pipe <u>180</u> | Flush Tool? <u>NO</u> |
| Rec. <u>60</u> Feet Of <u>MUD</u> | %gas %oil %water 100% 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 127 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud 2720 PSI AK1 Recorder No. 2023 Range 4000

(B) First Initial Flow Pressure 48 PSI @ (depth) 5543 w/Clock No. 19960

(C) First Final Flow Pressure 48 PSI AK1 Recorder No. 13308 Range 4700

(D) Initial Shut-In Pressure 1346 PSI @ (depth) 5550 w/Clock No. 7452

(E) Second Initial Flow Pressure 60 PSI AK1 Recorder No. 11057 Range 4500

(F) Second Final Flow Pressure 72 PSI @ (depth) 5573 w/Clock No. 20272187

(G) Final Shut-In Pressure 288 PSI Initial Opening 25 Test 650

(H) Final Hydrostatic Mud 2497 PSI Initial Shut-In 50 Jars 200

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Final Flow 35 Safety Joint 50

Final Shut-In 70 Straddle 250

Circ. Sub NC

Sampler \_\_\_\_\_

Extra Packer 150

Other (ext copies) \_\_\_\_\_

TOTAL PRICE \$ 1300.00

Approved By Clyde Becker

Our Representative Mark Hachey