



P. O. BOX 1599      PHONE (316) 838-0601  
WICHITA, KANSAS 67201

Company Mid Continent Energy Corporation      Lease & Well No. Simpson #1  
Elevation 1501 Kelly Bushing      Formation Mississippi      Effective Pay -----      Ft.      Ticket No. 773  
Date 5/7/78      Sec. 6      Twp 32s      Range 12w      County Barber      State Kansas  
Test Approved by Gary L. Holstin      Western Representative Rod Tritt

Formation Test No. 1      Interval Tested from 4189'      ft. to 4211'      ft.      Total Depth 4211'      ft.  
Packer Depth 4184      ft.      Size 6 3/4      in.      Packer Depth 4189      ft.      Size 6 3/4      in.  
Packer Depth -----      ft.      Size -----      in.      Packer Depth -----      ft.      Size -----      in.

Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 4192      ft.      Recorder Number 2604      Cap. 4150  
Bottom Recorder Depth (Outside) 4195      ft.      Recorder Number 2606      Cap. 4150  
Below Straddle Recorder Depth -----      ft.      Recorder Number -----      Cap. -----

Drilling Contractor Search Drilling Co.      Drill Collar Length -----      I. D. -----      in.  
Mud Type drispac      Viscosity 55      Weight Pipe Length -----      I. D. -----      in.  
Weight 9.1      Water Loss 16.4      cc.      Drill Pipe Length 4169      I. D. 3.8      in.  
Chlorides 16,500      P.P.M.      Test Tool Size 5 1/2 OD      in.      Tool Joint Size 4 1/2 FH      in.  
Jars: Make No      Serial Number -----      Anchor Length 22      ft.      Size 5 1/2 OD      in.  
Did Well Flow? no      Reversed Out no      Surface Choke Size 3/4      in.      Bottom Choke Size 3/4      in.  
Main Hole Size 7 7/8      in.

Blow: Weak blow throughout initial flow period.  
Very weak blow throughout final flow period.

Recovered 40      ft. of drilling mud  
Recovered             ft. of         
Recovered             ft. of         
Recovered             ft. of         
Recovered             ft. of       

Remarks: Read outside chart #2606

Time Set Packer(s) 4:10      ~~A.M.~~ P.M.      Time Started Off Bottom 7:55      ~~A.M.~~ P.M.      Maximum Temperature 118  
Initial Hydrostatic Pressure ..... (A) 2000      P.S.I.  
Initial Flow Period ..... Minutes 30      (B) 32      P.S.I. to (C) 12      P.S.I.  
Initial Closed In Period ..... Minutes 60      (D) 23      P.S.I.  
Final Flow Period ..... Minutes 45      (E) 23      P.S.I. to (F) 12      P.S.I.  
Final Closed In Period ..... Minutes 90      (G) 18      P.S.I.  
Final Hydrostatic Pressure ..... (H) 2000      P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 5/7/78

Test Ticket No. 773

Recorder No. 2606

Capacity 4150

Location 4195

Clock No. -----

Elevation 1501 Kelly Bushing

Well Temperature 118

| Point                          | Pressure    |                            | Time Given | Time Computed |
|--------------------------------|-------------|----------------------------|------------|---------------|
| A Initial Hydrostatic Mud      | 2000 P.S.I. | Open Tool                  | 4:10P M    |               |
| B First Initial Flow Pressure  | 32 P.S.I.   | First Flow Pressure        | 30 Mins.   | 30 Mins.      |
| C First Final Flow Pressure    | 12 P.S.I.   | Initial Closed-in Pressure | 60 Mins.   | 57 Mins.      |
| D Initial Closed-in Pressure   | 23 P.S.I.   | Second Flow Pressure       | 45 Mins.   | 45 Mins.      |
| E Second Initial Flow Pressure | 23 P.S.I.   | Final Closed-in Pressure   | 90 Mins.   | 90 Mins.      |
| F Second Final Flow Pressure   | 12 P.S.I.   |                            |            |               |
| G Final Closed-in Pressure     | 18 P.S.I.   |                            |            |               |
| H Final Hydrostatic Mud        | 2000 P.S.I. |                            |            |               |

**PRESSURE BREAKDOWN**

| First Flow Pressure         |        | Initial Shut-In             |        | Second Flow Pressure        |        | Final Shut-In               |        |
|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|
| Breakdown: <u>6</u> Inc.    |        | Breakdown: <u>19</u> Inc.   |        | Breakdown: <u>9</u> Inc.    |        | Breakdown: <u>30</u> Inc.   |        |
| of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        | of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        |
| final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        |
| Point Mins.                 | Press. | Point Minutes               | Press. | Point Minutes               | Press. | Point Minutes               | Press. |
| P 1 0                       | 32     | 0                           | 12     | 0                           | 23     | 0                           | 12     |
| P 2 5                       | 24     | 3                           | 12     | 5                           | 17     | 3                           | 12     |
| P 3 10                      | 20     | 6                           | 12     | 10                          | 15     | 6                           | 12     |
| P 4 15                      | 17     | 9                           | 12     | 15                          | 15     | 9                           | 12     |
| P 5 20                      | 13     | 12                          | 12     | 20                          | 15     | 12                          | 12     |
| P 6 25                      | 12     | 15                          | 12     | 25                          | 14     | 15                          | 12     |
| P 7 30                      | 12     | 18                          | 12     | 30                          | 13     | 18                          | 12     |
| P 8                         |        | 21                          | 13     | 35                          | 13     | 21                          | 12     |
| P 9                         |        | 24                          | 15     | 40                          | 12     | 24                          | 12     |
| P 10                        |        | 27                          | 17     | 45                          | 12     | 27                          | 12     |
| P 11                        |        | 30                          | 17     |                             |        | 30                          | 12     |
| P 12                        |        | 33                          | 18     |                             |        | 33                          | 12     |
| P 13                        |        | 36                          | 19     |                             |        | 36                          | 12     |
| P 14                        |        | 39                          | 19     |                             |        | 39                          | 12     |
| P 15                        |        | 42                          | 21     |                             |        | 42                          | 12     |
| P 16                        |        | 45                          | 21     |                             |        | 45                          | 12     |
| P 17                        |        | 48                          | 22     |                             |        | 48                          | 12     |
| P 18                        |        | 51                          | 22     |                             |        | 51                          | 12     |
| P 19                        |        | 54                          | 23     |                             |        | 54                          | 12     |
| P 20                        |        | 57                          | 23     |                             |        | 57                          | 12     |

# WESTERN TESTING CO., INC.

## Pressure Data

Date 5/7/78 Test Ticket No. 773  
 Recorder No. 2606 Capacity 4150 Location 4195 Ft.  
 Clock No. ----- Elevation 1501 Kelly Bushing Well Temperature 118 °F

| Point                          | Pressure    |                            | Time Given | Time Computed |
|--------------------------------|-------------|----------------------------|------------|---------------|
| A Initial Hydrostatic Mud      | 2000 P.S.I. | Open Tool                  | 4:10P      | M             |
| B First Initial Flow Pressure  | 32 P.S.I.   | First Flow Pressure        | 30 Mins.   | 30 Mins.      |
| C First Final Flow Pressure    | 12 P.S.I.   | Initial Closed-in Pressure | 60 Mins.   | 57 Mins.      |
| D Initial Closed-in Pressure   | 23 P.S.I.   | Second Flow Pressure       | 45 Mins.   | 45 Mins.      |
| E Second Initial Flow Pressure | 23 P.S.I.   | Final Closed-in Pressure   | 90 Mins.   | 90 Mins.      |
| F Second Final Flow Pressure   | 12 P.S.I.   |                            |            |               |
| G Final Closed-in Pressure     | 18 P.S.I.   |                            |            |               |
| H Final Hydrostatic Mud        | 2000 P.S.I. |                            |            |               |

### PRESSURE BREAKDOWN

| First Flow Pressure         |        | Initial Shut-In             |        | Second Flow Pressure        |        | Final Shut-In               |        |
|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|
| Breakdown: <u>6</u> Inc.    |        | Breakdown: <u>19</u> Inc.   |        | Breakdown: <u>9</u> Inc.    |        | Breakdown: <u>30</u> Inc.   |        |
| of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        | of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        |
| final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        |
| Point Mins.                 | Press. | Point Minutes               | Press. | Point Minutes               | Press. | Point Minutes               | Press. |
| P 1                         |        |                             |        |                             |        | 63                          | 13     |
| P 2                         |        |                             |        |                             |        | 66                          | 15     |
| P 3                         |        |                             |        |                             |        | 69                          | 16     |
| P 4                         |        |                             |        |                             |        | 72                          | 16     |
| P 5                         |        |                             |        |                             |        | 75                          | 16     |
| P 6                         |        |                             |        |                             |        | 78                          | 17     |
| P 7                         |        |                             |        |                             |        | 81                          | 17     |
| P 8                         |        |                             |        |                             |        | 84                          | 18     |
| P 9                         |        |                             |        |                             |        | 87                          | 18     |
| P10                         |        |                             |        |                             |        | 90                          | 18     |
| P11                         |        |                             |        |                             |        |                             |        |
| P12                         |        |                             |        |                             |        |                             |        |
| P13                         |        |                             |        |                             |        |                             |        |
| P14                         |        |                             |        |                             |        |                             |        |
| P15                         |        |                             |        |                             |        |                             |        |
| P16                         |        |                             |        |                             |        |                             |        |
| P17                         |        |                             |        |                             |        |                             |        |
| P18                         |        |                             |        |                             |        |                             |        |
| P19                         |        |                             |        |                             |        |                             |        |
| P20                         |        |                             |        |                             |        |                             |        |

2606

TR # 773

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