Company Mid-Continent Energy Corporation — Lease & Well No. Hubin #1

Elevation 2337 Ground Level — Formation Mississippi — Effective Pay - Ft. — Ticket No. 8716

Date 11-24-80 — Sec. 10 — Twp. 23S — Range 23W — County Hodgeman — State Kansas

Test Approved by Robert Smith — Western Representative Vernon Wondra

Formation Test No. 1 — Interval Tested from 4590 ft. to 4625 ft. — Total Depth 4625 ft.

Packer Depth 4585 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Packer Depth 4590 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4615 ft. — Recorder Number 6074 — Cap. 5100

Bottom Recorder Depth (Outside) 4618 ft. — Recorder Number 10979 — Cap. 4100

Below Straddle Recorder Depth - ft. — Recorder Number - — Cap. -

Drilling Contractor Warrior Drilling Co Rig #1 — Drill Collar Length - — I. D. - in.

Mud Type Drispac — Viscosity 52 — Weight Pipe Length 316 — I. D. 2.7 in.

Weight 9.4 — Water Loss 11.6 cc. — Drill Pipe Length 3245 — I. D. 3.8 in.

Chlorides 10,000 P.P.M. — Test Tool Length 29 ft. — Tool Size 5½OD in.

Jars: Make WTC — Serial Number 402 — Anchor Length 35 ft. — Size 5½OD 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. — Tool Joint Size 4½FH in.

Blow: Good blow throughout initial flow period. Good blow decreased to fair. 3 inch blow by end of final flow period.

Recovered 2 ft. of oil cut mud

Recovered 90 ft. of watery mud

Recovered 300 ft. of water Chlorides 32,000 PPM

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:50 ~~A.M.~~ P.M. — Time Started Off Bottom 12:20 ~~A.M.~~ P.M. — Maximum Temperature 124

| | | | | |
|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) 2299 P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) 100 P.S.I. | to (C) 148 P.S.I. | |
| Initial Closed In Period | Minutes 57 | (D) 1125 P.S.I. | | |
| Final Flow Period | Minutes 60 | (E) 195 P.S.I. | to (F) 230 P.S.I. | |
| Final Closed In Period | Minutes 60 | (G) 933 P.S.I. | | |
| Final Hydrostatic Pressure | | (H) 2258 P.S.I. | | |

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

Date 11-24-80 Test Ticket No. 8716

Recorder No. 6074 Capacity 5100 Location 4615 Ft.

Clock No. - Elevation 2337 Ground Level Well Temperature 124 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2299 P.S.I. | Open Tool | 8:50A M | |
| B First Initial Flow Pressure | 100 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C First Final Flow Pressure | 148 P.S.I. | Initial Closed-in Pressure | 60 Mins. | 57 Mins. |
| D Initial Closed-in Pressure | 1125 P.S.I. | Second Flow Pressure | 60 Mins. | 60 Mins. |
| E Second Initial Flow Pressure | 195 P.S.I. | Final Closed-in Pressure | 60 Mins. | 60 Mins. |
| F Second Final Flow Pressure | 230 P.S.I. | | | |
| G Final Closed-in Pressure | 933 P.S.I. | | | |
| H Final Hydrostatic Mud | 2258 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 100 |
| P 2 5 | 102 |
| P 3 10 | 115 |
| P 4 15 | 127 |
| P 5 20 | 138 |
| P 6 25 | 144 |
| P 7 30 | 148 |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

**Initial Shut-In**
Breakdown: 19 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 148 |
| 3 | 299 |
| 6 | 437 |
| 9 | 544 |
| 12 | 634 |
| 15 | 718 |
| 18 | 783 |
| 21 | 837 |
| 24 | 882 |
| 27 | 921 |
| 30 | 957 |
| 33 | 987 |
| 36 | 1008 |
| 39 | 1029 |
| 42 | 1051 |
| 45 | 1066 |
| 48 | 1080 |
| 51 | 1096 |
| 54 | 1112 |
| 57 | 1125 |

**Second Flow Pressure**
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 195 |
| 5 | 197 |
| 10 | 198 |
| 15 | 199 |
| 20 | 203 |
| 25 | 207 |
| 30 | 210 |
| 35 | 212 |
| 40 | 215 |
| 45 | 223 |
| 50 | 226 |
| 55 | 230 |
| 60 | 230 |

**Final Shut-In**
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 230 |
| 3 | 361 |
| 6 | 448 |
| 9 | 519 |
| 12 | 579 |
| 15 | 626 |
| 18 | 665 |
| 21 | 705 |
| 24 | 737 |
| 27 | 763 |
| 30 | 792 |
| 33 | 815 |
| 36 | 834 |
| 39 | 852 |
| 42 | 867 |
| 45 | 882 |
| 48 | 895 |
| 51 | 907 |
| 54 | 918 |
| 57 | 928 |
| 60 | 933 |

IKT # 8716

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