

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company MULL DRILLING COMPANY, INC.

Lease and Well No. KINGSLEY #2

County ELLIS State KANSAS Date SEPT. 21, 1966

Formation Test No. 1 Total Depth 3485 Elev. _____

Interval Tested 3447 To 3485 Anchor Length 38'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 F H Size Packer 6 3/4

Mud Weight 9.7 Viscosity 35 Water Loss 10.4 c.c. Bottom Hole Temp. 106° F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 7973

RECOVERY

WEAK STEADY BLOW THROUGHOUT TEST

10 FEET OF GAS IN PIPE

110 FEET OF SLIGHTLY OIL CUT THIN MUD TO MUDDY WATER.

Lease and Well No. KINGSLEY #2 17 14S 20W C NW SE Formation Test No. 1

COMPANY MULL DRILLING CO., INC. DATE SEPT. 21, 1966

LEASE KINGSLEY WELL NO. 2 TEST NO. 1 TICKET NO. 7973

| | TIME | PSI |
|----------------------------|----------|-----------|
| INITIAL HYDRO MUD PRESSURE | | 1853 |
| INITIAL CLOSED IN PRESSURE | 30 MINS. | 1284 |
| INITIAL FLOW | 15 MINS. | 63 to 77 |
| FINAL FLOW | 45 MINS. | 83 to 109 |
| FINAL CLOSED IN PRESSURE | 30 MINS. | 1243 |
| FINAL HYDRO MUD PRESSURE | | 1853 |

TOTAL DEPTH 3485

PACKER DEPTH 3447

BT. NO. 905 DEPTH 3480

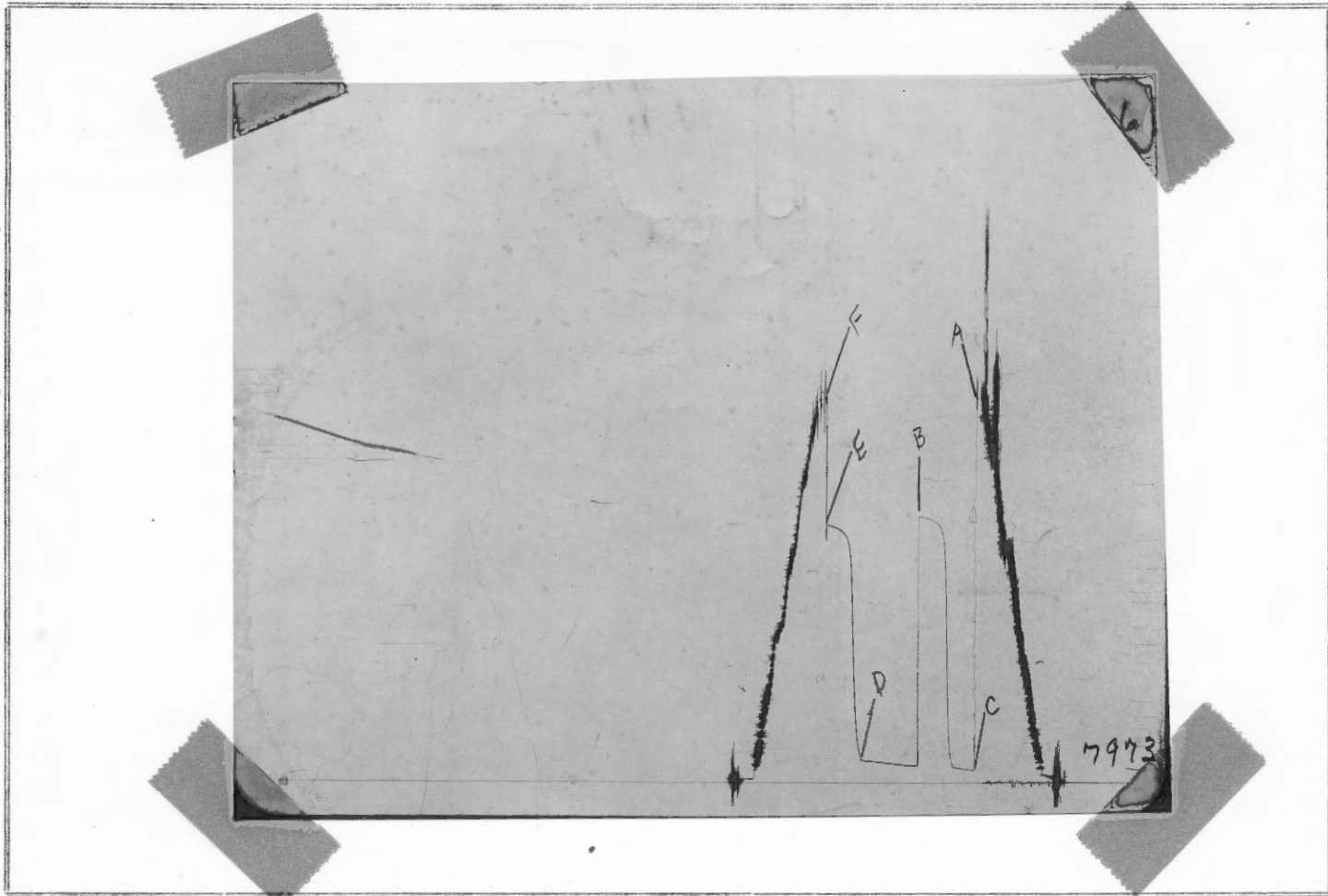
| | 1ST FLOW PRESSURE | | INITIAL CIP | | 2ND FLOW PRESSURE | | FINAL CIP | |
|-----|-------------------|-----------------|------------------|-----------------|-------------------|-----------------|------------------|-----------------|
| | TIME DEFL. .000" | PSI TEMP. CORR. | TIME DEFL. .000" | PSI TEMP. CORR. | TIME DEFL. .000" | PSI TEMP. CORR. | TIME DEFL. .000" | PSI TEMP. CORR. |
| P0 | | 63 | | 77 | | 83 | | 109 |
| P1 | | 68 | | 1020 | | 85 | | 510 |
| P2 | | 73 | | 1233 | | 87 | | 1182 |
| P3 | | 77 | | 1265 | | 90 | | 1216 |
| P4 | | | | 1275 | | 94 | | 1233 |
| P5 | | | | 1282 | | 98 | | 1239 |
| P6 | | | | 1284 | | 101 | | 1243 |
| P7 | | | | | | 105 | | |
| P8 | | | | | | 107 | | |
| P9 | | | | | | 109 | | |
| P10 | | | | | | | | |
| | 5 | MINUTE INTERVAL | 5 | MINUTE INTERVAL | 5 | MINUTE INTERVAL | 5 | MINUTE INTERVAL |

REMARKS _____

SPECIAL PRESSURE DATA

Time: Each Square _____ minutes

Pressure: Each Square _____ psi



Tool Open: 1st Flow _____ hr. 15 mins: 2nd Flow _____ hr. 45 mins: Shut-in: Initial _____ hr. 30 mins: Final _____ hr. 30 mins.

| | Field Reading | Corrected Reading |
|----------------------------------|---------------|-------------------|
| (A) Initial Hydrostatic Pressure | <u>1870</u> | <u>1853</u> |
| (B) Initial Shut-in Pressure | <u>1275</u> | <u>1284</u> |
| (C) Initial Flow Pressure | <u>56</u> | <u>63</u> |
| (D) Final Flow Pressure | <u>105</u> | <u>109</u> |
| (E) Final Shut-in Pressure | <u>1241</u> | <u>1243</u> |
| (F) Final Hydrostatic Pressure | <u>1853</u> | <u>1853</u> |

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Lease and Well No. KINGSLEY #2

County ELLIS State KANSAS Date SEPT. 21, 1966

| | | |
|-----------------------------|----------------------------------|--|
| Formation Test No. <u>2</u> | Total Depth <u>3520</u> | Elev. _____ |
| Interval Tested <u>3480</u> | To <u>3520</u> | Anchor Length <u>40'</u> |
| Size Hole <u>7 7/8</u> | Size Drill Pipe <u>4 1/2 F H</u> | Size Packer <u>6 3/4</u> |
| Mud Weight <u>9.7</u> | Viscosity <u>39</u> | Water Loss <u>9.2</u> c.c. Bottom Hole Temp. <u>105 °F</u> |
| Chokes: Top <u>1/2</u> | Bottom <u>1/2</u> | Ticket No. <u>7974</u> |

RECOVERY

GOOD BLOW THROUGHOUT TEST

240 FEET OF GAS IN PIPE

360 FEET OF MUDDY OIL

600 FEET OF CLEAN OIL

3 FEET OF MUDDY WATER

Lease and Well No. KINGSLEY #2 17 14S 20W C NE SE Formation Test No. 2

COMPANY MULL DRILLING CO., INC. DATE SEPT. 21, 1966

LEASE KINGSLEY WELL NO. 2 TEST NO. 2 TICKET NO. 7974

| | TIME | PSI |
|----------------------------|----------|------------|
| INITIAL HYDRO MUD PRESSURE | | 1904 |
| INITIAL CLOSED IN PRESSURE | 30 MINS. | 1312 |
| INITIAL FLOW | 15 MINS. | 85 to 187 |
| FINAL FLOW | 45 MINS. | 204 to 437 |
| FINAL CLOSED IN PRESSURE | 30 MINS. | 1297 |
| FINAL HYDRO MUD PRESSURE | | 1887 |

TOTAL DEPTH 3520

PACKER DEPTH 3480

BT. NO. 005 DEPTH 3515

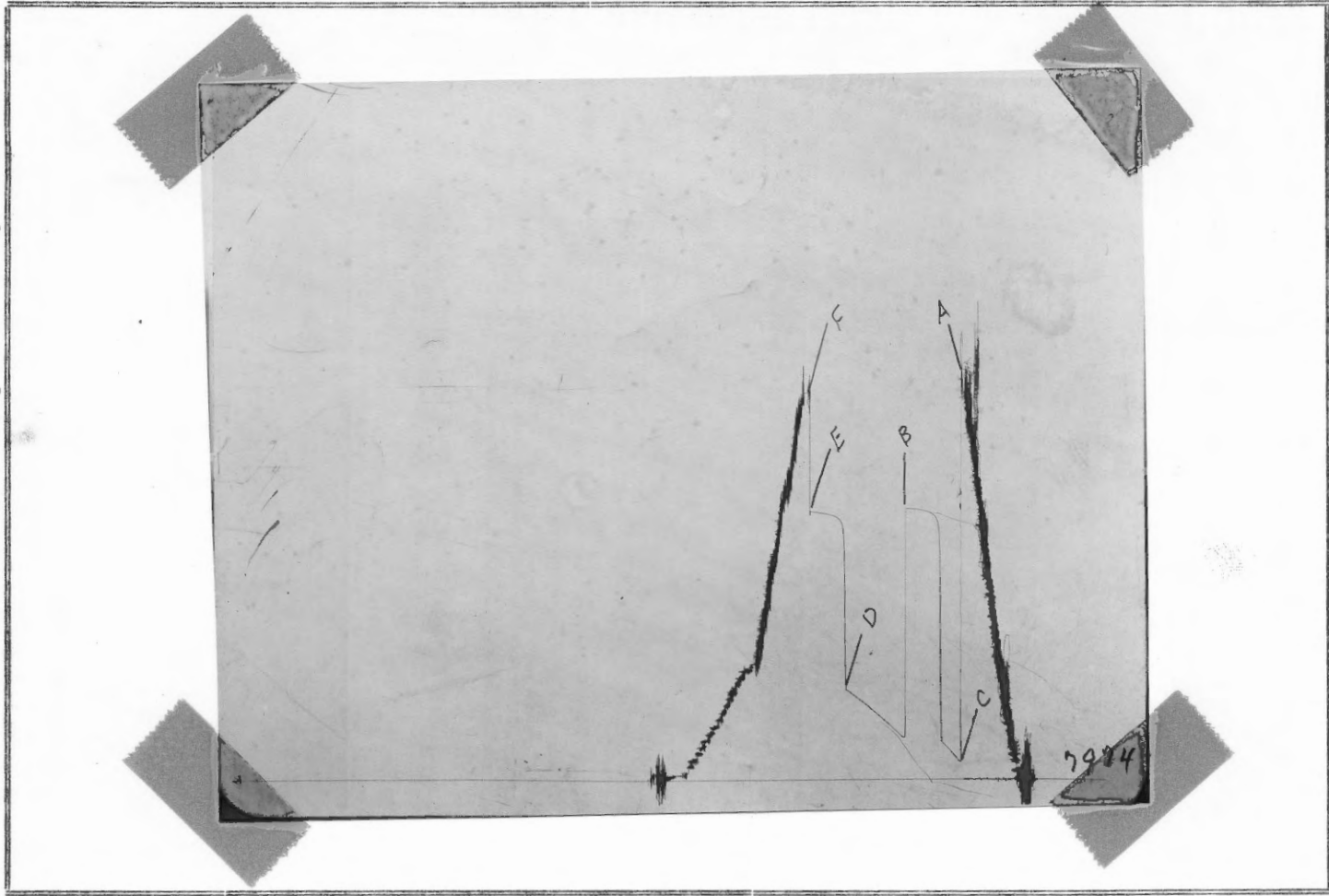
| | 1ST FLOW PRESSURE | | INITIAL CIP | | 2ND FLOW PRESSURE | | FINAL CIP | |
|-----|-------------------|-----------------|------------------|-----------------|-------------------|-----------------|------------------|-----------------|
| | TIME DEFL. .000" | PSI TEMP. CORR. | TIME DEFL. .000" | PSI TEMP. CORR. | TIME DEFL. .000" | PSI TEMP. CORR. | TIME DEFL. .000" | PSI TEMP. CORR. |
| P0 | | 85 | | 187 | | 204 | | 437 |
| P1 | | 119 | | 1284 | | 247 | | 1267 |
| P2 | | 157 | | 1297 | | 277 | | 1282 |
| P3 | | 187 | | 1304 | | 304 | | 1287 |
| P4 | | | | 1309 | | 323 | | 1292 |
| P5 | | | | 1311 | | 343 | | 1295 |
| P6 | | | | 1312 | | 374 | | 1297 |
| P7 | | | | | | 398 | | |
| P8 | | | | | | 417 | | |
| P9 | | | | | | 437 | | |
| P10 | | | | | | | | |
| | 5 | MINUTE INTERVAL | 5 | MINUTE INTERVAL | 5 | MINUTE INTERVAL | 5 | MINUTE INTERVAL |

REMARKS _____

SPECIAL PRESSURE DATA

Time: Each Square _____ minutes

Pressure: Each Square _____ psi



Tool Open: 1st Flow _____ hr. 15 mins: 2nd Flow _____ hr. 45 mins: Shut-in: Initial _____ hr. 30 mins: Final _____ hr. 30 mins.

| | Field Reading | Corrected Reading |
|----------------------------------|---------------|-------------------|
| (A) Initial Hydrostatic Pressure | <u>1887</u> | <u>1904</u> |
| (B) Initial Shut-in Pressure | <u>1309</u> | <u>1212</u> |
| (C) Initial Flow Pressure | <u>85</u> | <u>85</u> |
| (D) Final Flow Pressure | <u>442</u> | <u>437</u> |
| (E) Final Shut-in Pressure | <u>1293</u> | <u>1297</u> |
| (F) Final Hydrostatic Pressure | <u>1868</u> | <u>1887</u> |

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Lease and Well No. KINGSLEY #2

County ELLIS State KANSAS Date SEPT. 22, 1966

Formation Test No. 3 Total Depth 3543 Elev. _____

Interval Tested 3518 To 3543 Anchor Length 25'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 F H Size Packer 6 3/4

Mud Weight 9.7 Viscosity 39 Water Loss 9.2 c.c. Bottom Hole Temp. 106 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 7975

RECOVERY

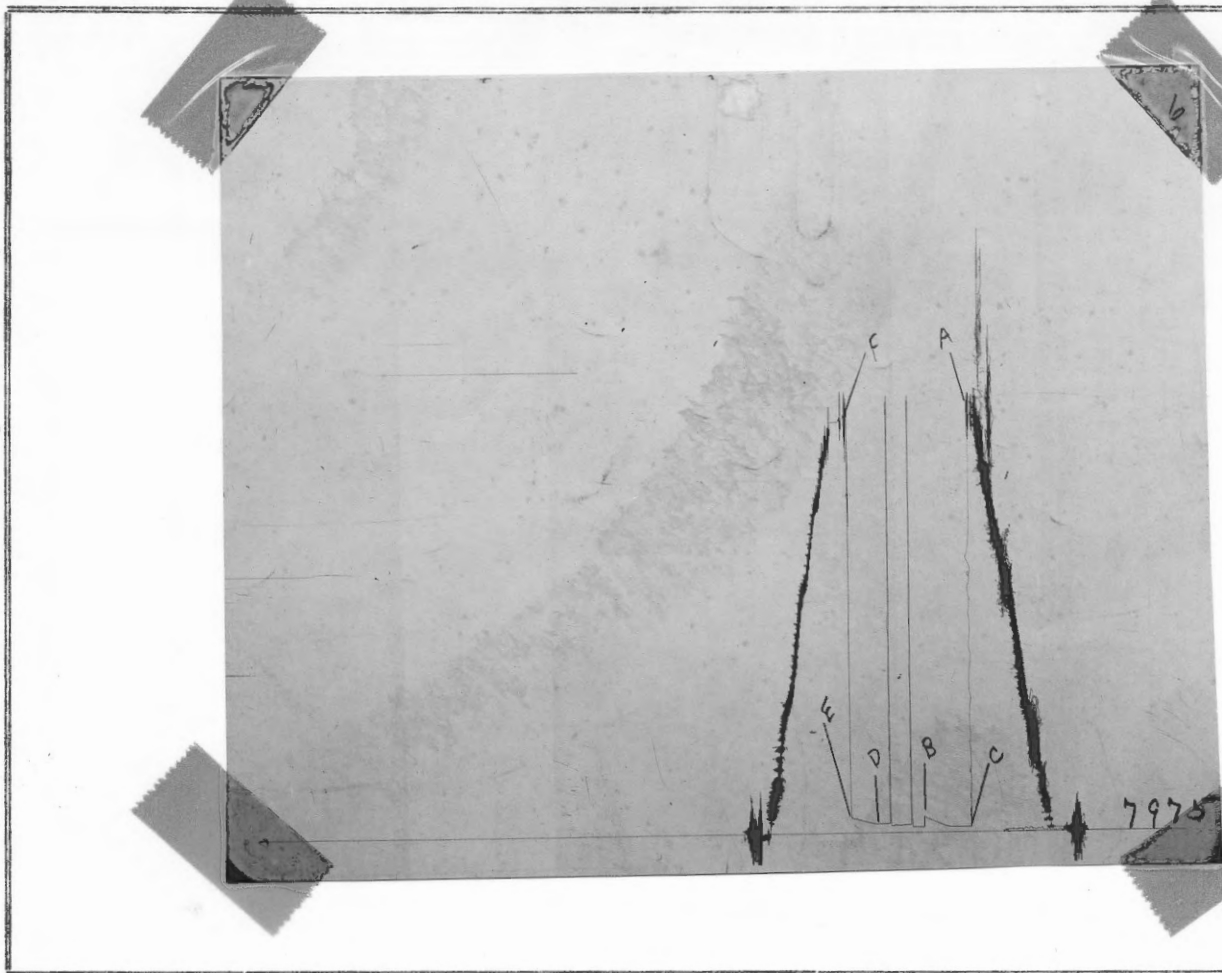
WEAK BLOW FOR 14 MINUTES. FLUSHED TOOL IN 10 & 25 MINUTES ON 2ND OPENING, WEAK BLOW FOR 6 & 4 MINUTES.

30 FEET OF DRILLING MUD WITH A FEW OIL SPECKS IN TOP OF TOOL

Lease and Well No. KINGSLEY #2 17 1/4 S 20W C NE SE Formation Test No. 3

Time: Each Square _____ minutes

Pressure: Each Square _____ psi



Tool Open: 1st Flow hr. 15 mins: 2nd Flow hr. 35 mins: Shut-in: Initial hr. 20 mins: Final hr. 20 mi

| | Field Reading | Corrected Reading |
|----------------------------------|---------------|-------------------|
| (A) Initial Hydrostatic Pressure | <u>1890</u> | <u>1845</u> |
| (B) Initial Shut-in Pressure | <u>68</u> | <u>71</u> |
| (C) Initial Flow Pressure | <u>20</u> | <u>21</u> |
| (D) Final Flow Pressure | <u>37</u> | <u>41</u> |
| (E) Final Shut-in Pressure | <u>66</u> | <u>68</u> |
| (F) Final Hydrostatic Pressure | <u>1871</u> | <u>1845</u> |

MILLER TESTING COMPANY

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GREAT BEND, KANSAS

Company MULL DRILLING COMPANY, INC.

Lease and Well No. KINGSLEY #2

County ELLIS State KANSAS Date SEPT. 23, 1966

Formation Test No. 4 Total Depth 3650 Elev. _____

Interval Tested 3629 To 3650 Anchor Length 21'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 F H Size Packer 6 3/4

Mud Weight 9.8 Viscosity 42 Water Loss 10.4 c.c. Bottom Hole Temp. 106 °F

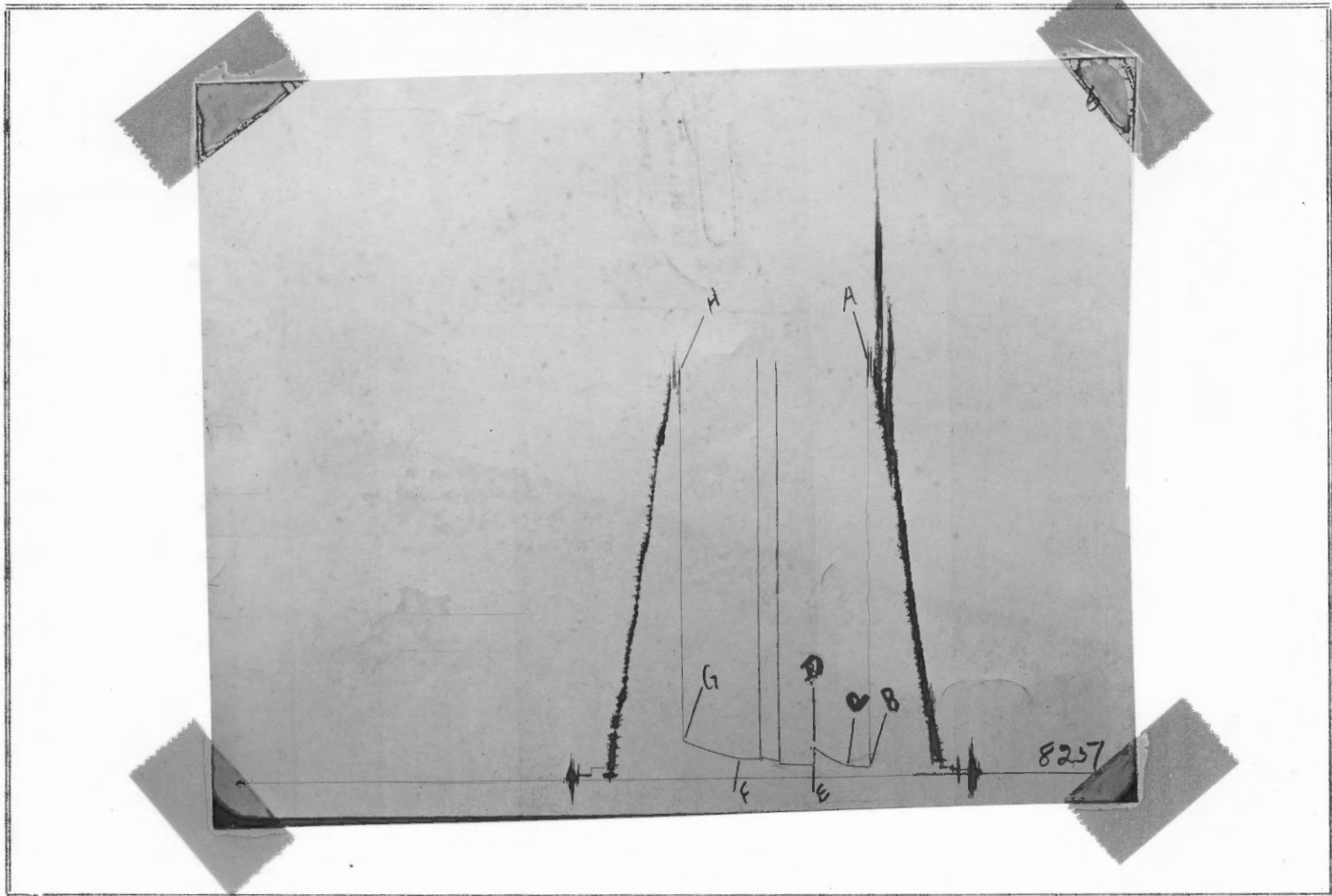
Chokes: Top 1/2 Bottom 1/2 Ticket No. 8251

RECOVERY

WEAK BLOW FOR 32 MINUTES. FLUSHED TOOL IN 30 & 45 MINUTES ON 2ND OPENING, WEAK BLOW FOR 11 & 9 MINUTES.

80 FEET OF DRILLING MUD WITH A FEW OIL SPECKS

Lease and Well No. KINGSLEY #2 17 14S 20W C NE SE Formation Test No. 4



Tool Open: 1st Flow hr. 15 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. min: Shut-in Final hr. 45 min.

| | Field Reading | Corrected Reading |
|----------------------------------|---------------|-------------------|
| (A) Initial Hydrostatic Pressure | <u>1965</u> | <u>1972</u> |
| (B) Initial 1st Flow Pressure | <u>34</u> | <u>46</u> |
| (C) Final 1st Flow Pressure | <u>40</u> | <u>51</u> |
| (D) Initial Shut-in Pressure | <u>137</u> | <u>148</u> |
| (E) Initial 2nd Flow Pressure | <u>56</u> | <u>60</u> |
| (F) Final 2nd Flow Pressure | <u>85</u> | <u>94</u> |
| (G) Final Shut-in Pressure | <u>187</u> | <u>184</u> |
| (H) Final Hydrostatic Pressure | <u>1955</u> | <u>1964</u> |

MILLER TESTING COMPANY

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GREAT BEND, KANSAS

Company MULL DRILLING COMPANY, INC.

Lease and Well No. KINGSLEY #2

County ELLIS State KANSAS Date SEPT. 24, 1966

| | | | | | |
|--------------------|--------------|-----------------|------------------|-------------------|-----------------|
| Formation Test No. | <u>5</u> | Total Depth | <u>3832</u> | Elev. | |
| Interval Tested | <u>3797</u> | To | <u>3832</u> | Anchor Length | <u>35'</u> |
| Size Hole | <u>7 7/8</u> | Size Drill Pipe | <u>4 1/2 F H</u> | Size Packer | <u>6 3/4</u> |
| Mud Weight | <u>9.8</u> | Viscosity | <u>55</u> | Water Loss | <u>8.2</u> c.c. |
| | | | | Bottom Hole Temp. | <u>121 ° F</u> |
| Chokes: Top | <u>1/2</u> | Bottom | <u>1/2</u> | Ticket No. | <u>8252</u> |

RECOVERY

GOOD BLOW THROUGHOUT TEST

240 FEET OF HEAVY OIL CUT MUD

120 FEET OF HEAVY MUDDY OIL

260 FEET OF OILY MUDDY WATER

60 FEET OF MUDDY WATER

Lease and Well No. KINGSLEY #2 17 14S 20W C NE SE Formation Test No. 5

COMPANY MULL DRILLING CO., INC. DATE SEPT. 24, 1966

LEASE KINGSLEY WELL NO. 2 TEST NO. 5 TICKET NO. 8252

| | TIME | PSI |
|----------------------------|----------|------------|
| INITIAL HYDRO MUD PRESSURE | | 2091 |
| INITIAL CLOSED IN PRESSURE | 30 MINS. | 1216 |
| INITIAL FLOW | 15 MINS. | 68 to 157 |
| FINAL FLOW | 45 MINS. | 166 to 369 |
| FINAL CLOSED IN PRESSURE | 30 MINS. | 1216 |
| FINAL HYDRO MUD PRESSURE | | 2074 |

TOTAL DEPTH 3832

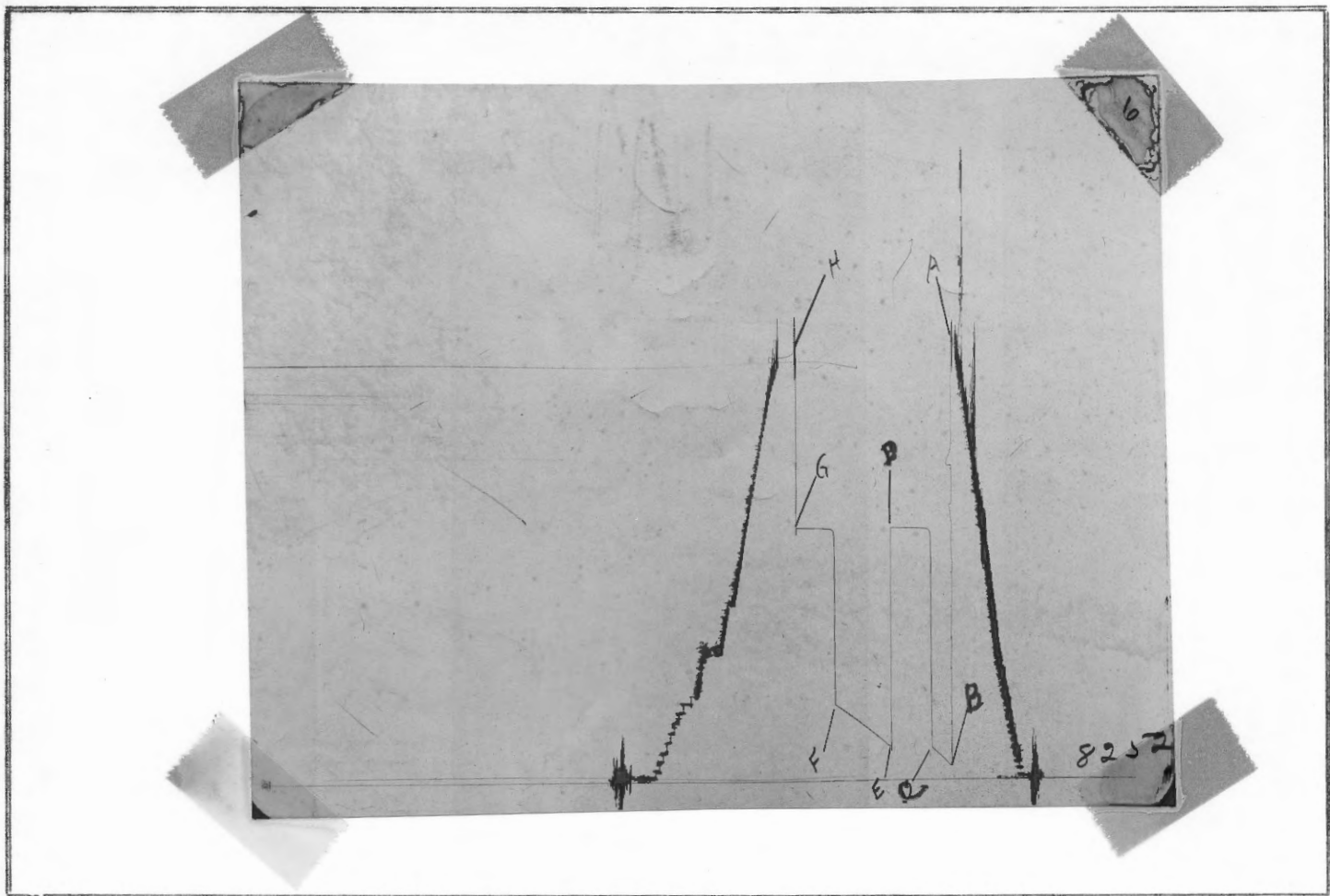
PACKER DEPTH 3797

BT. NO. 905 DEPTH 3827

| | 1ST FLOW PRESSURE | | INITIAL CIP | | 2ND FLOW PRESSURE | | FINAL CIP | |
|-----|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|
| | TIME DEFL. .000" | PSI TEMP. CORR. | TIME DEFL. .000" | PSI TEMP. CORR. | TIME DEFL. .000" | PSI TEMP. CORR. | TIME DEFL. .000" | PSI TEMP. CORR. |
| P0 | | 68 | | 157 | | 166 | | 369 |
| P1 | | 85 | | 1214 | | 187 | | 1216 |
| P2 | | 119 | | 1214 | | 213 | | 1216 |
| P3 | | 157 | | 1215 | | 247 | | 1216 |
| P4 | | | | 1215 | | 272 | | 1216 |
| P5 | | | | 1216 | | 298 | | 1216 |
| P6 | | | | 1216 | | 319 | | 1216 |
| P7 | | | | | | 336 | | |
| P8 | | | | | | 359 | | |
| P9 | | | | | | 369 | | |
| P10 | | | | | | | | |
| | 5 MINUTE INTERVAL | | 5 MINUTE INTERVAL | | 5 MINUTE INTERVAL | | 5 MINUTE INTERVAL | |

REMARKS _____

SPECIAL PRESSURE DATA



Tool Open: 1st Flow hr. 15 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 45 min: Shut-in Final hr. 30 min.

| | Field Reading | Corrected Reading |
|----------------------------------|---------------|-------------------|
| (A) Initial Hydrostatic Pressure | <u>2057</u> | <u>2091</u> |
| (B) Initial 1st Flow Pressure | <u>51</u> | <u>68</u> |
| (C) Final 1st Flow Pressure | <u>153</u> | <u>157</u> |
| (D) Initial Shut-in Pressure | <u>1207</u> | <u>1216</u> |
| (E) Initial 2nd Flow Pressure | <u>153</u> | <u>166</u> |
| (F) Final 2nd Flow Pressure | <u>357</u> | <u>369</u> |
| (G) Final Shut-in Pressure | <u>1207</u> | <u>1216</u> |
| (H) Final Hydrostatic Pressure | <u>2041</u> | <u>1074</u> |