

| FLUID SAMPLE DATA                                                                                                                                                                                                                                                                             |              |                         |             | Date <b>7-19-74</b>                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Ticket Number <b>653372</b>                        |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------|--------|
| Sampler Pressure _____ P.S.I.G. at Surface<br>Recovery: Cu. Ft. Gas _____<br>cc. Oil _____<br>cc. Water _____<br>cc. Mud _____<br>Tot. Liquid cc. _____<br>Gravity <b>33.3</b> ° API @ <b>60</b> °F.<br>Gas/Oil Ratio _____ cu. ft./bbl.                                                      |              |                         |             | Kind of Job <b>OPEN HOLE TEST</b><br>Halliburton District <b>HAYS</b>                                                                                                                                                                                                                                                                                                                                                                                           |             | Tester <b>MR. BAIRD</b> Witness <b>MR. HOUSTON</b> |        |
| Drilling Contractor <b>RED TIGER DRILLING COMPANY</b> PW <b>S</b>                                                                                                                                                                                                                             |              |                         |             | <b>EQUIPMENT &amp; HOLE DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                    |        |
| RESISTIVITY _____ CHLORIDE CONTENT _____                                                                                                                                                                                                                                                      |              |                         |             | Formation Tested <b>Kansas City</b><br>Elevation <b>2133'</b> K.B. _____ Ft.<br>Net Productive Interval _____ Ft.<br>All Depths Measured From <b>Kelly Bushing</b><br>Total Depth <b>4215'</b> _____ Ft.<br>Main Hole/Casing Size <b>7 7/8"</b><br>Drill Collar Length <b>821.32'</b> I.D. <b>2.764"</b><br>Drill Pipe Length <b>3335.04'</b> I.D. <b>3.826"</b><br>Packer Depth(s) <b>4175' - 4180'</b> _____ Ft.<br>Depth Tester Valve <b>4165'</b> _____ Ft. |             |                                                    |        |
| Recovery Water _____ @ _____ °F. _____ ppm<br>Recovery Mud _____ @ _____ °F. _____ ppm<br>Recovery Mud Filtrate _____ @ _____ °F. _____ ppm<br>Mud Pit Sample _____ @ _____ °F. _____ ppm<br>Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm<br>Mud Weight <b>9.9</b> vis <b>45</b> cp    |              |                         |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                    |        |
| TYPE                                                                                                                                                                                                                                                                                          |              | AMOUNT                  |             | Depth Back                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | Surface                                            |        |
| Cushion                                                                                                                                                                                                                                                                                       |              |                         |             | Ft. Pres. Valve                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | Choke                                              |        |
|                                                                                                                                                                                                                                                                                               |              |                         |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | <b>1/4"</b>                                        |        |
|                                                                                                                                                                                                                                                                                               |              |                         |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | <b>3/4"</b>                                        |        |
| Recovered                                                                                                                                                                                                                                                                                     |              | <b>360</b>              | Feet of     | <b>Free Gasy oil</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                                    |        |
| Recovered                                                                                                                                                                                                                                                                                     |              | <b>420</b>              | Feet of     | <b>Froggy gasy oil &amp; mud</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                    |        |
| Recovered                                                                                                                                                                                                                                                                                     |              | <b>390</b>              | Feet of     | <b>Heavy oil 7 gas cut mud</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                                    |        |
| Recovered                                                                                                                                                                                                                                                                                     |              | <b>20</b>               | Feet of     | <b>Water</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                    |        |
| Recovered                                                                                                                                                                                                                                                                                     |              |                         | Feet of     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                    |        |
| Remarks <b>Opened tool for a 46 minute first flow period with a weak to strong blow. Closed tool for a 45 minute initial closed in pressure. Re-opened tool for a 46 minute second flow period with a strong blow. Closed tool for a 46 minute final closed in pressure. Tool off bottom.</b> |              |                         |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                    |        |
| TEMPERATURE                                                                                                                                                                                                                                                                                   |              | Gauge No. <b>738</b>    |             | Gauge No. <b>272</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | Gauge No.                                          |        |
|                                                                                                                                                                                                                                                                                               |              | Depth: <b>4170'</b> Ft. |             | Depth: <b>4211'</b> Ft.                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | Depth: _____ Ft.                                   |        |
| <b>1024</b>                                                                                                                                                                                                                                                                                   |              | <b>12</b> Hour Clock    |             | <b>12</b> Hour Clock                                                                                                                                                                                                                                                                                                                                                                                                                                            |             | Hour Clock                                         |        |
| Est. <b>128°F.</b>                                                                                                                                                                                                                                                                            |              | Blanked Off <b>No</b>   |             | Blanked Off <b>Yes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | Blanked Off                                        |        |
| Actual _____ °F.                                                                                                                                                                                                                                                                              |              | Pressures               |             | Pressures                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | Pressures                                          |        |
|                                                                                                                                                                                                                                                                                               |              | Field                   | Office      | Field                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Office      | Field                                              | Office |
| Initial Hydrostatic                                                                                                                                                                                                                                                                           |              | <b>2139</b>             | <b>2109</b> | <b>2182</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>2139</b> |                                                    |        |
| First Period                                                                                                                                                                                                                                                                                  | Flow Initial | <b>36</b>               | <b>34</b>   | <b>36</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>59</b>   |                                                    |        |
|                                                                                                                                                                                                                                                                                               | Flow Final   | <b>341</b>              | <b>349</b>  | <b>357</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>365</b>  |                                                    |        |
|                                                                                                                                                                                                                                                                                               | Closed in    | <b>1147</b>             | <b>1160</b> | <b>1176</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>1178</b> |                                                    |        |
| Second Period                                                                                                                                                                                                                                                                                 | Flow Initial | <b>341</b>              | <b>361</b>  | <b>375</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>382</b>  |                                                    |        |
|                                                                                                                                                                                                                                                                                               | Flow Final   | <b>484</b>              | <b>493</b>  | <b>500</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>570</b>  |                                                    |        |
|                                                                                                                                                                                                                                                                                               | Closed in    | <b>1093</b>             | <b>1134</b> | <b>1158</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>1153</b> |                                                    |        |
| Third Period                                                                                                                                                                                                                                                                                  | Flow Initial |                         |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                    |        |
|                                                                                                                                                                                                                                                                                               | Flow Final   |                         |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                    |        |
| Final Hydrostatic                                                                                                                                                                                                                                                                             |              | <b>2049</b>             | <b>2040</b> | <b>2074</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>2063</b> |                                                    |        |
|                                                                                                                                                                                                                                                                                               |              |                         |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                    |        |

Legal Location **NE - NW - NE - SEC.-25-17S-28W**  
 Lease Name \_\_\_\_\_  
 Well No. **1**  
 Test No. **1**  
 Field Area **WILDCAT**  
 Tested Interval **4180' - 4215'**  
 County **LANE**  
 State **KANSAS**  
 Lease Owner/Company Name **BEREN CORPORATION**

|                   |                     |                     |                          |                                 |                     |                     |                     |                           |                                 |                     |                     |                     |                          |                                 |                     |
|-------------------|---------------------|---------------------|--------------------------|---------------------------------|---------------------|---------------------|---------------------|---------------------------|---------------------------------|---------------------|---------------------|---------------------|--------------------------|---------------------------------|---------------------|
| Gauge No. 738     |                     |                     | Depth 4170'              |                                 |                     | Clock No. 2800      |                     |                           | 12 hour                         |                     | Ticket No. 653372   |                     |                          |                                 |                     |
| First Flow Period |                     |                     | First Closed In Pressure |                                 |                     | Second Flow Period  |                     | Second Closed In Pressure |                                 |                     | Third Flow Period   |                     | Third Closed In Pressure |                                 |                     |
|                   | Time Defl.<br>.000" | PSIG Temp.<br>Corr. | Time Defl.<br>.000"      | Log $\frac{t + \theta}{\theta}$ | PSIG Temp.<br>Corr. | Time Defl.<br>.000" | PSIG Temp.<br>Corr. | Time Defl.<br>.000"       | Log $\frac{t + \theta}{\theta}$ | PSIG Temp.<br>Corr. | Time Defl.<br>.000" | PSIG Temp.<br>Corr. | Time Defl.<br>.000"      | Log $\frac{t + \theta}{\theta}$ | PSIG Temp.<br>Corr. |
| 0                 | .000                | 34                  | .000                     |                                 | 349                 | .000                | 361                 | .000                      |                                 | 493                 |                     |                     |                          |                                 |                     |
| 1                 | .0402*              | 89                  | .0329**                  |                                 | 1080                | .0397***            | 375                 | .0395****                 |                                 | 1074                |                     |                     |                          |                                 |                     |
| 2                 | .0737               | 131                 | .0592                    |                                 | 1103                | .0727               | 392                 | .0659                     |                                 | 1088                |                     |                     |                          |                                 |                     |
| 3                 | .1071               | 169                 | .0855                    |                                 | 1116                | .1057               | 408                 | .0922                     |                                 | 1098                |                     |                     |                          |                                 |                     |
| 4                 | .1406               | 205                 | .1118                    |                                 | 1125                | .1388               | 424                 | .1186                     |                                 | 1106                |                     |                     |                          |                                 |                     |
| 5                 | .1741               | 239                 | .1381                    |                                 | 1133                | .1718               | 439                 | .1449                     |                                 | 1113                |                     |                     |                          |                                 |                     |
| 6                 | .2076               | 269                 | .1644                    |                                 | 1140                | .2049               | 453                 | .1713                     |                                 | 1118                |                     |                     |                          |                                 |                     |
| 7                 | .2410               | 299                 | .1908                    |                                 | 1145                | .2379               | 467                 | .1976                     |                                 | 1122                |                     |                     |                          |                                 |                     |
| 8                 | .2745               | 327                 | .2171                    |                                 | 1150                | .2710               | 480                 | .2240                     |                                 | 1126                |                     |                     |                          |                                 |                     |
| 9                 | .3080               | 349                 | .2434                    |                                 | 1153                | .3040               | 493                 | .2503                     |                                 | 1130                |                     |                     |                          |                                 |                     |
| 10                |                     |                     | .2697                    |                                 | 1157                |                     |                     | .2767                     |                                 | 1132                |                     |                     |                          |                                 |                     |
| 11                |                     |                     | .2960                    |                                 | 1160                |                     |                     | .3030                     |                                 | 1134                |                     |                     |                          |                                 |                     |
| 12                |                     |                     |                          |                                 |                     |                     |                     |                           |                                 |                     |                     |                     |                          |                                 |                     |
| 13                |                     |                     |                          |                                 |                     |                     |                     |                           |                                 |                     |                     |                     |                          |                                 |                     |
| 14                |                     |                     |                          |                                 |                     |                     |                     |                           |                                 |                     |                     |                     |                          |                                 |                     |
| 15                |                     |                     |                          |                                 |                     |                     |                     |                           |                                 |                     |                     |                     |                          |                                 |                     |

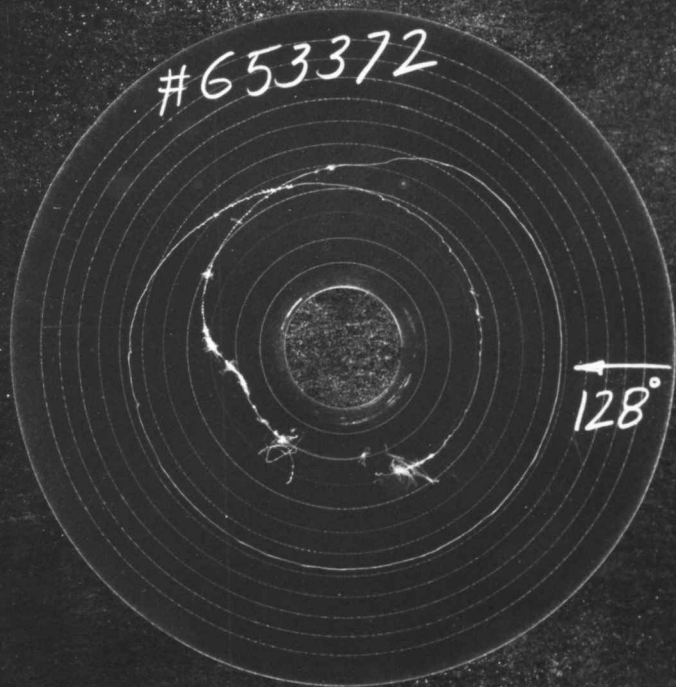
|                    |        |     |            |  |      |                |     |           |         |      |  |         |  |  |  |
|--------------------|--------|-----|------------|--|------|----------------|-----|-----------|---------|------|--|---------|--|--|--|
| Gauge No. 272      |        |     | Depth 4211 |  |      | Clock No. 2414 |     |           | 12 hour |      |  |         |  |  |  |
| 0                  | .000   | 51  | .000       |  | 365  | .000           | 382 | .000      |         | 570  |  |         |  |  |  |
| 1                  | .0391* | 109 | .0327**    |  | 1096 | .0391***       | 393 | .0394**** |         | 1089 |  |         |  |  |  |
| 2                  | .0717  | 149 | .0588      |  | 1119 | .0717          | 409 | .0657     |         | 1106 |  |         |  |  |  |
| 3                  | .1043  | 190 | .0849      |  | 1133 | .1043          | 425 | .0919     |         | 1115 |  |         |  |  |  |
| 4                  | .1370  | 224 | .1111      |  | 1143 | .1370          | 442 | .1182     |         | 1123 |  |         |  |  |  |
| 5                  | .1696  | 257 | .1372      |  | 1151 | .1696          | 456 | .1444     |         | 1130 |  |         |  |  |  |
| 6                  | .2022  | 289 | .1633      |  | 1157 | .2022          | 471 | .1707     |         | 1135 |  |         |  |  |  |
| 7                  | .2348  | 317 | .1895      |  | 1164 | .2348          | 485 | .1970     |         | 1140 |  |         |  |  |  |
| 8                  | .2674  | 346 | .2156      |  | 1168 | .2674          | 497 | .2232     |         | 1144 |  |         |  |  |  |
| 9                  | .3000  | 365 | .2417      |  | 1173 | .3000          | 570 | .2495     |         | 1147 |  |         |  |  |  |
| 10                 |        |     | .2679      |  | 1176 |                |     | .2757     |         | 1150 |  |         |  |  |  |
| 11                 |        |     | .2940      |  | 1178 |                |     | .3020     |         | 1153 |  |         |  |  |  |
| 12                 |        |     |            |  |      |                |     |           |         |      |  |         |  |  |  |
| 13                 |        |     |            |  |      |                |     |           |         |      |  |         |  |  |  |
| 14                 |        |     |            |  |      |                |     |           |         |      |  |         |  |  |  |
| 15                 |        |     |            |  |      |                |     |           |         |      |  |         |  |  |  |
| Reading Interval 5 |        |     | 4          |  |      | 5              |     |           | 4       |      |  | Minutes |  |  |  |

REMARKS:

\* = 6 minutes \*\* = 5 minutes \*\*\* = 6 minutes \*\*\*\* = 6 minutes

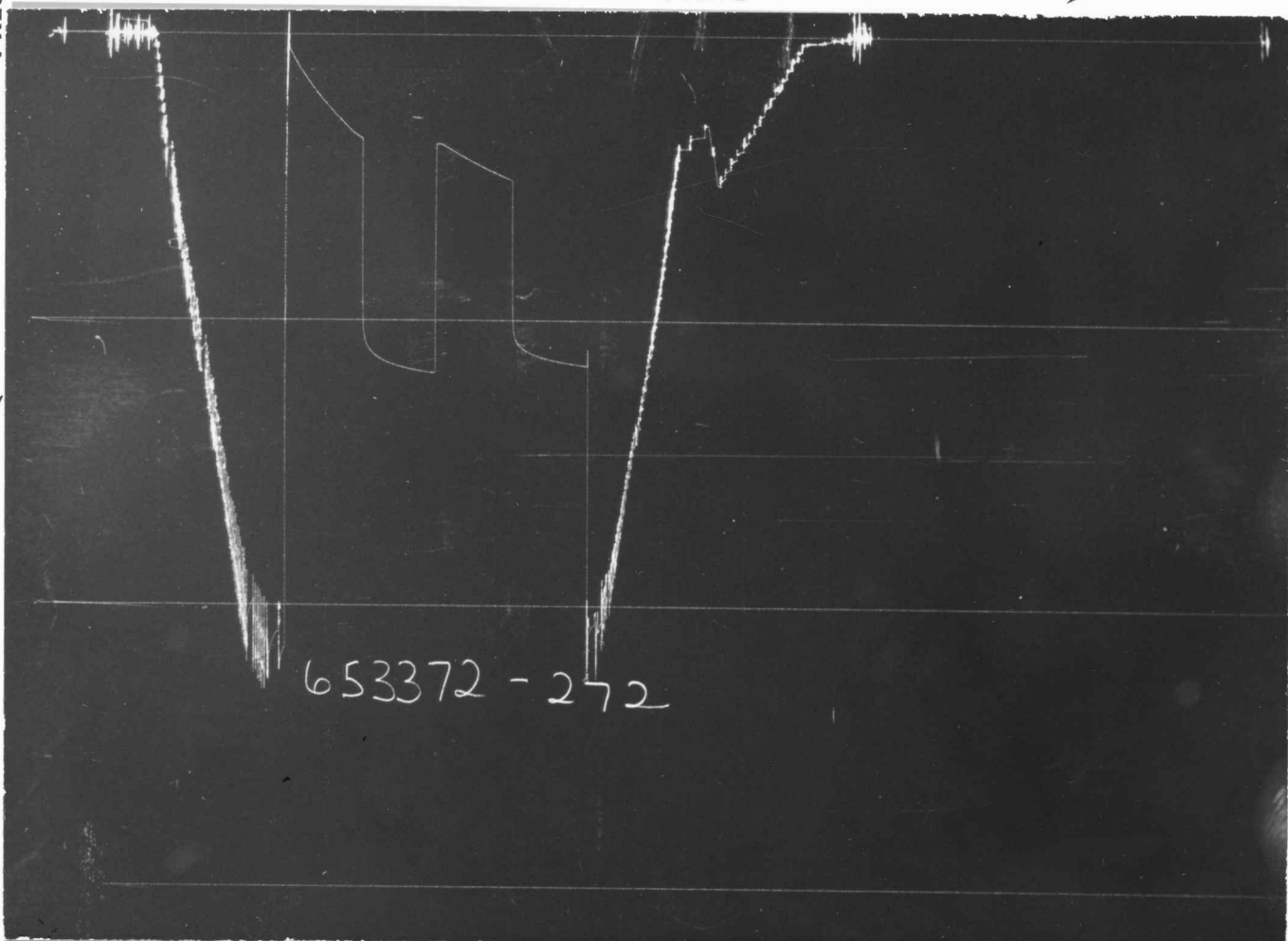
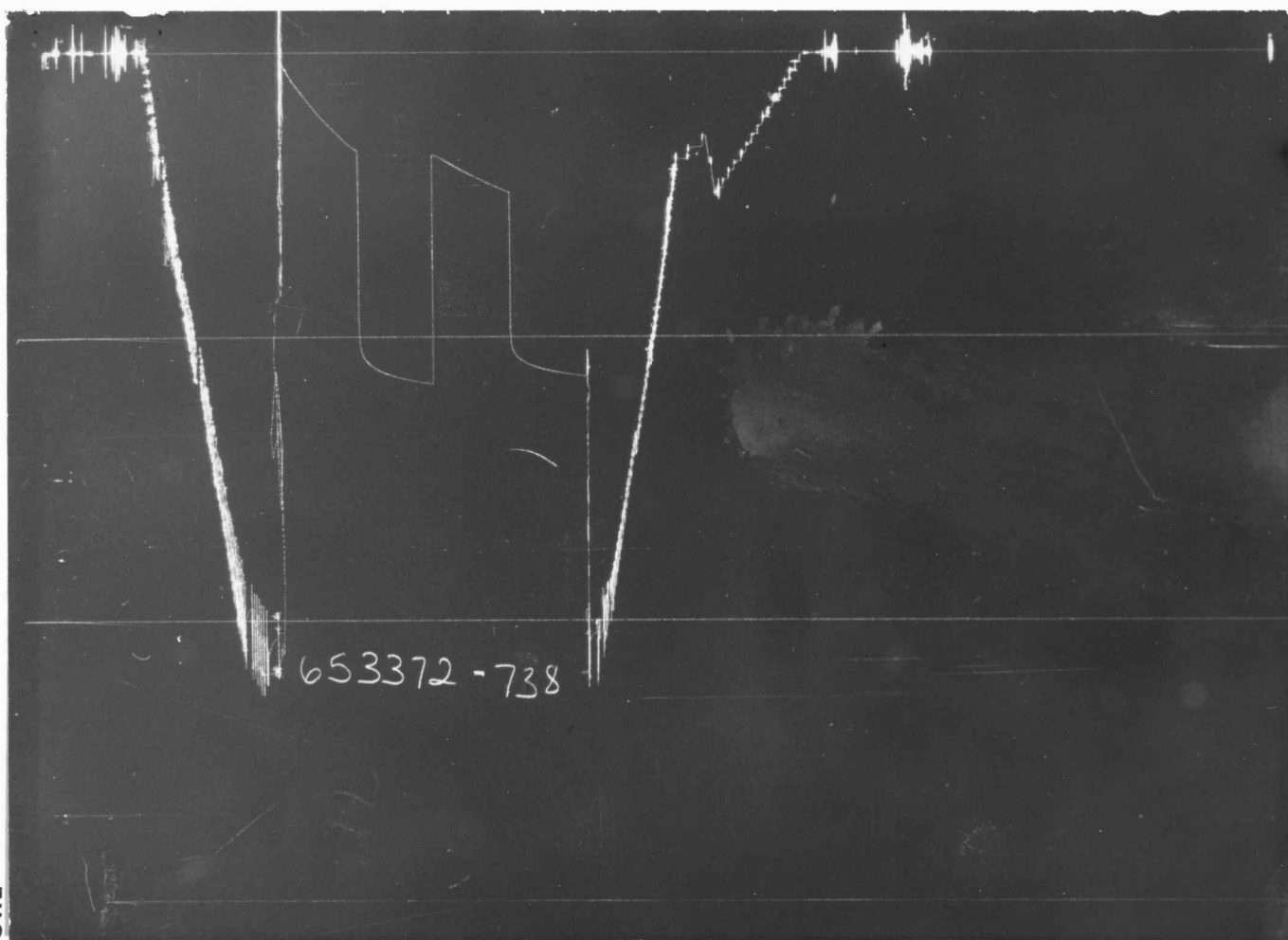
|                               | O. D.  | I. D.  | LENGTH   | DEPTH |
|-------------------------------|--------|--------|----------|-------|
| Drill Pipe or Tubing          | 5.75"  | 2.76"  | 1.00'    |       |
| Reversing Sub                 |        |        |          | 4040' |
| Water Cushion Valve           |        |        |          |       |
| Drill Pipe                    | 4 1/2" | 3.826" | 3335.04' |       |
| Drill Collars Flex Weight     | 4.50"  | 2.764" | 821.32'  |       |
| Handling Sub & Choke Assembly |        |        |          |       |
| Dual CIP Valve                | 5.00"  | .87"   | 48.92"   |       |
| Dual CIP Sampler              |        |        |          |       |
| Hydro-Spring Tester           | 5.00"  | .75"   | 60.21"   | 4165' |
| Multiple CIP Sampler          |        |        |          |       |
| Extension Joint               |        |        |          |       |
| AP Running Case               | 5.00"  | 3.06"  | 49.36"   | 4170' |
| Hydraulic Jar                 |        |        |          |       |
| VR Safety Joint               |        |        |          |       |
| Pressure Equalizing Crossover |        |        |          |       |
| Packer Assembly               |        |        |          |       |
| Distributor                   |        |        |          |       |
| Packer Assembly               | 6 3/4" | 1.53"  | 4.89'    | 4175' |
| Flush Joint Anchor            |        |        |          |       |
| Pressure Equalizing Tube      |        |        |          |       |
| Blanked-Off B.T. Running Case |        |        |          |       |
| Drill Collars                 |        |        |          |       |
| Anchor Pipe Safety Joint      |        |        |          |       |
| Packer Assembly               | 6 3/4" | 1.53"  | 4.89'    | 4180' |
| Distributor                   |        |        |          |       |
| Packer Assembly               |        |        |          |       |
| Anchor Pipe Safety Joint      |        |        |          |       |
| Side Wall Anchor              |        |        |          |       |
| Drill Collars                 |        |        |          |       |
| Flush Joint Anchor            | 5.00"  | 3.84"  | 31.00'   |       |
| Blanked-Off B.T. Running Case | 5.00"  | 3.06"  | 4.00'    | 4211' |
| Total Depth                   |        |        |          | 4215' |

TEMPERATURE  
RECORDER  
CHART



10° each circle

PRESSURE



Each Horizontal Line Equal to 1000 p.s.i.

| FLUID SAMPLE DATA                                                                                                                                                                                                                                                                                            |  |                         |  | Date 7-20-74                                          |  | Ticket Number 653373             |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|--|-------------------------------------------------------|--|----------------------------------|--|
| Sampler Pressure _____ P.S.I.G. at Surface<br>Recovery: Cu. Ft. Gas _____<br>cc. Oil _____<br>cc. Water _____<br>cc. Mud _____<br>Tot. Liquid cc. _____<br>Gravity <u>35</u> ° API @ <u>60</u> ° F.<br>Gas/Oil Ratio _____ cu. ft./bbl.                                                                      |  |                         |  | Kind of Job <b>OPEN HOLE TEST</b>                     |  | Halliburton District <b>HAYS</b> |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Tester <b>MR. BAIRD</b>                               |  | Witness <b>MR. HOUSTON</b>       |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Drilling Contractor <b>RED TIGER DRILLING COMPANY</b> |  |                                  |  |
| EQUIPMENT & HOLE DATA                                                                                                                                                                                                                                                                                        |  |                         |  |                                                       |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Formation Tested <b>Kansas City</b>                   |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Elevation <b>2033' K.B.</b> Ft.                       |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Net Productive Interval _____ Ft.                     |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | All Depths Measured From <b>Kelly Bushing</b>         |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Total Depth <b>4245'</b> Ft.                          |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Main Hole/Casing Size <b>7 7/8"</b>                   |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Drill Collar Length <b>821.32' I.D. 2.764"</b>        |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Drill Pipe Length <b>3372.04' I.D. 3.826"</b>         |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Packer Depth(s) <b>4212' - 4217'</b> Ft.              |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  | Depth Tester Valve <b>4202'</b> Ft.                   |  |                                  |  |
| TYPE                                                                                                                                                                                                                                                                                                         |  | AMOUNT                  |  | Depth Back                                            |  | Surface                          |  |
| Cushion                                                                                                                                                                                                                                                                                                      |  |                         |  | Ft. Pres. Valve                                       |  | Choke                            |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  |                                                       |  | <b>1/4"</b>                      |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  |                                                       |  | <b>Bottom Choke 3/4"</b>         |  |
| Recovered                                                                                                                                                                                                                                                                                                    |  | <b>675 Feet of</b>      |  | <b>Muddy gas cut oil</b>                              |  |                                  |  |
| Recovered                                                                                                                                                                                                                                                                                                    |  | <b>300 Feet of</b>      |  | <b>Oil &amp; gas cut water (5% oil estimated)</b>     |  |                                  |  |
| Recovered                                                                                                                                                                                                                                                                                                    |  | <b>Feet of</b>          |  |                                                       |  |                                  |  |
| Recovered                                                                                                                                                                                                                                                                                                    |  | <b>Feet of</b>          |  |                                                       |  |                                  |  |
| Recovered                                                                                                                                                                                                                                                                                                    |  | <b>Feet of</b>          |  |                                                       |  |                                  |  |
| Remarks <b>Opened tool for a 45 minute first flow period with a weak to strong blow. Gas to surface. Tool closed for a 45 minute initial closed in pressure. Tool reopened for a 54 minute second flow period with a strong blow. Tool closed for a 44 minute final closed in pressure. Tool off bottom.</b> |  |                         |  |                                                       |  |                                  |  |
| TEMPERATURE                                                                                                                                                                                                                                                                                                  |  | Gauge No. <b>738</b>    |  | Gauge No. <b>272</b>                                  |  | Gauge No.                        |  |
|                                                                                                                                                                                                                                                                                                              |  | Depth: <b>4207'</b> Ft. |  | Depth: <b>4241'</b> Ft.                               |  | Depth: _____ Ft.                 |  |
|                                                                                                                                                                                                                                                                                                              |  | <b>12 Hour Clock</b>    |  | <b>12 Hour Clock</b>                                  |  | <b>Hour Clock</b>                |  |
| Est. °F.                                                                                                                                                                                                                                                                                                     |  | Blanked Off <b>No</b>   |  | Blanked Off <b>Yes</b>                                |  | Blanked Off                      |  |
| <b>4240'</b>                                                                                                                                                                                                                                                                                                 |  |                         |  |                                                       |  |                                  |  |
| Actual <b>118 °F.</b>                                                                                                                                                                                                                                                                                        |  |                         |  |                                                       |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  | Pressures               |  | Pressures                                             |  | Pressures                        |  |
|                                                                                                                                                                                                                                                                                                              |  | Field Office            |  | Field Office                                          |  | Field Office                     |  |
| Initial Hydrostatic                                                                                                                                                                                                                                                                                          |  | <b>2121 2124</b>        |  | <b>2146 2164</b>                                      |  |                                  |  |
| First Period Flow Initial                                                                                                                                                                                                                                                                                    |  | <b>27 40</b>            |  | <b>36 42</b>                                          |  |                                  |  |
| Final                                                                                                                                                                                                                                                                                                        |  | <b>341 339</b>          |  | <b>339 351</b>                                        |  |                                  |  |
| Closed in                                                                                                                                                                                                                                                                                                    |  | <b>1003 1009</b>        |  | <b>1015 1021</b>                                      |  |                                  |  |
| Second Period Flow Initial                                                                                                                                                                                                                                                                                   |  | <b>341 347</b>          |  | <b>339 359</b>                                        |  |                                  |  |
| Final                                                                                                                                                                                                                                                                                                        |  | <b>502 497</b>          |  | <b>500 510</b>                                        |  |                                  |  |
| Closed in                                                                                                                                                                                                                                                                                                    |  | <b>1003 997</b>         |  | <b>997 1011</b>                                       |  |                                  |  |
| Third Period Flow Initial                                                                                                                                                                                                                                                                                    |  |                         |  |                                                       |  |                                  |  |
| Final                                                                                                                                                                                                                                                                                                        |  |                         |  |                                                       |  |                                  |  |
| Closed in                                                                                                                                                                                                                                                                                                    |  |                         |  |                                                       |  |                                  |  |
| Final Hydrostatic                                                                                                                                                                                                                                                                                            |  | <b>2085 2064</b>        |  | <b>2092 2083</b>                                      |  |                                  |  |
|                                                                                                                                                                                                                                                                                                              |  |                         |  |                                                       |  |                                  |  |

Legal Location  
Sec. - Twp. - Range - NW - NE - SEC. - 25-17S-28W

Field Area  
Med. From Tester Valve  
**WILDCAT**

County  
**Lane**

State  
**Kansas**

HARLAMENT  
Lease Name

1  
Well No.

2  
Test No.

4217' - 4245'  
Tested Interval

BEREN CORPORATION  
Lease Owner/Company Name

|                   |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |
|-------------------|---------------------|------------------------|--------------------------|----------------------------------------|------------------------|---------------------|------------------------|---------------------------|----------------------------------------|------------------------|---------------------|------------------------|--------------------------|----------------------------------------|------------------------|
| Gauge No. 738     |                     |                        | Depth 4207               |                                        |                        | Clock No. 2800      |                        |                           | 12 hour                                | Ticket No. 653373      |                     |                        |                          |                                        |                        |
| First Flow Period |                     |                        | First Closed In Pressure |                                        |                        | Second Flow Period  |                        | Second Closed In Pressure |                                        |                        | Third Flow Period   |                        | Third Closed In Pressure |                                        |                        |
|                   | Time Defl.<br>.000" | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000"      | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000" | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000"       | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000" | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000"      | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG<br>Temp.<br>Corr. |
| 0                 | .000                | 40                     | .000                     |                                        | 339                    | .000                | 347                    | .000                      |                                        | 497                    |                     |                        |                          |                                        |                        |
| 1                 | .0333               | 82                     | .0602*                   |                                        | 964                    | .0600               | 375                    | .0531**                   |                                        | 959                    |                     |                        |                          |                                        |                        |
| 2                 | .0667               | 123                    | .0870                    |                                        | 976                    | .1200               | 401                    | .0796                     |                                        | 968                    |                     |                        |                          |                                        |                        |
| 3                 | .1000               | 160                    | .1137                    |                                        | 983                    | .1800               | 428                    | .1062                     |                                        | 975                    |                     |                        |                          |                                        |                        |
| 4                 | .1333               | 194                    | .1405                    |                                        | 989                    | .2400               | 453                    | .1327                     |                                        | 979                    |                     |                        |                          |                                        |                        |
| 5                 | .1667               | 227                    | .1672                    |                                        | 994                    | .3000               | 476                    | .1593                     |                                        | 984                    |                     |                        |                          |                                        |                        |
| 6                 | .2000               | 258                    | .1940                    |                                        | 997                    | .3600               | 497                    | .1858                     |                                        | 988                    |                     |                        |                          |                                        |                        |
| 7                 | .2333               | 287                    | .2207                    |                                        | 1001                   |                     |                        | .2124                     |                                        | 990                    |                     |                        |                          |                                        |                        |
| 8                 | .2667               | 314                    | .2475                    |                                        | 1004                   |                     |                        | .2389                     |                                        | 993                    |                     |                        |                          |                                        |                        |
| 9                 | .3000               | 339                    | .2742                    |                                        | 1007                   |                     |                        | .2655                     |                                        | 996                    |                     |                        |                          |                                        |                        |
| 10                |                     |                        | .3010                    |                                        | 1009                   |                     |                        | .2920                     |                                        | 997                    |                     |                        |                          |                                        |                        |
| 11                |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |
| 12                |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |
| 13                |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |
| 14                |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |
| 15                |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |

| Gauge No.        |       | 272 |        | Depth |      | 4241' |     | Clock No. |  | 2414 |  | 12 hour |         |  |  |  |
|------------------|-------|-----|--------|-------|------|-------|-----|-----------|--|------|--|---------|---------|--|--|--|
| 0                | .000  | 42  | .000   |       | 351  | .000  | 359 | .000      |  | 510  |  |         |         |  |  |  |
| 1                | .0330 | 89  | .0594* |       | 977  | .0595 | 388 | .0524**   |  | 972  |  |         |         |  |  |  |
| 2                | .0660 | 131 | .0858  |       | 988  | .1190 | 415 | .0785     |  | 981  |  |         |         |  |  |  |
| 3                | .0990 | 171 | .1122  |       | 996  | .1785 | 441 | .1047     |  | 988  |  |         |         |  |  |  |
| 4                | .1320 | 205 | .1386  |       | 1003 | .2380 | 466 | .1309     |  | 993  |  |         |         |  |  |  |
| 5                | .1650 | 238 | .1650  |       | 1006 | .2975 | 488 | .1571     |  | 997  |  |         |         |  |  |  |
| 6                | .1980 | 269 | .1914  |       | 1011 | .3570 | 510 | .1833     |  | 1001 |  |         |         |  |  |  |
| 7                | .2310 | 298 | .2178  |       | 1014 |       |     | .2095     |  | 1004 |  |         |         |  |  |  |
| 8                | .2640 | 326 | .2442  |       | 1017 |       |     | .2356     |  | 1006 |  |         |         |  |  |  |
| 9                | .2970 | 351 | .2706  |       | 1020 |       |     | .2618     |  | 1009 |  |         |         |  |  |  |
| 10               |       |     | .2970  |       | 1021 |       |     | .2880     |  | 1011 |  |         |         |  |  |  |
| 11               |       |     |        |       |      |       |     |           |  |      |  |         |         |  |  |  |
| 12               |       |     |        |       |      |       |     |           |  |      |  |         |         |  |  |  |
| 13               |       |     |        |       |      |       |     |           |  |      |  |         |         |  |  |  |
| 14               |       |     |        |       |      |       |     |           |  |      |  |         |         |  |  |  |
| 15               |       |     |        |       |      |       |     |           |  |      |  |         |         |  |  |  |
| Reading Interval |       | 5   | 4      |       |      | 9     |     | 4         |  |      |  |         | Minutes |  |  |  |

REMARKS:

\* = 9 minutes \*\* = 8 minutes

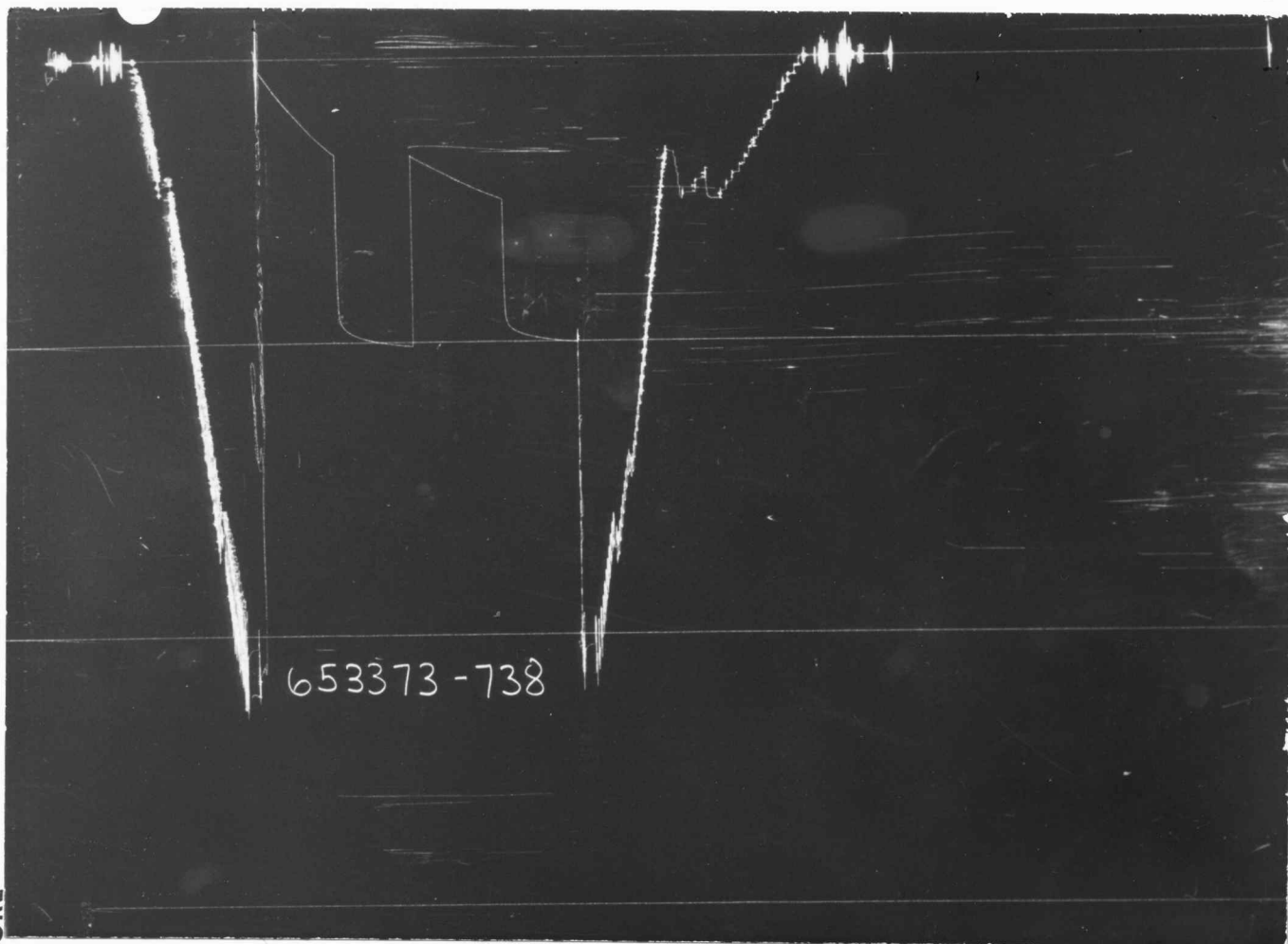
|                                     | O. D.  | I. D.  | LENGTH   | DEPTH |
|-------------------------------------|--------|--------|----------|-------|
| Drill Pipe or Tubing .....          | 5.75"  | 2.76"  | 1.00'    |       |
| Reversing Sub .....                 |        |        |          | 4077' |
| Water Cushion Valve .....           |        |        |          |       |
| Drill Pipe .....                    | 4 1/2" | 3.826" | 3372.04' |       |
| Drill Collars Flex weight .....     | 4.50"  | 2.764" | 821.32'  |       |
| Handling Sub & Choke Assembly ..... |        |        |          |       |
| Dual CIP Valve .....                | 5.00"  | .87"   | 48.92'   |       |
| Dual CIP Sampler .....              |        |        |          |       |
| Hydro-Spring Tester .....           | 5.00"  | .75"   | 60.21"   | 4202' |
| Multiple CIP Sampler .....          |        |        |          |       |
| Extension Joint .....               |        |        |          |       |
| AP Running Case .....               | 5.00"  | 3.06"  | 49.63"   | 4207' |
| Hydraulic Jar .....                 |        |        |          |       |
| VR Safety Joint .....               |        |        |          |       |
| Pressure Equalizing Crossover ..... |        |        |          |       |
| Packer Assembly .....               |        |        |          |       |
| Distributor .....                   |        |        |          |       |
| Packer Assembly .....               | 6 3/4" | 1.53"  | 4.89'    | 4212' |
| Flush Joint Anchor .....            |        |        |          |       |
| Pressure Equalizing Tube .....      |        |        |          |       |
| Blanked-Off B.T. Running Case ..... |        |        |          |       |
| Drill Collars .....                 |        |        |          |       |
| Anchor Pipe Safety Joint .....      |        |        |          |       |
| Packer Assembly .....               | 6 3/4" | 1.53"  | 4.89'    | 4217' |
| Distributor .....                   |        |        |          |       |
| Packer Assembly .....               |        |        |          |       |
| Anchor Pipe Safety Joint .....      |        |        |          |       |
| Side Wall Anchor .....              |        |        |          |       |
| Drill Collars .....                 |        |        |          |       |
| Flush Joint Anchor .....            | 5.00"  | 3.84"  | 24.00"   |       |
| Blanked-Off B.T. Running Case ..... | 5.00"  | 3.06"  | 4.00'    | 4241' |
| Total Depth .....                   |        |        |          | 4245' |

TEMPERATURE  
RECORDER  
CHART

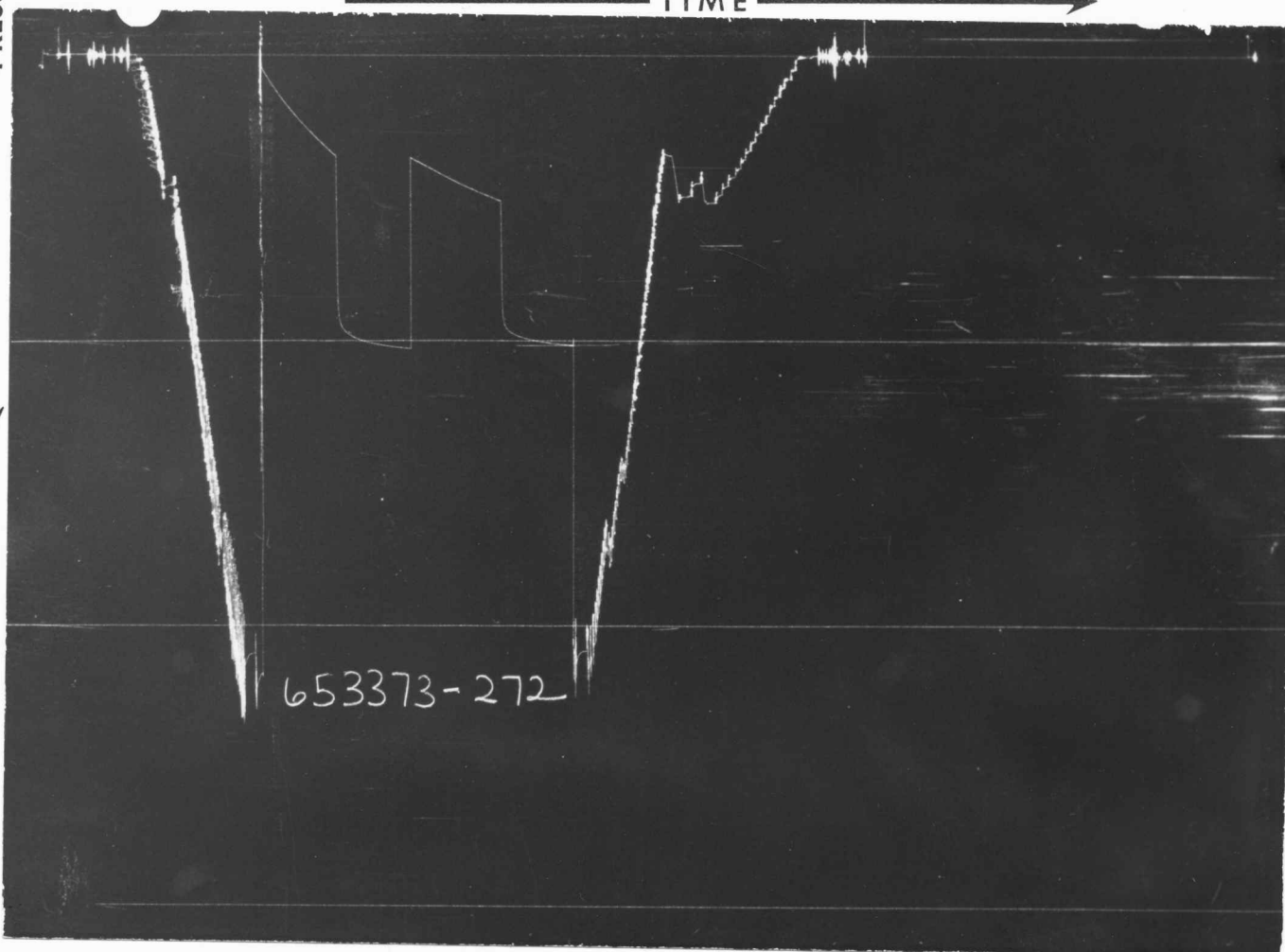


10° each circle

PRESSURE



TIME



Each Horizontal Line Equal to 1000 p.s.i.

| FLUID SAMPLE DATA                                                         |  |                  |  | Date 7-20-74                                        |  | Ticket Number 653374          |  |
|---------------------------------------------------------------------------|--|------------------|--|-----------------------------------------------------|--|-------------------------------|--|
| Sampler Pressure _____ P.S.I.G. at Surface                                |  |                  |  | Kind of Job OPEN HOLE TEST                          |  | Halliburton District HAYS     |  |
| Recovery: Cu. Ft. Gas _____                                               |  |                  |  | Tester MR. BAIRD                                    |  | Witness MR. HOUSTON           |  |
| cc. Oil _____                                                             |  |                  |  | Drilling Contractor RED TIGER DRILLING COMPANY PW S |  |                               |  |
| cc. Water _____                                                           |  |                  |  | EQUIPMENT & HOLE DATA                               |  |                               |  |
| cc. Mud _____                                                             |  |                  |  | Formation Tested Kansas City                        |  |                               |  |
| Tot. Liquid cc. _____                                                     |  |                  |  | Elevation 2033' K.B. _____ Ft.                      |  |                               |  |
| Gravity 37.2 _____ ° API @ 60 _____ °F.                                   |  |                  |  | Net Productive Interval _____ Ft.                   |  |                               |  |
| Gas/Oil Ratio _____ cu. ft./bbl.                                          |  |                  |  | All Depths Measured From Kelly Bushing              |  |                               |  |
| RESISTIVITY _____ °F. _____ ppm                                           |  |                  |  | Total Depth 4285' _____ Ft.                         |  |                               |  |
| CHLORIDE CONTENT _____                                                    |  |                  |  | Main Hole/Casing Size 7 7/8"                        |  |                               |  |
| Recovery Water _____ @ _____ °F. _____ ppm                                |  |                  |  | Drill Casing Length FW 821.32' I.D. 2.764"          |  |                               |  |
| Recovery Mud _____ @ _____ °F. _____ ppm                                  |  |                  |  | Drill Pipe Length 3408.04' I.D. 3.826"              |  |                               |  |
| Recovery Mud Filtrate _____ @ _____ °F. _____ ppm                         |  |                  |  | Packer Depth(s) 4248' - 4253' _____ Ft.             |  |                               |  |
| Mud Pit Sample _____ @ _____ °F. _____ ppm                                |  |                  |  | Depth Tester Valve 4238' _____ Ft.                  |  |                               |  |
| Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm                       |  |                  |  |                                                     |  |                               |  |
| Mud Weight 9.9 vis 45 cp                                                  |  |                  |  |                                                     |  |                               |  |
| TYPE                                                                      |  | AMOUNT           |  | Depth Back                                          |  | Surface                       |  |
| Cushion                                                                   |  |                  |  | Ft. Pres. Valve                                     |  | Choke 1/4" Bottom Choke 3/4"  |  |
| Recovered                                                                 |  | 450 Feet of      |  | Free Gasy Oil                                       |  |                               |  |
| Recovered                                                                 |  | 120 Feet of      |  | Muddy gas cut oil                                   |  |                               |  |
| Recovered                                                                 |  | 65 Feet of       |  | Heavy oil gas cut mud                               |  |                               |  |
| Recovered                                                                 |  | 20 Feet of       |  | Muddy water                                         |  |                               |  |
| Recovered                                                                 |  | Feet of          |  |                                                     |  |                               |  |
| Remarks                                                                   |  |                  |  |                                                     |  |                               |  |
| Opened tool for a 46 minute first flow period with a weak to strong       |  |                  |  |                                                     |  |                               |  |
| blow. Gas to surface in 18 minutes. Tool closed for a 45 minute initial   |  |                  |  |                                                     |  |                               |  |
| closed in pressure. Tool reopened for a 45 minute second flow period      |  |                  |  |                                                     |  |                               |  |
| with a strong blow. Closed tool for a 46 minute final closed in pressure. |  |                  |  |                                                     |  |                               |  |
| Tool off bottom.                                                          |  |                  |  |                                                     |  |                               |  |
| TEMPERATURE                                                               |  | Gauge No. 738    |  | Gauge No. 272                                       |  | Gauge No.                     |  |
|                                                                           |  | Depth: 4243' Ft. |  | Depth: 4281 Ft.                                     |  | Depth: _____ Ft.              |  |
| Est. _____ °F.                                                            |  | 12 Hour Clock    |  | 12 Hour Clock                                       |  | Hour Clock                    |  |
| Blanked Off No                                                            |  | Blanked Off Yes  |  | Blanked Off                                         |  | Tool                          |  |
| Actual 1024' °F.                                                          |  | Pressures        |  | Pressures                                           |  | Opened 21:20 P.M.             |  |
|                                                                           |  | Pressures        |  | Pressures                                           |  | Opened _____ A.M.             |  |
|                                                                           |  | Pressures        |  | Pressures                                           |  | Bypass 00:21 P.M.             |  |
|                                                                           |  | Field Office     |  | Field Office                                        |  | Field Office                  |  |
| Initial Hydrostatic                                                       |  | 2158 2132        |  | 2164 2156                                           |  | Reported _____ Computed _____ |  |
| Flow Initial                                                              |  | 36 32            |  | 36 42                                               |  | Minutes _____ Minutes _____   |  |
| Flow Final                                                                |  | 179 191          |  | 197 204                                             |  | 45 46                         |  |
| Closed in                                                                 |  | 1165 1170        |  | 1176 1183                                           |  | 45 45                         |  |
| Flow Initial                                                              |  | 197 203          |  | 197 217                                             |  | 45 45                         |  |
| Flow Final                                                                |  | 287 303          |  | 304 314                                             |  | 46 46                         |  |
| Closed in                                                                 |  | 1147 1153        |  | 1158 1167                                           |  |                               |  |
| Flow Initial                                                              |  |                  |  |                                                     |  |                               |  |
| Flow Final                                                                |  |                  |  |                                                     |  |                               |  |
| Closed in                                                                 |  |                  |  |                                                     |  |                               |  |
| Final Hydrostatic                                                         |  | 2049 2059        |  | 2074 2079                                           |  |                               |  |

Legal Location NE - NW - NE - SEC. - 25-17S-28W

Field Area

Wildcat

County LANE

State KANSAS

Lease Name

Well No.

Test No.

Tested Interval 4253' - 4285'

BEREN CORPORATION  
Lease Owner/Company Name

|                   |                  |                  |                          |                                        |                  |                    |                  |                           |                                        |                   |                   |                  |                          |                                        |                  |
|-------------------|------------------|------------------|--------------------------|----------------------------------------|------------------|--------------------|------------------|---------------------------|----------------------------------------|-------------------|-------------------|------------------|--------------------------|----------------------------------------|------------------|
| Gauge No. 738     |                  |                  | Depth 4243'              |                                        |                  | Clock No. 2800     |                  |                           | 12 hour                                | Ticket No. 653374 |                   |                  |                          |                                        |                  |
| First Flow Period |                  |                  | First Closed In Pressure |                                        |                  | Second Flow Period |                  | Second Closed In Pressure |                                        |                   | Third Flow Period |                  | Third Closed In Pressure |                                        |                  |
|                   | Time Defl. .000" | PSIG Temp. Corr. | Time Defl. .000"         | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG Temp. Corr. | Time Defl. .000"   | PSIG Temp. Corr. | Time Defl. .000"          | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG Temp. Corr.  | Time Defl. .000"  | PSIG Temp. Corr. | Time Defl. .000"         | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG Temp. Corr. |
| 0                 | .000             | 32               | .000                     |                                        | 191              | .000               | 203              | .000                      |                                        | 303               |                   |                  |                          |                                        |                  |
| 1                 | .0404*           | 65               | .0602**                  |                                        | 967              | .0662***           | 225              | .0674****                 |                                        | 998               |                   |                  |                          |                                        |                  |
| 2                 | .0943            | 95               | .0870                    |                                        | 1032             | .1126              | 243              | .0943                     |                                        | 1041              |                   |                  |                          |                                        |                  |
| 3                 | .1483            | 119              | .1137                    |                                        | 1072             | .1589              | 259              | .1213                     |                                        | 1068              |                   |                  |                          |                                        |                  |
| 4                 | .2022            | 145              | .1405                    |                                        | 1097             | .2053              | 274              | .1483                     |                                        | 1089              |                   |                  |                          |                                        |                  |
| 5                 | .2561            | 168              | .1672                    |                                        | 1118             | .2516              | 288              | .1752                     |                                        | 1106              |                   |                  |                          |                                        |                  |
| 6                 | .3100            | 191              | .1940                    |                                        | 1132             | .2980              | 303              | .2022                     |                                        | 1120              |                   |                  |                          |                                        |                  |
| 7                 |                  |                  | .2207                    |                                        | 1145             |                    |                  | .2291                     |                                        | 1131              |                   |                  |                          |                                        |                  |
| 8                 |                  |                  | .2475                    |                                        | 1155             |                    |                  | .2561                     |                                        | 1140              |                   |                  |                          |                                        |                  |
| 9                 |                  |                  | .2742                    |                                        | 1163             |                    |                  | .2830                     |                                        | 1147              |                   |                  |                          |                                        |                  |
| 10                |                  |                  | .3010                    |                                        | 1170             |                    |                  | .3100                     |                                        | 1153              |                   |                  |                          |                                        |                  |
| 11                |                  |                  |                          |                                        |                  |                    |                  |                           |                                        |                   |                   |                  |                          |                                        |                  |
| 12                |                  |                  |                          |                                        |                  |                    |                  |                           |                                        |                   |                   |                  |                          |                                        |                  |
| 13                |                  |                  |                          |                                        |                  |                    |                  |                           |                                        |                   |                   |                  |                          |                                        |                  |
| 14                |                  |                  |                          |                                        |                  |                    |                  |                           |                                        |                   |                   |                  |                          |                                        |                  |
| 15                |                  |                  |                          |                                        |                  |                    |                  |                           |                                        |                   |                   |                  |                          |                                        |                  |

| Gauge No. 272      |        |     | Depth 4281' |  |      | Clock No. 2414 |     |           | 12 hour |      |  |         |  |  |  |
|--------------------|--------|-----|-------------|--|------|----------------|-----|-----------|---------|------|--|---------|--|--|--|
| 0                  | .000   | 42  | .000        |  | 204  | .000           | 217 | .000      |         | 314  |  |         |  |  |  |
| 1                  | .0395* | 78  | .0592**     |  | 980  | .0658***       | 238 | .0667**** |         | 1005 |  |         |  |  |  |
| 2                  | .0922  | 107 | .0855       |  | 1045 | .1118          | 254 | .0934     |         | 1052 |  |         |  |  |  |
| 3                  | .1449  | 133 | .1118       |  | 1084 | .1579          | 271 | .1201     |         | 1081 |  |         |  |  |  |
| 4                  | .1976  | 159 | .1381       |  | 1112 | .2039          | 288 | .1468     |         | 1102 |  |         |  |  |  |
| 5                  | .2503  | 182 | .1644       |  | 1132 | .2500          | 301 | .1735     |         | 1119 |  |         |  |  |  |
| 6                  | .3030  | 204 | .1908       |  | 1147 | .2960          | 314 | .2002     |         | 1133 |  |         |  |  |  |
| 7                  |        |     | .2171       |  | 1158 |                |     | .2269     |         | 1145 |  |         |  |  |  |
| 8                  |        |     | .2434       |  | 1168 |                |     | .2536     |         | 1154 |  |         |  |  |  |
| 9                  |        |     | .2697       |  | 1177 |                |     | .2803     |         | 1161 |  |         |  |  |  |
| 10                 |        |     | .2960       |  | 1183 |                |     | .3070     |         | 1167 |  |         |  |  |  |
| 11                 |        |     |             |  |      |                |     |           |         |      |  |         |  |  |  |
| 12                 |        |     |             |  |      |                |     |           |         |      |  |         |  |  |  |
| 13                 |        |     |             |  |      |                |     |           |         |      |  |         |  |  |  |
| 14                 |        |     |             |  |      |                |     |           |         |      |  |         |  |  |  |
| 15                 |        |     |             |  |      |                |     |           |         |      |  |         |  |  |  |
| Reading Interval 8 |        |     | 4           |  |      | 7              |     |           | 4       |      |  | Minutes |  |  |  |

REMARKS:

\* = 6 minutes \*\* = 9 minutes \*\*\* = 10 minutes \*\*\*\* = 10 minutes

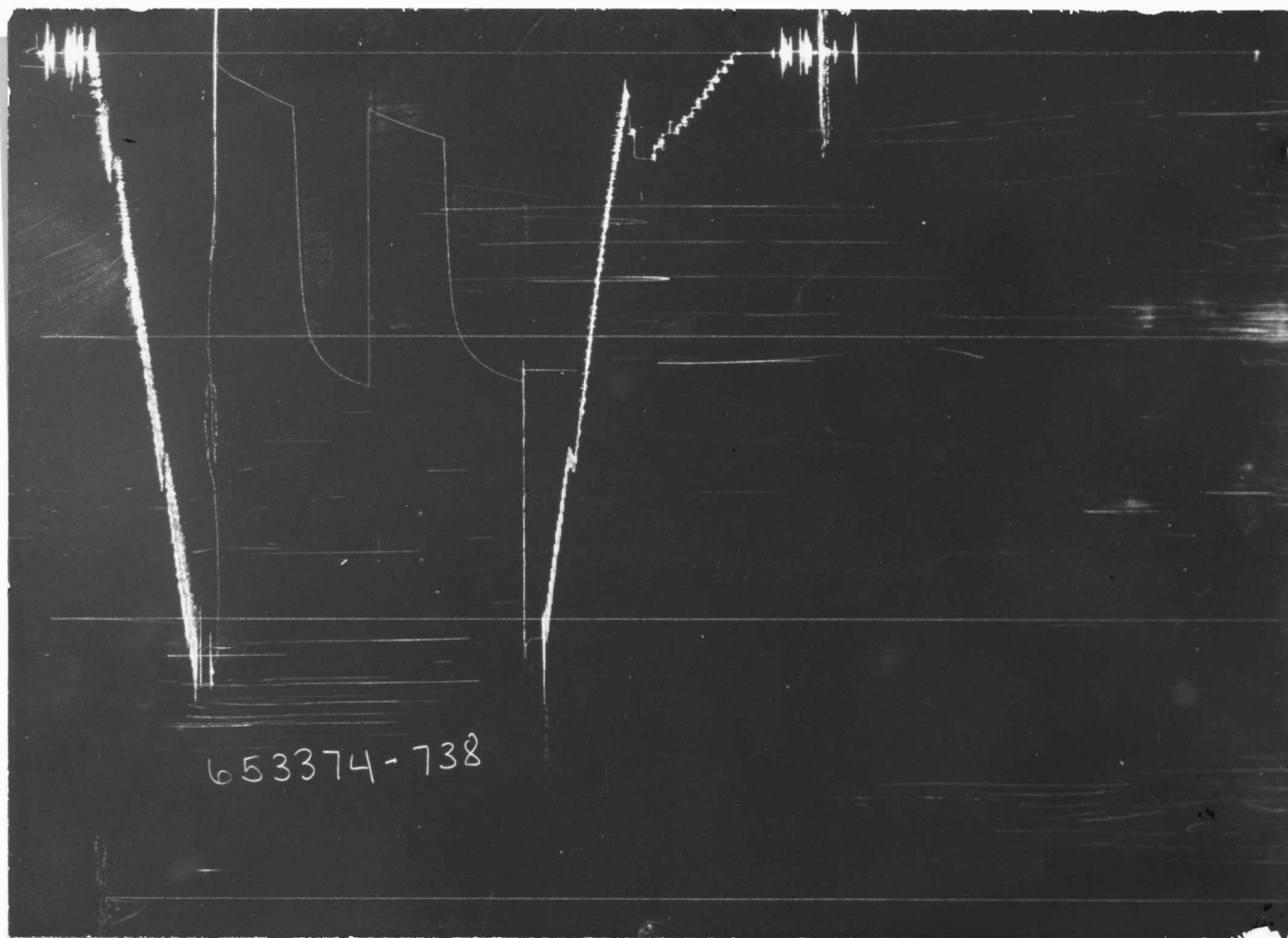
|                                     | O. D.  | I. D.  | LENGTH   | DEPTH |
|-------------------------------------|--------|--------|----------|-------|
| Drill Pipe or Tubing .....          | 5.75"  | 2.76"  | 1.00'    | 4113' |
| Reversing Sub .....                 |        |        |          |       |
| Water Cushion Valve .....           |        |        |          |       |
| Drill Pipe .....                    | 4 1/2" | 3.826" | 3408.04' |       |
| Flex Weight                         | 4.50"  | 2.764" | 821.32'  |       |
| Drill Collars .....                 |        |        |          |       |
| Handling Sub & Choke Assembly ..... |        |        |          |       |
| Dual CIP Valve .....                | 5.00"  | .87"   | 48.92"   |       |
| Dual CIP Sampler .....              |        |        |          |       |
| Hydro-Spring Tester .....           | 5.00"  | .75"   | 60.21"   | 4238' |
| Multiple CIP Sampler .....          |        |        |          |       |
| Extension Joint .....               |        |        |          |       |
| AP Running Case .....               | 5.00"  | 3.06"  | 49.63"   | 4243  |
| Hydraulic Jar .....                 |        |        |          |       |
| VR Safety Joint .....               |        |        |          |       |
| Pressure Equalizing Crossover ..... |        |        |          |       |
| Packer Assembly .....               |        |        |          |       |
| Distributor .....                   |        |        |          |       |
| Packer Assembly .....               | 6 3/4" | 1.53"  | 4.89'    | 4248' |
| Flush Joint Anchor .....            |        |        |          |       |
| Pressure Equalizing Tube .....      |        |        |          |       |
| Blanked-Off B.T. Running Case ..... |        |        |          |       |
| Drill Collars .....                 |        |        |          |       |
| Anchor Pipe Safety Joint .....      |        |        |          |       |
| Packer Assembly .....               | 6 3/4" | 1.53"  | 4.89'    | 4253' |
| Distributor .....                   |        |        |          |       |
| Packer Assembly .....               |        |        |          |       |
| Anchor Pipe Safety Joint .....      |        |        |          |       |
| Side Wall Anchor .....              |        |        |          |       |
| Drill Collars .....                 |        |        |          |       |
| Flush Joint Anchor .....            | 5.00"  | 3.84"  | 28.00'   |       |
| Blanked-Off B.T. Running Case ..... | 5.00"  | 3.06"  | 4.00'    | 4281' |
| Total Depth .....                   |        |        |          | 4285' |

TEMPERATURE  
RECORDER  
CHART

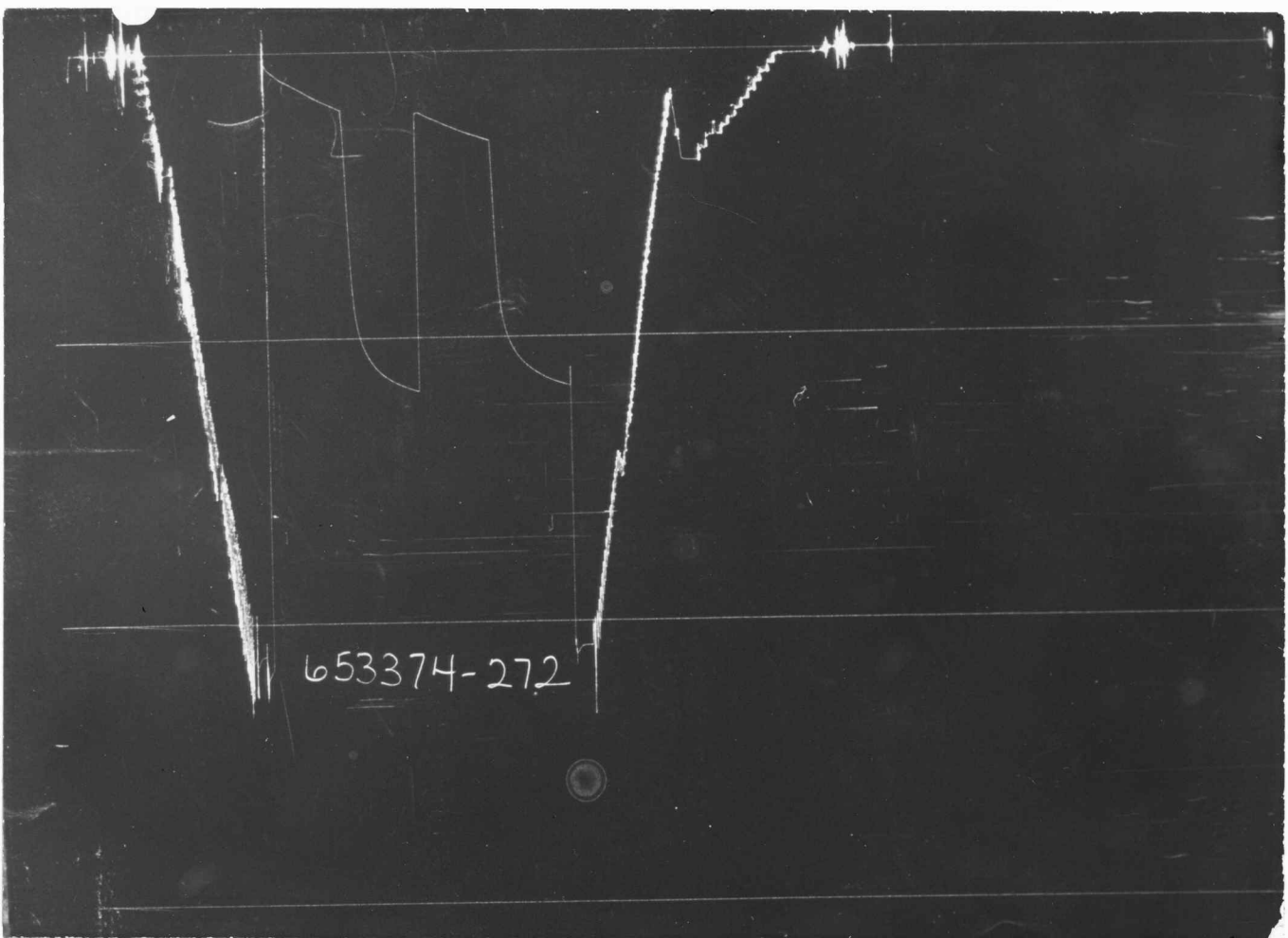


10° each circle

PRESSURE



TIME



Each Horizontal Line Equal to 1000 p.s.i.

| FLUID SAMPLE DATA                                                                            |             |                        |             | Date <b>7-21-74</b>                                      |            | Ticket Number <b>653375</b>      |           |
|----------------------------------------------------------------------------------------------|-------------|------------------------|-------------|----------------------------------------------------------|------------|----------------------------------|-----------|
| Sampler Pressure _____ P.S.I.G. at Surface                                                   |             |                        |             | Kind of Job <b>OPEN HOLE</b>                             |            | Halliburton District <b>HAYS</b> |           |
| Recovery: Cu. Ft. Gas _____                                                                  |             |                        |             | Tester <b>MR. BAIRD</b>                                  |            | Witness <b>MR. HOUSTON</b>       |           |
| cc. Oil _____                                                                                |             |                        |             | Drilling Contractor <b>RED TIGER DRILLING COMPANY DR</b> |            |                                  |           |
| cc. Water _____                                                                              |             |                        |             | <b>EQUIPMENT &amp; HOLE DATA</b>                         |            |                                  |           |
| cc. Mud _____                                                                                |             |                        |             |                                                          |            |                                  |           |
| Tot. Liquid cc. _____                                                                        |             |                        |             | Formation Tested <b>Kansas City</b>                      |            |                                  |           |
| Gravity _____ ° API @ _____ °F.                                                              |             |                        |             | Elevation <b>2033'</b> KB _____ Ft.                      |            |                                  |           |
| Gas/Oil Ratio _____ cu. ft./bbl.                                                             |             |                        |             | Net Productive Interval <b>??</b> _____ Ft.              |            |                                  |           |
| RESISTIVITY _____ CHLORIDE CONTENT _____                                                     |             |                        |             | All Depths Measured From <b>Kelly Bushing</b>            |            |                                  |           |
| Recovery Water _____ @ _____ °F. _____ ppm                                                   |             |                        |             | Total Depth <b>4335'</b> _____ Ft.                       |            |                                  |           |
| Recovery Mud _____ @ _____ °F. _____ ppm                                                     |             |                        |             | Main Hole/Casing Size <b>7 7/8"</b>                      |            |                                  |           |
| Recovery Mud Filtrate _____ @ _____ °F. _____ ppm                                            |             |                        |             | Drill Collar Length <b>821.32'</b> FWL.D. <b>2.764"</b>  |            |                                  |           |
| Mud Pit Sample _____ @ _____ °F. _____ ppm                                                   |             |                        |             | Drill Pipe Length <b>3440.34'</b> I.D. <b>3.826"</b>     |            |                                  |           |
| Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm                                          |             |                        |             | Packer Depth(s) <b>4282'-4287'</b> _____ Ft.             |            |                                  |           |
| Mud Weight <b>9.9</b> vis <b>45</b> cp                                                       |             |                        |             | Depth Tester Valve <b>4272'</b> _____ Ft.                |            |                                  |           |
| TYPE                                                                                         |             | AMOUNT                 |             | Depth Back Pres. Valve                                   |            | Surface Choke                    |           |
| Cushion                                                                                      |             |                        |             | Ft.                                                      |            | Bottom Choke <b>3/4"</b>         |           |
| Recovered <b>L0</b> Feet of rotary mud with a show of oil in it.                             |             |                        |             |                                                          |            |                                  |           |
| Recovered Feet of                                                                            |             |                        |             |                                                          |            |                                  |           |
| Recovered Feet of                                                                            |             |                        |             |                                                          |            |                                  |           |
| Recovered Feet of                                                                            |             |                        |             |                                                          |            |                                  |           |
| Recovered Feet of                                                                            |             |                        |             |                                                          |            |                                  |           |
| Remarks <b>Opened tool for 30 minute first flow with a weak blow, died in 7 minutes.</b>     |             |                        |             |                                                          |            |                                  |           |
| <b>Closed tool for 30 minute first closed in pressure. Reopened tool for 30 minute</b>       |             |                        |             |                                                          |            |                                  |           |
| <b>second flow with no blow at all. Closed tool for 31 minute second closed in pressure.</b> |             |                        |             |                                                          |            |                                  |           |
|                                                                                              |             |                        |             |                                                          |            |                                  |           |
|                                                                                              |             |                        |             |                                                          |            |                                  |           |
| TEMPERATURE                                                                                  |             | Gauge No. <b>738</b>   |             | Gauge No. <b>272</b>                                     |            | Gauge No.                        |           |
|                                                                                              |             | Depth: <b>4277</b> Ft. |             | Depth: <b>4331</b> Ft.                                   |            | Depth: _____ Ft.                 |           |
| Est. _____ °F.                                                                               |             | 12 Hour Clock          |             | 12 Hour Clock                                            |            | Hour Clock                       |           |
| Blanked Off <b>NO</b>                                                                        |             | Blanked Off <b>Yes</b> |             | Blanked Off                                              |            | TIME                             |           |
| <b>4330'</b>                                                                                 |             |                        |             |                                                          |            | Tool _____ A.M.                  |           |
| Actual <b>118 °F.</b>                                                                        |             |                        |             |                                                          |            | Opened <b>17:20 P.M.</b>         |           |
|                                                                                              |             | Pressures              |             | Pressures                                                |            | Opened <b>19:21 A.M.</b>         |           |
|                                                                                              |             | Pressures              |             | Pressures                                                |            | Bypass _____ P.M.                |           |
|                                                                                              | Field       | Office                 | Field       | Office                                                   | Field      | Office                           | Reported  |
| Initial Hydrostatic                                                                          | <b>2139</b> | <b>2091</b>            | <b>2200</b> | <b>2124</b>                                              |            |                                  | Minutes   |
| First Period Flow                                                                            | Initial     | <b>9</b>               | <b>12</b>   | <b>36</b>                                                | <b>38</b>  |                                  | Minutes   |
|                                                                                              | Final       | <b>9</b>               | <b>12</b>   | <b>36</b>                                                | <b>38</b>  |                                  |           |
|                                                                                              | Closed in   | <b>90</b>              | <b>97</b>   | <b>116</b>                                               | <b>121</b> |                                  | <b>30</b> |
| Second Period Flow                                                                           | Initial     | <b>9</b>               | <b>18</b>   | <b>36</b>                                                | <b>46</b>  |                                  |           |
|                                                                                              | Final       | <b>9</b>               | <b>15</b>   | <b>36</b>                                                | <b>39</b>  |                                  | <b>30</b> |
|                                                                                              | Closed in   | <b>36</b>              | <b>36</b>   | <b>63</b>                                                | <b>61</b>  |                                  | <b>31</b> |
| Third Period Flow                                                                            | Initial     |                        |             |                                                          |            |                                  |           |
|                                                                                              | Final       |                        |             |                                                          |            |                                  |           |
|                                                                                              | Closed in   |                        |             |                                                          |            |                                  |           |
| Final Hydrostatic                                                                            | <b>2103</b> | <b>2082</b>            | <b>2146</b> | <b>2113</b>                                              |            |                                  |           |

Legal Location **NE-NE-Sec. 25-17S-28W**

HARLAMMENT  
Lease Name

Well No. **1**  
Test No. **4**

4287'-4335'  
Tested Interval

Field Area **WILDCAT**

County **LANE**

State **KANSAS**

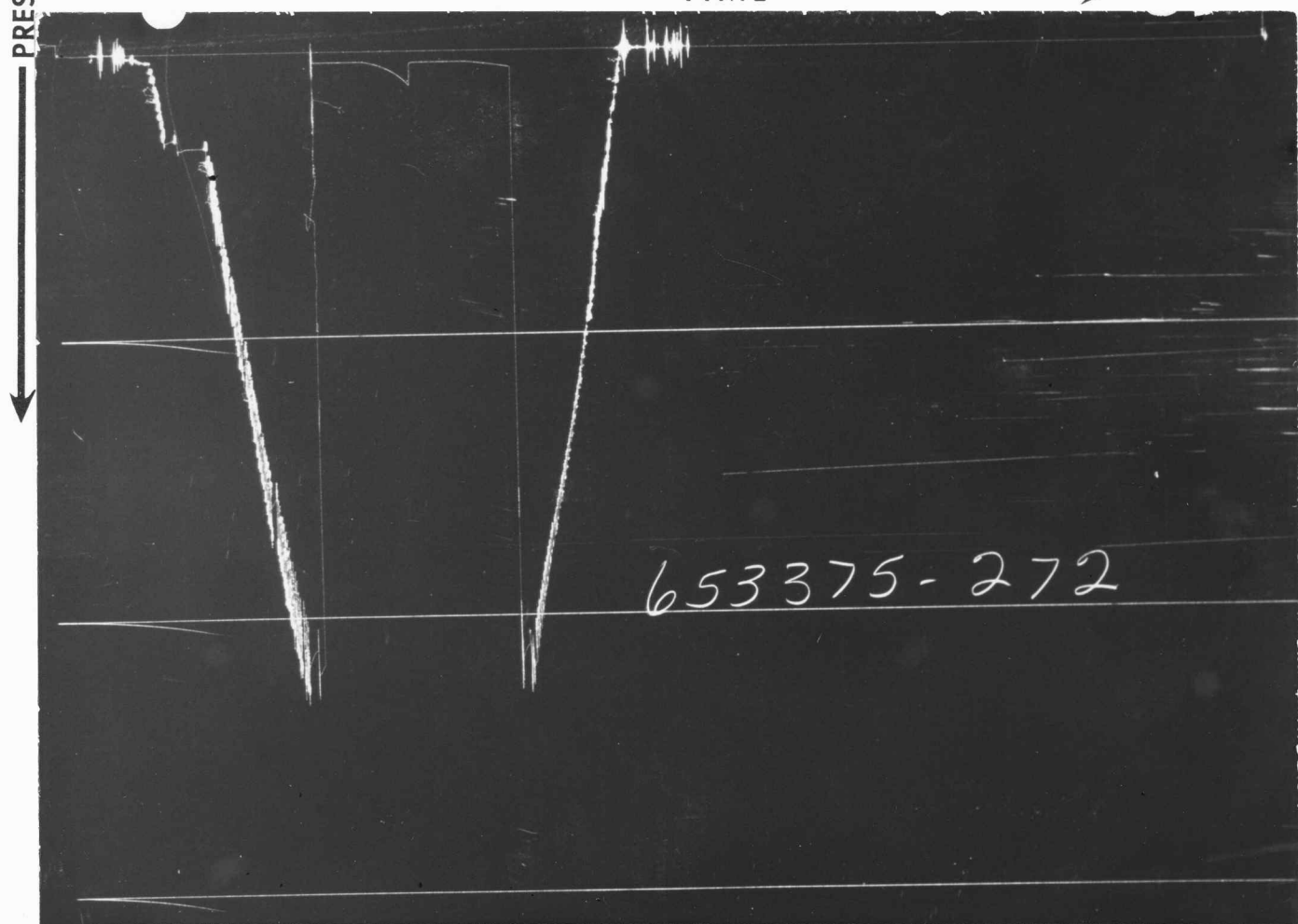
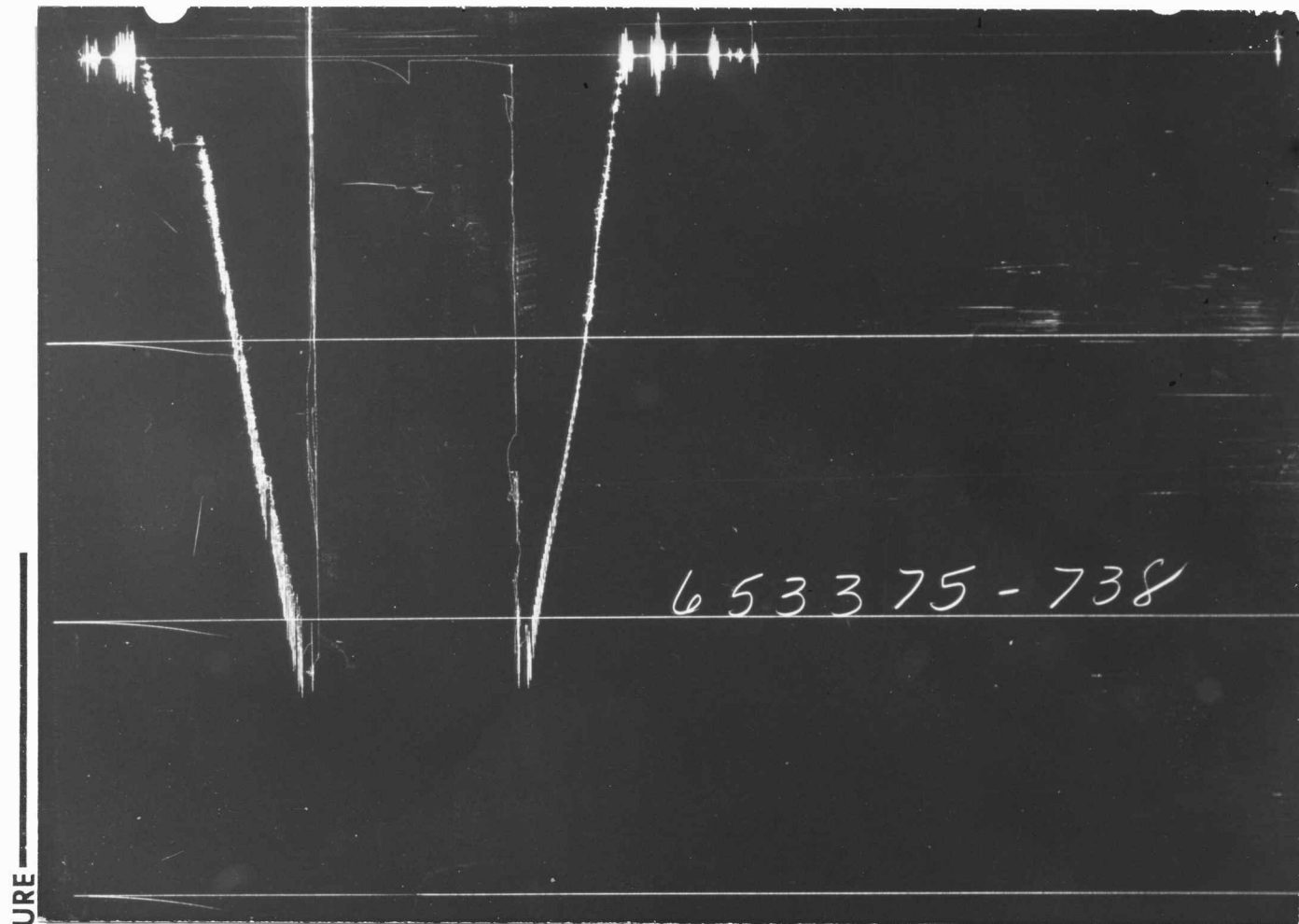
BEREN CORPORATION  
Lease Owner/Company Name

|                                     | O. D.  | I. D.  | LENGTH     | DEPTH       |
|-------------------------------------|--------|--------|------------|-------------|
| Drill Pipe or Tubing .....          | 5.75"  | 2.76"  | 1.00'      | 4147'       |
| Reversing Sub .....                 |        |        |            |             |
| Water Cushion Valve .....           |        |        |            |             |
| Drill Pipe .....                    | 4.50"  | 3.826" | 3440.34'   |             |
| Drill Collars .....                 | 4.50"  | 2.764" | 821.32' FW |             |
| Handling Sub & Choke Assembly ..... |        |        |            |             |
| Dual CIP Valve .....                | 5.00"  | .87"   | 48.92"     |             |
| Dual CIP Sampler .....              |        |        |            |             |
| Hydro-Spring Tester .....           | 5.00"  | .75"   | 60.21"     | 4272'       |
| Multiple CIP Sampler .....          |        |        |            |             |
| Extension Joint .....               |        |        |            |             |
| AP Running Case .....               | 5.00"  | 3.06"  | 49.63"     | 4277'       |
| Hydraulic Jar .....                 |        |        |            |             |
| VR Safety Joint .....               |        |        |            |             |
| Pressure Equalizing Crossover ..... |        |        |            |             |
| Packer Assembly .....               |        |        |            |             |
| Distributor .....                   |        |        |            |             |
| Packer Assembly .....               | 6 3/4" | 1.53"  | 4.89'      | 4282'       |
| Flush Joint Anchor .....            |        |        |            |             |
| Pressure Equalizing Tube .....      |        |        |            |             |
| Blanked-Off B.T. Running Case ..... |        |        |            |             |
| Drill Collars .....                 |        |        |            |             |
| Anchor Pipe Safety Joint .....      |        |        |            |             |
| Packer Assembly .....               | 6 3/4" | 1.53"  | 4.89'      | 4287'       |
| Distributor .....                   |        |        |            |             |
| Packer Assembly .....               |        |        |            |             |
| Anchor Pipe Safety Joint .....      |        |        |            |             |
| Side Wall Anchor .....              |        |        |            |             |
| Drill Collars .....                 | 4.50"  | 2.76"  | 31.00'     | Flex weight |
| Flush Joint Anchor .....            | 5.00"  | 3.84"  | 13.00'     |             |
| Blanked-Off B.T. Running Case ..... | 5.00"  | 3.06"  | 4.00'      | 4331'       |
| Total Depth .....                   |        |        |            |             |

TEMPERATURE  
RECORDER  
CHART



10° each circle



Each Horizontal Line Equal to 1000 p.s.i.

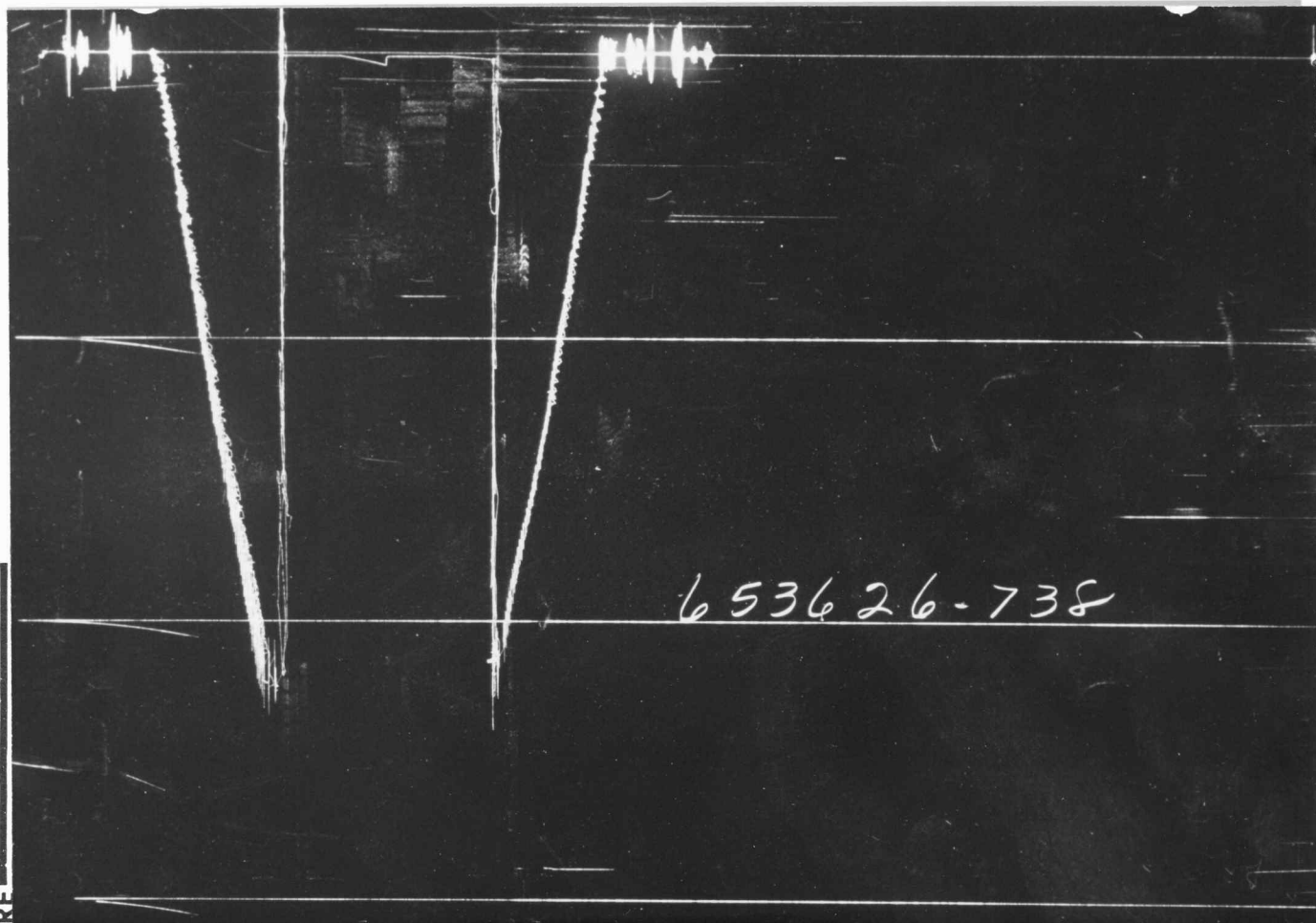


|                                         | O. D.  | I. D.  | LENGTH     | DEPTH |
|-----------------------------------------|--------|--------|------------|-------|
| Drill Pipe or Tubing . . . . .          | 5.75"  | 2.76"  | 1.00'      | 4187' |
| Reversing Sub . . . . .                 |        |        |            |       |
| Water Cushion Valve . . . . .           |        |        |            |       |
| Drill Pipe . . . . .                    | 4½"    | 3.826" | 348204'    |       |
| Drill Collars . . . . .                 | 4.50"  | 2.764" | 821.32' FW |       |
| Handling Sub & Choke Assembly . . . . . |        |        |            |       |
| Dual CIP Valve . . . . .                | 5.00"  | .87"   | 48.92"     |       |
| Dual CIP Sampler . . . . .              |        |        |            |       |
| Hydro-Spring Tester . . . . .           | 5.00"  | .75"   | 60.21"     | 4312' |
| Multiple CIP Sampler . . . . .          |        |        |            |       |
| Extension Joint . . . . .               |        |        |            |       |
| AP Running Case . . . . .               | 5.00"  | 3.06"  | 49.63"     | 4317' |
| Hydraulic Jar . . . . .                 |        |        |            |       |
| VR Safety Joint . . . . .               |        |        |            |       |
| Pressure Equalizing Crossover . . . . . |        |        |            |       |
| Packer Assembly . . . . .               |        |        |            |       |
| Distributor . . . . .                   |        |        |            |       |
| Packer Assembly . . . . .               | 6 3/4" | 1.53"  | 4.89'      | 4322' |
| Flush Joint Anchor . . . . .            |        |        |            |       |
| Pressure Equalizing Tube . . . . .      |        |        |            |       |
| Blanked-Off B.T. Running Case . . . . . |        |        |            |       |
| Drill Collars . . . . .                 |        |        |            |       |
| Anchor Pipe Safety Joint . . . . .      |        |        |            |       |
| Packer Assembly . . . . .               | 6 3/4" | 1.53"  | 4.89'      | 4327' |
| Distributor . . . . .                   |        |        |            |       |
| Packer Assembly . . . . .               |        |        |            |       |
| Anchor Pipe Safety Joint . . . . .      |        |        |            |       |
| Side Wall Anchor . . . . .              |        |        |            |       |
| Drill Collars . . . . .                 | 4.50"  | 2.76"  | 63.00'     |       |
| Flush Joint Anchor . . . . .            | 5.00"  | 3.84"  | 21.00'     |       |
| Blanked-Off B.T. Running Case . . . . . | 5.00"  | 3.06"  | 4.00'      | 4411' |
| Total Depth . . . . .                   |        |        |            |       |

TEMPERATURE  
RECORDER  
CHART



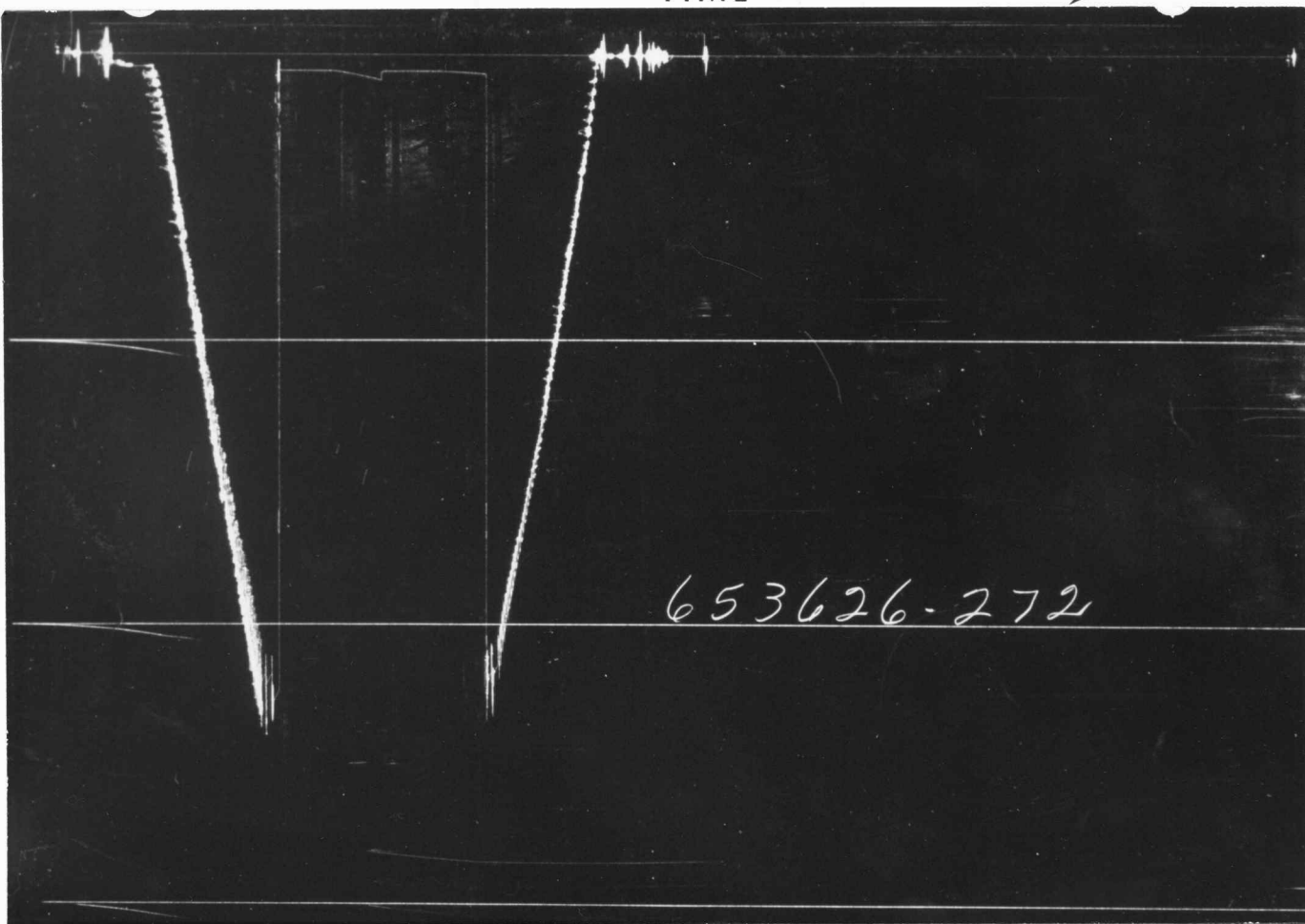
10° each circle



653626-738

PRESSURE

TIME



653626-272

Each Horizontal Line Equal to 1000 p.s.i.

| FLUID SAMPLE DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                             |                        |                                                                        | Date <b>7-23-74</b>                                                                                                                                                                       |                   | Ticket Number <b>653627</b> |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------|--------------------------|
| Sampler Pressure _____ P.S.I.G. at Surface<br>Recovery: Cu. Ft. Gas _____<br>cc. Oil _____<br>cc. Water _____<br>cc. Mud _____<br>Tot. Liquid cc. _____<br>Gravity _____ ° API @ _____ ° F.<br>Gas/Oil Ratio _____ cu. ft./bbl.<br><div style="display: flex; justify-content: space-around; font-size: small;"> <span>RESISTIVITY</span> <span>CHLORIDE CONTENT</span> </div> Recovery Water _____ @ _____ ° F. _____ ppm<br>Recovery Mud _____ @ _____ ° F. _____ ppm<br>Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm<br>Mud Pit Sample _____ @ _____ ° F. _____ ppm<br>Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm<br>Mud Weight _____ 9.4 vis _____ 45 cp |                                                             |                        |                                                                        | Kind of Job <b>OPEN HOLE TEST</b><br>Halliburton District <b>HAYS</b><br>Tester <b>MR. BAIRD</b> Witness <b>MR. HOUSTON</b><br>Drilling Contractor <b>RED TIGER DRILLING COMPANY</b> PW S |                   |                             |                          |
| EQUIPMENT & HOLE DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                             |                        |                                                                        |                                                                                                                                                                                           |                   |                             |                          |
| Formation Tested <b>Pawnee Rock</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                             |                        |                                                                        | Elevation <b>2733' K.B.</b> Ft.                                                                                                                                                           |                   |                             |                          |
| Net Productive Interval _____ Ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                             |                        |                                                                        | All Depths Measured From <b>Kelly Bushing</b>                                                                                                                                             |                   |                             |                          |
| Total Depth <b>4485'</b> Ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                             |                        |                                                                        | Main Hole/Casing Size <b>7 7/8"</b>                                                                                                                                                       |                   |                             |                          |
| Drill Collar Length _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             |                        |                                                                        | 821.32' I.D. <b>2.764"</b>                                                                                                                                                                |                   |                             |                          |
| Drill Pipe Length _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                             |                        |                                                                        | 3570.32' I.D. <b>3.826"</b>                                                                                                                                                               |                   |                             |                          |
| Packer Depth(s) _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                             |                        |                                                                        | 4415' - 4420' Ft.                                                                                                                                                                         |                   |                             |                          |
| Depth Tester Valve _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                             |                        |                                                                        | 4405' Ft.                                                                                                                                                                                 |                   |                             |                          |
| TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                             | AMOUNT                 |                                                                        | Depth Back                                                                                                                                                                                |                   | Surface                     |                          |
| Cushion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                             |                        |                                                                        | Ft. Pres. Valve                                                                                                                                                                           |                   | Choke                       |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                             |                        |                                                                        |                                                                                                                                                                                           |                   | <b>1/4"</b>                 |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                             |                        |                                                                        |                                                                                                                                                                                           |                   | Bottom Choke <b>3/4"</b>    |                          |
| Recovered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>70</b>                                                   | Feet of                | <b>Oil &amp; gas cut mud</b>                                           |                                                                                                                                                                                           |                   |                             |                          |
| Recovered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>120</b>                                                  | Feet of                | <b>Heavy oil &amp; gas cut mud</b>                                     |                                                                                                                                                                                           |                   |                             |                          |
| Recovered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>60</b>                                                   | Feet of                | <b>Heavy gasy froggy oil</b>                                           |                                                                                                                                                                                           |                   |                             |                          |
| Recovered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>60</b>                                                   | Feet of                | <b>Muddy oil</b>                                                       |                                                                                                                                                                                           |                   |                             |                          |
| Recovered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>60</b>                                                   | Feet of                | <b>Heavy oil &amp; gas cut wattery mud (30% oil-40% water-30% mud)</b> |                                                                                                                                                                                           |                   |                             |                          |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>60 Feet of Oil cut mud (5% oil- 30% mud - 65% water)</b> |                        |                                                                        |                                                                                                                                                                                           |                   |                             |                          |
| Opened tool for a 45 minute first flow period with a weak to fair blow.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                             |                        |                                                                        |                                                                                                                                                                                           |                   |                             |                          |
| Closed tool for a 46 minute initial closed in pressure. Reopened tool                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                             |                        |                                                                        |                                                                                                                                                                                           |                   |                             |                          |
| for a 61 minute second flow period with a steady to fair blow. Closed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                             |                        |                                                                        |                                                                                                                                                                                           |                   |                             |                          |
| tool for a 61 minute final closed in pressure. Tool off bottom.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                             |                        |                                                                        |                                                                                                                                                                                           |                   |                             |                          |
| TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                             | Gauge No. <b>738</b>   |                                                                        | Gauge No. <b>272</b>                                                                                                                                                                      |                   | Gauge No. _____             |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                             | Depth: <b>4410</b> Ft. |                                                                        | Depth: <b>4481</b> Ft.                                                                                                                                                                    |                   | Depth: _____ Ft.            |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                             | <b>12</b> Hour Clock   |                                                                        | <b>12</b> Hour Clock                                                                                                                                                                      |                   | Hour Clock                  |                          |
| Est. _____ ° F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Blanked Off <b>No</b>                                       |                        | Blanked Off <b>Yes</b>                                                 |                                                                                                                                                                                           | Blanked Off _____ |                             | TIME                     |
| <b>4480</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                             |                        |                                                                        |                                                                                                                                                                                           |                   |                             | Tool <b>A.M.</b>         |
| Actual <b>123 ° F.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                             |                        |                                                                        |                                                                                                                                                                                           |                   |                             | Opened <b>11:40 P.M.</b> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                             | Pressures              |                                                                        | Pressures                                                                                                                                                                                 |                   | Pressures                   |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Field                                                       | Office                 | Field                                                                  | Office                                                                                                                                                                                    | Field             | Office                      | Reported                 |
| Initial Hydrostatic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>2284</b>                                                 | <b>2265</b>            | <b>2309</b>                                                            | <b>2318</b>                                                                                                                                                                               |                   |                             | Minutes                  |
| First Period Flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Initial                                                     | <b>36</b>              | <b>14</b>                                                              | <b>54</b>                                                                                                                                                                                 | <b>58</b>         |                             |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Final                                                       | <b>99</b>              | <b>107</b>                                                             | <b>125</b>                                                                                                                                                                                | <b>140</b>        |                             |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Closed in                                                   | <b>1075</b>            | <b>1083</b>                                                            | <b>1123</b>                                                                                                                                                                               | <b>1119</b>       |                             |                          |
| Second Period Flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Initial                                                     | <b>108</b>             | <b>116</b>                                                             | <b>143</b>                                                                                                                                                                                | <b>153</b>        |                             |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Final                                                       | <b>188</b>             | <b>190</b>                                                             | <b>179</b>                                                                                                                                                                                | <b>224</b>        |                             |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Closed in                                                   | <b>1066</b>            | <b>1073</b>                                                            | <b>1105</b>                                                                                                                                                                               | <b>1108</b>       |                             |                          |
| Third Period Flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Initial                                                     |                        |                                                                        |                                                                                                                                                                                           |                   |                             |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Final                                                       |                        |                                                                        |                                                                                                                                                                                           |                   |                             |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Closed in                                                   |                        |                                                                        |                                                                                                                                                                                           |                   |                             |                          |
| Final Hydrostatic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>2230</b>                                                 | <b>2210</b>            | <b>2273</b>                                                            | <b>2251</b>                                                                                                                                                                               |                   |                             |                          |

Legal Location  
Sec. - Twp. - Rng. **NE-NE-NE-SEC. - 25 - 17S - 28W**

Lease Name

**HARLAMERT**

Well No.

**1**

Test No.

**6**

Tested Interval

**4420' - 4485'**

Field Area  
Med. From Tester Valve

County

**LANE**

State

**KANSAS**

Lease Owner/Company Name

**BEREN CORPORATION**

|                               | O. D.  | I. D.  | LENGTH   | DEPTH |
|-------------------------------|--------|--------|----------|-------|
| Drill Pipe or Tubing          | 5.75"  | 2.76"  | 4.00'    |       |
| Reversing Sub                 |        |        |          | 4280' |
| Water Cushion Valve           |        |        |          |       |
| Drill Pipe                    | 4 1/2" | 3.826" | 3570.32' |       |
| Drill Collars                 | 4.50"  | 2.764" | 821.32'  |       |
| Handling Sub & Choke Assembly |        |        |          |       |
| Dual CIP Valve                | 5.00"  | .87"   | 48.92"   |       |
| Dual CIP Sampler              |        |        |          |       |
| Hydro-Spring Tester           | 5.00"  | .75"   | 60.21"   | 4405' |
| Multiple CIP Sampler          |        |        |          |       |
| Extension Joint               |        |        |          |       |
| AP Running Case               | 5.00"  | 3.06"  | 49.63"   | 4410' |
| Hydraulic Jar                 |        |        |          |       |
| VR Safety Joint               |        |        |          |       |
| Pressure Equalizing Crossover |        |        |          |       |
| Packer Assembly               |        |        |          |       |
| Distributor                   |        |        |          |       |
| Packer Assembly               | 6 3/4" | 1.53"  | 4.89'    | 4415' |
| Flush Joint Anchor            |        |        |          |       |
| Pressure Equalizing Tube      |        |        |          |       |
| Blanked-Off B.T. Running Case |        |        |          |       |
| Drill Collars                 |        |        |          |       |
| Anchor Pipe Safety Joint      |        |        |          |       |
| Packer Assembly               | 6 3/4" | 1.53"  | 4.89'    | 4420' |
| Distributor                   |        |        |          |       |
| Packer Assembly               |        |        |          |       |
| Anchor Pipe Safety Joint      |        |        |          |       |
| Side Wall Anchor              |        |        |          |       |
| Drill Collars                 | 4.50"  | 2.76"  | 31.00'   |       |
| Flush Joint Anchor            | 5.00"  | 3.84"  | 30.00'   |       |
| Blanked-Off B.T. Running Case | 5.00"  | 3.06"  | 4.00'    | 4481' |
| Total Depth                   |        |        |          | 4485' |

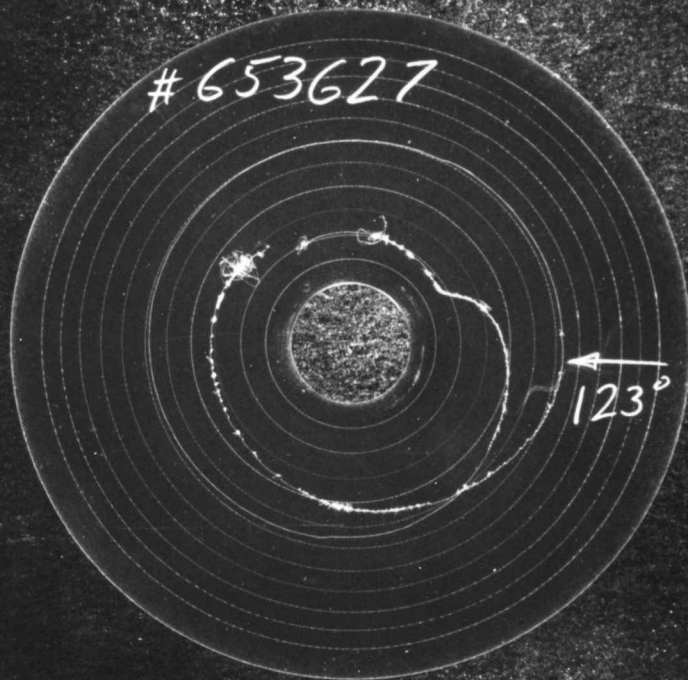
|                   |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |
|-------------------|---------------------|------------------------|--------------------------|----------------------------------------|------------------------|---------------------|------------------------|---------------------------|----------------------------------------|------------------------|---------------------|------------------------|--------------------------|----------------------------------------|------------------------|
| Gauge No. 738     |                     |                        |                          |                                        |                        | Depth 4410          |                        | Clock No. 2800            |                                        |                        | 12 hour             |                        | Ticket No. 653627        |                                        |                        |
| First Flow Period |                     |                        | First Closed In Pressure |                                        |                        | Second Flow Period  |                        | Second Closed In Pressure |                                        |                        | Third Flow Period   |                        | Third Closed In Pressure |                                        |                        |
|                   | Time Defl.<br>.000" | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000"      | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000" | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000"       | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000" | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000"      | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG<br>Temp.<br>Corr. |
| 0                 | .000                | 14                     | .000                     |                                        | 107                    | .000                | 116                    | .000                      |                                        | 190                    |                     |                        |                          |                                        |                        |
| 1                 | .0340               | 35                     | .0403*                   |                                        | 236                    | .0736**             | 133                    | .0466***                  |                                        | 556                    |                     |                        |                          |                                        |                        |
| 2                 | .0680               | 50                     | .0672                    |                                        | 424                    | .1405               | 146                    | .0865                     |                                        | 806                    |                     |                        |                          |                                        |                        |
| 3                 | .1020               | 60                     | .0940                    |                                        | 673                    | .2073               | 158                    | .1265                     |                                        | 906                    |                     |                        |                          |                                        |                        |
| 4                 | .1360               | 69                     | .1209                    |                                        | 839                    | .2742               | 168                    | .1664                     |                                        | 961                    |                     |                        |                          |                                        |                        |
| 5                 | .1700               | 77                     | .1478                    |                                        | 925                    | .3411               | 180                    | .2063                     |                                        | 995                    |                     |                        |                          |                                        |                        |
| 6                 | .2040               | 84                     | .1747                    |                                        | 977                    | .4080               | 190                    | .2463                     |                                        | 1020                   |                     |                        |                          |                                        |                        |
| 7                 | .2380               | 92                     | .2015                    |                                        | 1012                   |                     |                        | .2862                     |                                        | 1038                   |                     |                        |                          |                                        |                        |
| 8                 | .2720               | 99                     | .2284                    |                                        | 1037                   |                     |                        | .3261                     |                                        | 1051                   |                     |                        |                          |                                        |                        |
| 9                 | .3060               | 107                    | .2553                    |                                        | 1056                   |                     |                        | .3661                     |                                        | 1063                   |                     |                        |                          |                                        |                        |
| 10                |                     |                        | .2821                    |                                        | 1071                   |                     |                        | .4060                     |                                        | 1073                   |                     |                        |                          |                                        |                        |
| 11                |                     |                        | .3090                    |                                        | 1083                   |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |
| 12                |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |
| 13                |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |
| 14                |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |
| 15                |                     |                        |                          |                                        |                        |                     |                        |                           |                                        |                        |                     |                        |                          |                                        |                        |

| Gauge No. 272      |                     |                        | Depth 4481          |                                         |                        | Clock No. 2414      |                        |                     | 12 hour                                 |                        |  |         |
|--------------------|---------------------|------------------------|---------------------|-----------------------------------------|------------------------|---------------------|------------------------|---------------------|-----------------------------------------|------------------------|--|---------|
|                    | Time Defl.<br>.000" | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000" | $\text{Log } \frac{t + \theta}{\theta}$ | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000" | PSIG<br>Temp.<br>Corr. | Time Defl.<br>.000" | $\text{Log } \frac{t + \theta}{\theta}$ | PSIG<br>Temp.<br>Corr. |  |         |
| 0                  | .000                | 58                     | .000                |                                         | 140                    | .000                | 153                    | .000                |                                         | 224                    |  |         |
| 1                  | .0330               | 79                     | .0397*              |                                         | 270                    | .0725**             | 166                    | .0461***            |                                         | 607                    |  |         |
| 2                  | .0660               | 91                     | .0661               |                                         | 470                    | .1384               | 180                    | .0857               |                                         | 837                    |  |         |
| 3                  | .0990               | 96                     | .0925               |                                         | 715                    | .2043               | 192                    | .1252               |                                         | 940                    |  |         |
| 4                  | .1320               | 104                    | .1190               |                                         | 878                    | .2702               | 203                    | .1648               |                                         | 995                    |  |         |
| 5                  | .1650               | 111                    | .1454               |                                         | 964                    | .3361               | 213                    | .2043               |                                         | 1029                   |  |         |
| 6                  | .1980               | 119                    | .1718               |                                         | 1014                   | .4020               | 224                    | .2438               |                                         | 1055                   |  |         |
| 7                  | .2310               | 127                    | .1983               |                                         | 1049                   |                     |                        | .2834               |                                         | 1072                   |  |         |
| 8                  | .2640               | 134                    | .2247               |                                         | 1072                   |                     |                        | .3229               |                                         | 1088                   |  |         |
| 9                  | .2970               | 140                    | .2511               |                                         | 1092                   |                     |                        | .3625               |                                         | 1099                   |  |         |
| 10                 |                     |                        | .2776               |                                         | 1107                   |                     |                        | .4020               |                                         | 1108                   |  |         |
| 11                 |                     |                        | .3040               |                                         | 1119                   |                     |                        |                     |                                         |                        |  |         |
| 12                 |                     |                        |                     |                                         |                        |                     |                        |                     |                                         |                        |  |         |
| 13                 |                     |                        |                     |                                         |                        |                     |                        |                     |                                         |                        |  |         |
| 14                 |                     |                        |                     |                                         |                        |                     |                        |                     |                                         |                        |  |         |
| 15                 |                     |                        |                     |                                         |                        |                     |                        |                     |                                         |                        |  |         |
| Reading Interval 5 |                     |                        | 4                   |                                         |                        | 10                  |                        |                     | 6                                       |                        |  | Minutes |

REMARKS:

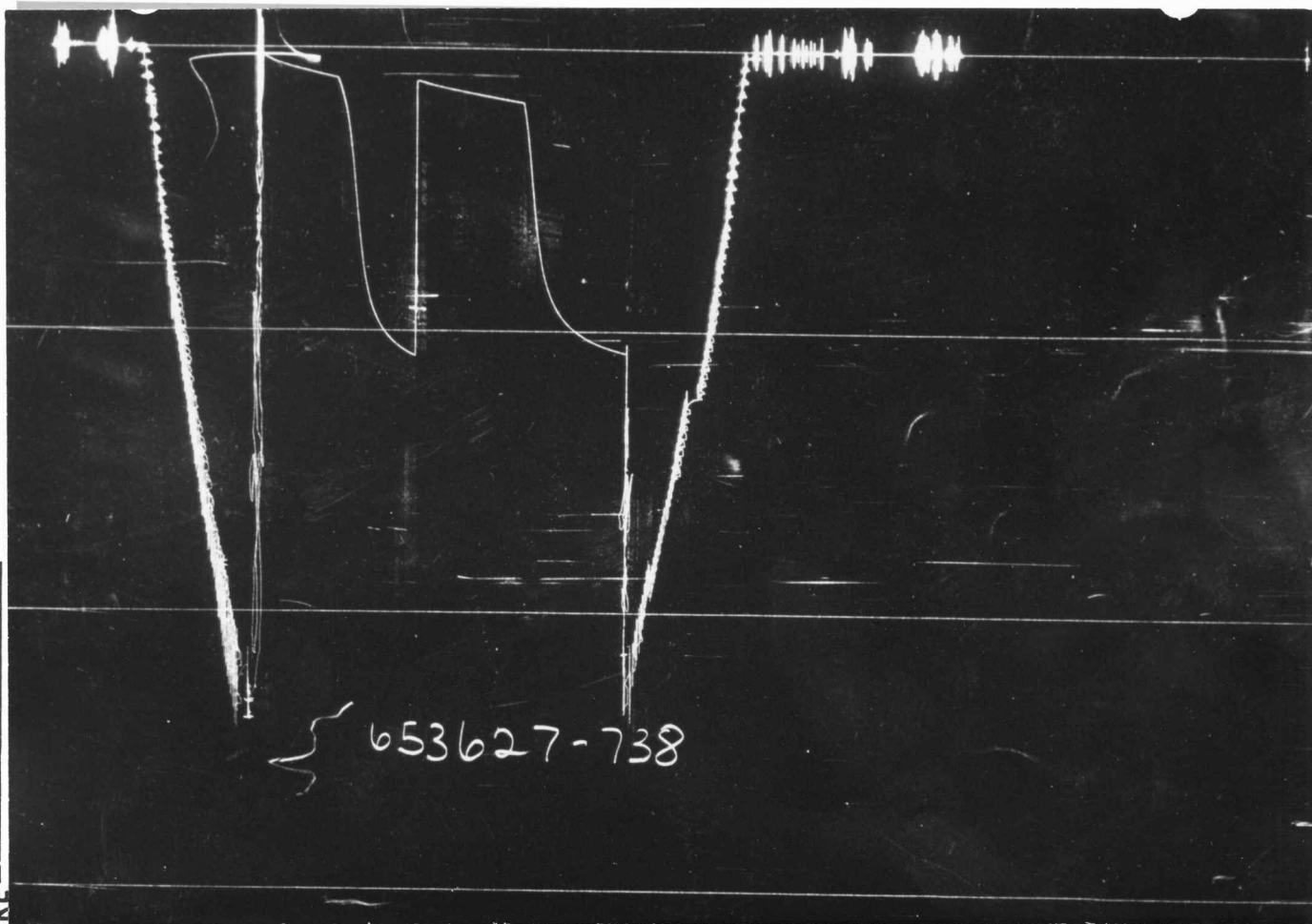
\* = 6 minutes \*\* = 11 minutes \*\*\* = 7 minutes

TEMPERATURE  
RECORDER  
CHART

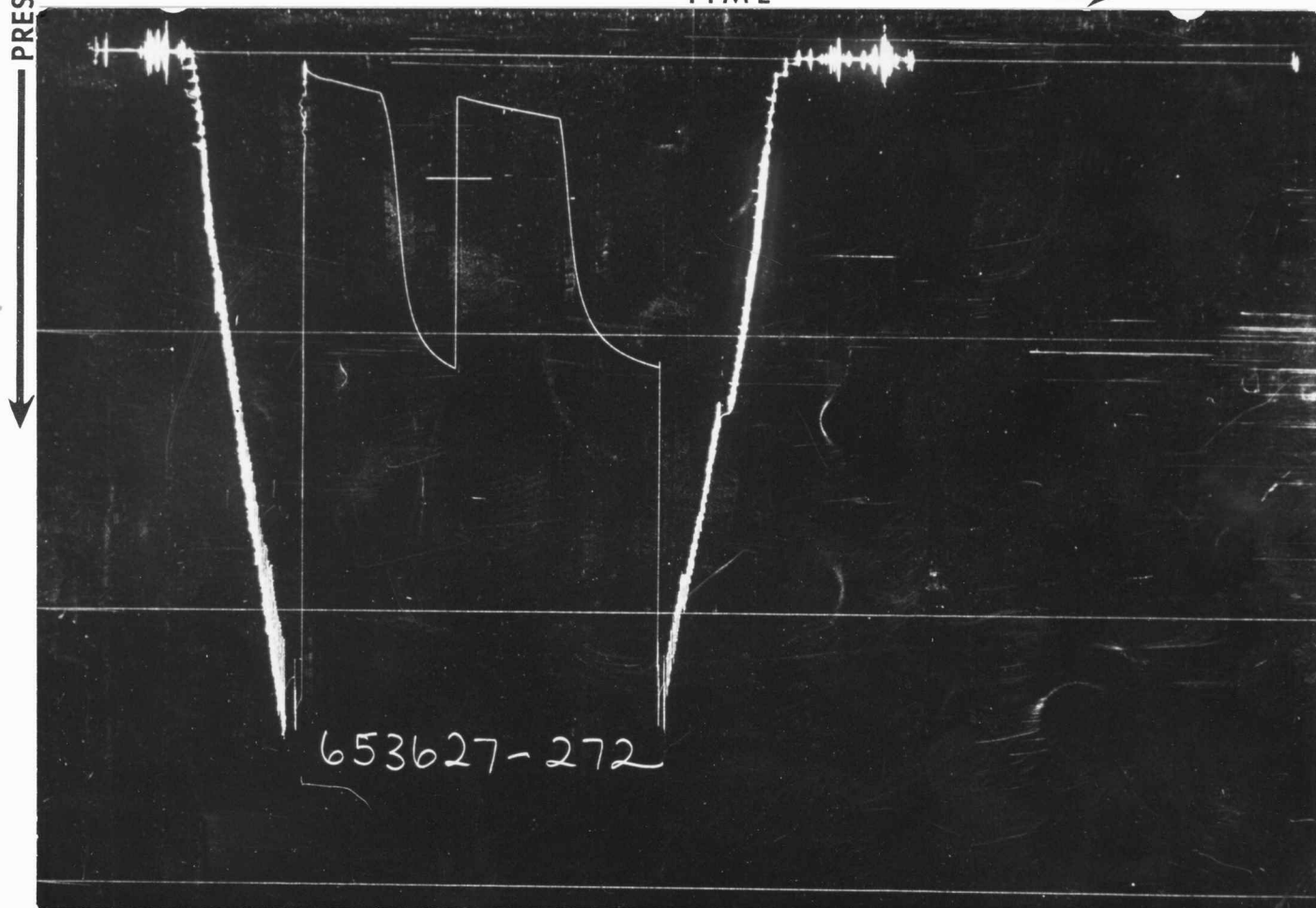


10° each circle

PRESSURE



TIME



Each Horizontal Line Equal to 1000 p.s.i.

| FLUID SAMPLE DATA                                                                                                                                                                                                                                             |             |                         |                                     | Date <b>7-24-74</b>                                   |           | Ticket Number <b>653628</b>      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|-------------------------------------|-------------------------------------------------------|-----------|----------------------------------|--|
| Sampler Pressure _____ P.S.I.G. at Surface<br>Recovery: Cu. Ft. Gas _____<br>cc. Oil _____<br>cc. Water _____<br>cc. Mud _____<br>Tot. Liquid cc. _____<br>Gravity _____ ° API @ _____ °F.<br>Gas/Oil Ratio _____ cu. ft./bbl.                                |             |                         |                                     | Kind of Job <b>OPEN HOLE</b>                          |           | Halliburton District <b>HAYS</b> |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Tester <b>MR. BAIRD</b>                               |           | Witness <b>MR. HOUSTON</b>       |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Drilling Contractor <b>RED TIGER DRILLING COMPANY</b> |           | <b>BC</b>                        |  |
| EQUIPMENT & HOLE DATA                                                                                                                                                                                                                                         |             |                         |                                     |                                                       |           |                                  |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Formation Tested <b>Fort Scott</b>                    |           |                                  |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Elevation <b>2733'</b>                                |           | <b>KB</b> Ft.                    |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Net Productive Interval <b>Unknown</b>                |           | Ft.                              |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | All Depths Measured From <b>Kelly Bushing</b>         |           | Ft.                              |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Total Depth <b>4515'</b>                              |           | Ft.                              |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Main Hole/Casing Size <b>7 7/8"</b>                   |           |                                  |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Drill Collar Length <b>WP 821.32'</b>                 |           | I.D. <b>2.764"</b>               |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Drill Pipe Length <b>3629.04'</b>                     |           | I.D. <b>3.826"</b>               |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Packer Depth(s) <b>4469' - 4474'</b>                  |           | Ft.                              |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     | Depth Tester Valve <b>4459'</b>                       |           | Ft.                              |  |
| TYPE                                                                                                                                                                                                                                                          |             | AMOUNT                  |                                     | Depth Back Pres. Valve                                |           | Surface Choke                    |  |
| Cushion                                                                                                                                                                                                                                                       |             |                         |                                     | Ft.                                                   |           | <b>1/4"</b>                      |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     |                                                       |           | Bottom Choke <b>3/4"</b>         |  |
| Recovered                                                                                                                                                                                                                                                     | <b>10</b>   | Feet of                 | Rotary mud with a show of oil in it |                                                       |           |                                  |  |
| Recovered                                                                                                                                                                                                                                                     |             | Feet of                 |                                     |                                                       |           |                                  |  |
| Recovered                                                                                                                                                                                                                                                     |             | Feet of                 |                                     |                                                       |           |                                  |  |
| Recovered                                                                                                                                                                                                                                                     |             | Feet of                 |                                     |                                                       |           |                                  |  |
| Recovered                                                                                                                                                                                                                                                     |             | Feet of                 |                                     |                                                       |           |                                  |  |
| Remarks <b>Tool opened for a 30 minute first flow with a weak blow that died in 7 minutes. Closed tool for 30 minute first closed in pressure. Reopened tool for 30 minute second flow with no blow. Closed tool for 31 minute second closed in pressure.</b> |             |                         |                                     |                                                       |           |                                  |  |
| TEMPERATURE                                                                                                                                                                                                                                                   |             | Gauge No. <b>738</b>    |                                     | Gauge No. <b>272</b>                                  |           | Gauge No.                        |  |
|                                                                                                                                                                                                                                                               |             | Depth: <b>4464'</b> Ft. |                                     | Depth: <b>4511'</b> Ft.                               |           | Depth: _____ Ft.                 |  |
|                                                                                                                                                                                                                                                               |             | <b>12</b> Hour Clock    |                                     | <b>12</b> Hour Clock                                  |           | Hour Clock                       |  |
| Est. _____ °F.                                                                                                                                                                                                                                                |             | Blanked Off <b>NO</b>   |                                     | Blanked Off <b>YES</b>                                |           | Blanked Off _____                |  |
| <b>4510'</b>                                                                                                                                                                                                                                                  |             |                         |                                     |                                                       |           |                                  |  |
| Actual <b>119 °F.</b>                                                                                                                                                                                                                                         |             | Pressures               |                                     | Pressures                                             |           | Pressures                        |  |
|                                                                                                                                                                                                                                                               | Field       | Office                  | Field                               | Office                                                | Field     | Office                           |  |
| Initial Hydrostatic                                                                                                                                                                                                                                           | <b>2303</b> | <b>2226</b>             | <b>2345</b>                         | <b>2260</b>                                           |           |                                  |  |
| First Period Flow                                                                                                                                                                                                                                             | Initial     | <b>9</b>                | <b>10</b>                           | <b>27</b>                                             | <b>35</b> |                                  |  |
|                                                                                                                                                                                                                                                               | Final       | <b>9</b>                | <b>10</b>                           | <b>36</b>                                             | <b>35</b> |                                  |  |
|                                                                                                                                                                                                                                                               | Closed in   | <b>45</b>               | <b>38</b>                           | <b>72</b>                                             | <b>62</b> |                                  |  |
| Second Period Flow                                                                                                                                                                                                                                            | Initial     | <b>9</b>                | <b>12</b>                           | <b>36</b>                                             | <b>37</b> |                                  |  |
|                                                                                                                                                                                                                                                               | Final       | <b>9</b>                | <b>12</b>                           | <b>36</b>                                             | <b>37</b> |                                  |  |
|                                                                                                                                                                                                                                                               | Closed in   | <b>18</b>               | <b>22</b>                           | <b>45</b>                                             | <b>45</b> |                                  |  |
| Third Period Flow                                                                                                                                                                                                                                             | Initial     |                         |                                     |                                                       |           |                                  |  |
|                                                                                                                                                                                                                                                               | Final       |                         |                                     |                                                       |           |                                  |  |
|                                                                                                                                                                                                                                                               | Closed in   |                         |                                     |                                                       |           |                                  |  |
| Final Hydrostatic                                                                                                                                                                                                                                             | <b>2266</b> | <b>2226</b>             | <b>2291</b>                         | <b>2260</b>                                           |           |                                  |  |
|                                                                                                                                                                                                                                                               |             |                         |                                     |                                                       |           |                                  |  |

 Legal Location **NE NW NE 25 - 17S - 28W**

 HARLAMERT  
 Lease Name

 1  
 Well No.  
 7  
 Test No.

 4474' - 4515'  
 Tested Interval

 Field Area **WILDCAT**

County

LANE

State

KANSAS

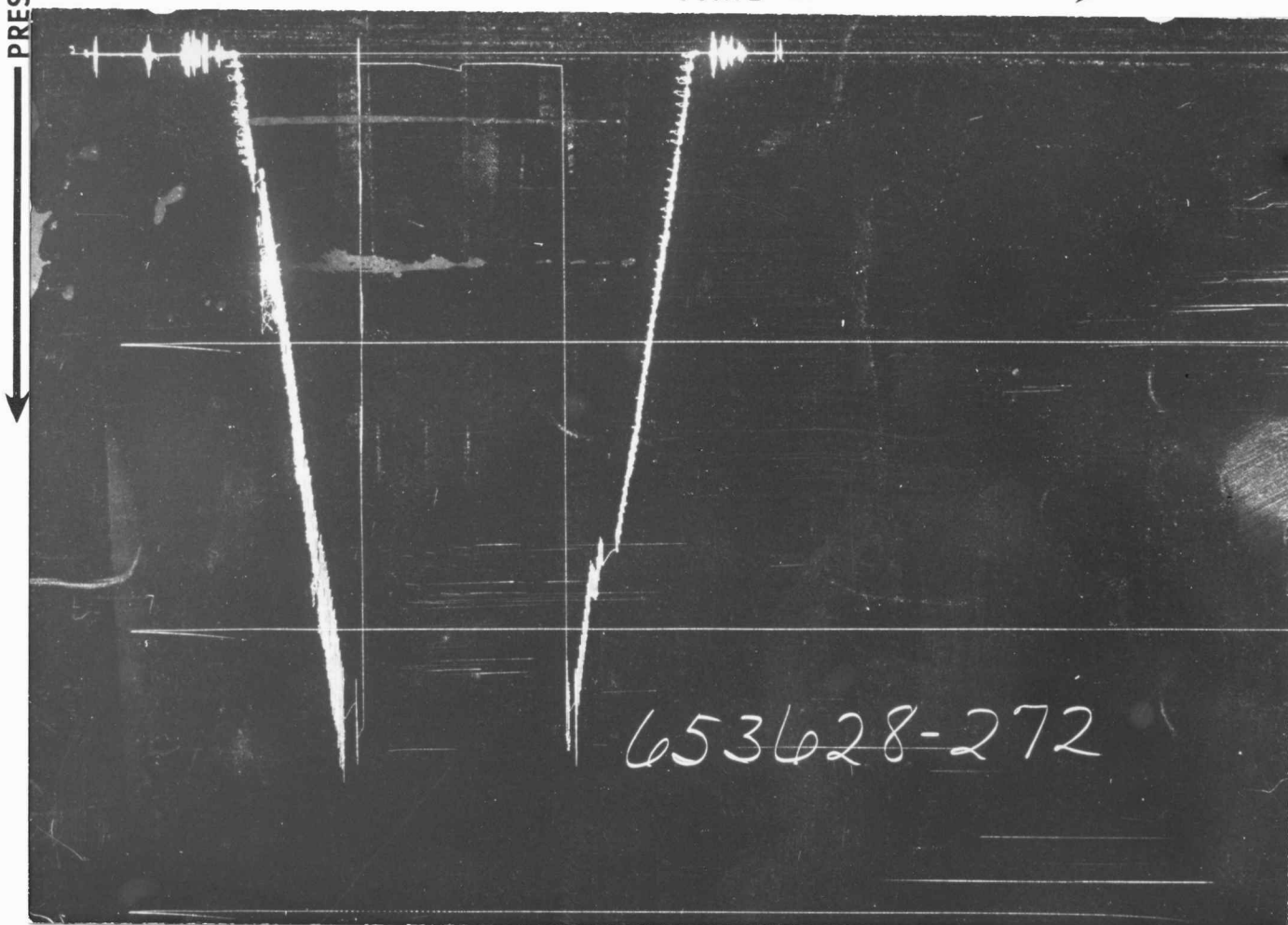
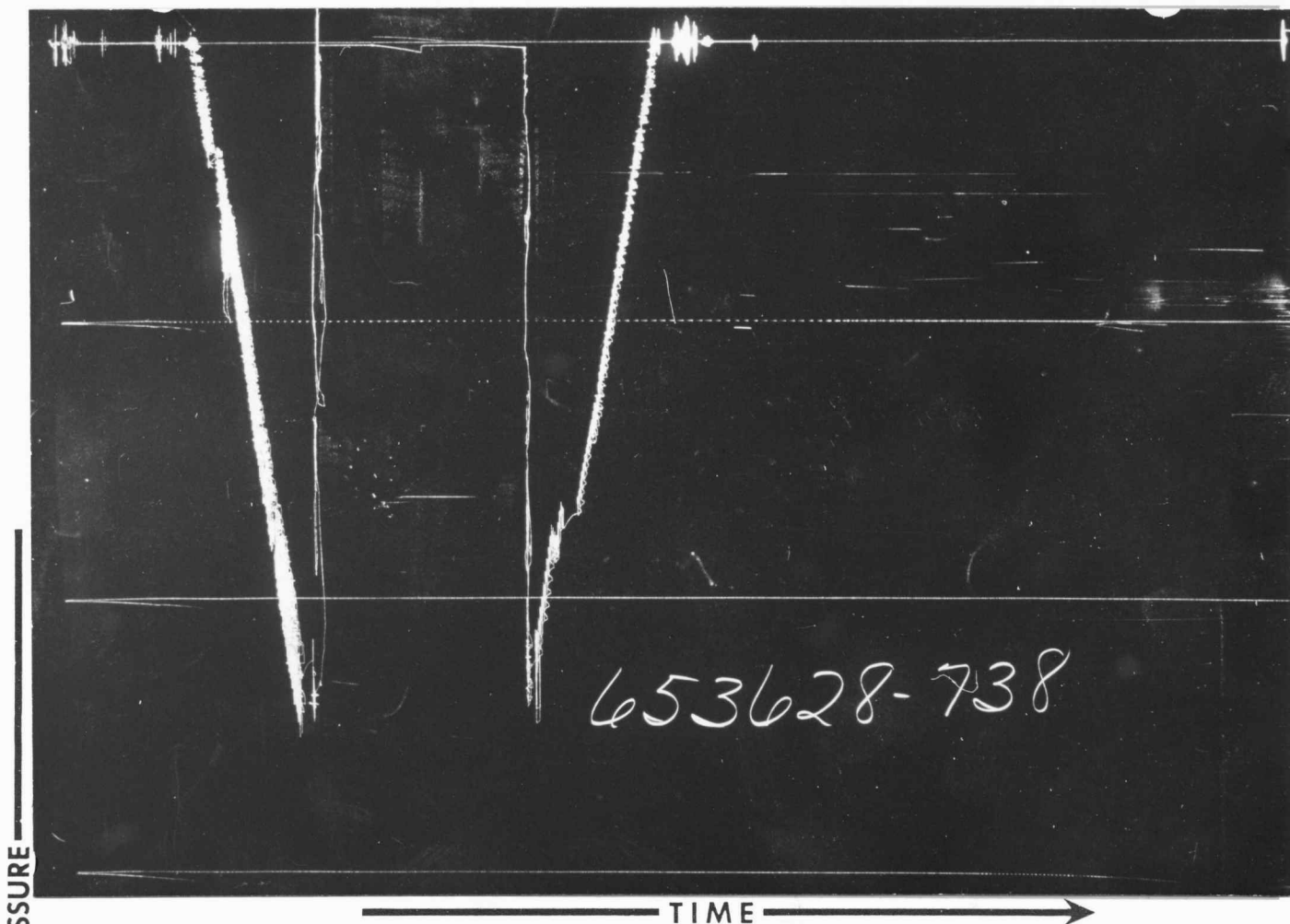
 BEREN CORPORATION  
 Lease Owner/Company Name

|                                     | O. D.    | I. D.  | LENGTH   | DEPTH |
|-------------------------------------|----------|--------|----------|-------|
| Drill Pipe or Tubing .....          | 5.75"    | 2.76"  | 1'       | 4334' |
| Reversing Sub .....                 |          |        |          |       |
| Water Cushion Valve .....           |          |        |          |       |
| Drill Pipe .....                    | 4.50"    | 3.826" | 3629.04' |       |
| Drill Collars .....                 | 4.50" WP | 2.764" | 821.32'  |       |
| Handling Sub & Choke Assembly ..... |          |        |          |       |
| Dual CIP Valve .....                | 5"       | .87"   | 48.92"   |       |
| Dual CIP Sampler .....              |          |        |          |       |
| Hydro-Spring Tester .....           | 5"       | .75"   | 60.21"   | 4459' |
| Multiple CIP Sampler .....          |          |        |          |       |
| Extension Joint .....               |          |        |          |       |
| AP Running Case .....               | 5"       | 3.06"  | 49.63"   | 4464' |
| Hydraulic Jar .....                 |          |        |          |       |
| VR Safety Joint .....               |          |        |          |       |
| Pressure Equalizing Crossover ..... |          |        |          |       |
| Packer Assembly .....               |          |        |          |       |
| Distributor .....                   |          |        |          |       |
| Packer Assembly .....               | 6 3/4"   | 1.53"  | 4.89'    | 4469' |
| Flush Joint Anchor .....            |          |        |          |       |
| Pressure Equalizing Tube .....      |          |        |          |       |
| Blanked-Off B.T. Running Case ..... |          |        |          |       |
| Drill Collars .....                 |          |        |          |       |
| Anchor Pipe Safety Joint .....      |          |        |          |       |
| Packer Assembly .....               | 6 3/4"   | 1.53"  | 4.89'    | 4474' |
| Distributor .....                   |          |        |          |       |
| Packer Assembly .....               |          |        |          |       |
| Anchor Pipe Safety Joint .....      |          |        |          |       |
| Side Wall Anchor .....              |          |        |          |       |
| Drill Collars .....                 |          |        |          |       |
| Flush Joint Anchor .....            | 5"       | 3.84"  | 37'      |       |
| Blanked-Off B.T. Running Case ..... | 5"       | 3.06"  | 4'       | 4511' |
| Total Depth .....                   |          |        |          | 4515' |

TEMPERATURE  
RECORDER  
CHART



10° each circle



Each Horizontal Line Equal to 1000 p.s.i.

Legal Location  
Sec. - Twp. - Rng. NE-NW-NE-SEC. 25-17S-28WField Area  
WILDCATCounty  
LANEState  
KANSAS

|                                                                                    |  |                              |  |                                                     |  |                           |  |
|------------------------------------------------------------------------------------|--|------------------------------|--|-----------------------------------------------------|--|---------------------------|--|
| FLUID SAMPLE DATA                                                                  |  |                              |  | Date 7-25-74                                        |  | Ticket Number 653629      |  |
| Sampler Pressure _____ P.S.I.G. at Surface                                         |  |                              |  | Kind of Job OPEN HOLE                               |  | Halliburton District HAYS |  |
| Recovery: Cu. Ft. Gas _____                                                        |  |                              |  | Tester MR. BAIRD                                    |  | Witness MR. HOUSTON       |  |
| cc. Oil _____                                                                      |  |                              |  | Drilling Contractor RED TIGER DRILLING COMPANY DR S |  |                           |  |
| cc. Water _____                                                                    |  |                              |  | EQUIPMENT & HOLE DATA                               |  |                           |  |
| cc. Mud _____                                                                      |  |                              |  | Formation Tested Cherokee Sand                      |  |                           |  |
| Tot. Liquid cc. _____                                                              |  |                              |  | Elevation 2733' KB                                  |  |                           |  |
| Gravity 36.6 ° API @ 60 ° F.                                                       |  |                              |  | Net Productive Interval ??                          |  |                           |  |
| Gas/Oil Ratio _____ cu. ft./bbl.                                                   |  |                              |  | All Depths Measured From Kelly Bushing              |  |                           |  |
| RESISTIVITY _____ CHLORIDE CONTENT _____                                           |  |                              |  | Total Depth 4585'                                   |  |                           |  |
| Recovery Water _____ @ _____ ° F. _____ ppm                                        |  |                              |  | Main Hole/Casing Size 7 7/8"                        |  |                           |  |
| Recovery Mud _____ @ _____ ° F. _____ ppm                                          |  |                              |  | Drill Collar Length 821.32' I.D. 2.764" FW          |  |                           |  |
| Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm                                 |  |                              |  | Drill Pipe Length 3715.04' I.D. 3.826"              |  |                           |  |
| Mud Pit Sample _____ @ _____ ° F. _____ ppm                                        |  |                              |  | Packer Depth(s) 4555'-4560'                         |  |                           |  |
| Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm                               |  |                              |  | Depth Tester Valve 4545'                            |  |                           |  |
| Mud Weight 9.5 vis 50 cp                                                           |  |                              |  |                                                     |  |                           |  |
| TYPE                                                                               |  | AMOUNT                       |  | Depth Back Pres. Valve                              |  | Surface Choke             |  |
| Cushion                                                                            |  |                              |  | Ft.                                                 |  | Bottom Choke 3/4"         |  |
| Recovered 400                                                                      |  | Feet of free clean gassy oil |  |                                                     |  |                           |  |
| Recovered 240                                                                      |  | Feet of mud cut oil          |  |                                                     |  |                           |  |
| Recovered                                                                          |  | Feet of                      |  |                                                     |  |                           |  |
| Recovered                                                                          |  | Feet of                      |  |                                                     |  |                           |  |
| Recovered                                                                          |  | Feet of                      |  |                                                     |  |                           |  |
| Remarks Opened tool for 45 minute first flow with a weak to a strong blow.         |  |                              |  |                                                     |  |                           |  |
| Closed tool for 56 minute first closed in pressure. Reopened tool for 45 minute    |  |                              |  |                                                     |  |                           |  |
| second flow with a strong blow throughout. Closed tool for 41 minute second closed |  |                              |  |                                                     |  |                           |  |
| in pressure.                                                                       |  |                              |  |                                                     |  |                           |  |
| TEMPERATURE                                                                        |  | Gauge No. 738                |  | Gauge No. 272                                       |  | Gauge No.                 |  |
|                                                                                    |  | Depth: 4550 Ft.              |  | Depth: 4581 Ft.                                     |  | Depth: Ft.                |  |
|                                                                                    |  | 12 Hour Clock                |  | 12 Hour Clock                                       |  | Hour Clock                |  |
| Est. ° F.                                                                          |  | Blanked Off No               |  | Blanked Off Yes                                     |  | Blanked Off               |  |
| 4580'                                                                              |  |                              |  |                                                     |  |                           |  |
| Actual 124 ° F.                                                                    |  | Pressures                    |  | Pressures                                           |  | Pressures                 |  |
|                                                                                    |  | Field Office                 |  | Field Office                                        |  | Field Office              |  |
| Initial Hydrostatic                                                                |  | 2339 2338                    |  | 2363 2366                                           |  |                           |  |
| First Period Flow Initial                                                          |  | 9 15                         |  | 27 31                                               |  |                           |  |
| Final                                                                              |  | 161 161                      |  | 170 175                                             |  |                           |  |
| Closed in                                                                          |  | 842 846                      |  | 855 856                                             |  |                           |  |
| Second Period Flow Initial                                                         |  | 170 179                      |  | 179 195                                             |  |                           |  |
| Final                                                                              |  | 251 253                      |  | 268 265                                             |  |                           |  |
| Closed in                                                                          |  | 627 638                      |  | 660 651                                             |  |                           |  |
| Third Period Flow Initial                                                          |  |                              |  |                                                     |  |                           |  |
| Final                                                                              |  |                              |  |                                                     |  |                           |  |
| Closed in                                                                          |  |                              |  |                                                     |  |                           |  |
| Final Hydrostatic                                                                  |  | 2266 2264                    |  | 2291 2283                                           |  |                           |  |
|                                                                                    |  |                              |  |                                                     |  |                           |  |

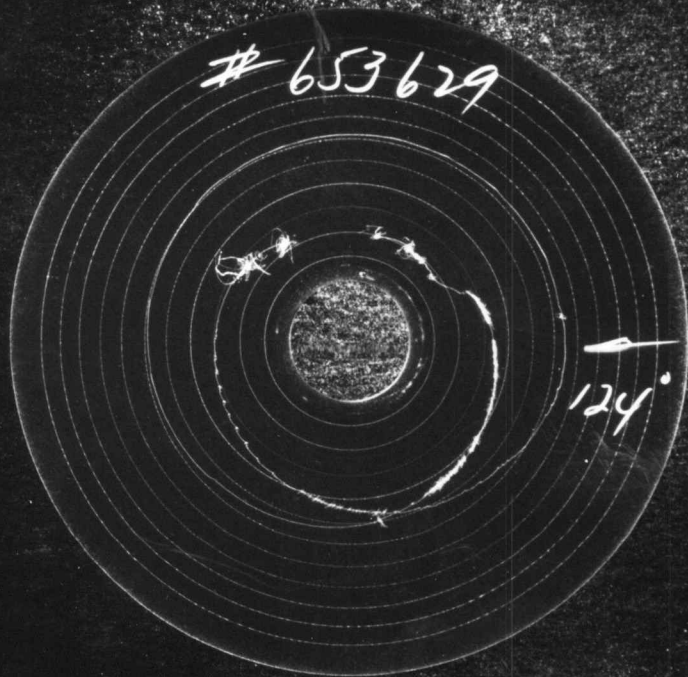
|                   |                     |                     |                          |                                        |                     |                     |                     |                           |                                        |                     |                     |                     |                          |                                        |                     |
|-------------------|---------------------|---------------------|--------------------------|----------------------------------------|---------------------|---------------------|---------------------|---------------------------|----------------------------------------|---------------------|---------------------|---------------------|--------------------------|----------------------------------------|---------------------|
| Gauge No. 738     |                     |                     | Depth 4550'              |                                        |                     | Clock No. 2800      |                     |                           | 12 hour                                | Ticket No. 653629   |                     |                     |                          |                                        |                     |
| First Flow Period |                     |                     | First Closed In Pressure |                                        |                     | Second Flow Period  |                     | Second Closed In Pressure |                                        |                     | Third Flow Period   |                     | Third Closed In Pressure |                                        |                     |
|                   | Time Defl.<br>.000" | PSIG Temp.<br>Corr. | Time Defl.<br>.000"      | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG Temp.<br>Corr. | Time Defl.<br>.000" | PSIG Temp.<br>Corr. | Time Defl.<br>.000"       | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG Temp.<br>Corr. | Time Defl.<br>.000" | PSIG Temp.<br>Corr. | Time Defl.<br>.000"      | $\text{Log} \frac{t + \theta}{\theta}$ | PSIG Temp.<br>Corr. |
| 0                 | .000                | 15                  | .000                     |                                        | 161                 | .000                | 179                 | .000                      |                                        | 253                 |                     |                     |                          |                                        |                     |
| 1                 | .0608               | 57                  | .0405                    |                                        | 656*                | .061                | 193                 | .0342                     |                                        | 521**               |                     |                     |                          |                                        |                     |
| 2                 | .1216               | 91                  | .0743                    |                                        | 709                 | .122                | 212                 | .0615                     |                                        | 551                 |                     |                     |                          |                                        |                     |
| 3                 | .1824               | 117                 | .1081                    |                                        | 643                 | .183                | 227                 | .0888                     |                                        | 571                 |                     |                     |                          |                                        |                     |
| 4                 | .2432               | 141                 | .1419                    |                                        | 767                 | .244                | 240                 | .1161                     |                                        | 587                 |                     |                     |                          |                                        |                     |
| 5                 | .3040               | 161                 | .1757                    |                                        | 787                 | .305                | 253                 | .1434                     |                                        | 600                 |                     |                     |                          |                                        |                     |
| 6                 |                     |                     | .2095                    |                                        | 803                 |                     |                     | .1707                     |                                        | 613                 |                     |                     |                          |                                        |                     |
| 7                 |                     |                     | .2433                    |                                        | 815                 |                     |                     | .1980                     |                                        | 619                 |                     |                     |                          |                                        |                     |
| 8                 |                     |                     | .2771                    |                                        | 825                 |                     |                     | .2253                     |                                        | 626                 |                     |                     |                          |                                        |                     |
| 9                 |                     |                     | .3109                    |                                        | 833                 |                     |                     | .2526                     |                                        | 632                 |                     |                     |                          |                                        |                     |
| 10                |                     |                     | .3447                    |                                        | 840                 |                     |                     | .2800                     |                                        | 638                 |                     |                     |                          |                                        |                     |
| 11                |                     |                     | .3780                    |                                        | 846                 |                     |                     |                           |                                        |                     |                     |                     |                          |                                        |                     |
| 12                |                     |                     |                          |                                        |                     |                     |                     |                           |                                        |                     |                     |                     |                          |                                        |                     |
| 13                |                     |                     |                          |                                        |                     |                     |                     |                           |                                        |                     |                     |                     |                          |                                        |                     |
| 14                |                     |                     |                          |                                        |                     |                     |                     |                           |                                        |                     |                     |                     |                          |                                        |                     |
| 15                |                     |                     |                          |                                        |                     |                     |                     |                           |                                        |                     |                     |                     |                          |                                        |                     |

|                    |       |     |             |  |      |                |     |       |      |       |  |         |  |  |  |
|--------------------|-------|-----|-------------|--|------|----------------|-----|-------|------|-------|--|---------|--|--|--|
| Gauge No. 272      |       |     | Depth 4581' |  |      | Clock No. 2414 |     |       | hour | 12    |  |         |  |  |  |
| 0                  | .000  | 31  | .000        |  | 175  | .000           | 195 | .000  |      | 265   |  |         |  |  |  |
| 1                  | .0598 | 71  | .0400       |  | 671* | .0602          | 205 | .0335 |      | 533** |  |         |  |  |  |
| 2                  | .1196 | 103 | .0733       |  | 724  | .1204          | 223 | .0604 |      | 564   |  |         |  |  |  |
| 3                  | .1794 | 130 | .1066       |  | 758  | .1806          | 239 | .0872 |      | 583   |  |         |  |  |  |
| 4                  | .2392 | 154 | .1399       |  | 782  | .2408          | 254 | .1140 |      | 599   |  |         |  |  |  |
| 5                  | .2990 | 175 | .1732       |  | 802  | .3010          | 265 | .1409 |      | 611   |  |         |  |  |  |
| 6                  |       |     | .2065       |  | 816  |                |     | .1677 |      | 622   |  |         |  |  |  |
| 7                  |       |     | .2398       |  | 829  |                |     | .1945 |      | 630   |  |         |  |  |  |
| 8                  |       |     | .2731       |  | 839  |                |     | .2213 |      | 639   |  |         |  |  |  |
| 9                  |       |     | .3064       |  | 848  |                |     | .2482 |      | 646   |  |         |  |  |  |
| 10                 |       |     | .3397       |  | 854  |                |     | .2750 |      | 651   |  |         |  |  |  |
| 11                 |       |     | .3730       |  | 856  |                |     |       |      |       |  |         |  |  |  |
| 12                 |       |     |             |  |      |                |     |       |      |       |  |         |  |  |  |
| 13                 |       |     |             |  |      |                |     |       |      |       |  |         |  |  |  |
| 14                 |       |     |             |  |      |                |     |       |      |       |  |         |  |  |  |
| 15                 |       |     |             |  |      |                |     |       |      |       |  |         |  |  |  |
| Reading Interval 9 |       |     | 5           |  |      | 9              |     |       | 4    |       |  | Minutes |  |  |  |

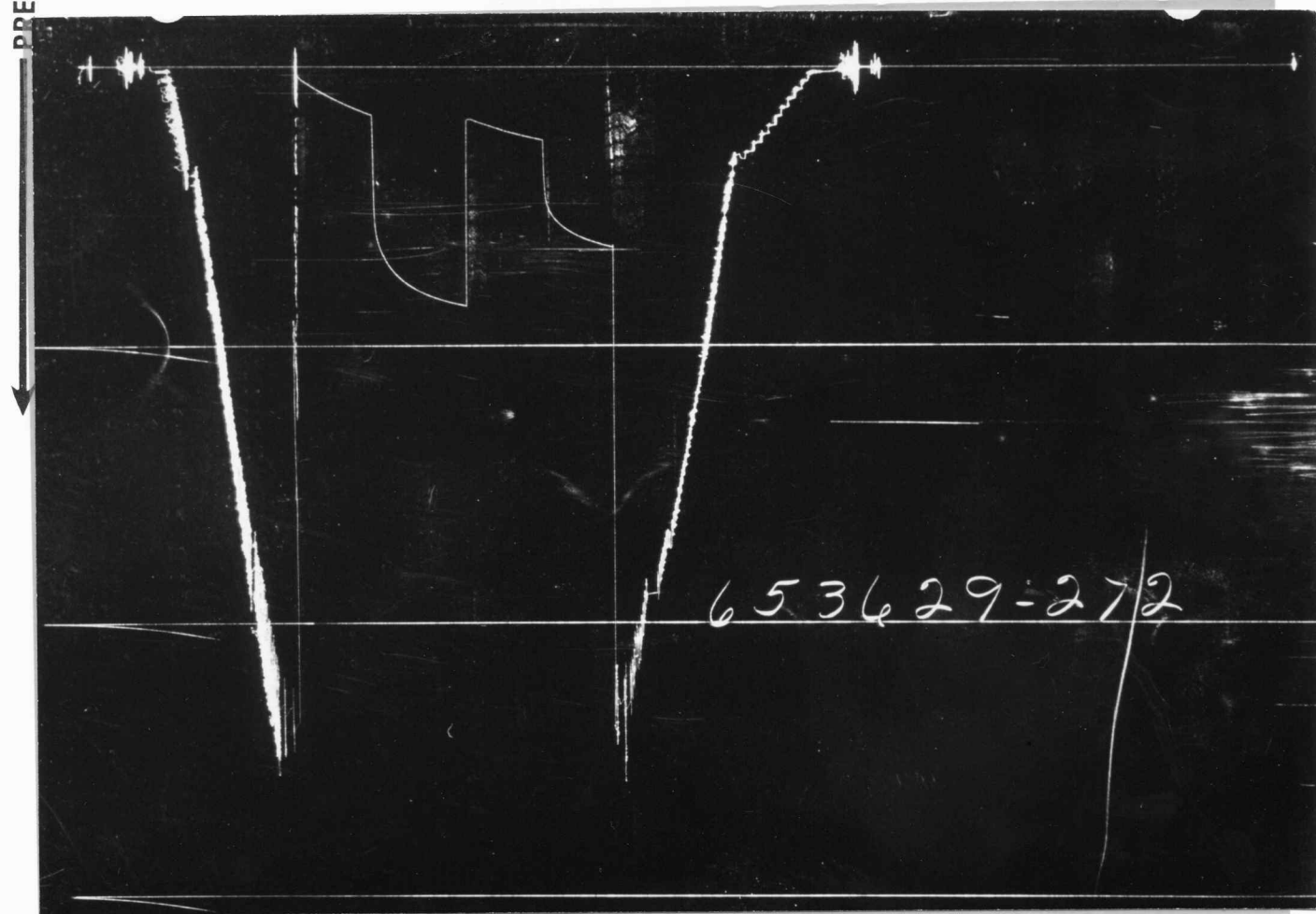
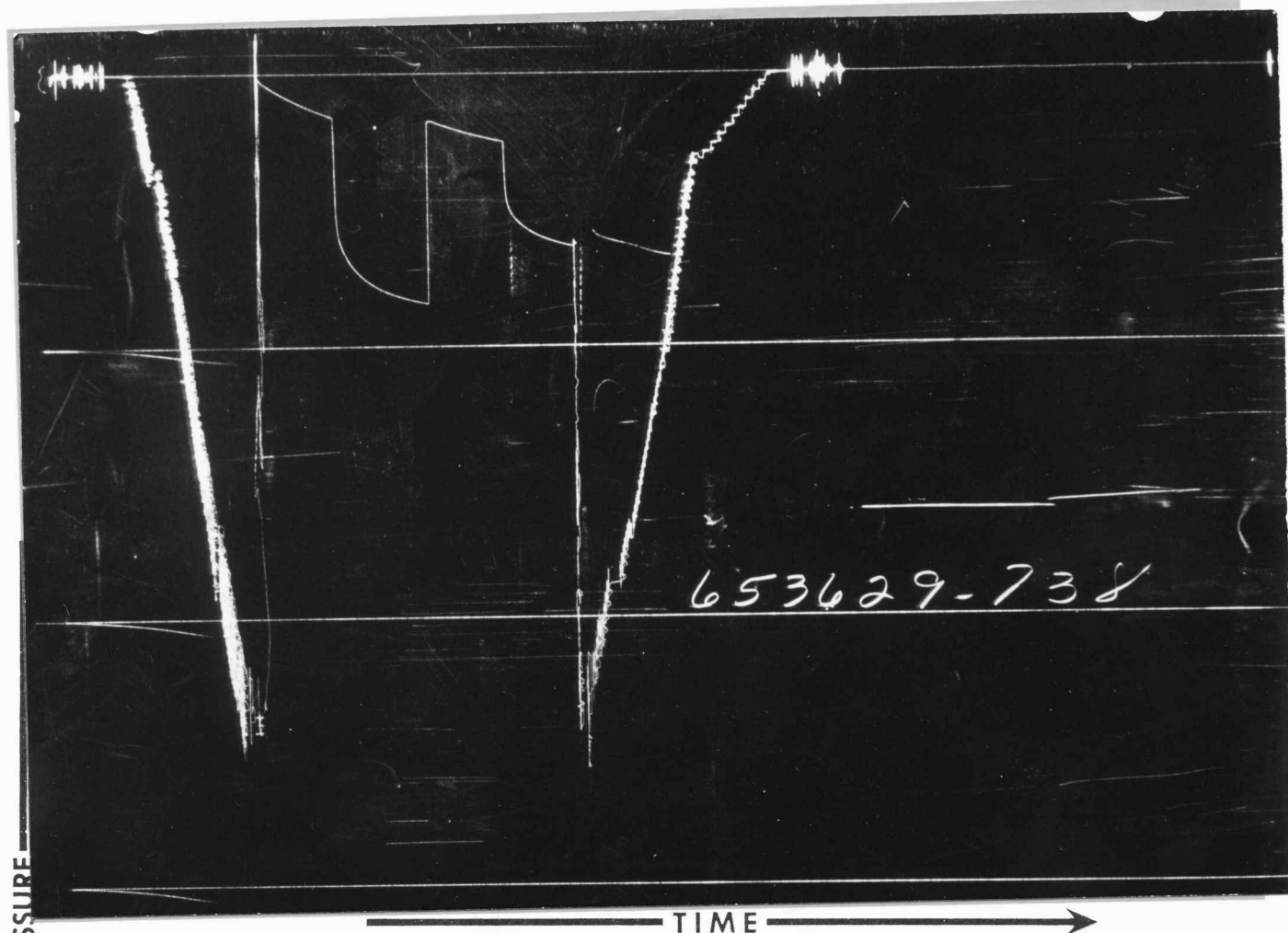
REMARKS: \* First interval equal to 6 minutes \*\*-5 minutes.

|                                     | O. D.  | I. D.  | LENGTH     | DEPTH |
|-------------------------------------|--------|--------|------------|-------|
| Drill Pipe or Tubing .....          | 5.75"  | 2.76"  | 1.00'      | 4420' |
| Reversing Sub .....                 |        |        |            |       |
| Water Cushion Valve .....           |        |        |            |       |
| Drill Pipe .....                    | 4½"    | 3.826" | 3715.04'   |       |
| Drill Collars .....                 | 4.50"  | 2.764" | 821.32' FW |       |
| Handling Sub & Choke Assembly ..... |        |        |            |       |
| Dual CIP Valve .....                | 5.00"  | .87"   | 48.92"     |       |
| Dual CIP Sampler .....              |        |        |            |       |
| Hydro-Spring Tester .....           | 5.00"  | .75"   | 60.21"     | 4545' |
| Multiple CIP Sampler .....          |        |        |            |       |
| Extension Joint .....               |        |        |            |       |
| AP Running Case .....               | 5.00"  | 3.06"  | 49.63"     | 4550' |
| Hydraulic Jar .....                 |        |        |            |       |
| VR Safety Joint .....               |        |        |            |       |
| Pressure Equalizing Crossover ..... |        |        |            |       |
| Packer Assembly .....               |        |        |            |       |
| Distributor .....                   |        |        |            |       |
| Packer Assembly .....               | 6 3/4" | 1.53"  | 4.89'      | 4555' |
| Flush Joint Anchor .....            |        |        |            |       |
| Pressure Equalizing Tube .....      |        |        |            |       |
| Blanked-Off B.T. Running Case ..... |        |        |            |       |
| Drill Collars .....                 |        |        |            |       |
| Anchor Pipe Safety Joint .....      |        |        |            |       |
| Packer Assembly .....               | 6 3/4" | 1.53"  | 4.89'      | 4560' |
| Distributor .....                   |        |        |            |       |
| Packer Assembly .....               |        |        |            |       |
| Anchor Pipe Safety Joint .....      |        |        |            |       |
| Side Wall Anchor .....              |        |        |            |       |
| Drill Collars .....                 |        |        |            |       |
| Flush Joint Anchor .....            | 5.00"  | 3.84"  | 21.00'     |       |
| Blanked-Off B.T. Running Case ..... | 5.00"  | 3.06"  | 4.00'      | 4581' |
| Total Depth .....                   |        |        |            |       |

TEMPERATURE  
RECORDER  
CHART



10° each circle



Each Horizontal Line Equal to 1000 p.s.i.