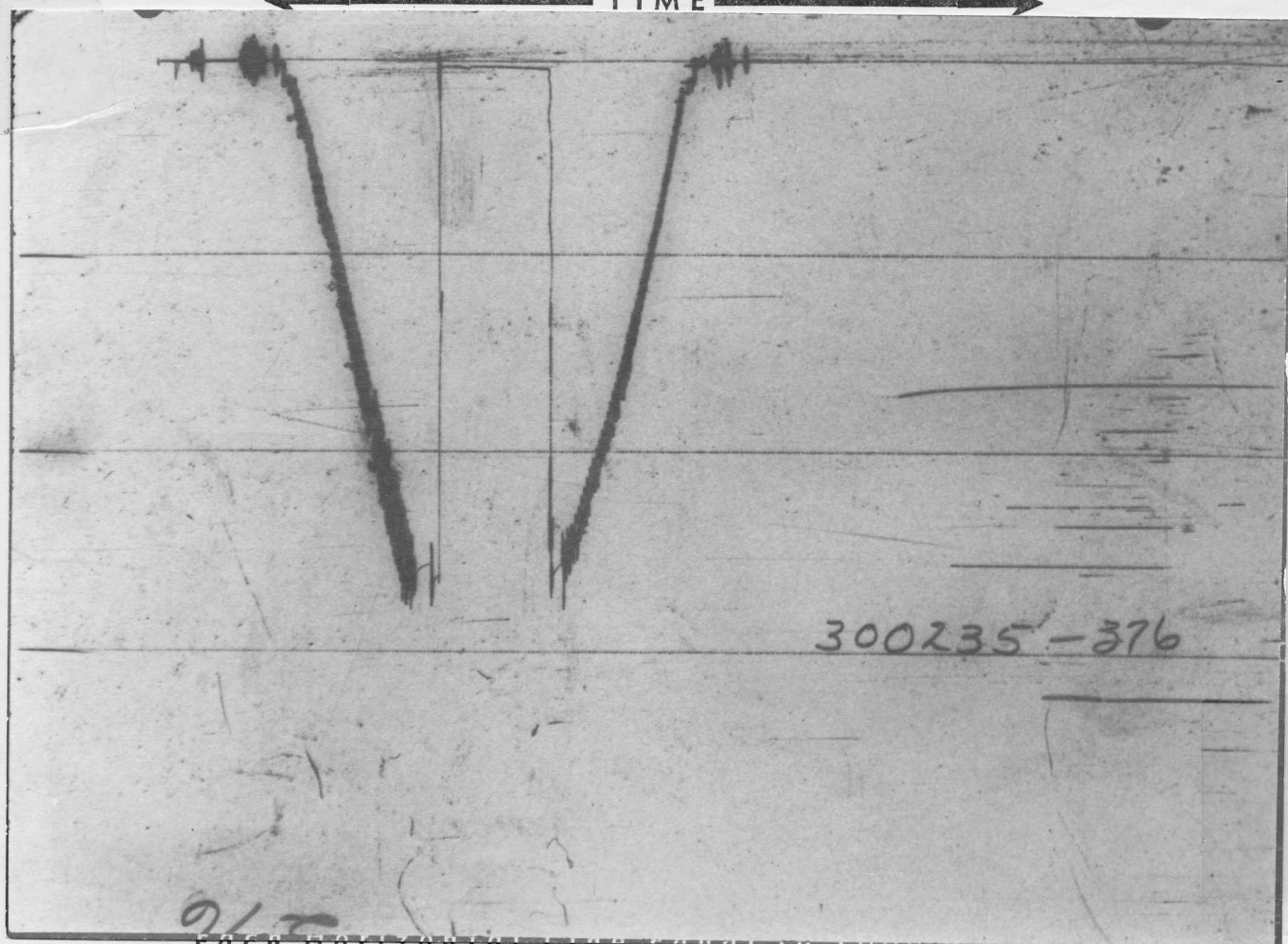
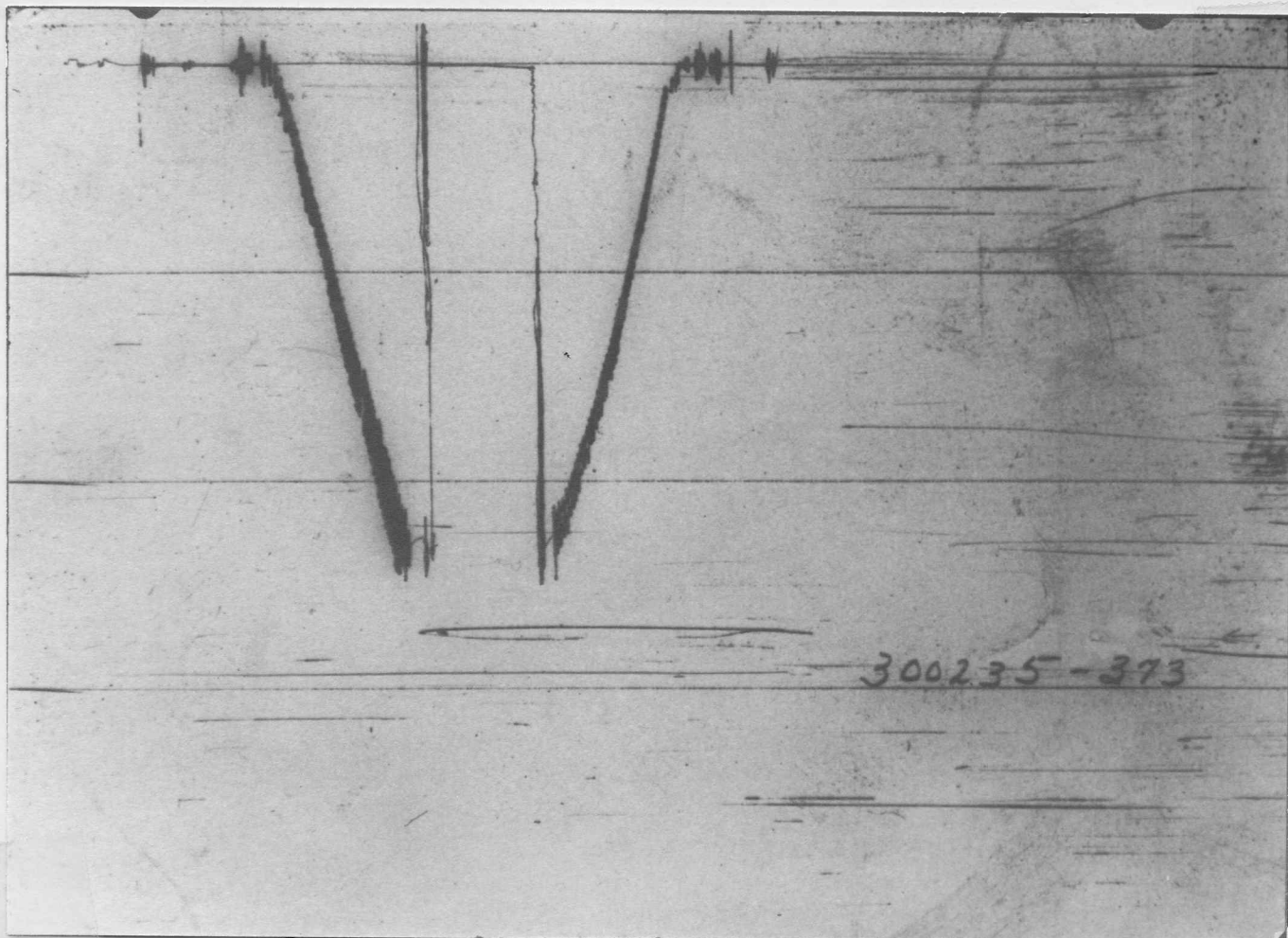


|                            |          |                  |    |                                                |                                      |                            |                   |
|----------------------------|----------|------------------|----|------------------------------------------------|--------------------------------------|----------------------------|-------------------|
| Flow Time                  | 1st Min. | 2nd Min.         | 30 | Date                                           | 3-13-62                              | Ticket Number              | 300235            |
| Closed In Press. Time      | 1st Min. | 2nd Min.         | 30 | Kind of Job                                    | Open Hole                            | Halliburton District       | Elkhart           |
| Pressure Readings          | Field    | Office Corrected |    | Tester                                         | T.L. Dodson                          | Witness                    | Edgar Carson      |
| Depth Top Gauge            | 4802 Ft. | No Blanked Off   |    | Drilling Contractor                            | Lohman - Johnson                     |                            |                   |
| BT. P.R.D. No.             | 373      | - Hour Clock     |    | Elevation                                      | -                                    | Top Packer                 | -                 |
| Initial Hydro Mud Pressure | 2280     | 2272             |    | Total Depth                                    | 4910'                                | Bottom Packer              | 4890'             |
| Initial Closed in Pres.    |          |                  |    | Interval Tested                                | 4890-4910'                           | Formation Tested           | Morrow            |
| Initial Flow Pres.         | 5        | 2 11             |    | Casing or Hole Size                            | 7 7/8"                               | Casing Perfs. } Top        |                   |
| Final Flow Pres.           | 5        | 2 11             |    | Surface Choke                                  | 1"                                   | Bottom Choke               | 1/2"              |
| Final Closed in Pres.      | 10       | 21               |    | Size & Kind Drill Pipe                         | 4 1/2" FH                            | Drill Collars Above Tester | 2 1/4" x 238'     |
| Final Hydro Mud Pressure   | 2280     | 2272             |    | Mud Weight                                     | 9.4                                  | Mud Viscosity              | 47                |
| Depth Cen. Gauge           |          | Blanked Off      |    | Temperature                                    | 120 °F Est.                          | Anchor Size & Length       | ID 3" OD 5" X 20' |
| BT. P.R.D. No.             |          | Hour Clock       |    | Depths Mea. From                               | KB                                   | Depth of Tester Valve      | 4797' Ft.         |
| Initial Hydro Mud Pres.    |          |                  |    | Cushion                                        |                                      | Depth Back Pres. Valve     | 4892' Ft.         |
| Initial Closed in Pres.    |          |                  |    | Recovered                                      | 2 Feet of                            | drlg mud                   |                   |
| Initial Flow Pres.         |          | 2                |    | Recovered                                      |                                      | Feet of                    |                   |
| Final Flow Pres.           |          | 2                |    | Recovered                                      |                                      | Feet of                    |                   |
| Final Closed in Pres.      |          |                  |    | Recovered                                      |                                      | Feet of                    |                   |
| Final Hydro Mud Pres.      |          |                  |    | Oil A.P.I. Gravity                             |                                      | Water Spec. Gravity        |                   |
| Depth Bot. Gauge           | 4910 Ft. | Yes Blanked Off  |    | Gas Gravity                                    |                                      | Surface Pressure           | psi               |
| BT. P.R.D. No.             | 376      | - Hour Clock     |    | Tool Opened                                    | 10:34 A.M.                           | Tool Closed                | 11:04 A.M.        |
| Initial Hydro Mud Pres.    | 2615     | 2567             |    | Remarks                                        | Open tool with a weak blow and dying |                            |                   |
| Initial Closed in Pres.    |          |                  |    | to no blow in 15 mins. Off bottom at 11:34 AM. |                                      |                            |                   |
| Initial Flow Pres.         | 15       | 2 36             |    |                                                |                                      |                            |                   |
| Final Flow Pres.           | 15       | 2 36             |    |                                                |                                      |                            |                   |
| Final Closed in Pres.      | 20       | 46               |    |                                                |                                      |                            |                   |
| Final Hydro Mud Pres.      | 2615     | 2567             |    |                                                |                                      |                            |                   |

## FORMATION TEST DATA

\* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,  
Fresh Water Corrected to 100° F.

PRESSURE



Each horizontal line equal to 1000 p.s.i.

## JOHNSTON TESTERS, INC.

## SURFACE INFORMATION

| Well Flowed | Amount |
|-------------|--------|
| NO          |        |
|             |        |
|             |        |
|             |        |
|             |        |
|             |        |

| Reversed Out | Amount |
|--------------|--------|
| NO           |        |
|              |        |
|              |        |
|              |        |

[illegible]

Blow VERY WEAK THROUGHOUT TEST.

[illegible]

Remarks:

## TOOL, HOLE & MUD DATA

Type Test \_\_\_\_\_ CONVENTIONAL \_\_\_\_\_  
Formation Tested \_\_\_\_\_ MORROW \_\_\_\_\_  
Elevation \_\_\_\_\_ \_\_\_\_\_ F \_\_\_\_\_  
All Depths Measured From \_\_\_\_\_

### TOOL SEQUENCE

| Tool              | Size/Type   | Depth/Length<br>I.D. |
|-------------------|-------------|----------------------|
| DRILL PIPE        | 4 1/2" FH   | 4744'                |
|                   |             | 3.826'               |
| CIRCULATING SUB   | 4 1/2" PIN  |                      |
| DRILL COLLAR      | 4 1/2" H-90 | 238' 2.5"            |
| DOUBLE PIN SUB    | 4 1/2" REG  |                      |
| 4-STAGE SHUT-IN   | 4 3/4"      |                      |
| SHUT-IN HYD. TOOL | 3 1/2"      |                      |
| JARS              | 3 1/2" HS-1 |                      |
| PACKER-BOB TAIL   | 6 5/8"      | 4972'                |
| PERF. ANCHOR      | 3 1/2" FH   | 18' 2.5"             |
| RECORDER CARRIER  | 4 7/8" T    | 6'                   |
| RECORDER CARRIER  | 4 7/8" L    | 4'                   |

|                    |        |               |       |
|--------------------|--------|---------------|-------|
| Total Depth        | 5,000  |               |       |
| Main Hole Size     | 7 7/8" | Rat Hole Size | -     |
| Casing Size        | -      | Liner Size    | -     |
| Bottom Choke Size  | 3/4"   | Mud Type      | CHEM. |
| Mud. Wt.           | 9.5    | Mud Viscosity | 55    |
| Air Chamber Length | -      | Ft.           | -     |

| Cushion Type | Amount | Pressure |
|--------------|--------|----------|
| ---          | ---    | ---      |

## TIME DATA

Initial Shut-in \_\_\_\_\_ Hrs. \_\_\_\_\_ Min  
Flow Period \_\_\_\_\_ Hrs. \_\_\_\_\_ Min  
Final Shut-in \_\_\_\_\_ Hrs. 30 Min

Company CITIES SERVICE PET. CO.; BOX 1147; LIBERAL, KANSAS; ATTN: BILL DEVANEY Date 3-14-62  
Well MONGONE #E-3 Field N.E. ELKHART Location 26-33-42  
Test Interval 4,972' TO 5,000' Formation Test # 3 Casing Test # -  
County MORTON State KANSAS Field Report No. 64038 L  
Tester O. E. CHANCE Test Approved By MR. R. H. SOLE No. DST Reports Requested 5



# JOHNSTON TESTERS, INC.

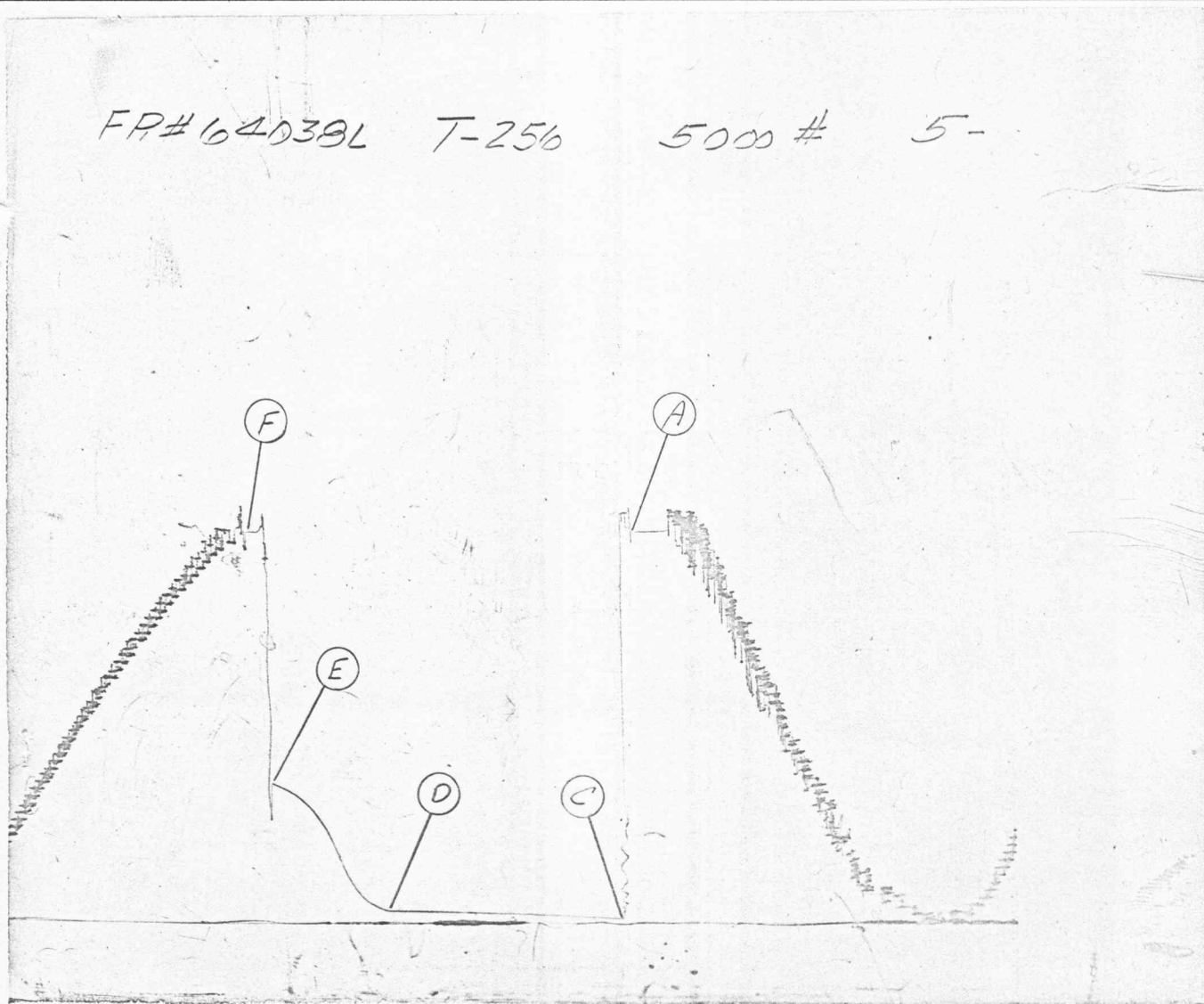
## Pressure Data

Field Report No. 64038 L

|                              |       |  |  |  |  |
|------------------------------|-------|--|--|--|--|
| Recorder No.                 | T-256 |  |  |  |  |
| Capacity (P.S.I.G.)          | 5000  |  |  |  |  |
| Recorder Depth               | 4996' |  |  |  |  |
| Pressure Gradient P.S.I./Ft. |       |  |  |  |  |
| Well Temperature °F.         | 129   |  |  |  |  |
| A Initial Hydrostatic Mud    | 2467  |  |  |  |  |
| B Initial Shut-in            | -     |  |  |  |  |
| C Initial Flow               | 27    |  |  |  |  |
| D Final Flow                 | 73    |  |  |  |  |
| E Final Shut-in              | * 877 |  |  |  |  |
| F Final Hydrostatic Mud      | 2471  |  |  |  |  |

Remarks:

\*Shut in pressure did not reach static reservoir pressure.



1 Hour

FINAL HYDROSTATIC  
2471 #

FINAL SHUT IN  
877 #

FINAL FLOW  
73 #

INITIAL HYDROSTATIC  
2467 #

INITIAL FLOW  
27 #

TIME

