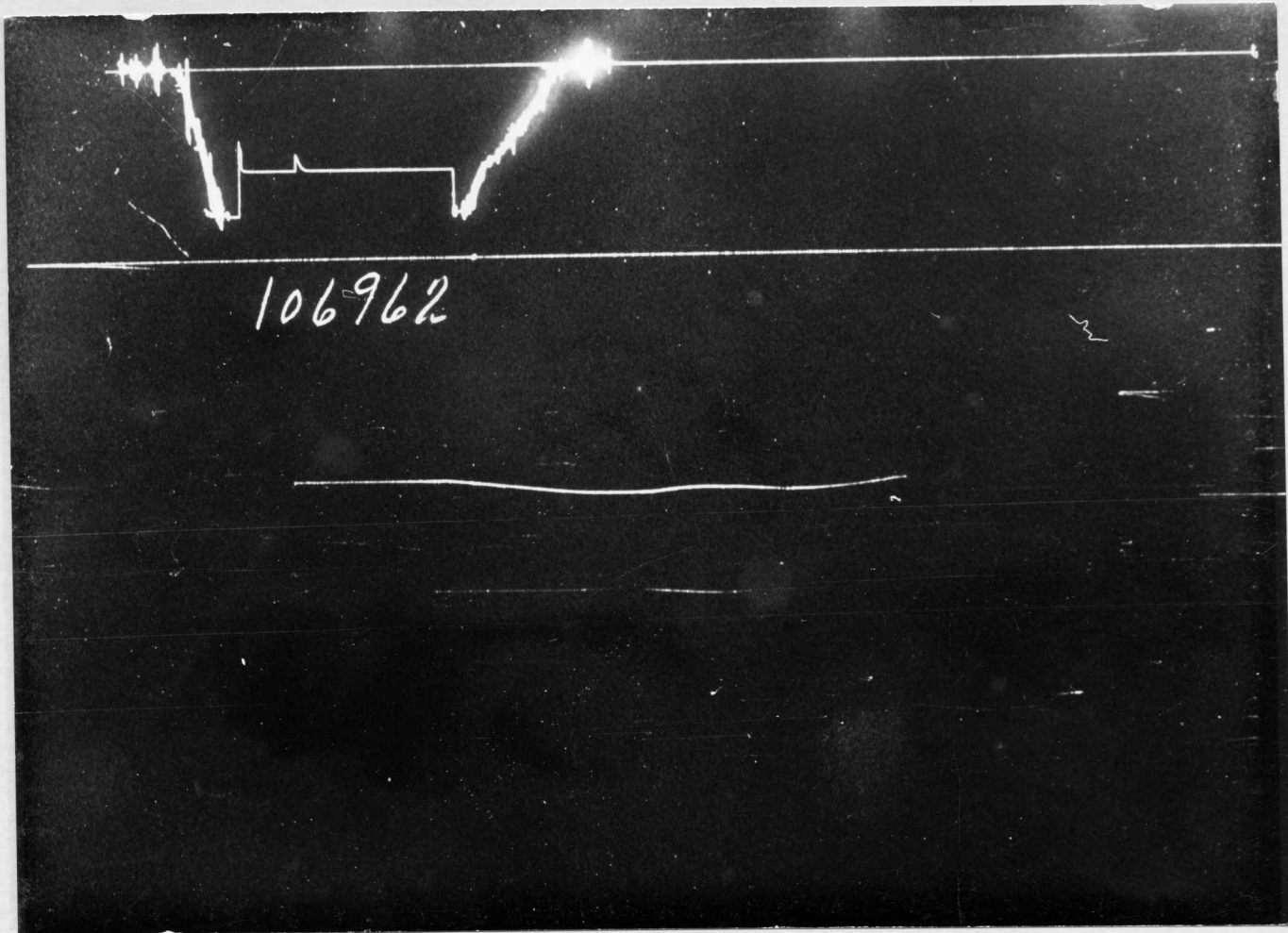
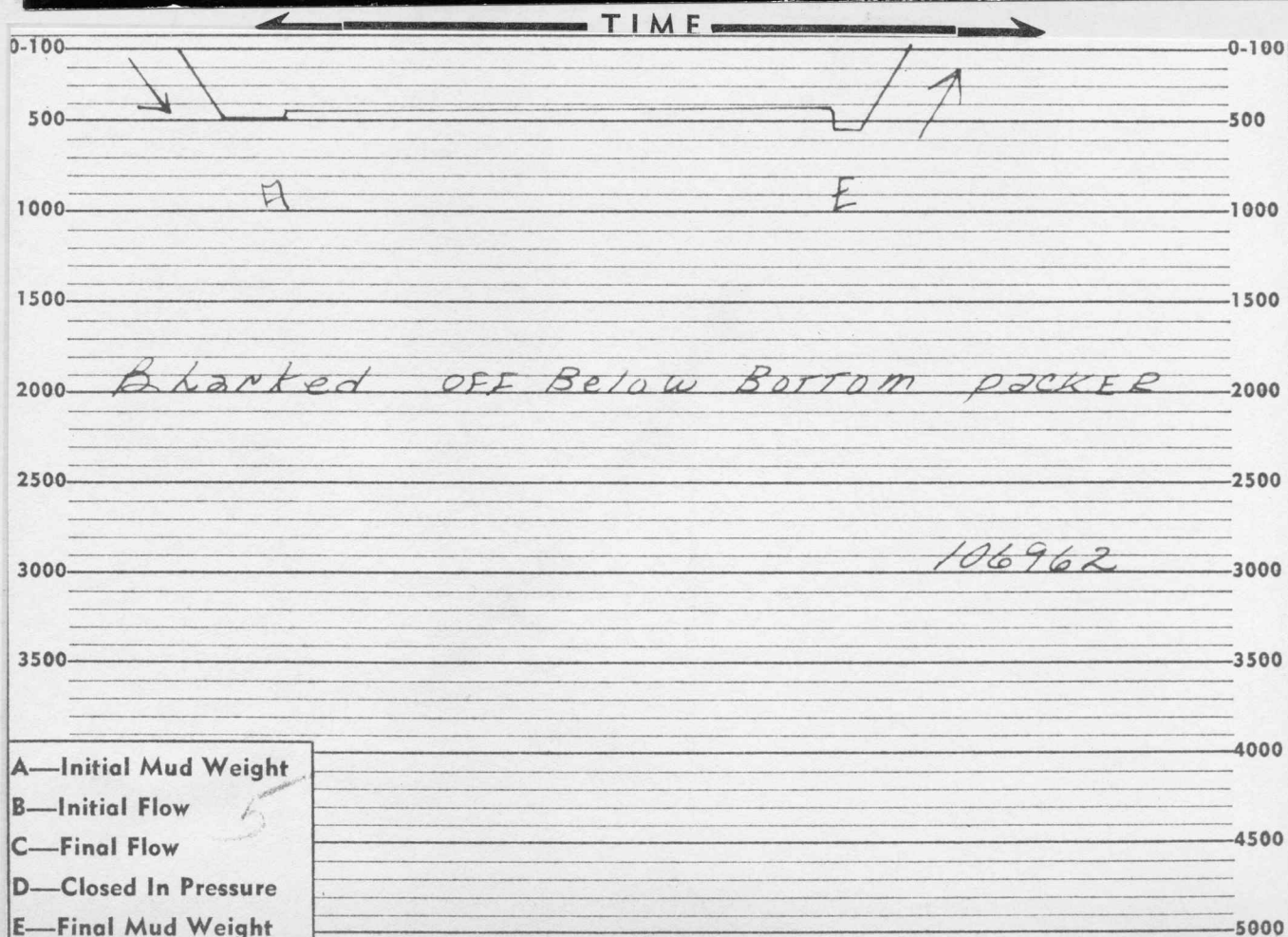


|                                      |  |                                                                                   |                                 |                                                                 |                                                                                                        |
|--------------------------------------|--|-----------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Initial Closed In Time 30 Minutes    |  |  | Date 7-13-59                    |                                                                 | LOCATION<br>NE NW NE<br>SEC. 35-11S-9E<br>FIELD<br>WILDCAT<br>COUNTY<br>WAPATONSETT<br>STATE<br>KANSAS |
| Tool Open Flow Period 2 - 60 Minutes |  |                                                                                   | Ticket No. 106962               |                                                                 |                                                                                                        |
| Final Closed In Time 30 Minutes      |  |                                                                                   | HOWCO DISTRICT Winfield, Kansas |                                                                 |                                                                                                        |
| Depth Top Gauge 1597 Ft.             |  |                                                                                   | Kind of Job Open Hole Test      |                                                                 |                                                                                                        |
| BT. P.R.D. No 312                    |  | CONTRACTOR White & Ellis                                                          |                                 |                                                                 |                                                                                                        |
| Pressure Readings Field              |  | Office Corrected                                                                  |                                 | HOLE & TOOL DATA                                                |                                                                                                        |
| Initial Hydro Mud Pressure           |  | 771                                                                               |                                 | Elevation 1318' K.R. Top Packer Depth -                         |                                                                                                        |
| Initial Closed in Pres.              |  | 538                                                                               |                                 | Total Depth 1620' Bottom Packer Depth 1595                      |                                                                                                        |
| Initial Flow Pres.                   |  | 408-459                                                                           |                                 | Casing or Hole Size 8 3/4" Size & Type Wall Packer 7 1/2" ESWP  |                                                                                                        |
| Final Flow Pres.                     |  | 435-538                                                                           |                                 | Liner or Rathole Size 8 3/4" Size Bottom Choke 5/8"             |                                                                                                        |
| Final Closed in Pres.                |  | 538                                                                               |                                 | Casing Perforations Top Bottom Size Surface Choke 1 1/4"        |                                                                                                        |
| Final Hydro Mud Pressure             |  | 759                                                                               |                                 | Interval Tested 1595-1620' ID & Length Air Chamber DCIP         |                                                                                                        |
| Depth Center Gauge Ft.               |  | Blanked Off                                                                       |                                 | Formation Tested Simpson ID & Length Drill Collars 2 3/8" x 88' |                                                                                                        |
| BT. P.R.D. No                        |  | Hr. Clock                                                                         |                                 | Est. Gauge Depth Temp. 100 F° Size Drill Pipe 3 1/2" I.F.       |                                                                                                        |
| Pressure Readings Field              |  | Office Corrected                                                                  |                                 | MUD DATA Weight 9.3 Viscosity 38                                |                                                                                                        |
| Initial Hydro Mud Pressure           |  |                                                                                   |                                 | All depths measured from Kelly Bushing No. Folders Reproduced 5 |                                                                                                        |
| Initial Closed in Pres.              |  |                                                                                   |                                 | REMARKS: Tool open to flow at 9:50 P.M.                         |                                                                                                        |
| Initial Flow Pres.                   |  |                                                                                   |                                 | Strong blow for 2 minutes. Closed tool for                      |                                                                                                        |
| Final Flow Pres.                     |  |                                                                                   |                                 | 30 minutes ICIP. Tool open to flow at 10:22 P.M.                |                                                                                                        |
| Final Closed in Pres.                |  |                                                                                   |                                 | Very strong blow for 5 minutes. Dead at 10:27 P.M.              |                                                                                                        |
| Final Hydro Mud Pressure             |  |                                                                                   |                                 | P.M. Closed tool at 11:22 P.M. for 30 minute F.C.I.P.           |                                                                                                        |
| Depth Bottom Gauge 1616 Ft.          |  | Blanked Off yes                                                                   |                                 | *NO Special Reading due to equalization of pressures.           |                                                                                                        |
| BT. P.R.D. No 1695                   |  | 12 Hr. Clock                                                                      |                                 | Recovered 1000 Feet of mud cut water                            |                                                                                                        |
| Pressure Readings Field              |  | Office Corrected                                                                  |                                 | Recovered 240 Feet of pure water                                |                                                                                                        |
| Initial Hydro Mud Pressure           |  |                                                                                   |                                 | Recovered Feet of                                               |                                                                                                        |
| Initial Closed in Pres.              |  |                                                                                   |                                 | Recovered Feet of                                               |                                                                                                        |
| Initial Flow Pres.                   |  |                                                                                   |                                 | Witnessed By R. R. Valentine, Jr.                               |                                                                                                        |
| Final Flow Pres.                     |  |                                                                                   |                                 |                                                                 |                                                                                                        |
| Final Closed in Pres.                |  |                                                                                   |                                 |                                                                 |                                                                                                        |
| Final Hydro Mud Pressure             |  |                                                                                   |                                 |                                                                 |                                                                                                        |
| Amount-Type of Cushion               |  |                                                                                   |                                 |                                                                 |                                                                                                        |



PRESSURE ↑

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



|                                    |  |                                                                                   |                                |                                                                 |
|------------------------------------|--|-----------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------|
| Initial Closed In Time 30 Minutes  |  |  | Date 7-14-59                   |                                                                 |
| Tool Open Flow Period 3-60 Minutes |  |                                                                                   | Ticket No. 106963              |                                                                 |
| Final Closed In Time 30 Minutes    |  |                                                                                   | HOWCO DISTRICT Winfield        |                                                                 |
| Depth Top Gauge 1531 Ft.           |  |                                                                                   | Kind of Job Straddle Open Hole |                                                                 |
| BT. P.R.D. No 312                  |  | 12 Hr. Clock                                                                      |                                | CONTRACTOR White and Ellis                                      |
| Pressure Readings Field            |  | Office Corrected                                                                  |                                | HOLE & TOOL DATA                                                |
| Initial Hydro Mud Pressure -       |  | 730                                                                               |                                | Elevation 1318' KB Top Packer Depth 1529'                       |
| Initial Closed in Pres. -          |  | Missed                                                                            |                                | Total Depth 1620' Bottom Packer Depth 1541'                     |
| Initial Flow Pres. -               |  | 12-39                                                                             |                                | Casing or Hole Size 8 3/4" Size & Type Wall Packer 7 1/4" ESWP  |
| Final Flow Pres. -                 |  | 37-61                                                                             |                                | Liner or Rathole Size 8 3/4" Size Bottom Choke 5/8"             |
| Final Closed in Pres. -            |  | 489                                                                               |                                | Casing Perforations Top Bottom Size Surface Choke 1/4"          |
| Final Hydro Mud Pressure -         |  | 725                                                                               |                                | Interval Tested 1529-1541' ID & Length Air Chamber -            |
| Depth Center Gauge 1616 Ft.        |  | Blanked Off Yes                                                                   |                                | Formation Tested Viola ID & Length Drill Collars 2 3/8" x 88'   |
| BT. P.R.D. No 1695                 |  | 12 Hr. Clock                                                                      |                                | Est. Gauge Depth Temp. Calc. 100 F° Size Drill Pipe 3 1/2" IF   |
| Pressure Readings Field            |  | Office Corrected                                                                  |                                | MUD DATA Weight 9.3 Viscosity 38                                |
| Initial Hydro Mud Pressure         |  |                                                                                   |                                | All depths measured from Kelly Bushing No. Folders Reproduced 5 |
| Initial Closed in Pres.            |  |                                                                                   |                                | REMARKS: Opened tool with a weak blow at 7:15                   |
| Initial Flow Pres.                 |  |                                                                                   |                                | AM for a 3 minute flow. Rotated tool closed                     |
| Final Flow Pres.                   |  |                                                                                   |                                | for a 30 minute Initial Closed in Pressure.                     |
| Final Closed in Pres.              |  |                                                                                   |                                | Reopened tool with a weak blow for 60 minutes.                  |
| Final Hydro Mud Pressure           |  |                                                                                   |                                | Took a 30 minute Final Closed in Pressure.                      |
| Depth Bottom Gauge Ft.             |  | Blanked Off                                                                       |                                |                                                                 |
| BT. P.R.D. No                      |  | Hr. Clock                                                                         |                                |                                                                 |
| Pressure Readings Field            |  | Office Corrected                                                                  |                                |                                                                 |
| Initial Hydro Mud Pressure         |  |                                                                                   |                                |                                                                 |
| Initial Closed in Pres.            |  |                                                                                   |                                | Recovered 120 Feet of Muddy water                               |
| Initial Flow Pres.                 |  |                                                                                   |                                | Recovered Feet of                                               |
| Final Flow Pres.                   |  |                                                                                   |                                | Recovered Feet of                                               |
| Final Closed in Pres.              |  |                                                                                   |                                | Recovered Feet of                                               |
| Final Hydro Mud Pressure           |  |                                                                                   |                                | Witnessed By R. R. Valentine, Jr.                               |
| Amount-Type of Cushion None        |  | Tester Bob O'Neal                                                                 |                                |                                                                 |

LOCATION NE NE NE 35-11S-9E

FIELD

WILDCAT

COUNTY

WA BAUNSEC

STATE

KANSAS

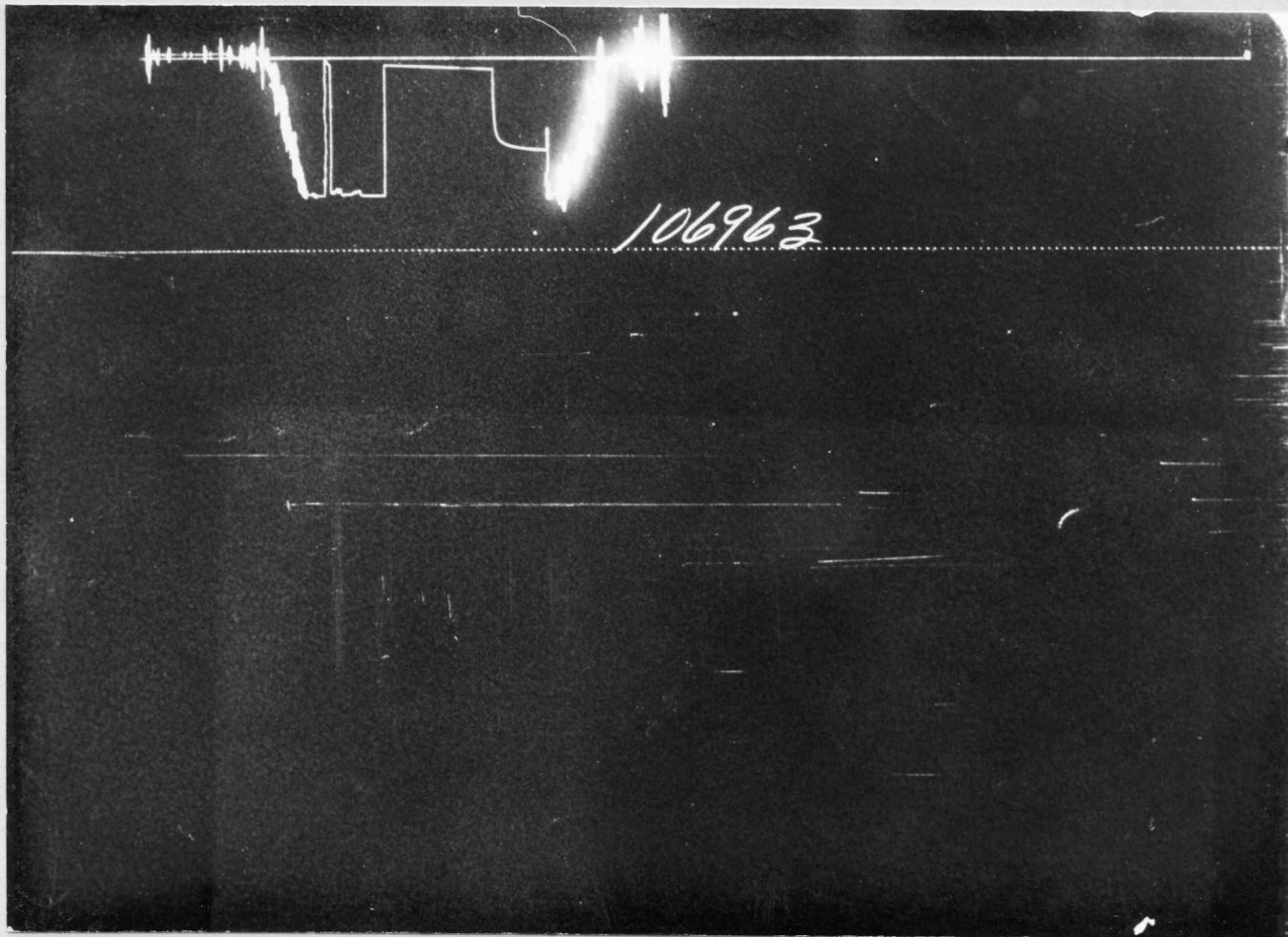
LEASE NAME

WELL NO.

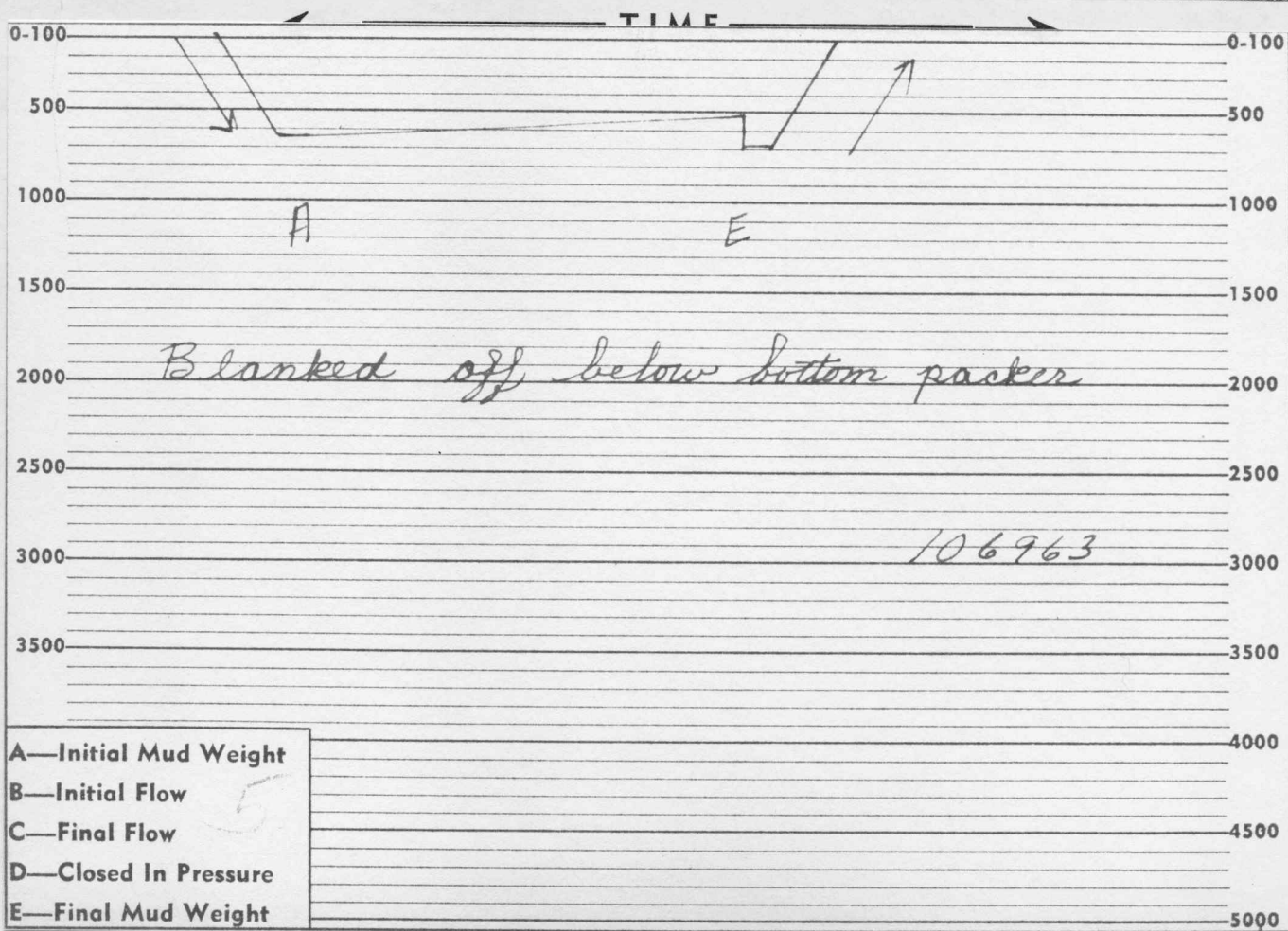
TEST NO.

LEASE OWNER

KANSAS 35-11S-9E  
OWNERS DISTRICT



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

Company CITIES SERVICE OIL COMPANY

Date 7-14-59

|                            |                   | Time            | PSI              |                                        |                   |                  |                  |                  |
|----------------------------|-------------------|-----------------|------------------|----------------------------------------|-------------------|------------------|------------------|------------------|
| Initial Hydro Mud Pressure |                   |                 | 730              | Ticket No. 176963                      |                   |                  |                  |                  |
| 1st                        | Initial Flow      |                 | 12               | Lease MEYER                            |                   |                  |                  |                  |
|                            | Final Flow        | 3 Minutes       | 37               |                                        |                   |                  |                  |                  |
| Initial Closed In Pressure |                   | 30 Minutes      | MISSED           | Well No. D-1 Test No. 2                |                   |                  |                  |                  |
| 2nd                        | Initial Flow      |                 | 39               | BT No. 312 Depth 1531'                 |                   |                  |                  |                  |
|                            | Final Flow        | 60 Minutes      | 61               | 12 Hr. Clock No. 1552                  |                   |                  |                  |                  |
| Final Closed In Pressure   |                   | 30 Minutes      | 489              | Temperature Corrected to Calc. 100 ° F |                   |                  |                  |                  |
| Final Hydro Mud Pressure   |                   |                 | 725              |                                        |                   |                  |                  |                  |
|                            | 1st Flow Pressure |                 | Initial CIP      |                                        | 2nd Flow Pressure |                  | Final CIP        |                  |
|                            | Time Defl. .000"  | PSI Temp. Corr. | Time Defl. .000" | PSI Temp. Corr.                        | Time Defl. .000"  | PSI Temp. Corr.  | Time Defl. .000" | PSI Temp. Corr.  |
| P0                         |                   |                 |                  |                                        | .000              | 39               | .000             | 61               |
| P1                         |                   |                 |                  |                                        | .108              | 44               | .0215            | 431              |
| P2                         |                   |                 |                  |                                        | .216              | 49               | .043             | 453              |
| P3                         |                   |                 |                  |                                        | .324              | 53               | .0645            | 464              |
| P4                         |                   |                 |                  |                                        | .432              | 61               | .086             | 472              |
| P5                         |                   |                 |                  |                                        |                   |                  | .1075            | 477              |
| P6                         |                   |                 |                  |                                        |                   |                  | .129             | 481              |
| P7                         |                   |                 |                  |                                        |                   |                  | .1505            | 484              |
| P8                         |                   |                 |                  |                                        |                   |                  | .172             | 487              |
| P9                         |                   |                 |                  |                                        |                   |                  | .1935            | 487              |
| P10                        |                   |                 |                  |                                        |                   |                  | .215             | 489              |
|                            | Minute Intervals  |                 | Minute Intervals |                                        | 15                | Minute Intervals | 3                | Minute Intervals |

Remarks:

HOWCO 1297-SANDEFER



|                                      |  |                  |                                                                                   |  |                                        |  |
|--------------------------------------|--|------------------|-----------------------------------------------------------------------------------|--|----------------------------------------|--|
| Initial Closed In Time 30 Minutes    |  |                  |  |  | Date 7-15-59                           |  |
| Tool Open Flow Period 2 - 60 Minutes |  |                  |                                                                                   |  | Ticket No. 106964                      |  |
| Final Closed In Time 30 Minutes      |  |                  |                                                                                   |  | HOWCO DISTRICT Winfield, Kansas        |  |
|                                      |  |                  |                                                                                   |  | Kind of Job Open Hole Test             |  |
| Depth Top Gauge 1685 Ft.             |  | Blanked Off no   | CONTRACTOR White & Ellis                                                          |  |                                        |  |
| BT. P.R.D. No 312                    |  | 12 Hr. Clock     | HOLE & TOOL DATA                                                                  |  |                                        |  |
| Pressure Readings Field              |  | Office Corrected |                                                                                   |  |                                        |  |
| Initial Hydro Mud Pressure           |  | 804              | Elevation 1318' K.B.                                                              |  | Top Packer Depth - 21'                 |  |
| Initial Closed in Pres.              |  | 576              | Total Depth 1708'                                                                 |  | Bottom Packer Depth 1683'              |  |
| Initial Flow Pres.                   |  | 457-529          | Casing or Hole Size 8 3/4"                                                        |  | Size & Type Wall Packer 7 1/4" ESWP    |  |
| Final Flow Pres.                     |  | 518-576          | Liner or Rathole Size 8 3/4"                                                      |  | Size Bottom Choke 5/8"                 |  |
| Final Closed in Pres.                |  | 578              | Casing Perforations Top Bottom                                                    |  | Size Surface Choke 1/4"                |  |
| Final Hydro Mud Pressure             |  | 787              | Interval Tested 1683'-1708'                                                       |  | ID & Length Air Chamber DCIP           |  |
| Depth Center Gauge Ft.               |  | Blanked Off      | Formation Tested Arbuckle                                                         |  | ID & Length Drill Collars 2 3/8" x 88' |  |
| BT. P.R.D. No                        |  | Hr. Clock        | Est. Gauge Depth Temp. 100 F°                                                     |  | Size Drill Pipe 3 1/2" I.F.            |  |
| Pressure Readings Field              |  | Office Corrected | MUD DATA Weight 9.1                                                               |  | Viscosity 39                           |  |
| Initial Hydro Mud Pressure           |  |                  | All depths measured from Kelly Bushing                                            |  | No. Folders Reproduced 5               |  |
| Initial Closed in Pres.              |  |                  | REMARKS: Tool open at 6:58 A.M., Strong blow                                      |  |                                        |  |
| Initial Flow Pres.                   |  |                  | for 2 minutes. Closed tool for 30 minute                                          |  |                                        |  |
| Final Flow Pres.                     |  |                  | initial bottom hole pressure. Tool open to                                        |  |                                        |  |
| Final Closed in Pres.                |  |                  | flow at 7:30 A.M. Strong blow for 12 minutes.                                     |  |                                        |  |
| Final Hydro Mud Pressure             |  |                  | Decreased to very weak blow for 20 minutes.                                       |  |                                        |  |
| Depth Bottom Gauge 1704 Ft.          |  | Blanked Off yes  | Closed tool at 8:30 A.M. for 30 minute Final                                      |  |                                        |  |
| BT. P.R.D. No 1695                   |  | 12 Hr. Clock     | bottom hole pressure.                                                             |  |                                        |  |
| Pressure Readings Field              |  | Office Corrected |                                                                                   |  |                                        |  |
| Initial Hydro Mud Pressure           |  |                  | * No Special Reading due to equalization of pressures.                            |  |                                        |  |
| Initial Closed in Pres.              |  |                  | Recovered 1350 Feet of muddy water                                                |  |                                        |  |
| Initial Flow Pres.                   |  |                  | Recovered Feet of                                                                 |  |                                        |  |
| Final Flow Pres.                     |  |                  | Recovered Feet of                                                                 |  |                                        |  |
| Final Closed in Pres.                |  |                  | Recovered Feet of                                                                 |  |                                        |  |
| Final Hydro Mud Pressure             |  |                  | Witnessed By R. R. Valentine, Jr.                                                 |  |                                        |  |
| Amount-Type of Cushion -             |  |                  | Tester Bob O'Neal                                                                 |  |                                        |  |

LOCATION SEC. 35-11S-9E

FIELD

WILDCAT

COUNTY

WARRENSE

STATE

KANSAS

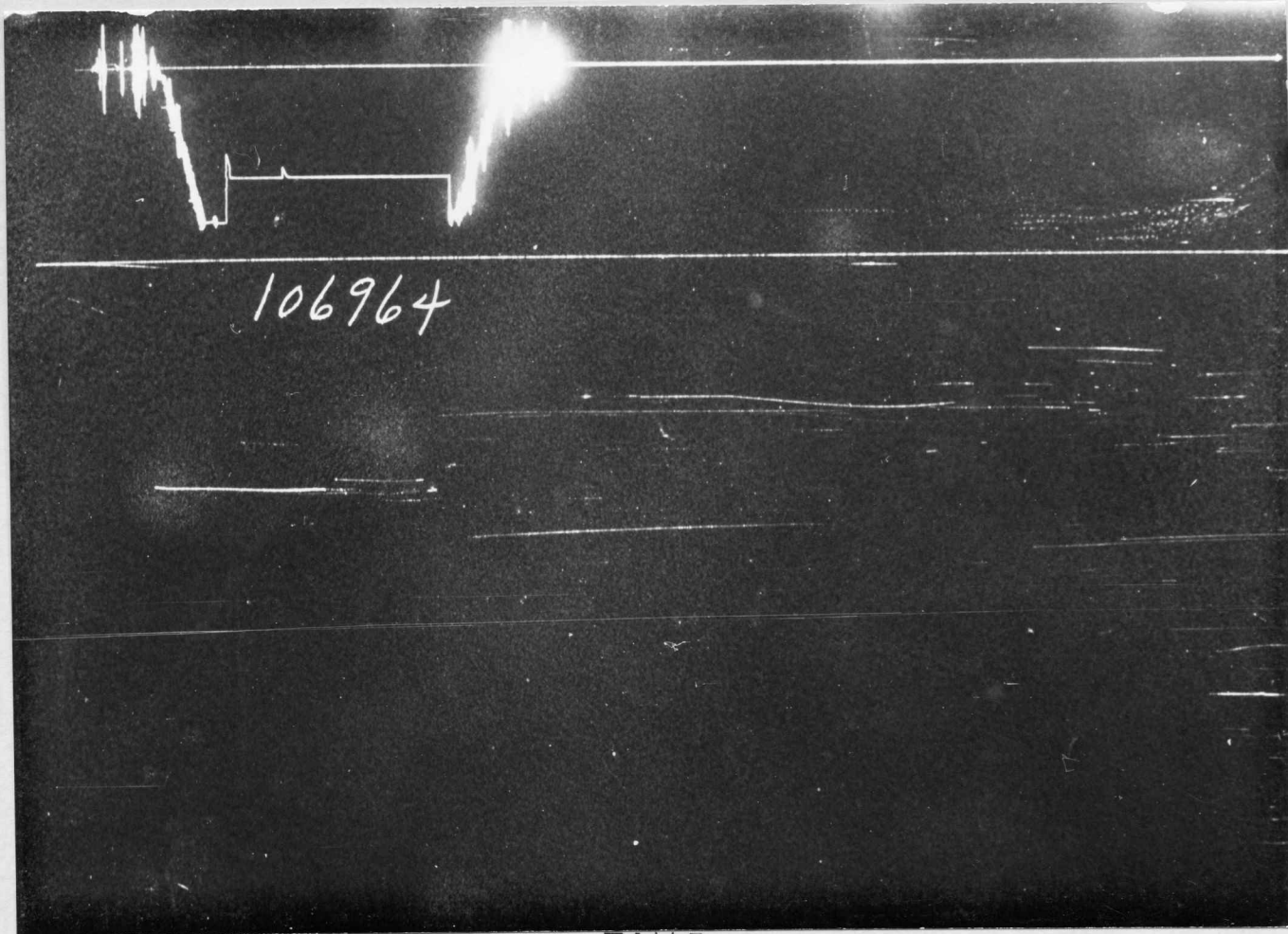
MEYER  
LEASE NAME  
NE NW NE

D-1  
WELL NO.

3  
TEST NO.

CITIES SERVICE OIL COMPANY  
LEASE OWNER

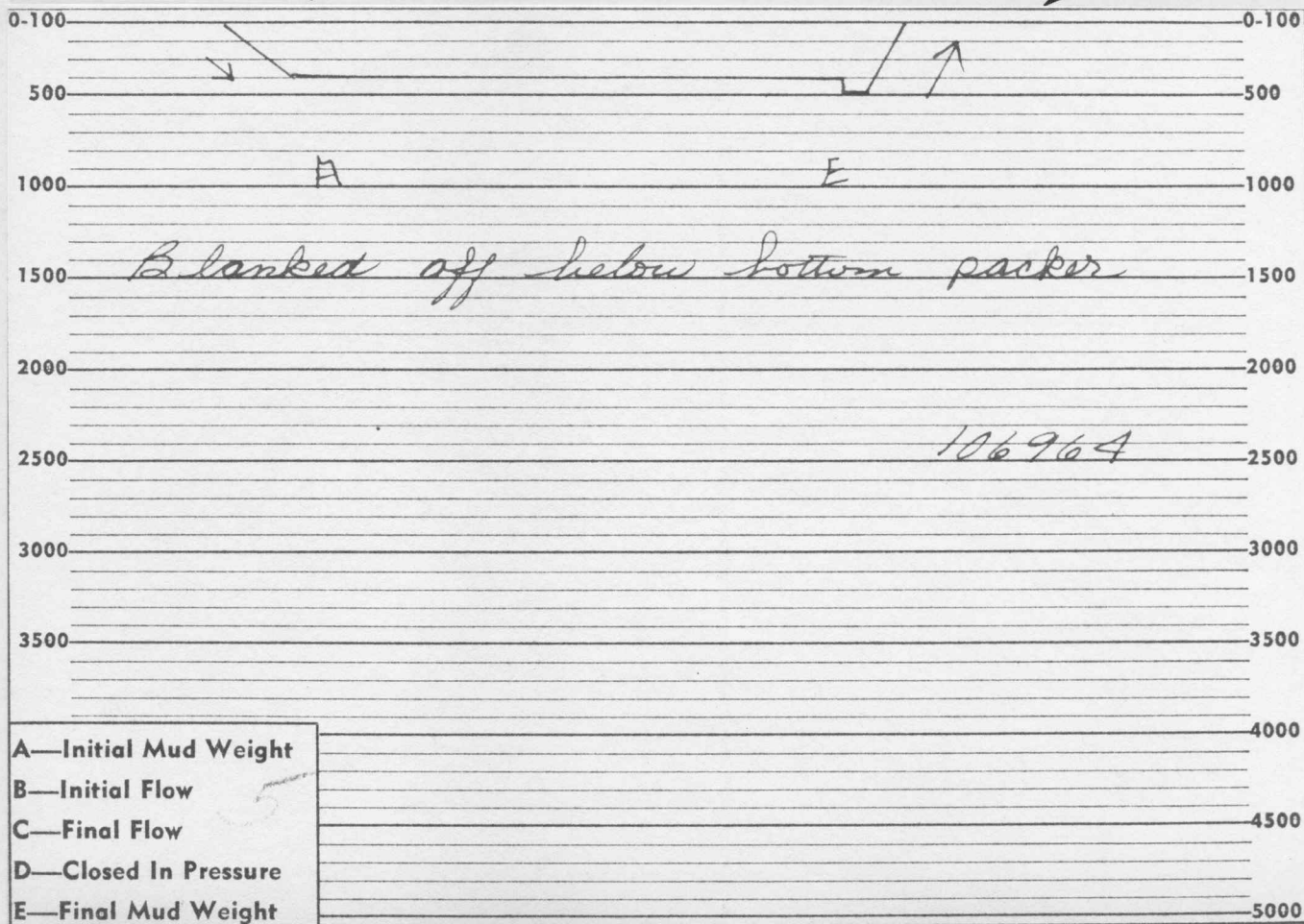
KANSAS 35-11-9E  
OWNERS DISTRICT



106964

PRESSURE

TIME



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