

| | | | | | | | | | |
|----------------------------|-----------|------|------------------|-------------|---|-----------------------------|----------------------------|-------------------------------|--------------------------------------|
| Flow Time | 1st 12 | Min. | 2nd 90 | Min. | Date | 6-5-65 | Ticket Number | 415990 - S | Legal Location Sec. - Twp. - Rng. |
| Closed In Press. Time | 1st 30 | Min. | 2nd 30 | Min. | Kind of Job | OPEN HOLE | Halliburton District | EL DORADO | |
| Pressure Readings | Field | | Office Corrected | | Tester | MR. GASPERSON | Witness | MR. SMITH | |
| Depth Top Gauge | 1880 | Ft. | NO | Blanked Off | Drilling Contractor | SLÆSSER DRILLING COMPANY IC | | | Lease Name |
| BT. P.R.D. No. | 538 | | 12 | Hour Clock | Elevation | - | Top Packer | - | |
| Initial Hydro Mud Pressure | 950 | | 979 | | Total Depth | 1924' | Bottom Packer | 1878' | Well No. |
| Initial Closed in Pres. | 654 | | 686 | | Interval Tested | 1878'-1924' | Formation Tested | MISSISSIPPI | |
| Initial Flow Pres. | 70 | 1 | 101 | | Casing or Hole Size | 7 7/8" | Casing Perfs. | Top | - |
| | 90 | 2 | 109 | | | | | Bot. | |
| Final Flow Pres. | 90 | 1 | 103 | | Surface Choke | 1/4" | Bottom Choke | 3/4" | Test No. |
| | 268 | 2 | 139 | | Size & Kind Drill Pipe | 4 1/2" F.H. | Drill Collars Above Tester | I.D. - LENGTH 2 1/2" x 29' | |
| Final Closed in Pres. | 547 | | 569 | | Mud Weight | 10.1 | Mud Viscosity | - | Field Area |
| Final Hydro Mud Pressure | - | | 961 | | Temperature | 85 | Anchor Size & Length | ID 3 1/2" OD 4" X 46' | |
| Depth Gen. Gauge | | Ft. | | Blanked Off | Depths Mea. From | KELLY BUSHINGS | | Depth of Tester Valve | 1868' Ft. |
| BT. P.R.D. No. | | | | Hour Clock | TYPE AMOUNT | | Cushion | - Ft. | County |
| Initial Hydro Mud Pres. | | | | | | | Depth Back Pres. Valve | - Ft. | |
| Initial Closed in Pres. | | | | | Recovered | 240 | Feet of | Mud with slight scum | Med. From Tester Valve |
| Initial Flow Pres. | | 1 | | | Recovered | | Feet of | of oil & rainbow | |
| Final Flow Pres. | | 1 | | | Recovered | | Feet of | | |
| Final Closed in Pres. | | | | | Recovered | | Feet of | | State |
| Final Hydro Mud Pres. | | | | | Oil A.P.I. Gravity | - | Water Spec. Gravity | - | |
| Depth Bot. Gauge | 1920 | Ft. | YES | Blanked Off | Gas Gravity | - | Surface Pressure | - psi | Owner's District |
| BT. P.R.D. No. | 536 | | 12 | Hour Clock | Tool Opened | 7:00 AM | A.M. P.M. Tool Closed | 9:12 AM A.M. P.M. | |
| Initial Hydro Mud Pres. | - | | 1004 | | Remarks | | | | |
| Initial Closed in Pres. | - | | 711 | | Opened tool for 12 minute 1st flow. Closed tool for 30 minute initial closed in pressure. | | | | |
| Initial Flow Pres. | - | 1 | 121 | | Reopened tool for 90 minute 2nd flow with weak | | | | |
| Final Flow Pres. | - | 1 | 125 | | blow throughout test. Closed tool for 30 minutes | | | | |
| Final Closed in Pres. | - | 2 | 161 | | final closed in pressure. | | | | |
| Final Hydro Mud Pres. | - | | 593 | | Packer slid to bottom and picked up some mud. | | | | |
| Final Hydro Mud Pres. | - | | 982 | | | | | | |

FORMATION TEST DATA

5

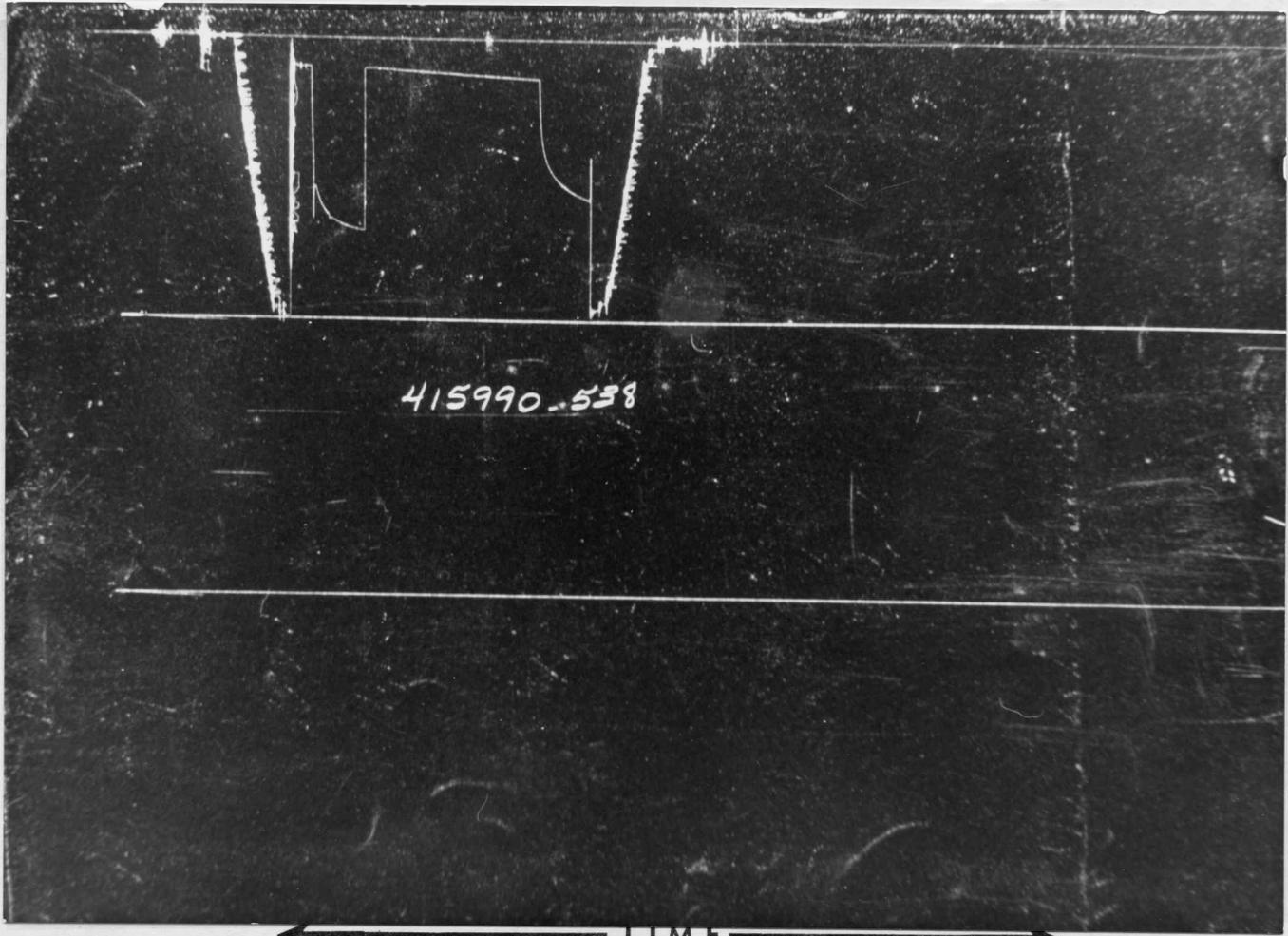
A-77
 Lease Name
 SEC. 1 - T2S - 8E
 Well No.
 Test No.
 5. M. HASSOPFER
 Lease Owner/Company Name
 WILLIAMS
 County
 GEARY
 State
 KANSAS
 Owner's District
 WASHINGTON

| Gauge No. 538 | | Depth 1880' | | Clock 12 hour | | Ticket No. 415990 | | | | |
|-------------------|------------------|----------------------------|------------------|--------------------------|--------------------|-------------------|--------------------------|------------------|--------------------------|------------------|
| First Flow Period | | Initial Closed In Pressure | | | Second Flow Period | | Final Closed In Pressure | | | |
| | Time Defl. .000" | PSIG Temp. Corr. | Time Defl. .000" | Log $\frac{t+\theta}{e}$ | PSIG Temp. Corr. | Time Defl. .000" | PSIG Temp. Corr. | Time Defl. .000" | Log $\frac{t+\theta}{e}$ | PSIG Temp. Corr. |
| P ₀ | .000 | 101 | .000 | | 103 | .000 | 109 | .000 | | 139 |
| P ₁ | .075 | 103 | .0205 | | 541 | .1115 | 110 | .0195 | | 399 |
| P ₂ | | | .0410 | | 596 | .2230 | 117 | .0390 | | 452 |
| P ₃ | | | .0615 | | 626 | .3345 | 123 | .0585 | | 483 |
| P ₄ | | | .0820 | | 646 | .4460 | 128 | .0780 | | 504 |
| P ₅ | | | .1025 | | 657 | .5575 | 133 | .0975 | | 521 |
| P ₆ | | | .1230 | | 667 | .6690 | 139 | .1170 | | 533 |
| P ₇ | | | .1435 | | 674 | | | .1365 | | 544 |
| P ₈ | | | .1640 | | 679 | | | .1560 | | 554 |
| P ₉ | | | .1845 | | 684 | | | .1755 | | 561 |
| P ₁₀ | | | .2050 | | 686 | | | .1950 | | 569 |

| Gauge No. 536 | | Depth 1920' | | Clock 12 hour | | | | | | |
|------------------|------------------|------------------|------------------|--------------------------|------------------|------------------|------------------|------------------|--------------------------|------------------|
| | Time Defl. .000" | PSIG Temp. Corr. | Time Defl. .000" | Log $\frac{t+\theta}{e}$ | PSIG Temp. Corr. | Time Defl. .000" | PSIG Temp. Corr. | Time Defl. .000" | Log $\frac{t+\theta}{e}$ | PSIG Temp. Corr. |
| P ₀ | .000 | 121 | .000 | | 125 | .000 | 129 | .000 | | 161 |
| P ₁ | .078 | 125 | .0207 | | 571 | .1133 | 134 | .0195 | | 430 |
| P ₂ | | | .0414 | | 624 | .2266 | 140 | .0390 | | 481 |
| P ₃ | | | .0621 | | 652 | .3399 | 146 | .0585 | | 511 |
| P ₄ | | | .0828 | | 670 | .4532 | 151 | .0780 | | 531 |
| P ₅ | | | .1035 | | 682 | .5665 | 156 | .0975 | | 546 |
| P ₆ | | | .1242 | | 691 | .6800 | 161 | .1170 | | 559 |
| P ₇ | | | .1449 | | 698 | | | .1365 | | 570 |
| P ₈ | | | .1656 | | 703 | | | .1560 | | 579 |
| P ₉ | | | .1863 | | 708 | | | .1755 | | 586 |
| P ₁₀ | | | .2070 | | 711 | | | .1950 | | 593 |
| Reading Interval | | 3 | | | 15 | | 3 | | | Minutes |

REMARKS:

SPECIAL PRESSURE DATA



415990.538

PRESSURE

TIME



415990.536

PRESSURE

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