

BURTON

1

1

GULF OIL CORPORATION

KANSAS


LEASE

WELL NO.

TEST NO.

COMPANY

DISTRICT

| | | | | | | | | |
|----------------------------|----------------------|-------------------|---|-------------------|--------------------------|-------------------|------------------------|----------|
| LOCATION | 33-26-18W | |  Halliburton OIL WELL CEMENTING CO. | | | Date | 12-19-54 | |
| FIELD | Greensburg | | | | | Ticket No. | 05572 | |
| COUNTY | Edwards | | | | | HOWCO DISTRICT | Pratt | |
| STATE | Kansas | | | | | Kind of Job | Open Hole | |
| CONTRACTOR | Herndon Drilling Co. | | HOLE AND TOOL DATA | | | Price | \$215.00 | |
| MUD DATA | | | Total Depth | 4243' | Casing Perforations | Top - Bottom - | Second Packer Assembly | - |
| Kind | Starch | | Top Packer Depth | 4220' | Bottom Packer Depth | - | Safety Joint | - |
| Weight | 9.9 | lbs.-gal. | Casing or Hole Size | 7 7/8" | Liner or Rathole Size | - | Extra Folder Charge | - |
| Viscosity | 44 | Sec. | Formation Tested | Kansas City | | Jars | 100.00 | |
| Filter Loss | 10.8 | c. c. Filter Cake | Size Drill Pipe | 4 1/2" API FH | Size Drill Collars | 5 3/4" x 114' | | |
| | | 2/32 in. | Size Bottom Choke | 5/8" | Size Surface Choke | 1" | | |
| Est. Gauge Depth Temp. | 110 | F° | Size Hook Wall Packer | - | Size Rings | - | No. Rings | - |
| Time Tool Open | 63 Minutes | | Size D. E. Wall Packer | 6 3/4" ESA | No. Packers | 1 | Total | \$315.00 |
| Time Closed In. | 17 Minutes | | Size & Length Anchor | 5" FJ x 23' Perf. | | Witnessed By | T. Terrel | |
| Depth BT. Gauge | 4235' | Ft. | PRD Device No. | 1726 | Depth | 4239' | Blanked Off | Yes |
| BT. P.R.D. No. | 311 | Blanked Off | REMARKS: Tool opened with a good blow that remained steady | | | | | |
| | | Yes | throughout the test. Gas to surface in 60 minutes. | | | | | |
| 12 | Hr. Clock No. | 1131 | Recovered 220' of very heavily oil & gas cut mud. | | | | | |
| Pressure Readings | Field | Office Corrected | | | | | | |
| Initial Hydro Mud Pressure | | 2187 | p.s.i. | | | | | |
| Initial Flow Pres. | | 65 | p.s.i. | | | | | |
| Final Flow Pres. | | 100 | p.s.i. | | | | | |
| Closed in Pres. | | 1334 | p.s.i. | | | | | |
| Final Hydro Mud Pressure | | 2178 | p.s.i. | | | | | |
| | | | Amount of Cushion | None | All depths measured from | Kelly Bushing | No. Folders Reproduced | 5 |

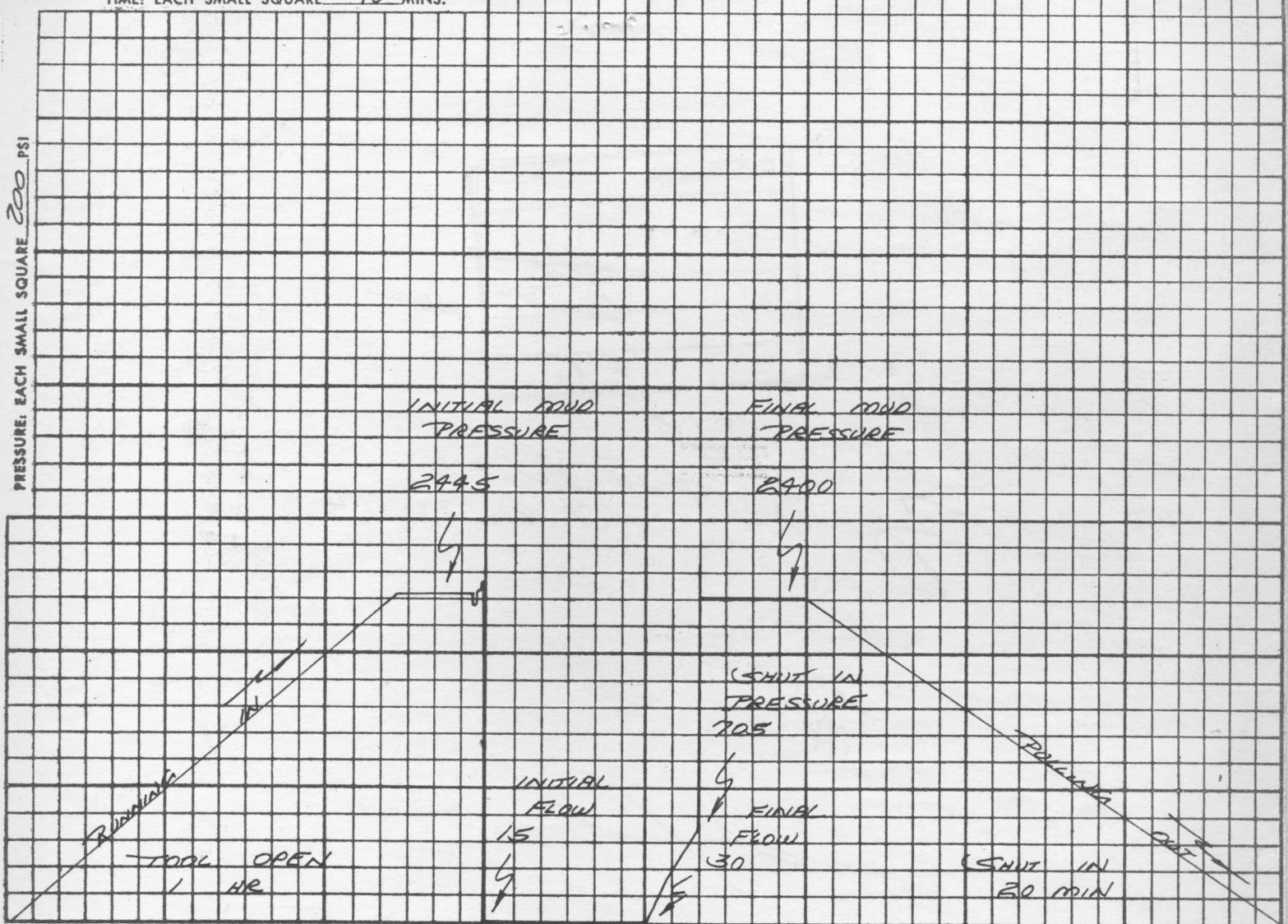
TIME



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

TIME: EACH SMALL SQUARE 10 MINS.

PRESSURE, EACH SMALL SQUARE 200 PSI



CHARGES

L-454

| | | |
|-----------------------------|---------------------|----------|
| Formation | Test at 4657', \$ | * 230.00 |
| Misrun at | ' , \$ | |
| Rental on Tools | —16 Hours at \$2.50 | |
| Safety Joint | | |
| Dual Wall Packers | | |
| Testing Between Two Packers | | |
| Service Charge | | |
| Mileage Charge | Mls. at | ¢ |
| Jars | | |
| Operators' Time | —16 Hours at \$2.50 | |
| Reservoir Sampler | | |
| Damaged Rubber Packer | | X |

SUBSURFACE PRESSURE DATA

| | Field Reading | | Corrected Reading | |
|-----------------------|---------------|--------|-------------------|--------|
| | TOP | BOTTOM | TOP | BOTTOM |
| Recorder No. | | | L-454 | |
| Initial BH Flow | | | 16 | |
| Final BH Flow | | | 30 | |
| Max. Recorded Shut In | | | 705 | |
| Initial Hydrostatic | | | 2445 | |
| Final Hydrostatic | | | 2400 | |



JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, Calif. Test Ticket No. 16479

Date 12-24-54 Customer's Order No. G 80779
 COMPANY Gulf Oil Corporation
 LEASE AND WELL No. Burton #1
 FIELD - COUNTY Edwards STATE Kansas
 Mail Inv. To Box 544 Chase Kansas
 Mail Charts To same

LEASE AND WELL NO. Burton #1

| | |
|---|---|
| Formation Test No. <u>2</u> OK? <u>2</u> Misrun? <u> </u> | Casing Test No. <u> </u> OK? <u> </u> Misrun? <u> </u> |
| Total Depth <u>4730'</u> | Total (or PB) Depth <u> </u> |
| Interval Tested <u>4698'</u> to <u>4730'</u> | Perforations <u> </u> to <u> </u> |
| Size: Main Hole <u>7-7/8"</u> Rat Hole <u> </u> | Size Casing <u> </u> Liner <u> </u> |
| Packer(s) Set At <u>4698'</u> | Packer(s) Set At <u> </u> |
| Packer Size <u>6-5/8"</u> Type <u>B.T.</u> | Packer Size <u> </u> Type <u> </u> |
| Anchor Length <u>32'</u> Size <u>4 1/2"</u> Type <u>F.H.</u> | Anchor Length <u> </u> Size <u> </u> |
| Tool Size <u>3 1/2" Reg.</u> Tool Joint Size <u>4 1/2" F.H.</u> | Tool Size <u> </u> Tool Joint Size <u> </u> |

Fluid Cushion none Kind Mud Weight 9.9 Viscosity 45
 PRESSURE RECORDERS: Top Make Long Cap 4500 No; 454 Bottom Make Long Cap 3000 No. 176
 Below Straddle Top Make Cap No; Bottom Make Cap No.

RESULTS
 Set Packer 2:45^A M; Tool Open 1 Hrs. Min: Shut-in Hrs. 20 Min. Packer Set 1 Hrs. 20 Min.
 Size Choke 1/2" Max. Press. psi Time Description (Rate) of Flow
 Surface 1/2"
 Information

Blow Fair throughout test. Bottom Choke Size 1/2"
 Max. Surface Press # Did Well Flow? Yes No x; Fluid Rise: 40'
Oil, Gas, Water, 40' Mud, Sand

REMARKS

 Max. Temp. °F
 Type Circulating Tool sleeve Pump Press. none Hrs. Min.
 Bottom Hole Sample Bomb no Jar: Size none Make No.
 Extra Equipment none
 Was Choke Plugged? no Perf. Plugged? no Other? no Did Mud Fall During Test? no
 No. Rubbers Damaged? none Tool Rental Time 10 Operator's Time 12

JOHNSTON TESTERS, INC. shall not be liable for damage of any kind to the property or personnel of the party for whom a test is made, or for any loss suffered or sustained directly or indirectly, through or in the course of the use of its equipment, or its statement or opinion concerning the result of any test, all of which loss or damage is assumed by the customer. Tools lost or damaged in the hole shall be paid for at the cost by the party for whom test is made.

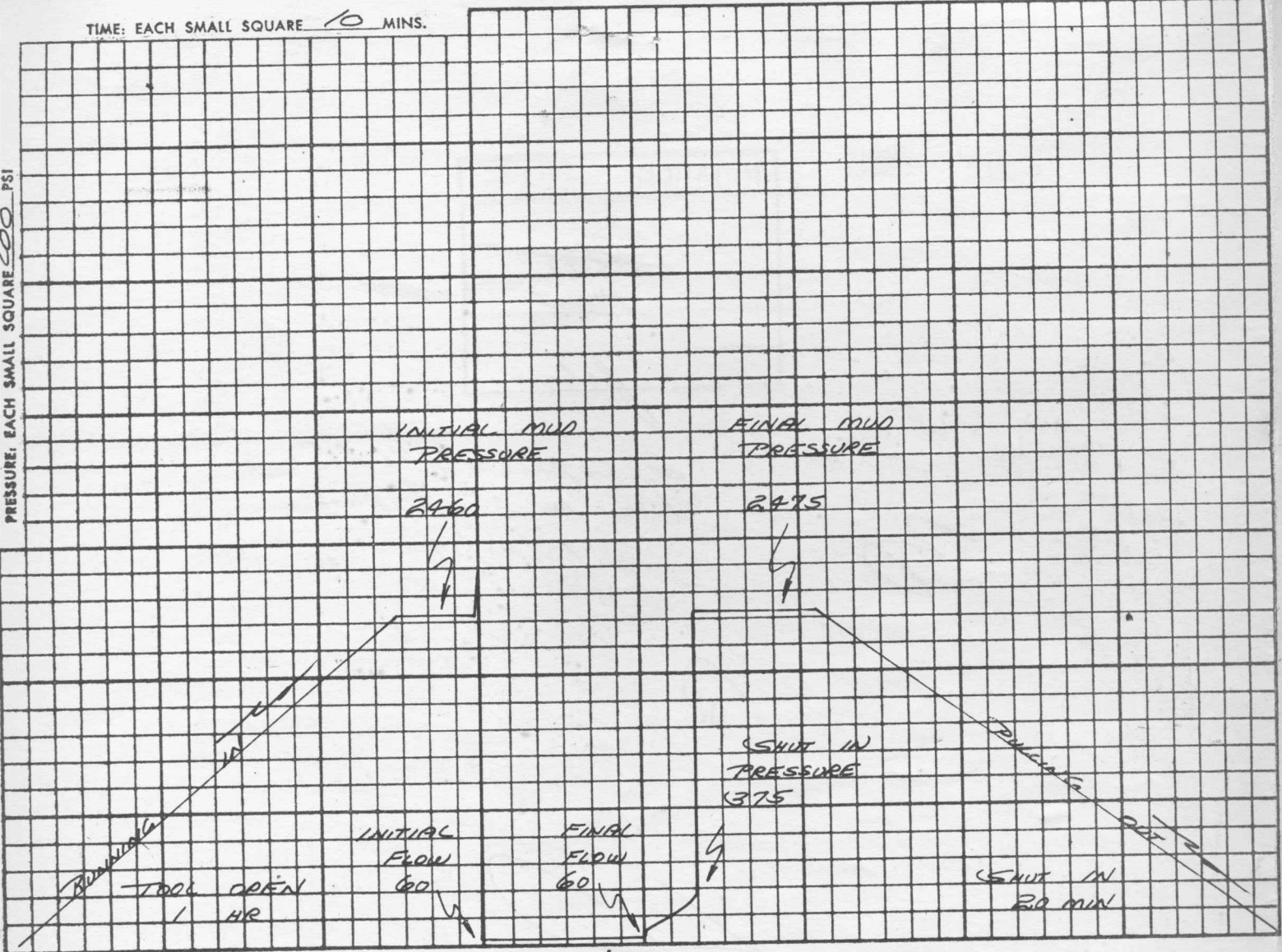
OPERATOR: H. M. Raymer TEST APPROVED BY: R. G. Bachtelf

No. of Copies Requested

FORMATION TEST NO.

TIME: EACH SMALL SQUARE 10 MINS.

PRESSURE: EACH SMALL SQUARE 100 PSI



CHARGES

| | |
|-------------------------------------|---------------------|
| Formation Test at 4730', \$ | 230.00* |
| Misrun at _____', \$ | |
| Rental on Tools _____ | —16 Hours at \$2.50 |
| Safety Joint _____ | |
| Dual Wall Packers _____ | |
| Testing Between Two Packers _____ | |
| Service Charge _____ | |
| Mileage Charge _____ Mls. at _____¢ | |
| Jars _____ | |
| Operators' Time _____ | —16 Hours at \$2.50 |
| Reservoir Sampler _____ | |
| Damaged Rubber Packer _____ | X |

I-454

SUBSURFACE PRESSURE DATA

| | Field Reading | | Corrected Reading | |
|-----------------------|---------------|--------|-------------------|--------|
| | TOP | BOTTOM | TOP | BOTTOM |
| Recorder No. | | | I-454 | |
| Initial BH Flow | | | 60 | |
| Final BH Flow | | | 60 | |
| Max. Recorded Shut In | | | 375 | |
| Initial Hydrostatic | | | 2460 | |
| Final Hydrostatic | | | 2475 | |



JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, Calif. Test Ticket No. 22231

Date 12-28-54 Customer's Order No. G 81428
 COMPANY Gulf Oil Corporation
 LEASE AND WELL No. Burton #1
 FIELD Wildcat COUNTY Edwards STATE Kansas
 Mail Inv. To Box 85 Bushton Kansas
 Mail Charts To same

| | |
|---|---|
| Formation Test No. <u>4</u> OK? <u>4</u> Misrun? _____ | Casing Test No. _____ OK? _____ Misrun? _____ |
| Total Depth <u>4855'</u> | Total (or PB) Depth _____ |
| Interval Tested <u>4850'</u> to <u>4855'</u> | Perforations _____ to _____ |
| Size: Main Hole <u>7-7/8"</u> Rat Hole _____ | Size Casing _____ Liner _____ |
| Packer(s) Set At <u>4850'</u> | Packer(s) Set At _____ |
| Packer Size <u>6 1/2"</u> Type <u>B.T.</u> | Packer Size _____ Type _____ |
| Anchor Length <u>5'</u> Size <u>4 1/2"</u> Type <u>F.H.</u> | Anchor Length _____ Size _____ |
| Tool Size <u>3 1/2" Reg.</u> Tool Joint Size <u>4 1/2" F.H.</u> | Tool Size _____ Tool Joint Size _____ |

Fluid Cushion none Kind _____ Mud Weight _____ Viscosity _____
 PRESSURE RECORDERS: Top Make Long Cap 3000 No; 222 Bottom Make Long Cap 3000 No. 221
 Below Straddle Top Make _____ Cap _____ No; Bottom Make _____ Cap _____ No.

RESULTS
 Set Packer 4:06 PM; Tool Open 1 Hrs. _____ Min: Shut-in _____ Hrs. 20 Min. Packer Set 1 Hrs. 20 Min.
 Size Choke _____ Max. Press. psi _____ Time _____ Description (Rate) of Flow _____
 Surface 1/2" _____
 Information _____

Blow Weak 30 mins. Weak intermittent throughout Bottom Choke Size 1/2"
rest of test.
 Max. Surface Press 0 # Did Well Flow? Yes _____ No X; Fluid Rise: 25'
 Oil, _____ Gas, _____ Water, 25' rotary Mud, _____ Sand

REMARKS _____

Max. Temp. °F _____
 Type Circulating Tool sleeve Pump Press. none Hrs. _____ Min. _____
 Bottom Hole Sample Bomb no Jar: Size 3 1/2" Make Bowen No. 633
 Extra Equipment Jars
 Was Choke Plugged? no Perf. Plugged? no Other? no Did Mud Fall During Test? no
 No. Rubbers Damaged? none Tool Rental Time 10 Operator's Time 16

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OPERATOR: B. E. Johnson TEST APPROVED BY: Byron A. Starrer

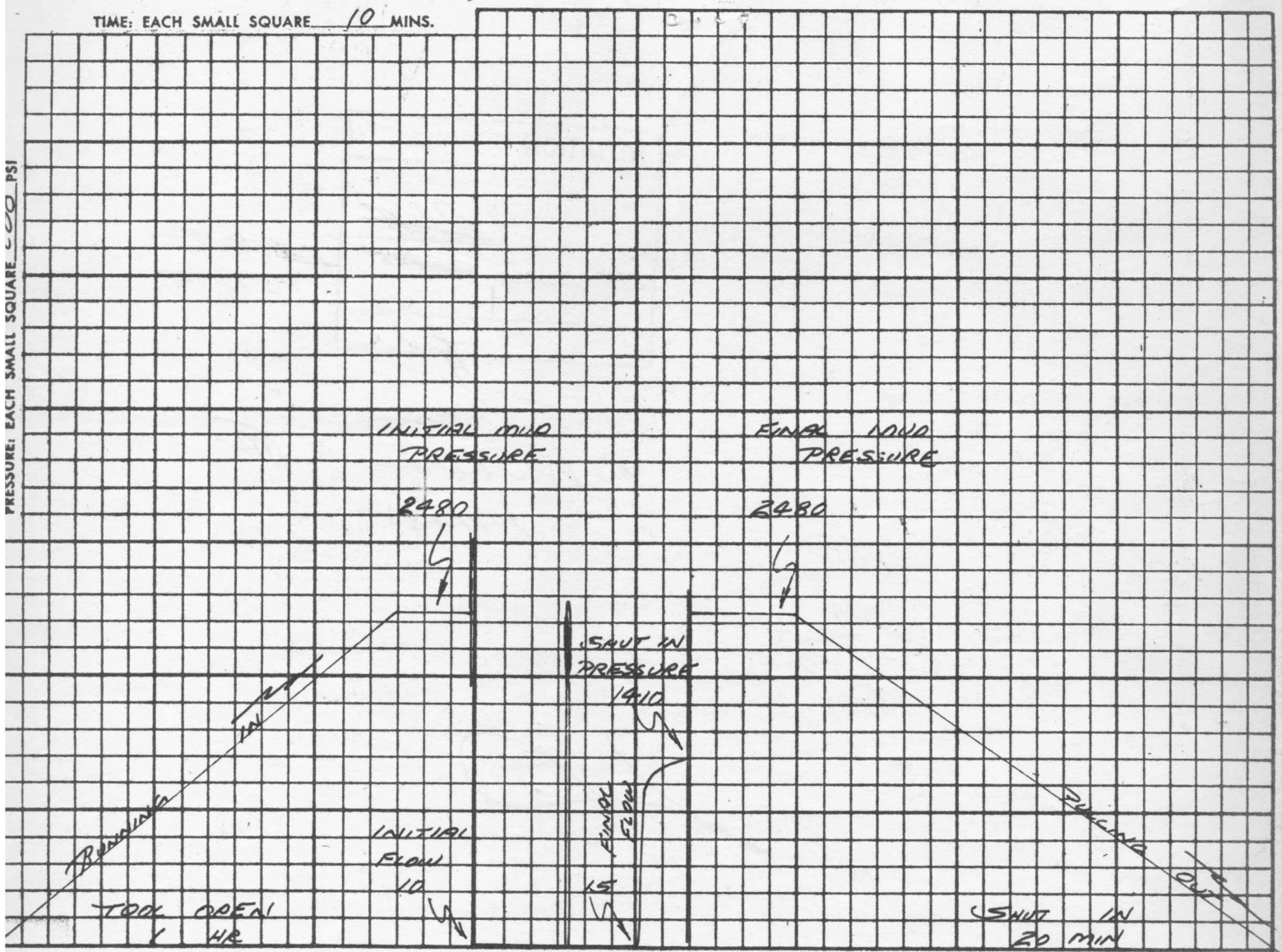
No. of Copies Requested 4

LEASE AND WELL NO. Burton #1

FORMATION TEST NO. 4

TIME: EACH SMALL SQUARE 10 MINS.

PRESSURE, EACH SMALL SQUARE 20 PSI



CHARGES

| | |
|--|-----------|
| Formation Test at 4855', \$ | 230.00 |
| Misrun at _____', \$ | |
| Rental on Tools _____—16 Hours at \$2.50 | |
| Safety Joint _____ | |
| Dual Wall Packers _____ | |
| Testing Between Two Packers _____ | |
| Service Charge _____ | |
| Mileage Charge _____ Mls. at _____¢ | |
| Bowen Jars _____ | 100.00 |
| Operators' Time _____—16 Hours at \$2.50 | |
| Reservoir Sampler _____ | |
| Damaged Rubber Packer _____ | X |
| | \$330.00* |

L-222

SUBSURFACE PRESSURE DATA

| | Field Reading | | Corrected Reading | |
|-----------------------|---------------|--------|-------------------|--------|
| | TOP | BOTTOM | TOP | BOTTOM |
| Recorder No. | | | L-222 | |
| Initial BH Flow | | | 10 | |
| Final BH Flow | | | 15 | |
| Max. Recorded Shut In | 1545 | | 1410 | |
| Initial Hydrostatic | 2620 | | 2480 | |
| Final Hydrostatic | 2620 | | 2480 | |



JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, Calif. Test Ticket No. 22232

Date 12-29-54

Customer's Order No. G-81429

COMPANY Gulf Oil Corporation

LEASE AND WELL No. Burton #1

FIELD Wildcat COUNTY Edwards STATE Kansas

Mail Inv. To Box 85, Bushton, Kansas

Mail Charts To same

| | |
|--|---|
| Formation Test No. <u>5</u> OK? <u>5</u> Misrun? _____ | Casing Test No. _____ OK? _____ Misrun? _____ |
| Total Depth <u>4888'</u> | Total (or PB) Depth _____ |
| Interval Tested <u>4855'</u> to <u>4888'</u> | Perforations _____ to _____ |
| Size: Main Hole <u>7-7/8"</u> Rat Hole <u>-</u> | Size Casing _____ Liner _____ |
| Packer(s) Set At <u>4855'</u> | Packer(s) Set At _____ |
| Packer Size <u>6 1/2</u> Type <u>Bob-tail</u> | Packer Size _____ Type _____ |
| Anchor Length <u>33</u> Size <u>4 1/2</u> Type <u>F.H.</u> | Anchor Length _____ Size _____ |
| Tool Size <u>3 1/2</u> Reg Tool Joint Size <u>4 1/2-F.H.</u> | Tool Size _____ Tool Joint Size _____ |

Fluid Cushion None Kind - Mud Weight 9.8 Viscosity 45

PRESSURE RECORDERS: Top Make Long Cap 3000 No; 222 Bottom Make Long Cap 3000 No. 221

Below Straddle Top Make _____ Cap _____ No; Bottom Make _____ Cap _____ No.

RESULTS

Set Packer 1:05 P.M.; Tool Open 1 Hrs. _____ Min: Shut-in _____ Hrs. 20 Min. Packer Set 1 Hrs. 20 Min.

| Size Choke | Max. Press. psi | Time | Description (Rate) of Flow |
|---------------------|-----------------|-------|----------------------------|
| Surface <u>1/2"</u> | _____ | _____ | _____ |
| Information _____ | _____ | _____ | _____ |

Blow Weak thru-out test. Bottom Choke Size 1/2"

Max. Surface Press 0# # Did Well Flow? Yes _____ No X; Fluid Rise: 120'

Oil, _____ Gas, 120' muddy salt water, Mud, _____ Sand _____

REMARKS _____

_____ Max. Temp. °F _____

Type Circulating Tool sleeve Pump Press. _____ Hrs. _____ Min. _____

Bottom Hole Sample Bomb no Jar: Size 3 1/2 Make Bowen No. 633

Extra Equipment 3 1/2 Bowen Jars)

Was Choke Plugged? no Perf. Plugged? no Other? no Did Mud Fall During Test? no

No. Rubbers Damaged? Yes Tool Rental Time 8 Operator's Time 12

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OPERATOR: B.E. Johnson

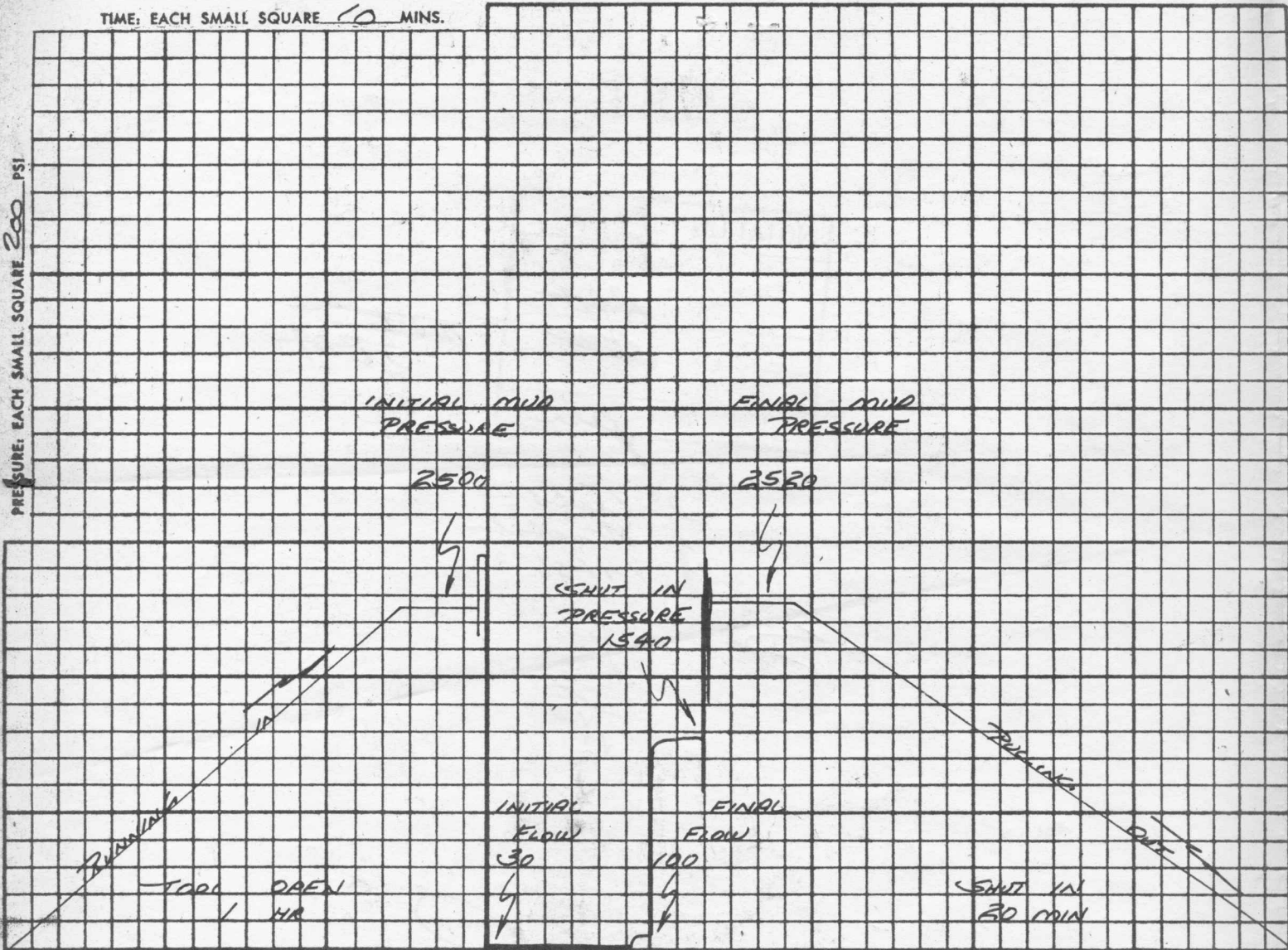
TEST APPROVED BY: Byron A. Starrer

No. of Copies Requested 4

LEASE AND WELL NO. BURTON #1 TEST NO. 5

TIME: EACH SMALL SQUARE 10 MINS.

PRESSURE: EACH SMALL SQUARE 200 PSI



CHARGES

L-222

| | |
|--|-----------|
| Formation Test at 4888', \$ | 230.00 |
| Misrun at _____', \$ | |
| Rental on Tools _____—16 Hours at \$2.50 | |
| Safety Joint | |
| Dual Wall Packers | |
| Testing Between Two Packers | |
| Service Charge | |
| Mileage Charge _____ Mls. at _____¢ | |
| _____ Jars | 100.00 |
| Operators' Time _____—16 Hours at \$2.50 | |
| Reservoir Sampler | |
| Damaged Rubber Packer _____ X | |
| | \$ 330.00 |

SUBSURFACE PRESSURE DATA

| | Field Reading | | Corrected Reading | |
|-----------------------|---------------|--------|-------------------|--------|
| | TOP | BOTTOM | TOP | BOTTOM |
| Recorder No. | | | L-222 | |
| Initial BH Flow | 0 | | 30 | |
| Final BH Flow | 150 | | 100 | |
| Max. Recorded Shut In | 1550 | | 1540 | |
| Initial Hydrostatic | 2645 | | 2500 | |
| Final Hydrostatic | 2645 | | 2520 | |
| | | | | |
| | | | | |