



Home Office: Wichita, Kansas 67201  
P. O. Box 1599 (316) 838-0601

Company Texas Oil & Gas Corp. Lease & Well No. Frankhauser A-#2  
Elevation - Formation Cherokee Effective Pay - Ft. Ticket No. 23349  
Date 11-26-77 Sec. 23 Twp. 27S Range 16W County Kiowa State Kansas  
Test Approved by K. W. Dahlberg Western Representative Joe N. Lusk  
Formation Test No. - O.K. X Misrun - Interval Tested From 4505' to 4544' Total Depth 4544'  
Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No  
Top Packer Depth 4500 Ft. Size 6 3/4 Bottom Packer Depth 4505 Ft. Size 6 3/4  
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -  
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 39 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
RECORDERS Depth 4511 Ft. Clock No. 10168 Depth 4514 Ft. Clock No. 6800  
Top Make Kuster Cap. 4150 No. 969 ~~Inside~~ Outside Bottom Make Kuster Cap. 4400 No. 2603 ~~==Inside==~~ Outside  
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside  
Time Set Packer 1:53P M  
Tool Open I.F.P. From 1:55 M. to 2:25 M. - Hr. 30 Min. From (B) 117 P.S.I. To (C) 84 P.S.I.  
Tool Closed I.C.I.P. From 2:25 M. to 3:25 M. - Hr. 60 Min (D) 1548 P.S.I.  
Tool Open F.F.P. From 3:25 M. to 4:10 M. - Hr. 45 Min. From (E) 92 P.S.I. To (F) 83 P.S.I.  
Tool Closed F.C.I.P. From 4:10 M. to 5:40 M. - Hr. 90 Min. (G) 1553 P.S.I.  
Initial Hydrostatic Pressure (A) 2184 P.S.I. Final Hydrostatic Pressure (H) 2175 P.S.I. Maximum Temp. 130

#### INFORMATION

BLOW Strong blow on initial flow period.  
Did Well Flow - Yes X No Recovery Total Ft. 139' watery mud.  
Reversed Out - Yes X No Mud Type Starch Viscosity 34 Weight 9.2 Water Loss 6.1 cc. Chlorides 16,500 ppm  
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 OD In. Make W.T.C. Ser. No. -  
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -  
DRILLING CONTRACTOR Xplor Drilling Length Drill Pipe? 4229 Ft. I.D. Drill Pipe 3.0 In. Tool Joint Size 4" FH In.  
Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 246 Ft. I.D. Drill Collars 2 1/4 In.  
Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 69 Ft.  
Remarks: Opened tool and slid in approximately 8'.  
Chlorides Checked: Top 10,000 ppm; Middle 10,000 ppm; Bottom 8,000 ppm.



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## GAS FLOW REPORT

Date 11-26-77 Ticket 23349 Company Texas Oil & Gas Corp.  
Well Name and No. Frankhauser "A" #2 Dst No. 1 Interval Tested 4505' to 4544'  
County Kiowa State Kansas Sec. 23 Twp. 27S Rg. 16W

| Time Gauge Pre-Flow | Time Gauge in Min. | P.S.I. on Merla Orifice Well Tester | P.S.I. on Pitot Tester | P.S.I. on Side Static Tester | P.S.I. on U-Tube Tester | Description of Flow |
|---------------------|--------------------|-------------------------------------|------------------------|------------------------------|-------------------------|---------------------|
| PRE FLOW            |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |

## SECOND FLOW

|                          |         |              |  |                         |  |                |
|--------------------------|---------|--------------|--|-------------------------|--|----------------|
| Gas to Surface in 5 Min. |         |              |  |                         |  |                |
| 3:35P                    | 10 Min. | 26" of Water |  | 1/4" Orifice            |  | 8,560 C.F.P.D. |
| 3:40P                    | 15 "    |              |  | Changing Orifice Plates |  |                |
| 3:45P                    | 20 "    | 34" "        |  | 1/4" Orifice            |  | 9,790 C.F.P.D. |
| 3:50P                    | 25 "    | 60" "        |  | 1/4" "                  |  | 13,000 "       |
| 3:55P                    | 30 "    | 62" "        |  | 1/4" "                  |  | 13,200 "       |
| 4:00P                    | 35 "    | 62" "        |  | 1/4" "                  |  | 13,200 "       |
| 4:05P                    | 40 "    | 64" "        |  | 1/4" "                  |  | 13,400 "       |
| 4:10P                    | 45 "    | 66" "        |  | 1/4" "                  |  | 13,600 "       |
|                          |         |              |  |                         |  |                |
|                          |         |              |  |                         |  |                |
|                          |         |              |  |                         |  |                |

## GAS BOTTLE

Serial No. - Date Bottle Filled 11-26-77 Date to be Invoiced 11-26-77

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Texas Oil & Gas Corp.

Authorized by K. W. Dahlberg

# WESTERN TESTING CO., INC.

## Pressure Data

Date 11-26-77 Test Ticket No. 23349  
 Recorder No. 969 Capacity 4150 Location 4511 Ft.  
 Clock No. 10168 Elevation - Well Temperature 130 °F

| Point                          | Pressure |        | Time Given | Time Computed |
|--------------------------------|----------|--------|------------|---------------|
| A Initial Hydrostatic Mud      | 2184     | P.S.I. | 1:53 P M   |               |
| B First Initial Flow Pressure  | 117      | P.S.I. | 30         | Mins. 30      |
| C First Final Flow Pressure    | 84       | P.S.I. | 60         | Mins. 57      |
| D Initial Closed-in Pressure   | 1548     | P.S.I. | 45         | Mins. 40      |
| E Second Initial Flow Pressure | 92       | P.S.I. | 90         | Mins. 87      |
| F Second Final Flow Pressure   | 83       | P.S.I. |            |               |
| G Final Closed-in Pressure     | 1553     | P.S.I. |            |               |
| H Final Hydrostatic Mud        | 2173     | P.S.I. |            |               |

## PRESSURE BREAKDOWN

| First Flow Pressure         |            | Initial Shut-In             |             | Second Flow Pressure        |           | Final Shut-In               |             |
|-----------------------------|------------|-----------------------------|-------------|-----------------------------|-----------|-----------------------------|-------------|
| Breakdown: <u>6</u> Inc.    |            | Breakdown: <u>19</u> Inc.   |             | Breakdown: <u>8</u> Inc.    |           | Breakdown: <u>29</u> Inc.   |             |
| of <u>5</u> mins. and a     |            | of <u>3</u> mins. and a     |             | of <u>5</u> mins. and a     |           | of <u>3</u> mins. and a     |             |
| final inc. of <u>0</u> Min. |            | final inc. of <u>0</u> Min. |             | final inc. of <u>0</u> Min. |           | final inc. of <u>0</u> Min. |             |
| Point Mins.                 | Press.     | Point Minutes               | Press.      | Point Minutes               | Press.    | Point Minutes               | Press.      |
| P 1 <u>0</u>                | <u>117</u> | <u>0</u>                    | <u>84</u>   | <u>0</u>                    | <u>92</u> | <u>0</u>                    | <u>83</u>   |
| P 2 <u>5</u>                | <u>99</u>  | <u>3</u>                    | <u>207</u>  | <u>5</u>                    | <u>88</u> | <u>3</u>                    | <u>207</u>  |
| P 3 <u>10</u>               | <u>92</u>  | <u>6</u>                    | <u>451</u>  | <u>10</u>                   | <u>85</u> | <u>6</u>                    | <u>461</u>  |
| P 4 <u>15</u>               | <u>88</u>  | <u>9</u>                    | <u>699</u>  | <u>15</u>                   | <u>84</u> | <u>9</u>                    | <u>715</u>  |
| P 5 <u>20</u>               | <u>85</u>  | <u>12</u>                   | <u>908</u>  | <u>20</u>                   | <u>84</u> | <u>12</u>                   | <u>912</u>  |
| P 6 <u>25</u>               | <u>84</u>  | <u>15</u>                   | <u>1086</u> | <u>25</u>                   | <u>83</u> | <u>15</u>                   | <u>1079</u> |
| P 7 <u>30</u>               | <u>84</u>  | <u>18</u>                   | <u>1222</u> | <u>30</u>                   | <u>83</u> | <u>18</u>                   | <u>1228</u> |
| P 8                         |            | <u>21</u>                   | <u>1329</u> | <u>35</u>                   | <u>83</u> | <u>21</u>                   | <u>1343</u> |
| P 9                         |            | <u>24</u>                   | <u>1408</u> | <u>40</u>                   | <u>83</u> | <u>24</u>                   | <u>1418</u> |
| P10                         |            | <u>27</u>                   | <u>1455</u> |                             |           | <u>27</u>                   | <u>1467</u> |
| P11                         |            | <u>30</u>                   | <u>1485</u> |                             |           | <u>30</u>                   | <u>1494</u> |
| P12                         |            | <u>33</u>                   | <u>1504</u> |                             |           | <u>33</u>                   | <u>1511</u> |
| P13                         |            | <u>36</u>                   | <u>1517</u> |                             |           | <u>36</u>                   | <u>1525</u> |
| P14                         |            | <u>39</u>                   | <u>1526</u> |                             |           | <u>39</u>                   | <u>1531</u> |
| P15                         |            | <u>42</u>                   | <u>1533</u> |                             |           | <u>42</u>                   | <u>1536</u> |
| P16                         |            | <u>45</u>                   | <u>1538</u> |                             |           | <u>45</u>                   | <u>1541</u> |
| P17                         |            | <u>48</u>                   | <u>1541</u> |                             |           | <u>48</u>                   | <u>1544</u> |
| P18                         |            | <u>51</u>                   | <u>1544</u> |                             |           | <u>51</u>                   | <u>1546</u> |
| P19                         |            | <u>54</u>                   | <u>1546</u> |                             |           | <u>54</u>                   | <u>1547</u> |
| P20                         |            | <u>57</u>                   | <u>1548</u> |                             |           | <u>57</u>                   | <u>1558</u> |
|                             |            |                             |             |                             |           | <u>60</u>                   | <u>1549</u> |

# WESTERN TESTING CO., INC.

## Pressure Data

Date 11-26-77 Test Ticket No. 23349  
 Recorder No. 969 Capacity 4150 Location 4511 Ft.  
 Clock No. 10168 Elevation - Well Temperature 130 °F

| Point                          | Pressure |        | Time Given | Time Computed |
|--------------------------------|----------|--------|------------|---------------|
| A Initial Hydrostatic Mud      | 2184     | P.S.I. | 1:53 P M   |               |
| B First Initial Flow Pressure  | 117      | P.S.I. | 30 Mins.   | 30 Mins.      |
| C First Final Flow Pressure    | 84       | P.S.I. | 60 Mins.   | 57 Mins.      |
| D Initial Closed-in Pressure   | 1548     | P.S.I. | 45 Mins.   | 40 Mins.      |
| E Second Initial Flow Pressure | 92       | P.S.I. | 90 Mins.   | 87 Mins.      |
| F Second Final Flow Pressure   | 83       | P.S.I. |            |               |
| G Final Closed-in Pressure     | 1553     | P.S.I. |            |               |
| H Final Hydrostatic Mud        | 2173     | P.S.I. |            |               |

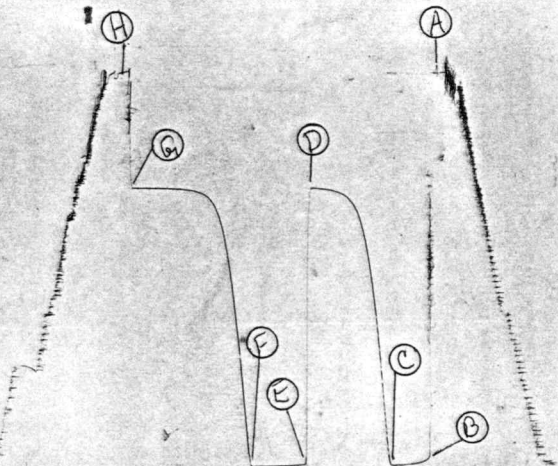
### PRESSURE BREAKDOWN

| First Flow Pressure         |        | Initial Shut-In             |        | Second Flow Pressure        |        | Final Shut-In               |        |
|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|
| Breakdown: <u>6</u> Inc.    |        | Breakdown: <u>19</u> Inc.   |        | Breakdown: <u>8</u> Inc.    |        | Breakdown: <u>29</u> Inc.   |        |
| of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        | of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        |
| final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        |
| Point Mins.                 | Press. | Point Minutes               | Press. | Point Minutes               | Press. | Point Minutes               | Press. |
| P 1                         |        |                             |        |                             |        | 63                          | 1550   |
| P 2                         |        |                             |        |                             |        | 66                          | 1550   |
| P 3                         |        |                             |        |                             |        | 69                          | 1551   |
| P 4                         |        |                             |        |                             |        | 72                          | 1551   |
| P 5                         |        |                             |        |                             |        | 75                          | 1552   |
| P 6                         |        |                             |        |                             |        | 78                          | 1552   |
| P 7                         |        |                             |        |                             |        | 81                          | 1553   |
| P 8                         |        |                             |        |                             |        | 84                          | 1553   |
| P 9                         |        |                             |        |                             |        | 87                          | 1553   |
| P10                         |        |                             |        |                             |        |                             |        |
| P11                         |        |                             |        |                             |        |                             |        |
| P12                         |        |                             |        |                             |        |                             |        |
| P13                         |        |                             |        |                             |        |                             |        |
| P14                         |        |                             |        |                             |        |                             |        |
| P15                         |        |                             |        |                             |        |                             |        |
| P16                         |        |                             |        |                             |        |                             |        |
| P17                         |        |                             |        |                             |        |                             |        |
| P18                         |        |                             |        |                             |        |                             |        |
| P19                         |        |                             |        |                             |        |                             |        |
| P20                         |        |                             |        |                             |        |                             |        |

969

TK# 23349

I.



2603

TK+ # 23349

O.



Home Office: Wichita, Kansas 67201  
P. O. Box 1599 (316) 838-0601

Company Texas Oil & Gas Corp. Lease & Well No. Frankhauser A-#2  
Elevation - Formation Mississippi Effective Pay - Ft. Ticker No. 23350  
Date 11-27-77 Sec. 23 Twp. 27S Range 16W County Kiowa State Kansas  
Test Approved by K. W. Dahlberg Western Representative Joe N. Lusk  
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 4575' to 4596' Total Depth 4596'  
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No  
Top Packer Depth 4570 Ft. Size 6 3/4 Bottom Packer Depth 4575 Ft. Size 6 3/4  
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -  
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 21 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
RECORDERS Depth 4580 Ft. Clock No. 10168 Depth 4583 Ft. Clock No. 6800  
Top Make Kuster Cap. 4150 No. 969 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 Inside Outside  
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside  
Time Set Packer 10:53A M  
Tool Open I.F.P. From 10:55 M. to 11:25 M. - Hr. 30 Min. From (B) 63 P.S.I. To (C) 62 P.S.I.  
Tool Closed I.C.I.P. From 11:25 M. to 12:25 M. - Hr. 60 Min (D) 1092 P.S.I.  
Tool Open F.F.P. From 12:25 M. to 1:20 M. - Hr. 55 Min. From (E) 72 P.S.I. To (F) 72 P.S.I.  
Tool Closed F.C.I.P. From 1:20 M. to 3:10 M. - Hr. 110 Min. (G) 1422 P.S.I.  
Initial Hydrostatic Pressure (A) 2234 P.S.I. Final Hydrostatic Pressure (H) 2170 P.S.I. Maximum Temp. 130

#### INFORMATION

BLOW Strong blow throughout test.  
Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 110' muddy water  
Reversed Out - Yes ☒ No ☐ Mud Type Starch Viscosity 53 Weight 9.3 Water Loss 8.6 cc. Chlorides 16,500 ppm  
EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 OD In. Make W.T.C. Ser. No. -  
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -  
DRILLING CONTRACTOR Xplor Drlg. Rig #1 Length Drill Pipe? 4299 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4" FH In.  
Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 246 Ft. I.D. Drill Collars 2 1/4 In.  
Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 51 Ft.  
Remarks: Was open extra 10 minutes on final flow period on account rig had trouble repairing air line. Chlorides checked: Top 12,000 ppm; Bottom 12,000 ppm

# WESTERN TESTING CO., INC.

## Pressure Data

Date 11-27-77 Test Ticket No. 23350  
Recorder No. 969 Capacity 4150 Location 4580 Ft.  
Clock No. 10168 Elevation - Well Temperature 130 °F

| Point                          | Pressure    |                            | Time Given | Time Computed |
|--------------------------------|-------------|----------------------------|------------|---------------|
| A Initial Hydrostatic Mud      | 2234 P.S.I. | Open Tool                  | 10:53 A M  |               |
| B First Initial Flow Pressure  | 63 P.S.I.   | First Flow Pressure        | 30 Mins.   | 30 Mins.      |
| C First Final Flow Pressure    | 62 P.S.I.   | Initial Closed-in Pressure | 60 Mins.   | 54 Mins.      |
| D Initial Closed-in Pressure   | 1092 P.S.I. | Second Flow Pressure       | 55 Mins.   | 50 Mins.      |
| E Second Initial Flow Pressure | 72 P.S.I.   | Final Closed-in Pressure   | 110 Mins.  | 108 Mins.     |
| F Second Final Flow Pressure   | 72 P.S.I.   |                            |            |               |
| G Final Closed-in Pressure     | 1422 P.S.I. |                            |            |               |
| H Final Hydrostatic Mud        | 2170 P.S.I. |                            |            |               |

## PRESSURE BREAKDOWN

| First Flow Pressure         |        | Initial Shut-In             |        | Second Flow Pressure        |        | Final Shut-In               |        |
|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|
| Breakdown: <u>6</u> Inc.    |        | Breakdown: <u>18</u> Inc.   |        | Breakdown: <u>10</u> Inc.   |        | Breakdown: <u>36</u> Inc.   |        |
| of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        | of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        |
| final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        |
| Point Mins.                 | Press. | Point Minutes               | Press. | Point Minutes               | Press. | Point Minutes               | Press. |
| P 1 0                       | 63     | 0                           | 62     | 0                           | 72     | 0                           | 72     |
| P 2 5                       | 51     | 3                           | 88     | 5                           | 63     | 3                           | 117    |
| P 3 10                      | 48     | 6                           | 126    | 10                          | 61     | 6                           | 217    |
| P 4 15                      | 49     | 9                           | 174    | 15                          | 62     | 9                           | 320    |
| P 5 20                      | 49     | 12                          | 231    | 20                          | 62     | 12                          | 425    |
| P 6 25                      | 51     | 15                          | 304    | 25                          | 63     | 15                          | 521    |
| P 7 30                      | 62     | 18                          | 386    | 30                          | 64     | 18                          | 612    |
| P 8                         |        | 21                          | 454    | 35                          | 67     | 21                          | 699    |
| P 9                         |        | 24                          | 522    | 40                          | 70     | 24                          | 768    |
| P10                         |        | 27                          | 592    | 45                          | 72     | 27                          | 840    |
| P11                         |        | 30                          | 656    | 50                          | 72     | 30                          | 898    |
| P12                         |        | 33                          | 720    |                             |        | 33                          | 955    |
| P13                         |        | 36                          | 786    |                             |        | 36                          | 1008   |
| P14                         |        | 39                          | 846    |                             |        | 39                          | 1056   |
| P15                         |        | 42                          | 906    |                             |        | 42                          | 1096   |
| P16                         |        | 45                          | 957    |                             |        | 45                          | 1132   |
| P17                         |        | 48                          | 1011   |                             |        | 48                          | 1166   |
| P18                         |        | 51                          | 1055   |                             |        | 51                          | 1194   |
| P19                         |        | 54                          | 1092   |                             |        | 54                          | 1221   |
| P20                         |        |                             |        |                             |        | 57                          | 1243   |
|                             |        |                             |        |                             |        | 60                          | 1263   |

# WESTERN TESTING CO., INC.

## Pressure Data

Date 11-27-77 Test Ticket No. 23350

Recorder No. 969 Capacity 4150 Location 4580 Ft.

Clock No. 10168 Elevation - Well Temperature 130 °F

| Point                          | Pressure |        | Time Given                 | Time Computed       |
|--------------------------------|----------|--------|----------------------------|---------------------|
| A Initial Hydrostatic Mud      | 2234     | P.S.I. | Open Tool                  | 10:53A M            |
| B First Initial Flow Pressure  | 63       | P.S.I. | First Flow Pressure        | 30 Mins. 30 Mins.   |
| C First Final Flow Pressure    | 62       | P.S.I. | Initial Closed-in Pressure | 60 Mins. 54 Mins.   |
| D Initial Closed-in Pressure   | 1092     | P.S.I. | Second Flow Pressure       | 55 Mins. 50 Mins.   |
| E Second Initial Flow Pressure | 72       | P.S.I. | Final Closed-in Pressure   | 110 Mins. 108 Mins. |
| F Second Final Flow Pressure   | 72       | P.S.I. |                            |                     |
| G Final Closed-in Pressure     | 1422     | P.S.I. |                            |                     |
| H Final Hydrostatic Mud        | 2170     | P.S.I. |                            |                     |

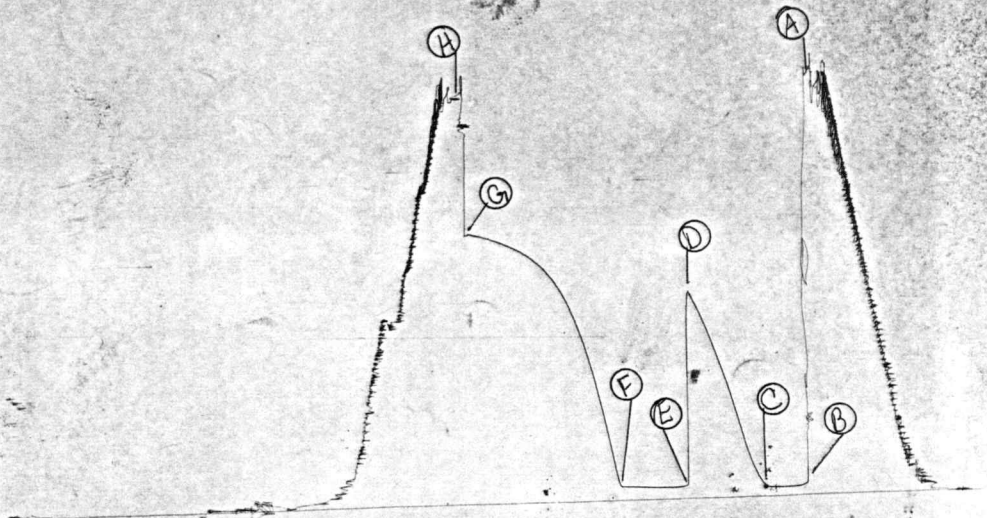
### PRESSURE BREAKDOWN

| First Flow Pressure         |        | Initial Shut-In             |        | Second Flow Pressure        |        | Final Shut-In               |        |
|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|
| Breakdown: <u>6</u> Inc.    |        | Breakdown: <u>18</u> Inc.   |        | Breakdown: <u>10</u> Inc.   |        | Breakdown: <u>36</u> Inc.   |        |
| of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        | of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        |
| final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        |
| Point Mins.                 | Press. | Point Minutes               | Press. | Point Minutes               | Press. | Point Minutes               | Press. |
| P 1                         |        |                             |        |                             |        | 63                          | 1282   |
| P 2                         |        |                             |        |                             |        | 66                          | 1298   |
| P 3                         |        |                             |        |                             |        | 69                          | 1313   |
| P 4                         |        |                             |        |                             |        | 72                          | 1325   |
| P 5                         |        |                             |        |                             |        | 75                          | 1336   |
| P 6                         |        |                             |        |                             |        | 78                          | 1348   |
| P 7                         |        |                             |        |                             |        | 81                          | 1357   |
| P 8                         |        |                             |        |                             |        | 84                          | 1367   |
| P 9                         |        |                             |        |                             |        | 87                          | 1376   |
| P10                         |        |                             |        |                             |        | 90                          | 1385   |
| P11                         |        |                             |        |                             |        | 93                          | 1392   |
| P12                         |        |                             |        |                             |        | 96                          | 1400   |
| P13                         |        |                             |        |                             |        | 99                          | 1405   |
| P14                         |        |                             |        |                             |        | 102                         | 1411   |
| P15                         |        |                             |        |                             |        | 105                         | 1418   |
| P16                         |        |                             |        |                             |        | 108                         | 1422   |
| P17                         |        |                             |        |                             |        |                             |        |
| P18                         |        |                             |        |                             |        |                             |        |
| P19                         |        |                             |        |                             |        |                             |        |
| P20                         |        |                             |        |                             |        |                             |        |

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TK# 23350

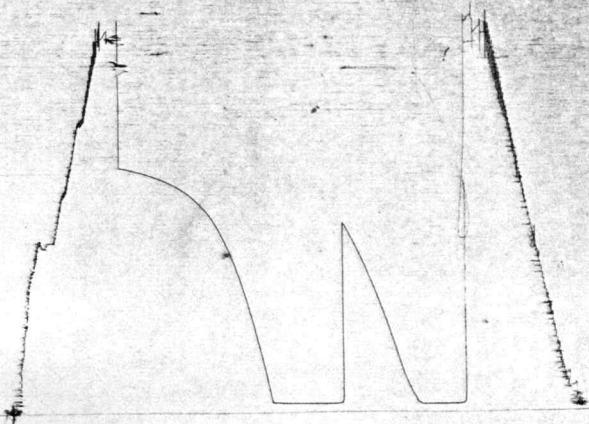
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TKt # 23350

D.





Home Office: Wichita, Kansas 67201  
P. O. Box 1599 (316) 838-0601

Company Texas Oil & Gas Corp. Lease & Well No. Frankhauser A-#2  
Elevation - Formation Kinderhook Sand Effective Pay - Ft. Ticket No. 23276  
Date 11-28-77 Sec. 23 Twp. 27S Range 16W County Kiowa State Kansas  
Test Approved by K. W. Dahlberg Western Representative Joe N. Lusk  
Formation Test No. 3 O.K. ☒ Misrun ☐ Interval Tested From 4620' to 4655' Total Depth 4655'  
Size Main Hole 7 7/8" Rat Hole - Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No  
Top Packer Depth 4615 Ft. Size 6 3/4 Bottom Packer Depth 4620 Ft. Size 6 3/4  
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -  
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 35 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
RECORDERS Depth 4626 Ft. Clock No. 10168 Depth 4629 Ft. Clock No. 6800  
Top Make Kuster Cap. 4150 No. 969 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 Inside Outside  
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside  
Time Set Packer 9:50A M  
Tool Open I.F.P. From 9:52 M. to 10:22 M. - Hr. 30 Min. From (B) 74 P.S.I. To (C) 81 P.S.I.  
Tool Closed I.C.I.P. From 10:22 M. to 11:22 M. - Hr. 60 Min (D) 133 P.S.I.  
Tool Open F.F.P. From 11:22 M. to 11:43 M. - Hr. 25 Min. From (E) 133 P.S.I. To (F) 94 P.S.I.  
Tool Closed F.C.I.P. From 11:43 M. to 12:43 M. - Hr. 60 Min. (G) 119 P.S.I.  
Initial Hydrostatic Pressure (A) 2190 P.S.I. Final Hydrostatic Pressure (H) 2190 P.S.I. Maximum Temp. 127

#### INFORMATION

BLOW Very weak blow on initial flow period. Very weak blow on final flow period. Died in  
approximately 8-10 minutes.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 10' watery mud.

Reversed Out - Yes ☒ No ☐ Mud Type Starch Viscosity 47 Weight 9.2 Water Loss 10.0 cc. Chlorides 8,500 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 4 1/2 OD In. Make W.T.C. Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Xplor Drilling Rig #1 Length Drill Pipe? 4344 Ft. I.D. Drill Pipe 3.0 In. Tool Joint Size 4" FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 246 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 65 Ft.

Remarks: Chlorides: 12,000 ppm

# WESTERN TESTING CO., INC.

## Pressure Data

Date 11-28-77 Test Ticket No. 23267  
 Recorder No. 969 Capacity 4150 Location 4626 Ft.  
 Clock No. 10168 Elevation - Well Temperature 127 °F

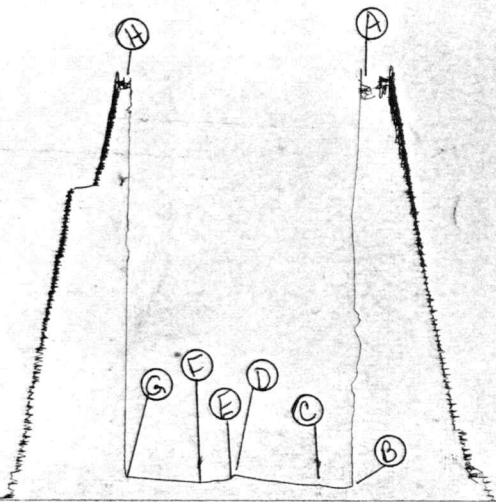
| Point                          | Pressure    |                            | Time Given | Time Computed |
|--------------------------------|-------------|----------------------------|------------|---------------|
| A Initial Hydrostatic Mud      | 2190 P.S.I. | Open Tool                  | 9:50 A M   |               |
| B First Initial Flow Pressure  | 74 P.S.I.   | First Flow Pressure        | 30 Mins.   | 25 Mins.      |
| C First Final Flow Pressure    | 81 P.S.I.   | Initial Closed-in Pressure | 60 Mins.   | 63 Mins.      |
| D Initial Closed-in Pressure   | 133 P.S.I.  | Second Flow Pressure       | 25 Mins.   | 25 Mins.      |
| E Second Initial Flow Pressure | 133 P.S.I.  | Final Closed-in Pressure   | 60 Mins.   | 51 Mins.      |
| F Second Final Flow Pressure   | 94 P.S.I.   |                            |            |               |
| G Final Closed-in Pressure     | 119 P.S.I.  |                            |            |               |
| H Final Hydrostatic Mud        | 2190 P.S.I. |                            |            |               |

### PRESSURE BREAKDOWN

| First Flow Pressure         |           | Initial Shut-In             |            | Second Flow Pressure        |            | Final Shut-In               |            |
|-----------------------------|-----------|-----------------------------|------------|-----------------------------|------------|-----------------------------|------------|
| Breakdown: <u>5</u> Inc.    |           | Breakdown: <u>21</u> Inc.   |            | Breakdown: <u>5</u> Inc.    |            | Breakdown: <u>17</u> Inc.   |            |
| of <u>5</u> mins. and a     |           | of <u>3</u> mins. and a     |            | of <u>5</u> mins. and a     |            | of <u>3</u> mins. and a     |            |
| final inc. of <u>0</u> Min. |           | final inc. of <u>0</u> Min. |            | final inc. of <u>0</u> Min. |            | final inc. of <u>0</u> Min. |            |
| Point Mins.                 | Press.    | Point Minutes               | Press.     | Point Minutes               | Press.     | Point Minutes               | Press.     |
| P 1 <u>0</u>                | <u>74</u> | <u>0</u>                    | <u>81</u>  | <u>0</u>                    | <u>133</u> | <u>0</u>                    | <u>94</u>  |
| P 2 <u>5</u>                | <u>65</u> | <u>3</u>                    | <u>81</u>  | <u>5</u>                    | <u>107</u> | <u>3</u>                    | <u>94</u>  |
| P 3 <u>10</u>               | <u>65</u> | <u>6</u>                    | <u>81</u>  | <u>10</u>                   | <u>103</u> | <u>6</u>                    | <u>96</u>  |
| P 4 <u>15</u>               | <u>67</u> | <u>9</u>                    | <u>82</u>  | <u>15</u>                   | <u>100</u> | <u>9</u>                    | <u>97</u>  |
| P 5 <u>20</u>               | <u>75</u> | <u>12</u>                   | <u>84</u>  | <u>20</u>                   | <u>94</u>  | <u>12</u>                   | <u>98</u>  |
| P 6 <u>25</u>               | <u>81</u> | <u>15</u>                   | <u>85</u>  | <u>25</u>                   | <u>94</u>  | <u>15</u>                   | <u>100</u> |
| P 7                         |           | <u>18</u>                   | <u>86</u>  |                             |            | <u>18</u>                   | <u>102</u> |
| P 8                         |           | <u>21</u>                   | <u>89</u>  |                             |            | <u>21</u>                   | <u>104</u> |
| P 9                         |           | <u>24</u>                   | <u>92</u>  |                             |            | <u>24</u>                   | <u>104</u> |
| P10                         |           | <u>27</u>                   | <u>95</u>  |                             |            | <u>27</u>                   | <u>106</u> |
| P11                         |           | <u>30</u>                   | <u>98</u>  |                             |            | <u>30</u>                   | <u>107</u> |
| P12                         |           | <u>33</u>                   | <u>100</u> |                             |            | <u>33</u>                   | <u>109</u> |
| P13                         |           | <u>36</u>                   | <u>103</u> |                             |            | <u>36</u>                   | <u>111</u> |
| P14                         |           | <u>39</u>                   | <u>104</u> |                             |            | <u>39</u>                   | <u>113</u> |
| P15                         |           | <u>42</u>                   | <u>107</u> |                             |            | <u>42</u>                   | <u>113</u> |
| P16                         |           | <u>45</u>                   | <u>111</u> |                             |            | <u>45</u>                   | <u>116</u> |
| P17                         |           | <u>48</u>                   | <u>116</u> |                             |            | <u>48</u>                   | <u>119</u> |
| P18                         |           | <u>51</u>                   | <u>119</u> |                             |            | <u>51</u>                   | <u>119</u> |
| P19                         |           | <u>54</u>                   | <u>123</u> |                             |            |                             |            |
| P20                         |           | <u>57</u>                   | <u>127</u> |                             |            |                             |            |
|                             |           | <u>60</u>                   | <u>131</u> |                             |            |                             |            |
|                             |           | <u>63</u>                   | <u>133</u> |                             |            |                             |            |

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TK# 23276  
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TKt # 23276  
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