

Company Texas Oil & Gas Corporation Lease & Well No. Frankhauser "C" #1  
Elevation 2092 Kelly Bushing Cherokee Sand Formation Effective Pay --- Ft. Ticket No. 4383  
Date 12/17/79 Sec. 22 Twp. 27S Range 16W County Kiowa State Kansas  
Test Approved by L. Earl Moore Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4510 ft. to 4560 ft. Total Depth 4560 ft.  
Packer Depth 4505 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
Packer Depth 4510 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4513 ft. Recorder Number 2606 Cap. 4150  
Bottom Recorder Depth (Outside) 4516 ft. Recorder Number 6074 Cap. 5100  
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor H-30, Inc. Rig # 3 Drill Collar Length 246 I. D. 2 1/4 in.  
Mud Type Mon-Pac Viscosity 47 Weight Pipe Length - I. D. - in.  
Weight 9.1 Water Loss 18.8 cc. Drill Pipe Length 4267 I. D. 3.8 in.  
Chlorides 15,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.  
Jars: Make WTC Serial Number 407 Anchor Length 19' + 31' DC ft. Size 5 1/2 OD = 6" DC in.  
Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout test. Gas to surface eight minutes. See attached sheet for gas measurements.

Recovered 120 ft. of gas cut drilling mud  
Recovered - ft. of -  
Recovered - ft. of -  
Recovered - ft. of -  
Recovered - ft. of -  
Remarks: Started final flow ten minutes early - misread time.

Time Set Packer(s) 8:00 A.M. Time Started Off Bottom 11:45 A.M. Maximum Temperature 128<sup>0</sup>  
Initial Hydrostatic Pressure 2201 (A) P.S.I.  
Initial Flow Period 30 Minutes (B) 158 P.S.I. to (C) 85 P.S.I.  
Initial Closed In Period 50 Minutes (D) 1483 P.S.I.  
Final Flow Period 60 Minutes (E) 83 P.S.I. to (F) 53 P.S.I.  
Final Closed In Period 90 Minutes (G) 1465 P.S.I.  
Final Hydrostatic Pressure 2188 (H) P.S.I.

## GAS FLOW REPORT

Date 12/17/79 Ticket 4383 Company Texas Oil & Gas Corporation  
 Well Name and No. Frankhauser "C" #1 Dst No. 1 Interval Tested 4510' - 4560'  
 County Kiowa State Kansas Sec. 22 Twp. 27S Rg. 16 W

| 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 |
|---------------------|--------------------|-------------------------------------|------------------------|------------------------------|-------------------------|---------------------|
| 8:00 AM Tool open   |                    | <b>PRE FLOW</b>                     |                        |                              |                         |                     |
| 8:08                |                    |                                     | 3/4" orifice           |                              |                         | Gas to surface      |
| 8:10                | 78"                | of water                            | 3/4" orifice           |                              |                         | 125,000 CFPD        |
| 8:20                | 82"                | of water                            | 3/4" orifice           |                              |                         | 128,000 CFPD        |
| 8:30                | 82"                | of water                            | 3/4" orifice           |                              |                         | 128,000 CFPD        |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |
| 9:30 Tool open      |                    | <b>SECOND FLOW</b>                  |                        |                              |                         |                     |
|                     | 10 min.            | 6 lbs.                              | 3/4" orifice           |                              |                         | 194,000 CFPD        |
|                     | 20 min.            | 4 lbs.                              | 3/4" orifice           |                              |                         | 156,000 CFPD        |
|                     | 30 min.            | 4 lbs.                              | 3/4" orifice           |                              |                         | 156,000 CFPD        |
|                     | 40 min.            | 4 lbs.                              | 3/4" orifice           |                              |                         | 156,000 CFPD        |
|                     | 50 min.            | 3.5 lbs.                            | 3/4" orifice           |                              |                         | 144,000 CFPD        |
|                     | 55 min.            | 3.5 lbs.                            | 3/4" orifice           |                              |                         | 144,000 CFPD        |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |
|                     |                    |                                     |                        |                              |                         |                     |

### GAS BOTTLE

Serial No. ---- Date Bottle Filled ----- Date to be Invoiced 12/17/79

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 1½% per month, equal to 18% 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 Corporation

Authorized by L. Earl Moore

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12/17/79 Recorder No. 2606 Capacity 4150 Test Ticket No. 4383  
 Location 4513 Ft.  
 Clock No. -- Elevation 2092 Kelly Bushing Well Temperature 128 °F

| Point                          | Pressure    |                            | Time Given | Time Computed |
|--------------------------------|-------------|----------------------------|------------|---------------|
| A Initial Hydrostatic Mud      | 2201 P.S.I. | Open Tool                  | 8:00A      | M             |
| B First Initial Flow Pressure  | 158 P.S.I.  | First Flow Pressure        | 30 Mins.   | 30 Mins.      |
| C First Final Flow Pressure    | 85 P.S.I.   | Initial Closed-in Pressure | 50 Mins.   | 50 Mins.      |
| D Initial Closed-in Pressure   | 1483 P.S.I. | Second Flow Pressure       | 55 Mins.   | 60 Mins.      |
| E Second Initial Flow Pressure | 83 P.S.I.   | Final Closed-in Pressure   | 90 Mins.   | 90 Mins.      |
| F Second Final Flow Pressure   | 53 P.S.I.   |                            |            |               |
| G Final Closed-in Pressure     | 1465 P.S.I. |                            |            |               |
| H Final Hydrostatic Mud        | 2188 P.S.I. |                            |            |               |

### PRESSURE BREAKDOWN

| First Flow Pressure         |            | Initial Shut-In             |             | Second Flow Pressure        |           | Final Shut-In               |             |
|-----------------------------|------------|-----------------------------|-------------|-----------------------------|-----------|-----------------------------|-------------|
| Breakdown: <u>6</u> Inc.    |            | Breakdown: <u>16</u> Inc.   |             | Breakdown: <u>12</u> Inc.   |           | Breakdown: <u>30</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>158</u> | <u>0</u>                    | <u>85</u>   | <u>0</u>                    | <u>83</u> | <u>0</u>                    | <u>53</u>   |
| P 2 <u>5</u>                | <u>133</u> | <u>3</u>                    | <u>624</u>  | <u>5</u>                    | <u>75</u> | <u>3</u>                    | <u>500</u>  |
| P 3 <u>10</u>               | <u>108</u> | <u>6</u>                    | <u>1099</u> | <u>10</u>                   | <u>62</u> | <u>6</u>                    | <u>960</u>  |
| P 4 <u>15</u>               | <u>98</u>  | <u>9</u>                    | <u>1313</u> | <u>15</u>                   | <u>59</u> | <u>9</u>                    | <u>1219</u> |
| P 5 <u>20</u>               | <u>91</u>  | <u>12</u>                   | <u>1383</u> | <u>20</u>                   | <u>57</u> | <u>12</u>                   | <u>1302</u> |
| P 6 <u>25</u>               | <u>87</u>  | <u>15</u>                   | <u>1413</u> | <u>25</u>                   | <u>56</u> | <u>15</u>                   | <u>1335</u> |
| P 7 <u>30</u>               | <u>85</u>  | <u>18</u>                   | <u>1429</u> | <u>30</u>                   | <u>56</u> | <u>18</u>                   | <u>1354</u> |
| P 8                         |            | <u>21</u>                   | <u>1440</u> | <u>35</u>                   | <u>56</u> | <u>21</u>                   | <u>1369</u> |
| P 9                         |            | <u>24</u>                   | <u>1448</u> | <u>40</u>                   | <u>56</u> | <u>24</u>                   | <u>1381</u> |
| P10                         |            | <u>27</u>                   | <u>1456</u> | <u>45</u>                   | <u>56</u> | <u>27</u>                   | <u>1392</u> |
| P11                         |            | <u>30</u>                   | <u>1465</u> | <u>50</u>                   | <u>55</u> | <u>30</u>                   | <u>1400</u> |
| P12                         |            | <u>33</u>                   | <u>1469</u> | <u>55</u>                   | <u>56</u> | <u>33</u>                   | <u>1406</u> |
| P13                         |            | <u>36</u>                   | <u>1471</u> | <u>60</u>                   | <u>53</u> | <u>36</u>                   | <u>1414</u> |
| P14                         |            | <u>39</u>                   | <u>1475</u> |                             |           | <u>39</u>                   | <u>1417</u> |
| P15                         |            | <u>42</u>                   | <u>1477</u> |                             |           | <u>42</u>                   | <u>1424</u> |
| P16                         |            | <u>45</u>                   | <u>1480</u> |                             |           | <u>45</u>                   | <u>1429</u> |
| P17                         |            | <u>48</u>                   | <u>1483</u> |                             |           | <u>48</u>                   | <u>1432</u> |
| P18                         |            |                             |             |                             |           | <u>51</u>                   | <u>1435</u> |
| P19                         |            |                             |             |                             |           | <u>54</u>                   | <u>1438</u> |
| P20                         |            |                             |             |                             |           | <u>57</u>                   | <u>1441</u> |
|                             |            |                             |             |                             |           | <u>60</u>                   | <u>1444</u> |

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12/17/79 Recorder No. 2606 Capacity 4150 Test Ticket No. 4383  
 Clock No. -- Elevation 2092 Kelly Bushing Location 4513 Ft. 128 °F

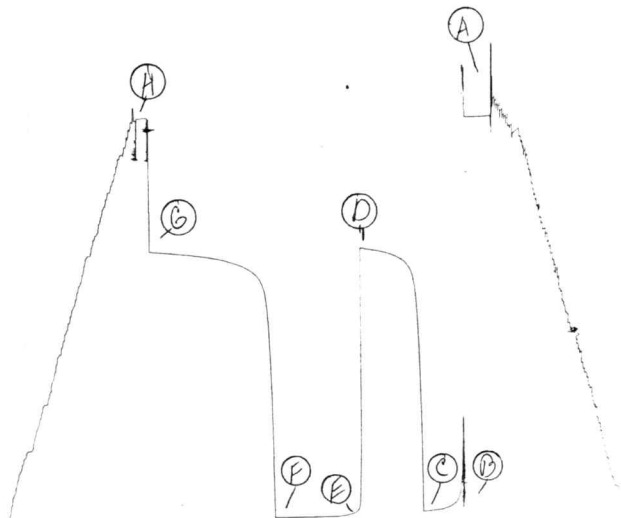
| Point                          | Pressure    |                            | Time Given | Time Computed |
|--------------------------------|-------------|----------------------------|------------|---------------|
| A Initial Hydrostatic Mud      | 2201 P.S.I. | Open Tool                  | 8:00A      | M             |
| B First Initial Flow Pressure  | 158 P.S.I.  | First Flow Pressure        | 30 Mins.   | 30 Mins.      |
| C First Final Flow Pressure    | 85 P.S.I.   | Initial Closed-in Pressure | 50 Mins.   | 50 Mins.      |
| D Initial Closed-in Pressure   | 1483 P.S.I. | Second Flow Pressure       | 55 Mins.   | 60 Mins.      |
| E Second Initial Flow Pressure | 83 P.S.I.   | Final Closed-in Pressure   | 90 Mins.   | 90 Mins.      |
| F Second Final Flow Pressure   | 53 P.S.I.   |                            |            |               |
| G Final Closed-in Pressure     | 1465 P.S.I. |                            |            |               |
| H Final Hydrostatic Mud        | 2188 P.S.I. |                            |            |               |

## PRESSURE BREAKDOWN

| Point | First Flow Pressure Breakdown:               | Initial Shut-In Breakdown:                    | Second Flow Pressure Breakdown:               | Final Shut-In Breakdown:                      |
|-------|----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| P 1   | 6 Inc. of 5 mins. and a final inc. of 0 Min. | 16 Inc. of 3 mins. and a final inc. of 0 Min. | 12 Inc. of 5 mins. and a final inc. of 0 Min. | 30 Inc. of 3 mins. and a final inc. of 0 Min. |
| P 2   |                                              |                                               |                                               |                                               |
| P 3   |                                              |                                               |                                               |                                               |
| P 4   |                                              |                                               |                                               |                                               |
| P 5   |                                              |                                               |                                               |                                               |
| P 6   |                                              |                                               |                                               |                                               |
| P 7   |                                              |                                               |                                               |                                               |
| P 8   |                                              |                                               |                                               |                                               |
| P 9   |                                              |                                               |                                               |                                               |
| P10   |                                              |                                               |                                               |                                               |
| P11   |                                              |                                               |                                               |                                               |
| P12   |                                              |                                               |                                               |                                               |
| P13   |                                              |                                               |                                               |                                               |
| P14   |                                              |                                               |                                               |                                               |
| P15   |                                              |                                               |                                               |                                               |
| P16   |                                              |                                               |                                               |                                               |
| P17   |                                              |                                               |                                               |                                               |
| P18   |                                              |                                               |                                               |                                               |
| P19   |                                              |                                               |                                               |                                               |
| P20   |                                              |                                               |                                               |                                               |

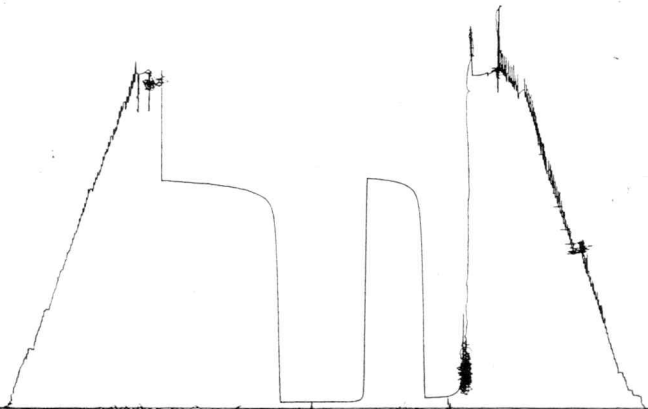
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Company Texas Oil & Gas Corporation Lease & Well No. Fankhauser "C" #1  
 Elevation 2092 Kelly Bushing Formation Mississippi Effective Pay --- Ft. Ticket No. 4384  
 Date 12/18/79 Sec. 22 Twp. 27S Range 16W County Kiowa State Kansas  
 Test Approved by L. Earl Moore Western Representative Rod Tritt  
 Formation Test No. 2 Interval Tested from 4582 ft. to 4594 ft. Total Depth 4594 ft.  
 Packer Depth 4577 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4582 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4584 ft. Recorder Number 2606 Cap. 4150  
 Bottom Recorder Depth (Outside) 4587 ft. Recorder Number 6074 Cap. 5100  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -  
 Drilling Contractor H-30, Inc. Drilling Rig #3 Drill Collar Length 246 I. D. 2 1/4 in.  
 Mud Type Mon-Pac Viscosity 45 Weight Pipe Length - I. D. - in.  
 Weight 9.1 Water Loss 10.4 cc. Drill Pipe Length 4307 I. D. 3.8 in.  
 Chlorides 15,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 407 Anchor Length 12 ft. Size 5 1/2 OD in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak blow on initial flow period. Strong blow om final flow period. No gas to surface.

Recovered          ft. of  
 Recovered          ft. of  
 Recovered          ft. of  
 Recovered          ft. of  
 Recovered          ft. of  
 Remarks: Slid tool six feet to bottom. Plugging action at start of flow periods.

Time Set Packer(s) 5:05 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 8:50 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 128°  
 Initial Hydrostatic Pressure 2291 (A)          P.S.I.  
 Initial Flow Period 30 Minutes (B) 129 P.S.I. to (C) 112 P.S.I.  
 Initial Closed In Period 63 Minutes (D) 956 P.S.I.  
 Final Flow Period 45 Minutes (E) 158 P.S.I. to (F) 149 P.S.I.  
 Final Closed In Period 90 Minutes (G) 1159 P.S.I.  
 Final Hydrostatic Pressure 2253 (H)          P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12/18/79 Test Ticket No. 4384  
Recorder No. 2606 Capacity 4150 Location 4584 Ft.  
Clock No. --- Elevation 2092 Kelly Bushing Well Temperature 128 °F

| Point                          | Pressure    | Time Given | Time Computed |
|--------------------------------|-------------|------------|---------------|
| A Initial Hydrostatic Mud      | 2291 P.S.I. | 5:05A      | M             |
| B First Initial Flow Pressure  | 129 P.S.I.  | 30 Mins.   | 30 Mins.      |
| C First Final Flow Pressure    | 112 P.S.I.  | 60 Mins.   | 63 Mins.      |
| D Initial Closed-in Pressure   | 956 P.S.I.  | 45 Mins.   | 45 Mins.      |
| E Second Initial Flow Pressure | 158 P.S.I.  | 90 Mins.   | 90 Mins.      |
| F Second Final Flow Pressure   | 149 P.S.I.  |            |               |
| G Final Closed-in Pressure     | 1159 P.S.I. |            |               |
| H Final Hydrostatic Mud        | 2253 P.S.I. |            |               |

## PRESSURE BREAKDOWN

| First Flow Pressure           |            | Initial Shut-In             |            | Second Flow Pressure        |            | Final Shut-In               |            |
|-------------------------------|------------|-----------------------------|------------|-----------------------------|------------|-----------------------------|------------|
| Breakdown: <u>6</u> Inc.      |            | Breakdown: <u>21</u> Inc.   |            | Breakdown: <u>9</u> Inc.    |            | Breakdown: <u>30</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>129</u> | <u>0</u>                    | <u>112</u> | <u>0</u>                    | <u>158</u> | <u>0</u>                    | <u>149</u> |
| P 2 <u>5</u> Plugging action  |            | <u>3</u>                    | <u>341</u> | <u>5</u> Plugging action    |            | <u>3</u>                    | <u>166</u> |
| P 3 <u>10</u> Plugging action |            | <u>6</u>                    | <u>347</u> | <u>10</u>                   | <u>158</u> | <u>6</u>                    | <u>227</u> |
| P 4 <u>15</u> Plugging action |            | <u>9</u>                    | <u>416</u> | <u>15</u>                   | <u>156</u> | <u>9</u>                    | <u>275</u> |
| P 5 <u>20</u>                 | <u>110</u> | <u>12</u>                   | <u>441</u> | <u>20</u>                   | <u>152</u> | <u>12</u>                   | <u>329</u> |
| P 6 <u>25</u>                 | <u>108</u> | <u>15</u>                   | <u>517</u> | <u>25</u>                   | <u>149</u> | <u>15</u>                   | <u>383</u> |
| P 7 <u>30</u>                 | <u>112</u> | <u>18</u>                   | <u>345</u> | <u>30</u>                   | <u>149</u> | <u>18</u>                   | <u>427</u> |
| P 8                           |            | <u>21</u>                   | <u>589</u> | <u>35</u>                   | <u>149</u> | <u>21</u>                   | <u>474</u> |
| P 9                           |            | <u>24</u>                   | <u>622</u> | <u>40</u>                   | <u>149</u> | <u>24</u>                   | <u>519</u> |
| P10                           |            | <u>27</u>                   | <u>655</u> | <u>45</u>                   | <u>149</u> | <u>27</u>                   | <u>562</u> |
| P11                           |            | <u>30</u>                   | <u>688</u> |                             |            | <u>30</u>                   | <u>601</u> |
| P12                           |            | <u>33</u>                   | <u>724</u> |                             |            | <u>33</u>                   | <u>643</u> |
| P13                           |            | <u>36</u>                   | <u>750</u> |                             |            | <u>36</u>                   | <u>672</u> |
| P14                           |            | <u>39</u>                   | <u>777</u> |                             |            | <u>39</u>                   | <u>707</u> |
| P15                           |            | <u>42</u>                   | <u>809</u> |                             |            | <u>42</u>                   | <u>753</u> |
| P16                           |            | <u>45</u>                   | <u>827</u> |                             |            | <u>45</u>                   | <u>782</u> |
| P17                           |            | <u>48</u>                   | <u>750</u> |                             |            | <u>48</u>                   | <u>813</u> |
| P18                           |            | <u>51</u>                   | <u>875</u> |                             |            | <u>51</u>                   | <u>848</u> |
| P19                           |            | <u>54</u>                   | <u>898</u> |                             |            | <u>54</u>                   | <u>877</u> |
| P20                           |            | <u>57</u>                   | <u>919</u> |                             |            | <u>57</u>                   | <u>908</u> |
|                               |            | <u>60</u>                   | <u>940</u> |                             |            | <u>60</u>                   | <u>936</u> |
|                               |            | <u>63</u>                   | <u>956</u> |                             |            |                             |            |

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 12/18/79 Test Ticket No. 4384  
 Recorder No. 2606 Capacity 4150 Location 4584 Ft.  
 Clock No. --- Elevation 2092 Kelly Bushing Well Temperature 128 °F

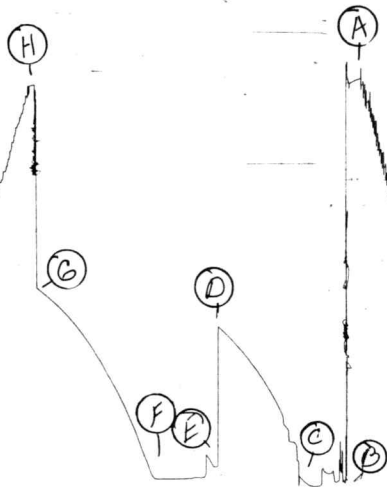
| Point                          | Pressure           |                            | Time Given      | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>2291</u> P.S.I. | Open Tool                  | <u>5:05A</u> M  |                 |
| B First Initial Flow Pressure  | <u>129</u> P.S.I.  | First Flow Pressure        | <u>30</u> Mins. | <u>30</u> Mins. |
| C First Final Flow Pressure    | <u>112</u> P.S.I.  | Initial Closed-in Pressure | <u>60</u> Mins. | <u>63</u> Mins. |
| D Initial Closed-in Pressure   | <u>956</u> P.S.I.  | Second Flow Pressure       | <u>45</u> Mins. | <u>45</u> Mins. |
| E Second Initial Flow Pressure | <u>158</u> P.S.I.  | Final Closed-in Pressure   | <u>90</u> Mins. | <u>90</u> Mins. |
| F Second Final Flow Pressure   | <u>149</u> P.S.I.  |                            |                 |                 |
| G Final Closed-in Pressure     | <u>1159</u> P.S.I. |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>2253</u> P.S.I. |                            |                 |                 |

**PRESSURE BREAKDOWN**

| First Flow Pressure         |        | Initial Shut-In             |        | Second Flow Pressure        |        | Final Shut-In               |        |
|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|
| Breakdown: _____ Inc.       |        | Breakdown: _____ Inc.       |        | Breakdown: _____ Inc.       |        | Breakdown: <u>30</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                          | 965    |
| P 2                         |        |                             |        |                             |        | 66                          | 988    |
| P 3                         |        |                             |        |                             |        | 69                          | 1017   |
| P 4                         |        |                             |        |                             |        | 72                          | 1037   |
| P 5                         |        |                             |        |                             |        | 75                          | 1060   |
| P 6                         |        |                             |        |                             |        | 78                          | 1081   |
| P 7                         |        |                             |        |                             |        | 81                          | 1099   |
| P 8                         |        |                             |        |                             |        | 84                          | 1120   |
| P 9                         |        |                             |        |                             |        | 87                          | 1137   |
| P10                         |        |                             |        |                             |        | 90                          | 1159   |
| P11                         |        |                             |        |                             |        |                             |        |
| P12                         |        |                             |        |                             |        |                             |        |
| P13                         |        |                             |        |                             |        |                             |        |
| P14                         |        |                             |        |                             |        |                             |        |
| P15                         |        |                             |        |                             |        |                             |        |
| P16                         |        |                             |        |                             |        |                             |        |
| P17                         |        |                             |        |                             |        |                             |        |
| P18                         |        |                             |        |                             |        |                             |        |
| P19                         |        |                             |        |                             |        |                             |        |
| P20                         |        |                             |        |                             |        |                             |        |

2606 DST #2

TRK # 4384  
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6074 DST#2

TKT# 4384  
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Company Texas Oil & Gas Corporation Lease & Well No. Fankhauser "C" #1  
 Elevation 2092 Kelly Bushing Formation Kinderhook Sand Effective Pay --- Ft. Ticket No 4385  
 Date 12/19/79 Sec. 22 Twp 27S Range 16W County Kiowa State Kansas  
 Test Approved by G. W. Hicks Western Representative Rod Tritt  
 Formation Test No. 3 Interval Tested from 4620 ft. to 4640 ft. Total Depth 4640 ft.  
 Packer Depth 4610 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4620 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4624 ft. Recorder Number 2606 Cap. 4150  
 Bottom Recorder Depth (Outside) 4627 ft. Recorder Number 6074 Cap. 5100  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -  
 Drilling Contractor H-30, Inc. Drilling Rig #3 Drill Collar Length 246 I. D. 2 1/4 in.  
 Mud Type MonPac Viscosity 45 Weight Pipe Length - I. D. - in.  
 Weight 9.1 Water Loss 10.4 cc. Drill Pipe Length 4339 I. D. 3.8 in.  
 Chlorides 15,000 P.P.M. Test Tool Length 35 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 407 Anchor Length 20 ft. Size 5 1/2 OD in.  
 Did Well Flow? No Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout test. Gas to surface seven minutes. See attached sheet for gas measurements.

Recovered 70 ft. of oil stain and gas cut mud

Recovered        ft. of       

Recovered        ft. of       

Recovered        ft. of       

Recovered        ft. of       

Remarks:       

Time Set Packer(s) 2:35 ~~P.M.~~ A.M. Time Started Off Bottom 10:05 ~~P.M.~~ A.M. Maximum Temperature 134°  
 Initial Hydrostatic Pressure        (A) 2240 P.S.I.  
 Initial Flow Period        Minutes 60 (B) 68 P.S.I. to (C) 67 P.S.I.  
 Initial Closed In Period        Minutes 120 (D) 1544 P.S.I.  
 Final Flow Period        Minutes 90 (E) 64 P.S.I. to (F) 57 P.S.I.  
 Final Closed In Period        Minutes 180 (G) 1527 P.S.I.  
 Final Hydrostatic Pressure        (H) 2198 P.S.I.

## GAS FLOW REPORT

Date 12/19/79 Ticket 4385 Company Texas Oil & Gas Corporation  
 Well Name and No. Fankhauser "C" #1 Dst No. 3 Interval Tested 4620'-4640'  
 County Kiowa State Kansas Sec. 22 Twp. 27s Rg. 16W

| Time Gauge Pre-Flow | Time Gauge in Min. | P.S.I. on Meria 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 |
|---------------------|--------------------|-------------------------------------|------------------------|------------------------------|-------------------------|---------------------|
| <b>PRE FLOW</b>     |                    |                                     |                        |                              |                         |                     |
| 2:35 AM             | Tool open          |                                     |                        |                              |                         |                     |
|                     | 7 min.             |                                     |                        |                              |                         | Gas to surface      |
|                     | 10 min.            | 34" of water                        | 1" orifice             |                              |                         | 151,000 CFPD        |
|                     | 20 min.            | 44" of water                        | 1" orifice             |                              |                         | 153,000 CFPD        |
|                     | 30 min.            | 66" of water                        | 1" orifice             |                              |                         | 207,000 CFPD        |
|                     | 40 min.            | 80" of water                        | 1" orifice             |                              |                         | 231,000 CFPD        |
|                     | 50 min.            | 90" of water                        | 1" orifice             |                              |                         | 244,000 CFPD        |
|                     | 60 min.            | 94" of water                        | 1" orifice             |                              |                         | 250,000 CFPD        |
| <b>SECOND FLOW</b>  |                    |                                     |                        |                              |                         |                     |
| 5:35 AM             | Tool Open          |                                     |                        |                              |                         |                     |
|                     | 10 min.            | 3.5 lbs.                            | 1" orifice             |                              |                         | 263,000 CFPD        |
|                     | 20 min.            | 4 lbs.                              | 1" orifice             |                              |                         | 283,000 CFPD        |
|                     | 30 min.            | 4.5 lbs.                            | 1" orifice             |                              |                         | 301,000 CFPD        |
|                     | 40 min.            | 4.5 lbs.                            | 1" orifice             |                              |                         | 301,000 CFPD        |
|                     | 50 min.            | 4.5 lbs.                            | 1" orifice             |                              |                         | 301,000 CFPD        |
|                     | 60 min.            | 5 lbs.                              | 1" orifice             |                              |                         | 319,000 CFPD        |
|                     | 70 min.            | 5 lbs.                              | 1" orifice             |                              |                         | 319,000 CFPD        |
|                     | 80 min.            | 5 lbs.                              | 1" orifice             |                              |                         | 319,000 CFPD        |
|                     | 90 min.            | 5 lbs.                              | 1" orifice             |                              |                         | 319,000 CFPD        |

### GAS BOTTLE

Serial No. ----- Date Bottle Filled ----- Date to be Invoiced 12/19/79

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 1½% per month, equal to 18% 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 Corporation

Authorized by G. W. Hicks

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12/19/79 Recorder No. 2606 Capacity 4150 Test Ticket No. 4385  
 Location 4624 Ft.  
 Clock No. ---- Elevation 2092 Kelly Bushing Well Temperature 134 °F

| Point                          | Pressure    | Time Given | Time Computed |
|--------------------------------|-------------|------------|---------------|
| A Initial Hydrostatic Mud      | 2240 P.S.I. | 2:35A      | M             |
| B First Initial Flow Pressure  | 68 P.S.I.   | 60 Mins.   | 60 Mins.      |
| C First Final Flow Pressure    | 67 P.S.I.   | 120 Mins.  | 120 Mins.     |
| D Initial Closed-in Pressure   | 1544 P.S.I. | 90 Mins.   | 90 Mins.      |
| E Second Initial Flow Pressure | 64 P.S.I.   | 180 Mins.  | 180 Mins.     |
| F Second Final Flow Pressure   | 57 P.S.I.   |            |               |
| G Final Closed-in Pressure     | 1527 P.S.I. |            |               |
| H Final Hydrostatic Mud        | 2198 P.S.I. |            |               |

## PRESSURE BREAKDOWN

| First Flow Pressure         |        | Initial Shut-In             |        | Second Flow Pressure        |        | Final Shut-In               |        |
|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|
| Breakdown: <u>12</u> Inc.   |        | Breakdown: <u>40</u> Inc.   |        | Breakdown: <u>18</u> Inc.   |        | Breakdown: <u>60</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                       | 68     | 0                           | 67     | 0                           | 64     | 0                           | 57     |
| P 2 5                       | 67     | 3                           | 496    | 5                           | 64     | 3                           | 570    |
| P 3 10                      | 67     | 6                           | 1444   | 10                          | 58     | 6                           | 1413   |
| P 4 15                      | 67     | 9                           | 1490   | 15                          | 57     | 9                           | 1450   |
| P 5 20                      | 67     | 12                          | 1502   | 20                          | 57     | 12                          | 1467   |
| P 6 25                      | 67     | 15                          | 1511   | 25                          | 57     | 15                          | 1479   |
| P 7 30                      | 67     | 18                          | 1517   | 30                          | 57     | 18                          | 1485   |
| P 8 35                      | 67     | 21                          | 1521   | 35                          | 57     | 21                          | 1490   |
| P 9 40                      | 67     | 24                          | 1525   | 40                          | 57     | 24                          | 1494   |
| P10 45                      | 67     | 27                          | 1526   | 45                          | 57     | 27                          | 1496   |
| P11 50                      | 67     | 30                          | 1527   | 50                          | 57     | 30                          | 1500   |
| P12 55                      | 67     | 33                          | 1528   | 55                          | 57     | 33                          | 1503   |
| P13 60                      | 67     | 36                          | 1529   | 60                          | 57     | 36                          | 1505   |
| P14                         |        | 39                          | 1531   | 65                          | 57     | 39                          | 1507   |
| P15                         |        | 42                          | 1532   | 70                          | 57     | 42                          | 1509   |
| P16                         |        | 45                          | 1533   | 75                          | 57     | 45                          | 1511   |
| P17                         |        | 48                          | 1533   | 80                          | 57     | 48                          | 1512   |
| P18                         |        | 51                          | 1534   | 85                          | 57     | 51                          | 1512   |
| P19                         |        | 54                          | 1535   | 90                          | 57     | 54                          | 1513   |
| P20                         |        | 57                          | 1535   |                             |        | 57                          | 1513   |
|                             |        | 60                          | 1536   |                             |        | 60                          | 1514   |

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12/19/79 Test Ticket No. 4385  
 Recorder No. 2606 Capacity 4150 Location 4624 Ft.  
 Clock No. ---- Elevation 2092 Kelly Bushing Well Temperature 134 °F

| Point                          | Pressure    |                            | Time Given | Time Computed |
|--------------------------------|-------------|----------------------------|------------|---------------|
| A Initial Hydrostatic Mud      | 2240 P.S.I. | Open Tool                  | 2:35A      | M             |
| B First Initial Flow Pressure  | 68 P.S.I.   | First Flow Pressure        | 60 Mins.   | 60 Mins.      |
| C First Final Flow Pressure    | 67 P.S.I.   | Initial Closed-in Pressure | 120 Mins.  | 120 Mins.     |
| D Initial Closed-in Pressure   | 1544 P.S.I. | Second Flow Pressure       | 90 Mins.   | 90 Mins.      |
| E Second Initial Flow Pressure | 64 P.S.I.   | Final Closed-in Pressure   | 180 Mins.  | 180 Mins.     |
| F Second Final Flow Pressure   | 57 P.S.I.   |                            |            |               |
| G Final Closed-in Pressure     | 1527 P.S.I. |                            |            |               |
| H Final Hydrostatic Mud        | 2198 P.S.I. |                            |            |               |

## PRESSURE BREAKDOWN

| First Flow Pressure         |        | Initial Shut-In             |        | Second Flow Pressure        |        | Final Shut-In               |        |
|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|
| Breakdown: <u>12</u> Inc.   |        | Breakdown: <u>40</u> Inc.   |        | Breakdown: <u>18</u> Inc.   |        | Breakdown: <u>60</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                          | 1536   |                             |        | 63                          | 1514   |
| P 2                         |        | 66                          | 1537   |                             |        | 66                          | 1515   |
| P 3                         |        | 69                          | 1537   |                             |        | 69                          | 1515   |
| P 4                         |        | 72                          | 1538   |                             |        | 72                          | 1516   |
| P 5                         |        | 75                          | 1538   |                             |        | 75                          | 1516   |
| P 6                         |        | 78                          | 1539   |                             |        | 78                          | 1517   |
| P 7                         |        | 81                          | 1539   |                             |        | 81                          | 1517   |
| P 8                         |        | 84                          | 1540   |                             |        | 84                          | 1518   |
| P 9                         |        | 87                          | 1540   |                             |        | 87                          | 1518   |
| P10                         |        | 90                          | 1541   |                             |        | 90                          | 1519   |
| P11                         |        | 93                          | 1541   |                             |        | 93                          | 1519   |
| P12                         |        | 96                          | 1542   |                             |        | 96                          | 1520   |
| P13                         |        | 99                          | 1543   |                             |        | 99                          | 1520   |
| P14                         |        | 102                         | 1543   |                             |        | 102                         | 1521   |
| P15                         |        | 105                         | 1544   |                             |        | 105                         | 1521   |
| P16                         |        | 108                         | 1544   |                             |        | 108                         | 1522   |
| P17                         |        | 111                         | 1544   |                             |        | 111                         | 1522   |
| P18                         |        | 114                         | 1544   |                             |        | 114                         | 1523   |
| P19                         |        | 117                         | 1544   |                             |        | 117                         | 1523   |
| P20                         |        | 120                         | 1544   |                             |        | 120                         | 1523   |

continued next page

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12/19/79 Test Ticket No. 4385  
 Recorder No. 2606 Capacity 4150 Location 4624 Ft.  
 Clock No. ---- Elevation 2092 Kelly Bushing Well Temperature 134 °F

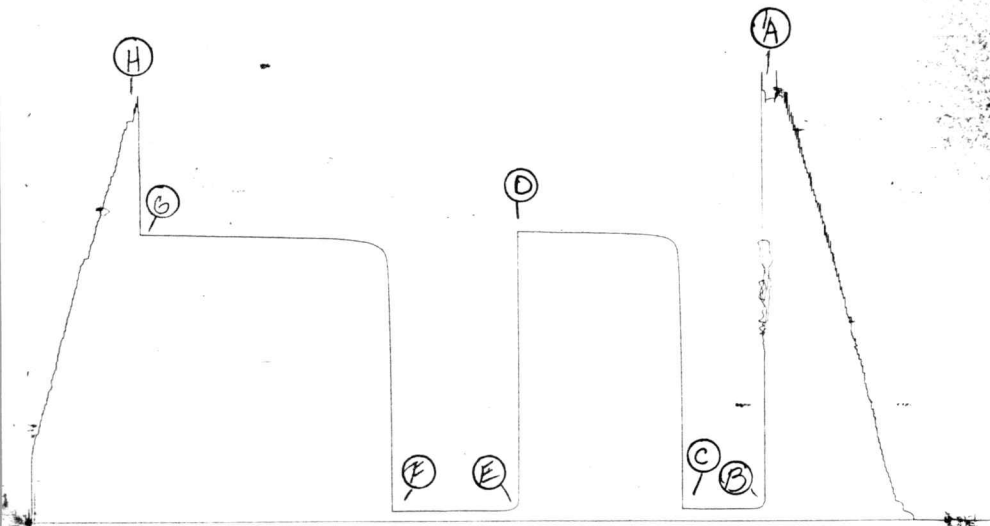
| Point                           | Pressure           | Open Tool                  | Time Given       | Time Computed    |
|---------------------------------|--------------------|----------------------------|------------------|------------------|
| A. Initial Hydrostatic Mud      | <u>2240</u> P.S.I. |                            | <u>2:35A</u> M   |                  |
| B. First Initial Flow Pressure  | <u>68</u> P.S.I.   | First Flow Pressure        | <u>60</u> Mins.  | <u>60</u> Mins.  |
| C. First Final Flow Pressure    | <u>67</u> P.S.I.   | Initial Closed-in Pressure | <u>120</u> Mins. | <u>120</u> Mins. |
| D. Initial Closed-in Pressure   | <u>1544</u> P.S.I. | Second Flow Pressure       | <u>90</u> Mins.  | <u>90</u> Mins.  |
| E. Second Initial Flow Pressure | <u>64</u> P.S.I.   | Final Closed-in Pressure   | <u>180</u> Mins. | <u>180</u> Mins. |
| F. Second Final Flow Pressure   | <u>57</u> P.S.I.   |                            |                  |                  |
| G. Final Closed-in Pressure     | <u>1527</u> P.S.I. |                            |                  |                  |
| H. Final Hydrostatic Mud        | <u>2198</u> P.S.I. |                            |                  |                  |

## PRESSURE BREAKDOWN

| First Flow Pressure         |        | Initial Shut-In             |        | Second Flow Pressure        |        | Final Shut-In               |        |
|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|-----------------------------|--------|
| Breakdown: <u>12</u> Inc.   |        | Breakdown: <u>40</u> Inc.   |        | Breakdown: <u>18</u> Inc.   |        | Breakdown: <u>60</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                         |        |                             |        |                             |        | 123                         | 1524   |
| P 2                         |        |                             |        |                             |        | 126                         | 1524   |
| P 3                         |        |                             |        |                             |        | 129                         | 1524   |
| P 4                         |        |                             |        |                             |        | 132                         | 1525   |
| P 5                         |        |                             |        |                             |        | 135                         | 1525   |
| P 6                         |        |                             |        |                             |        | 138                         | 1526   |
| P 7                         |        |                             |        |                             |        | 141                         | 1526   |
| P 8                         |        |                             |        |                             |        | 144                         | 1526   |
| P 9                         |        |                             |        |                             |        | 147                         | 1527   |
| P10                         |        |                             |        |                             |        | 150                         | 1527   |
| P11                         |        |                             |        |                             |        | 153                         | 1527   |
| P12                         |        |                             |        |                             |        | 156                         | 1527   |
| P13                         |        |                             |        |                             |        | 159                         | 1527   |
| P14                         |        |                             |        |                             |        | 162                         | 1527   |
| P15                         |        |                             |        |                             |        | 165                         | 1527   |
| P16                         |        |                             |        |                             |        | 168                         | 1527   |
| P17                         |        |                             |        |                             |        | 171                         | 1527   |
| P18                         |        |                             |        |                             |        | 174                         | 1527   |
| P19                         |        |                             |        |                             |        | 177                         | 1527   |
| P20                         |        |                             |        |                             |        | 180                         | 1527   |

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