



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 8006

P. O. BOX 1599 WICHITA, KANSAS 67201

Elevation 1295 ft. Formation Mississippi

District Augusta Date 1-13-81 Customer Order No.

COMPANY NAME Kansas Oil Corporation

ADDRESS 555 N. Woodlawn Wichita Ks 67208

LEASE AND WELL NO. Zeka #1 COUNTY Sumner STATE Ks Sec. 1 Twp 315 Rge 2W

Mail Invoice To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 8

Formation Test No. 3 Interval Tested from 3707 ft. to 3720 ft. Total Depth 3720 ft.

Packer Depth 3707 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3702 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3713 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 3716 ft. Recorder Number 5666 Cap. 3950

Below Straddle Recorder Depth - ft. Recorder Number - Cap.

Drilling Contractor Blue Streak Drllg #1 Drill Collar Length - I. D. - in.

Mud Type Chem Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 14.6 cc. Drill Pipe Length 3677 I. D. 3.8 in.

Chlorides 4000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 13 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Gas diminishing slightly at end of test

Recovered 90 ft. of Muddy salt water 95,000 PPM Chlorides

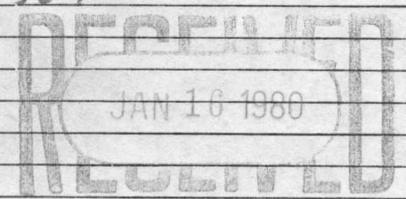
Recovered ft. of .7 Resistivity @ 50°F

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:



Time On Location 1:00 1-13-81 A.M. P.M. Time Pick Up Tool 3:00 A.M. P.M. Time Off Location 10:30 1-13-81 A.M. P.M.

Time Set Packer(s) 4:30 A.M. P.M. Time Started Off Bottom 7:30 A.M. P.M. Maximum Temperature 117

Initial Hydrostatic Pressure (A) 1870 P.S.I.

Initial Flow Period Minutes 30 (B) 30 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period Minutes 60 (D) 1055 P.S.I.

Final Flow Period Minutes 30 (E) 50 P.S.I. to (F) 50 P.S.I.

Final Closed In Period Minutes 60 (G) 1045 P.S.I.

Final Hydrostatic Pressure (H) 1860 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Dick Stoneburner Signature of Customer or his authorized representative

Western Representative Norman Allen

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$625.00), Mileage (\$36.00), Extra Charts (\$30.00), and TOTAL (\$691.00).

WESTERN TESTING CO., INC.

Pressure Data

Date 1-13 Test Ticket No. 8006  
 Recorder No. 1559 Capacity 4200 Location 3713 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1295 KB Well Temperature 117 °F

| Point                          | Pressure           | Open Tool                  | Time Given      | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1869</u> P.S.I. |                            | <u>4:30 P</u>   |                 |
| B First Initial Flow Pressure  | <u>29</u> P.S.I.   | First Flow Pressure        | <u>30</u> Mins. | <u>25</u> Mins. |
| C First Final Flow Pressure    | <u>31</u> P.S.I.   | Initial Closed-in Pressure | <u>60</u> Mins. | <u>60</u> Mins. |
| D Initial Closed-in Pressure   | <u>1056</u> P.S.I. | Second Flow Pressure       | <u>30</u> Mins. | <u>30</u> Mins. |
| E Second Initial Flow Pressure | <u>56</u> P.S.I.   | Final Closed-in Pressure   | <u>60</u> Mins. | <u>57</u> Mins. |
| F Second Final Flow Pressure   | <u>51</u> P.S.I.   |                            |                 |                 |
| G Final Closed-in Pressure     | <u>1040</u> P.S.I. |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>1854</u> P.S.I. |                            |                 |                 |

PRESSURE BREAKDOWN

|  |   |   |   |
|--|---|---|---|
| <b>First Flow Pressure</b><br>Breakdown: <u>5</u> Inc.<br>of <u>5</u> mins. and a<br>final inc. of <u>0</u> Min. | <b>Initial Shut-In</b><br>Breakdown: <u>20</u> Inc.<br>of <u>3</u> mins. and a<br>final inc. of <u>0</u> Min. | <b>Second Flow Pressure</b><br>Breakdown: <u>6</u> Inc.<br>of <u>5</u> mins. and a<br>final inc. of <u>0</u> Min. | <b>Final Shut-In</b><br>Breakdown: <u>19</u> Inc.<br>of <u>3</u> mins. and a<br>final inc. of <u>0</u> Min. |
|--|---|---|---|

| Point Mins. | Press.    | Point Minutes | Press.      | Point Minutes | Press.    | Point Minutes | Press.      |
|-------------|-----------|---------------|-------------|---------------|-----------|---------------|-------------|
| P 1         | <u>29</u> | 0             | <u>31</u>   | 0             | <u>56</u> | 0             | <u>51</u>   |
| P 2         | <u>28</u> | 3             | <u>521</u>  | 5             | <u>48</u> | 3             | <u>552</u>  |
| P 3         | <u>28</u> | 6             | <u>764</u>  | 10            | <u>(</u>  | 6             | <u>764</u>  |
| P 4         | <u>29</u> | 9             | <u>870</u>  | 15            | <u>5</u>  | 9             | <u>856</u>  |
| P 5         | <u>30</u> | 12            | <u>929</u>  | 20            | <u>48</u> | 12            | <u>906</u>  |
| P 6         | <u>31</u> | 15            | <u>958</u>  | 25            | <u>50</u> | 15            | <u>937</u>  |
| P 7         |           | 18            | <u>979</u>  | 30            | <u>51</u> | 18            | <u>958</u>  |
| P 8         |           | 21            | <u>996</u>  | 35            |           | 21            | <u>975</u>  |
| P 9         |           | 24            | <u>1008</u> | 40            |           | 24            | <u>985</u>  |
| P10         |           | 27            | <u>1017</u> | 45            |           | 27            | <u>996</u>  |
| P11         |           | 30            | <u>1025</u> | 50            |           | 30            | <u>1004</u> |
| P12         |           | 33            | <u>1031</u> | 55            |           | 33            | <u>1010</u> |
| P13         |           | 36            | <u>1037</u> | 60            |           | 36            | <u>1015</u> |
| P14         |           | 39            | <u>1042</u> | 65            |           | 39            | <u>1021</u> |
| P15         |           | 42            | <u>1048</u> | 70            |           | 42            | <u>1023</u> |
| P16         |           | 45            | <u>1046</u> | 75            |           | 45            | <u>1028</u> |
| P17         |           | 48            | <u>1048</u> | 80            |           | 48            | <u>1031</u> |
| P18         |           | 51            | <u>1050</u> | 85            |           | 51            | <u>1033</u> |
| P19         |           | 54            | <u>1052</u> | 90            |           | 54            | <u>1036</u> |
| P20         |           | 57            | <u>1054</u> |               |           | 57            | <u>1040</u> |
|             |           | 60            | <u>1056</u> |               |           | 60            | <u>60</u>   |

Company Kansas Oil Corporation Lease & Well No. Zeka #1  
 Elevation 1295 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 8006  
 Date 1/13/81 Sec. 1 Twp. 31S Range 2W County Sumner State Kansas  
 Test Approved by Dick Stoneburner Western Representative Norman Allen

Formation Test No. 3 Interval Tested from 3707 ft. to 3720 ft. Total Depth 3720 ft.  
 Packer Depth 3707 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3702 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3713 ft. Recorder Number 1559 Cap. 4200  
 Bottom Recorder Depth (Outside) 3716 ft. Recorder Number 5666 Cap. 3950  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Blue Streak Drilling Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type Chemical Viscosity 40 Weight Pipe Length - I. D. - in.  
 Weight 9.4 Water Loss 14.6 cc. Drill Pipe Length 3677 I. D. 3.8 in.  
 Chlorides 4000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 13 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: Fair diminishing slightly at end of test.

Recovered 90 ft. of muddy salt water Chlorides 95,000 PPM  
 Recovered - ft. of .7 Resistivity @ 50°F  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 4:30 A.M. Time Started Off Bottom 7:30 A.M. Maximum Temperature 117  
P.M. P.M.  
 Initial Hydrostatic Pressure (A) 1869 P.S.I.  
 Initial Flow Period Minutes 25 (B) 29 P.S.I. to (C) 31 P.S.I.  
 Initial Closed In Period Minutes 60 (D) 1056 P.S.I.  
 Final Flow Period Minutes 30 (E) 56 P.S.I. to (F) 51 P.S.I.  
 Final Closed In Period Minutes 57 (G) 1040 P.S.I.  
 Final Hydrostatic Pressure (H) 1854 P.S.I.

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

Date 1/13/81

Test Ticket No. 8006

Recorder No. 1559

Capacity 4200

Location 3713 Ft.

Clock No. -

Elevation 1295 Kelly Bushing

Well Temperature 117 °F

| Point                          | Pressure    |        | Time Given      | Time Computed   |
|--------------------------------|-------------|--------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1869</u> | P.S.I. | <u>4:30P</u>    | <u>M</u>        |
| B First Initial Flow Pressure  | <u>29</u>   | P.S.I. | <u>30</u> Mins. | <u>25</u> Mins. |
| C First Final Flow Pressure    | <u>31</u>   | P.S.I. | <u>60</u> Mins. | <u>60</u> Mins. |
| D Initial Closed-in Pressure   | <u>1056</u> | P.S.I. | <u>30</u> Mins. | <u>30</u> Mins. |
| E Second Initial Flow Pressure | <u>56</u>   | P.S.I. | <u>60</u> Mins. | <u>57</u> Mins. |
| F Second Final Flow Pressure   | <u>51</u>   | P.S.I. |                 |                 |
| G Final Closed-in Pressure     | <u>1040</u> | P.S.I. |                 |                 |
| H Final Hydrostatic Mud        | <u>1854</u> | P.S.I. |                 |                 |

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
Breakdown: 5 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Initial Shut-In**  
Breakdown: 20 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

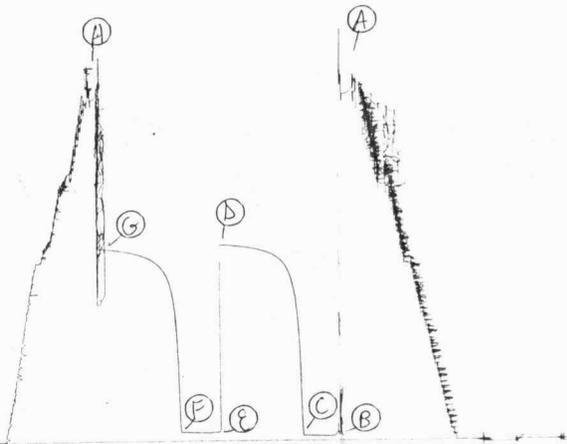
**Second Flow Pressure**  
Breakdown: 6 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Final Shut-In**  
Breakdown: 19 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

| Point Mins.   | Press.    | Point Minutes | Press.      | Point Minutes | Press.    | Point Minutes | Press.      |
|---------------|-----------|---------------|-------------|---------------|-----------|---------------|-------------|
| P 1 <u>0</u>  | <u>29</u> | <u>0</u>      | <u>31</u>   | <u>0</u>      | <u>56</u> | <u>0</u>      | <u>51</u>   |
| P 2 <u>5</u>  | <u>28</u> | <u>3</u>      | <u>521</u>  | <u>5</u>      | <u>48</u> | <u>3</u>      | <u>552</u>  |
| P 3 <u>10</u> | <u>28</u> | <u>6</u>      | <u>764</u>  | <u>10</u>     | <u>48</u> | <u>6</u>      | <u>764</u>  |
| P 4 <u>15</u> | <u>29</u> | <u>9</u>      | <u>870</u>  | <u>15</u>     | <u>48</u> | <u>9</u>      | <u>856</u>  |
| P 5 <u>20</u> | <u>30</u> | <u>12</u>     | <u>929</u>  | <u>20</u>     | <u>48</u> | <u>12</u>     | <u>906</u>  |
| P 6 <u>25</u> | <u>31</u> | <u>15</u>     | <u>958</u>  | <u>25</u>     | <u>50</u> | <u>15</u>     | <u>937</u>  |
| P 7 <u>30</u> |           | <u>18</u>     | <u>979</u>  | <u>30</u>     | <u>51</u> | <u>18</u>     | <u>958</u>  |
| P 8           |           | <u>21</u>     | <u>996</u>  |               | <u>51</u> | <u>21</u>     | <u>975</u>  |
| P 9           |           | <u>24</u>     | <u>1008</u> |               |           | <u>24</u>     | <u>985</u>  |
| P10           |           | <u>27</u>     | <u>1017</u> |               |           | <u>27</u>     | <u>996</u>  |
| P11           |           | <u>30</u>     | <u>1025</u> |               |           | <u>30</u>     | <u>1004</u> |
| P12           |           | <u>33</u>     | <u>1031</u> |               |           | <u>33</u>     | <u>1010</u> |
| P13           |           | <u>36</u>     | <u>1037</u> |               |           | <u>36</u>     | <u>1015</u> |
| P14           |           | <u>39</u>     | <u>1042</u> |               |           | <u>39</u>     | <u>1021</u> |
| P15           |           | <u>42</u>     | <u>1044</u> |               |           | <u>42</u>     | <u>1023</u> |
| P16           |           | <u>45</u>     | <u>1046</u> |               |           | <u>45</u>     | <u>1028</u> |
| P17           |           | <u>48</u>     | <u>1048</u> |               |           | <u>48</u>     | <u>1031</u> |
| P18           |           | <u>51</u>     | <u>1050</u> |               |           | <u>51</u>     | <u>1033</u> |
| P19           |           | <u>54</u>     | <u>1052</u> |               |           | <u>54</u>     | <u>1036</u> |
| P20           |           | <u>57</u>     | <u>1054</u> |               |           | <u>57</u>     | <u>1040</u> |
|               |           | <u>60</u>     | <u>1056</u> |               |           |               |             |

TKT 2006

I





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 8007

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 1295 Kelly Formation Mississippi Eff. Pay Ft.

District Augusta Date 1-14-81 Customer Order No.

COMPANY NAME Kansas Oil Corporation

ADDRESS 555 N. Woodlawn Wichita, Ks 67208

LEASE AND WELL NO. Zeka #1 COUNTY Sumner STATE Ks. Sec. 1 Twp 315 Rge 2W

Mail Invoice To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 8

Formation Test No. 4 Interval Tested from 3725 ft. to 3754 ft. Total Depth 3754 ft.

Packer Depth 3725 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3720 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3747 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 3750 ft. Recorder Number 5666 Cap. 3950

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Blue Streak Drilling #1 Drill Collar Length - I. D. - in.

Mud Type Chem Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 14.6 cc. Drill Pipe Length 3705 I. D. 3.8 in.

Chlorides 4000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 29 ft. Size 5 1/2 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: Fair throat test

Recovered 30 ft. of Very slightly oil cut mud 5% oil 95% muddy water

Recovered 60 ft. of Muddy salt water - trace of oil less than 1%

Recovered ft. of Remainder muddy salt water

Recovered ft. of 85,000 PPM Chlorides

Remarks: Damaged both packer rubbers pulling tool off bottom

Time On Location 8:00 1-14 A.M. Time Pick Up Tool 10:00 P.M. Time Off Location 6:30 A.M. P.M.

Time Set Packer(s) 11:30 A.M. P.M. Time Started Off Bottom 2:30 A.M. P.M. Maximum Temperature 117

Initial Hydrostatic Pressure (A) 1870 P.S.I.

Initial Flow Period Minutes 30 (B) 40 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period Minutes 60 (D) 1075 P.S.I.

Final Flow Period Minutes 30 (E) 60 P.S.I. to (F) 60 P.S.I.

Final Closed In Period Minutes 60 (G) 1055 P.S.I.

Final Hydrostatic Pressure (H) 1870 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

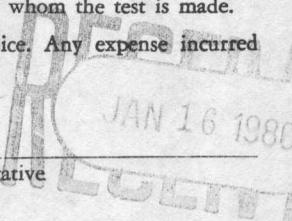
All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Dick Anderson Signature of Customer or his authorized representative

Western Representative Norman Allen

FIELD INVOICE

Table with 2 columns: Item and Amount. Includes Open Hole Test (\$225.00), Mileage (\$36.00), Extra Charts (\$30.00), and TOTAL (\$691.00).



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

Date 1-14 Test Ticket No. 8007  
 Recorder No. 1559 Capacity 4200 Location 3747 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1295 KB Well Temperature 117 °F

| Point                          | Pressure    |        | Time Given     | Time Computed   |
|--------------------------------|-------------|--------|----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1873</u> | P.S.I. | <u>11:30 A</u> | <u>M</u>        |
| B First Initial Flow Pressure  | <u>46</u>   | P.S.I. | <u>30</u>      | <u>30</u> Mins. |
| C First Final Flow Pressure    | <u>46</u>   | P.S.I. | <u>60</u>      | <u>63</u> Mins. |
| D Initial Closed-in Pressure   | <u>1075</u> | P.S.I. | <u>30</u>      | <u>30</u> Mins. |
| E Second Initial Flow Pressure | <u>67</u>   | P.S.I. | <u>60</u>      | <u>63</u> Mins. |
| F Second Final Flow Pressure   | <u>65</u>   | P.S.I. |                |                 |
| G Final Closed-in Pressure     | <u>1050</u> | P.S.I. |                |                 |
| H Final Hydrostatic Mud        | <u>1873</u> | 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>6</u> Inc.    |           | Breakdown: <u>21</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>46</u> | 0                           | <u>46</u>   | 0                           | <u>67</u> | 0                           | <u>65</u>   |
| P 2                         | <u>40</u> | 3                           | <u>119</u>  | 5                           | <u>59</u> | 3                           | <u>161</u>  |
| P 3                         | <u>40</u> | 6                           | <u>334</u>  | 10                          | <u>59</u> | 6                           | <u>374</u>  |
| P 4                         | <u>40</u> | 9                           | <u>533</u>  | 15                          | <u>60</u> | 9                           | <u>554</u>  |
| P 5                         | <u>42</u> | 12                          | <u>681</u>  | 20                          | <u>63</u> | 12                          | <u>683</u>  |
| P 6                         | <u>44</u> | 15                          | <u>770</u>  | 25                          | <u>64</u> | 15                          | <u>772</u>  |
| P 7                         | <u>46</u> | 18                          | <u>843</u>  | 30                          | <u>65</u> | 18                          | <u>833</u>  |
| P 8                         |           | 21                          | <u>893</u>  | 35                          |           | 21                          | <u>879</u>  |
| P 9                         |           | 24                          | <u>931</u>  | 40                          |           | 24                          | <u>910</u>  |
| P10                         |           | 27                          | <u>962</u>  | 45                          |           | 27                          | <u>933</u>  |
| P11                         |           | 30                          | <u>983</u>  | 50                          |           | 30                          | <u>954</u>  |
| P12                         |           | 33                          | <u>1002</u> | 55                          |           | 33                          | <u>973</u>  |
| P13                         |           | 36                          | <u>1017</u> | 60                          |           | 36                          | <u>987</u>  |
| P14                         |           | 39                          | <u>1027</u> | 65                          |           | 39                          | <u>1000</u> |
| P15                         |           | 42                          | <u>1038</u> | 70                          |           | 42                          | <u>1008</u> |
| P16                         |           | 45                          | <u>1048</u> | 75                          |           | 45                          | <u>1017</u> |
| P17                         |           | 48                          | <u>1052</u> | 80                          |           | 48                          | <u>1025</u> |
| P18                         |           | 51                          | <u>1059</u> | 85                          |           | 51                          | <u>1031</u> |
| P19                         |           | 54                          | <u>1065</u> | 90                          |           | 54                          | <u>1036</u> |
| P20                         |           | 57                          | <u>1069</u> |                             |           | 57                          | <u>1042</u> |
|                             |           | 60                          | <u>1073</u> |                             |           | 60                          | <u>1046</u> |
|                             |           | 63                          | <u>1075</u> |                             |           | 63                          | <u>1050</u> |

Company Kansas Oil Corporation Lease & Well No. Zeka #1  
 Elevation 1295 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 8007  
 Date 1/14/81 Sec. 1 Twp. 31S Range 2W County Sumner State Kansas  
 Test Approved by Dick Stoneburner Western Representative Norman Allen

Formation Test No. 4 Interval Tested from 3725 ft. to 3754 ft. Total Depth 3754 ft.  
 Packer Depth 3725 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3720 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3747 ft. Recorder Number 1559 Cap. 4200  
 Bottom Recorder Depth (Outside) 3750 ft. Recorder Number 5666 Cap. 3950  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Blue Streak Drilling Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type Chemical Viscosity 40 Weight Pipe Length - I. D. - in.  
 Weight 9.4 Water Loss 14.6 cc. Drill Pipe Length 3705 I. D. 3.8 in.  
 Chlorides 4000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 29 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: Fair throughout test.

Recovered 30 ft. of very slightly oil cut mud - 5% oil; 95% muddy water  
 Recovered 60 ft. of muddy salt water - trace of oil less than 1% - remainder muddy salt water  
 Recovered          ft. of Chlorides 85,000 PPM  
 Recovered          ft. of .8 Resistivity @ 50°F  
 Recovered          ft. of         

Remarks: Damaged both packer rubbers pulling tool off bottom.

Time Set Packer(s) 11:30 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 2:30 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 117  
 Initial Hydrostatic Pressure 1873 P.S.I. (A)  
 Initial Flow Period 30 Minutes (B) 46 P.S.I. to (C) 46 P.S.I.  
 Initial Closed In Period 63 Minutes (D) 1075 P.S.I.  
 Final Flow Period 30 Minutes (E) 67 P.S.I. to (F) 65 P.S.I.  
 Final Closed In Period 63 Minutes (G) 1050 P.S.I.  
 Final Hydrostatic Pressure 1873 P.S.I. (H)

# WESTERN TESTING CO., INC.

## Pressure Data

Date 1/14/81

Test Ticket No. 8007

Recorder No. 1559 Capacity 4200

Location 3747 Ft.

Clock No. - Elevation 1295 Kelly Bushing

Well Temperature 117 °F

| Point                          | Pressure           |                            | Time Given      | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1873</u> P.S.I. | Open Tool                  | <u>11:30A</u>   | <u>M</u>        |
| B First Initial Flow Pressure  | <u>46</u> P.S.I.   | First Flow Pressure        | <u>30</u> Mins. | <u>30</u> Mins. |
| C First Final Flow Pressure    | <u>46</u> P.S.I.   | Initial Closed-in Pressure | <u>60</u> Mins. | <u>63</u> Mins. |
| D Initial Closed-in Pressure   | <u>1075</u> P.S.I. | Second Flow Pressure       | <u>30</u> Mins. | <u>30</u> Mins. |
| E Second Initial Flow Pressure | <u>67</u> P.S.I.   | Final Closed-in Pressure   | <u>60</u> Mins. | <u>63</u> Mins. |
| F Second Final Flow Pressure   | <u>65</u> P.S.I.   |                            |                 |                 |
| G Final Closed-in Pressure     | <u>1050</u> P.S.I. |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>1873</u> P.S.I. |                            |                 |                 |

### PRESSURE BREAKDOWN

| Point Mins. | First Flow Pressure    |               | Initial Shut-In        |               | Second Flow Pressure   |               | Final Shut-In          |             |
|-------------|------------------------|---------------|------------------------|---------------|------------------------|---------------|------------------------|-------------|
|             | Breakdown:             | Inc.          | Breakdown:             | Inc.          | Breakdown:             | Inc.          | Breakdown:             | Inc.        |
|             | <u>6</u>               | <u>Inc.</u>   | <u>21</u>              | <u>Inc.</u>   | <u>6</u>               | <u>Inc.</u>   | <u>21</u>              | <u>Inc.</u> |
|             | 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>46</u>              | <u>0</u>      | <u>46</u>              | <u>0</u>      | <u>67</u>              | <u>0</u>      | <u>65</u>              |             |
| P 2         | <u>40</u>              | <u>3</u>      | <u>119</u>             | <u>5</u>      | <u>59</u>              | <u>3</u>      | <u>161</u>             |             |
| P 3         | <u>40</u>              | <u>6</u>      | <u>334</u>             | <u>10</u>     | <u>59</u>              | <u>6</u>      | <u>374</u>             |             |
| P 4         | <u>40</u>              | <u>9</u>      | <u>533</u>             | <u>15</u>     | <u>60</u>              | <u>9</u>      | <u>554</u>             |             |
| P 5         | <u>42</u>              | <u>12</u>     | <u>681</u>             | <u>20</u>     | <u>63</u>              | <u>12</u>     | <u>683</u>             |             |
| P 6         | <u>44</u>              | <u>15</u>     | <u>770</u>             | <u>25</u>     | <u>64</u>              | <u>15</u>     | <u>772</u>             |             |
| P 7         | <u>46</u>              | <u>18</u>     | <u>843</u>             | <u>30</u>     | <u>65</u>              | <u>18</u>     | <u>833</u>             |             |
| P 8         |                        | <u>21</u>     | <u>893</u>             |               |                        | <u>21</u>     | <u>879</u>             |             |
| P 9         |                        | <u>24</u>     | <u>931</u>             |               |                        | <u>24</u>     | <u>910</u>             |             |
| P10         |                        | <u>27</u>     | <u>962</u>             |               |                        | <u>27</u>     | <u>933</u>             |             |
| P11         |                        | <u>30</u>     | <u>983</u>             |               |                        | <u>30</u>     | <u>954</u>             |             |
| P12         |                        | <u>33</u>     | <u>1002</u>            |               |                        | <u>33</u>     | <u>973</u>             |             |
| P13         |                        | <u>36</u>     | <u>1017</u>            |               |                        | <u>36</u>     | <u>987</u>             |             |
| P14         |                        | <u>39</u>     | <u>1027</u>            |               |                        | <u>39</u>     | <u>1000</u>            |             |
| P15         |                        | <u>42</u>     | <u>1038</u>            |               |                        | <u>42</u>     | <u>1008</u>            |             |
| P16         |                        | <u>45</u>     | <u>1048</u>            |               |                        | <u>45</u>     | <u>1017</u>            |             |
| P17         |                        | <u>48</u>     | <u>1052</u>            |               |                        | <u>48</u>     | <u>1025</u>            |             |
| P18         |                        | <u>51</u>     | <u>1059</u>            |               |                        | <u>51</u>     | <u>1031</u>            |             |
| P19         |                        | <u>54</u>     | <u>1065</u>            |               |                        | <u>54</u>     | <u>1036</u>            |             |
| P20         |                        | <u>57</u>     | <u>1069</u>            |               |                        | <u>57</u>     | <u>1042</u>            |             |
|             |                        | <u>60</u>     | <u>1073</u>            |               |                        | <u>60</u>     | <u>1046</u>            |             |
|             |                        | <u>63</u>     | <u>1075</u>            |               |                        | <u>63</u>     | <u>1050</u>            |             |

TKT # 8007  
I

