

15-039-20117



26-4s-27w

Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Lease & Well No. Petracek # 1  
 Elevation 2502 Derrick Floor Formation Tarkio Effective Pay 4 Ft. Ticket No. 12500  
 Date 9-14-69 Sec. 26 Twp. 4s Range 27w County Decatur State Kansas  
 Test Approved by J. G. Klein Western Representative Kenneth Cheney  
 Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 3138' to 3153' Total Depth 3153'  
 Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐  
Top Packer Depth 3133 Ft. Size 6 3/4 Packer Depth 3138 Ft. Size 6 3/4  
 Straddle Yes ☐ No ☒ Conv. ☐ B.T. ☐ Damaged Yes ☐ No ☐  
 Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" Exhde Anchor Length 15 Ft. Size 5 1/2" OD  
 RECORDERS Depth 3145 Ft. Clock No. 9726 Depth 3147 Ft. Clock No. 9103  
 Top Make Kuster Cap. 4200 No. 3354 Inside Outside Bottom Make Kuster Cap. 4150 No. 1051 Inside Outside  
 Below Straddle: Depth                      Clock No.                      Inside Outside Depth                      Ft. Clock No.                      Inside Outside  
 Top Make                      Cap.                      No.                      Inside Outside Bottom Make                      Cap.                      No.                      Inside Outside  
 Time Set Packer 6:43A M  
 Tool Open I.F.P. From 6:45 M. to 6:55A M. Hr. 10 Min. From (B) 33 P.S.I. To (C) 33 P.S.I.  
 Tool Closed I.C.I.P. From 6:55 M. to 7:40A M. Hr. 45 Min. (D) 1108 P.S.I.  
 Tool Open F.F.P. From 7:40 M. to 8:40A M. Hr. 60 Min. From (E) 38 P.S.I. To (F) 38 P.S.I.  
 Tool Closed F.C.I.P. From 8:40 M. to 9:35A M. Hr. 45 Min. (G) 917 P.S.I.  
 Initial Hydrostatic Pressure (A) 1647 P.S.I. Final Hydrostatic Pressure (H) 1631 P.S.I.  
 SURFACE Size Choke 3/8 In. Max. Press. P.S.I.                      Time                      Description of Flow                       
 INFORMATION                      M.                       
                     M.                       
                     M.                       
 BLOW Weak thru out test Bottom Choke Size 3/4 In.  
 Did Well Flow Yes ☒ No ☐ Recovery Total Ft. 60 feet gas in pipe-- 30 feet heavy oil cut mud  
 Reversed Out Yes ☒ No ☐ Mud Type starch Viscosity 45 Weight 9.7 Water Loss 6.8 cc. Maximum Temp. 99 °F  
 Type Circ. Sub. plug Did Tool Plug? no Jars: Size                      Make                      Ser. No.                       
 EXTRA EQUIPMENT: Dual Packers yes Safety Joint                      Did Packer Hold? yes Where?                       
 Length Drill Pipe 1825 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars                      ft.  
 I. D. Drill Collars                      in. Length D.S.T. Tool 35 ft.  
 Remarks

# WESTERN TESTING CO., INC. Pressure Data

Date 9-14-69 Test Ticket No. 12500  
Recorder No. 3354 Capacity 4200 Location 3145 Ft.  
Clock No. 9726 Elevation 2502 Derrick Floor Well Temperature 99 °F

| Point                          | Pressure           |                            | Time Given      | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1647</u> P.S.I. | Open Tool                  | <u>6:45</u> A M |                 |
| B First Initial Flow Pressure  | <u>33</u> P.S.I.   | First Flow Pressure        | <u>10</u> Mins. | <u>14</u> Mins. |
| C First Final Flow Pressure    | <u>33</u> P.S.I.   | Initial Closed-in Pressure | <u>45</u> Mins. | <u>43</u> Mins. |
| D Initial Closed-in Pressure   | <u>1108</u> P.S.I. | Second Flow Pressure       | <u>60</u> Mins. | <u>62</u> Mins. |
| E Second Initial Flow Pressure | <u>38</u> P.S.I.   | Final Closed-in Pressure   | <u>45</u> Mins. | <u>45</u> Mins. |
| F Second Final Flow Pressure   | <u>38</u> P.S.I.   |                            |                 |                 |
| G Final Closed-in Pressure     | <u>917</u> P.S.I.  |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>1631</u> P.S.I. |                            |                 |                 |

## PRESSURE BREAKDOWN

First Flow Pressure  
Breakdown: 2 Inc.  
of 5 mins. and a  
final inc. of \_\_\_\_\_ Min.

Initial Shut-In  
Breakdown: 14 Inc.  
of 3 mins. and a  
final inc. of 1 Min.

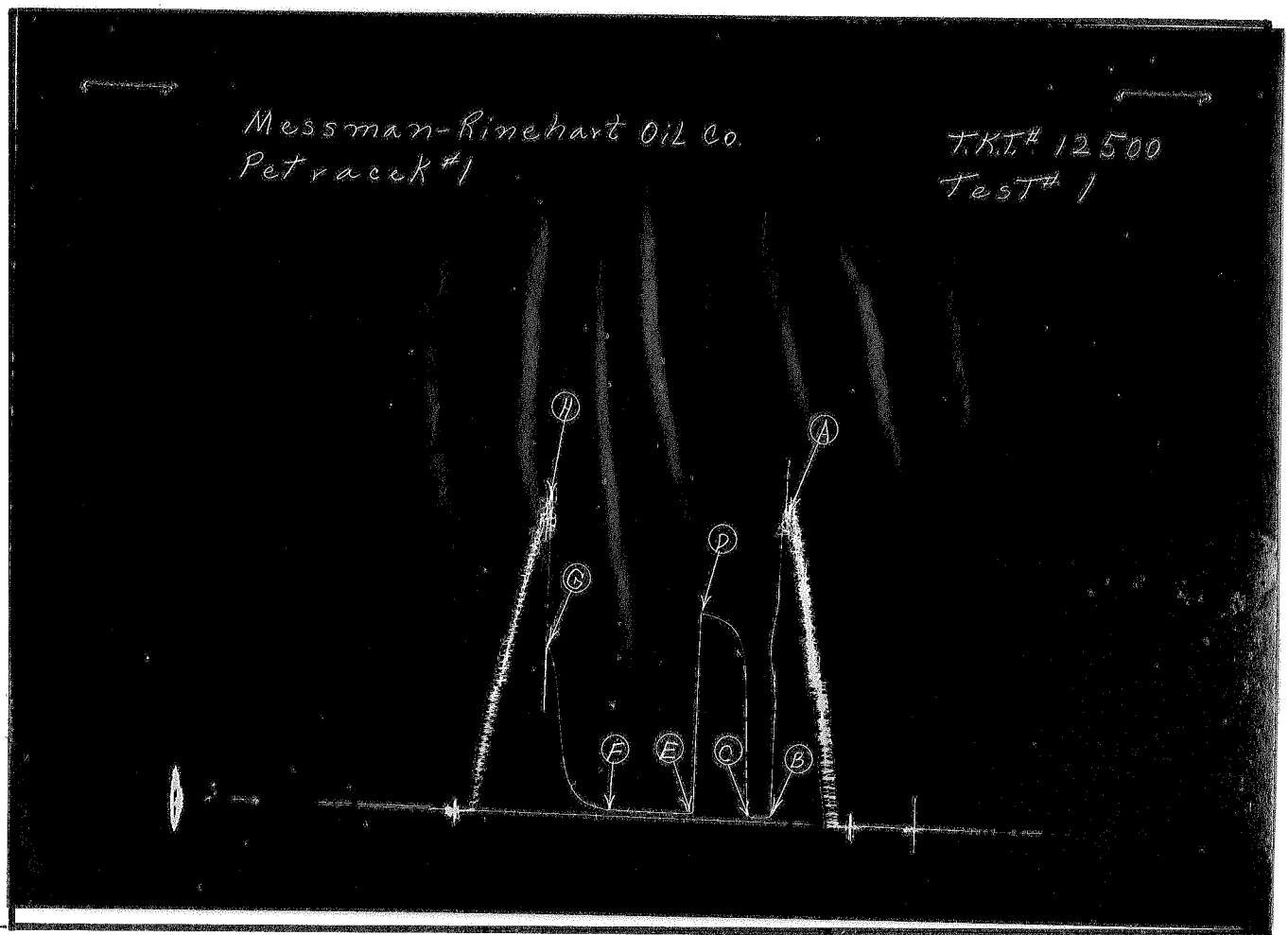
Second Flow Pressure  
Breakdown: 12 Inc.  
of 5 mins. and a  
final inc. of 2 Min.

Final Shut-In  
Breakdown: 15 Inc.  
of 3 mins. and a  
final inc. of \_\_\_\_\_ Min.

| Point Mins.   | Press.    | Point Minutes | Press.      | Point Minutes | Press.    | Point Minutes | Press.     |
|---------------|-----------|---------------|-------------|---------------|-----------|---------------|------------|
| P 1 <u>0</u>  | <u>33</u> | <u>0</u>      | <u>33</u>   | <u>0</u>      | <u>38</u> | <u>0</u>      | <u>38</u>  |
| P 2 <u>5</u>  | <u>33</u> | <u>3</u>      | <u>158</u>  | <u>5</u>      | <u>38</u> | <u>3</u>      | <u>41</u>  |
| P 3 <u>10</u> | <u>33</u> | <u>6</u>      | <u>516</u>  | <u>10</u>     | <u>38</u> | <u>6</u>      | <u>45</u>  |
| P 4 <u>14</u> | <u>33</u> | <u>9</u>      | <u>812</u>  | <u>15</u>     | <u>38</u> | <u>9</u>      | <u>51</u>  |
| P 5 _____     |           | <u>12</u>     | <u>945</u>  | <u>20</u>     | <u>38</u> | <u>12</u>     | <u>56</u>  |
| P 6 _____     |           | <u>15</u>     | <u>1002</u> | <u>25</u>     | <u>38</u> | <u>15</u>     | <u>67</u>  |
| P 7 _____     |           | <u>18</u>     | <u>1027</u> | <u>30</u>     | <u>38</u> | <u>18</u>     | <u>83</u>  |
| P 8 _____     |           | <u>21</u>     | <u>1050</u> | <u>35</u>     | <u>38</u> | <u>21</u>     | <u>107</u> |
| P 9 _____     |           | <u>24</u>     | <u>1065</u> | <u>40</u>     | <u>38</u> | <u>24</u>     | <u>141</u> |
| P10 _____     |           | <u>27</u>     | <u>1076</u> | <u>45</u>     | <u>38</u> | <u>27</u>     | <u>189</u> |
| P11 _____     |           | <u>30</u>     | <u>1086</u> | <u>50</u>     | <u>38</u> | <u>30</u>     | <u>276</u> |
| P12 _____     |           | <u>33</u>     | <u>1090</u> | <u>55</u>     | <u>38</u> | <u>33</u>     | <u>415</u> |
| P13 _____     |           | <u>36</u>     | <u>1097</u> | <u>60</u>     | <u>38</u> | <u>36</u>     | <u>616</u> |
| P14 _____     |           | <u>39</u>     | <u>1103</u> | <u>62</u>     | <u>38</u> | <u>39</u>     | <u>751</u> |
| P15 _____     |           | <u>42</u>     | <u>1107</u> |               |           | <u>42</u>     | <u>852</u> |
| P16 _____     |           | <u>43</u>     | <u>1108</u> |               |           | <u>45</u>     | <u>917</u> |
| P17 _____     |           |               |             |               |           |               |            |
| P18 _____     |           |               |             |               |           |               |            |
| P19 _____     |           |               |             |               |           |               |            |
| P20 _____     |           |               |             |               |           |               |            |

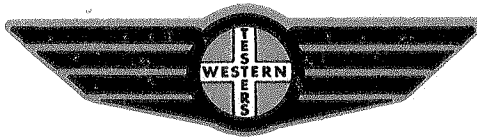
Messman-Rinehart Oil Co.  
Petrack #1

T.K.T.# 12500  
Test# 1



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |
|----------------------------------------|---------------|----------------|
|                                        | Field Reading | Office Reading |
| (A) Initial Hydrostatic Mud .....      | 1688          | 1647           |
| (B) First Initial Flow Pressure .....  | 37            | 33             |
| (C) First Final Flow Pressure .....    | 42            | 33             |
| (D) Initial Closed-in Pressure .....   | 1107          | 1108           |
| (E) Second Initial Flow Pressure ..... | 48            | 38             |
| (F) Second Final Flow Pressure .....   | 48            | 38             |
| (G) Final Closed-in Pressure .....     | 854           | 917            |
| (H) Final Hydrostatic Mud .....        | 1667          | 1631           |



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Company Messman-Rinehart Lease & Well No. Petracek # 1  
Elevation 2502 Derrick Floor Formation Tarkio Effective Pay \_\_\_\_\_ Ft. Ticket No. 13376  
Date 9-14-69 Sec. 26 Twp. 4s Range 27w County Decatur State Kansas  
Test Approved by J. G. Klein Western Representative Kenneth Cheney  
Formation Test No. 2 O.K. ☒ Misrun \_\_\_\_\_ Interval Tested From 3159' to 3172' Total Depth 3172'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. ☒ Damaged \_\_\_\_\_ Yes ☒ No Conv. ☒ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes ☒ No  
Top Packer Depth 3154 Ft. Size 6 3/4 Packer Depth 3159 Ft. Size 6 3/4  
Straddle \_\_\_\_\_ Yes \_\_\_\_\_ No ☒ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No  
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" Ex hole Anchor Length 13 Ft. Size 5 1/2" OD  
RECORDERS Depth 3165 Ft. Clock No. 9726 Depth 3167 Ft. Clock No. 9103  
Top Make Kuster Cap. 3354 No. 4150 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Kuster Cap. 4150 No. 1051 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_ Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Time Set Packer 4:18P M  
Tool Open I.F.P. From 4:20 M. to 4:30P M. Hr. 10 Min. From (B) 37 P.S.I. To (C) 37 P.S.I.  
Tool Closed I.C.I.P. From 4:30 M. to 5:15P M. Hr. 45 Min. (D) 1164 P.S.I.  
Tool Open F.F.P. From 5:15 M. to 5:55P M. Hr. 40 Min. From (E) 43 P.S.I. To (F) 37 P.S.I.  
Tool Closed F.C.I.P. From 5:55 M. to 6:40P M. Hr. 45 Min. (G) 1034 P.S.I.  
Initial Hydrostatic Pressure (A) 1637 P.S.I. Final Hydrostatic Pressure (H) 1617 P.S.I.  
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
BLOW Weak for 10 minutes Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Recovery Total Ft. 30 feet mud  
Reversed Out \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Mud Type starch Viscosity 40 Weight 9.6 Water Loss 11.3 cc. Maximum Temp. 106 °F  
Type Circ. Sub. plug Did Tool Plug? no Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where? \_\_\_\_\_  
Length Drill Pipe 1811 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 33 ft.  
Remarks Flush tool after 20 minutes-- slip tool 4 feet

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-14-69 Test Ticket No. 13376  
 Recorder No. 3354 Capacity 4150 Location 33876 3165 Ft.  
 Clock No. 9726 Elevation 2502 Derrick Floor Well Temperature 106 °F

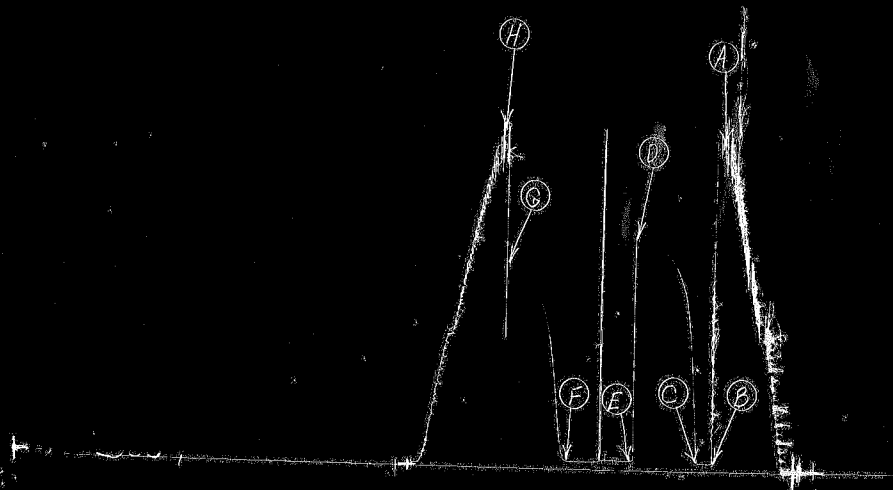
| Point                          | Pressure           |                            | Time Given      | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1637</u> P.S.I. | Open Tool                  | <u>4:20A</u> M  |                 |
| B First Initial Flow Pressure  | <u>37</u> P.S.I.   | First Flow Pressure        | <u>10</u> Mins. | <u>10</u> Mins. |
| C First Final Flow Pressure    | <u>37</u> P.S.I.   | Initial Closed-in Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| D Initial Closed-in Pressure   | <u>1164</u> P.S.I. | Second Flow Pressure       | <u>40</u> Mins. | <u>42</u> Mins. |
| E Second Initial Flow Pressure | <u>43</u> P.S.I.   | Final Closed-in Pressure   | <u>45</u> Mins. | <u>44</u> Mins. |
| F Second Final Flow Pressure   | <u>37</u> P.S.I.   |                            |                 |                 |
| G Final Closed-in Pressure     | <u>1034</u> P.S.I. |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>1617</u> P.S.I. |                            |                 |                 |

## PRESSURE BREAKDOWN

| First Flow Pressure      |           | Initial Shut-In           |             | Second Flow Pressure     |                     | Final Shut-In             |             |
|--------------------------|-----------|---------------------------|-------------|--------------------------|---------------------|---------------------------|-------------|
| Breakdown: <u>2</u> Inc. |           | Breakdown: <u>15</u> Inc. |             | Breakdown: <u>8</u> Inc. |                     | Breakdown: <u>14</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 _____ Min. |           | final inc. of _____ Min.  |             | final inc. of _____ Min. |                     | final inc. of _____ Min.  |             |
| Point Mins.              | Press.    | Point Minutes             | Press.      | Point Minutes            | Press.              | Point Minutes             | Press.      |
| P 1 <u>0</u>             | <u>37</u> | <u>0</u>                  | <u>37</u>   | <u>0</u>                 | <u>43</u>           | <u>0</u>                  | <u>37</u>   |
| P 2 <u>5</u>             | <u>37</u> | <u>3</u>                  | <u>202</u>  | <u>5</u>                 | <u>43</u>           | <u>3</u>                  | <u>52</u>   |
| P 3 <u>10</u>            | <u>37</u> | <u>6</u>                  | <u>523</u>  | <u>10</u>                | <u>43</u>           | <u>6</u>                  | <u>156</u>  |
| P 4 _____                |           | <u>9</u>                  | <u>810</u>  | <u>15</u>                | <u>43</u>           | <u>9</u>                  | <u>337</u>  |
| P 5 _____                |           | <u>12</u>                 | <u>911</u>  | <u>20</u>                | <u>flushed tool</u> | <u>12</u>                 | <u>527</u>  |
| P 6 _____                |           | <u>15</u>                 | <u>981</u>  | <u>25</u>                | <u>37</u>           | <u>15</u>                 | <u>702</u>  |
| P 7 _____                |           | <u>18</u>                 | <u>1036</u> | <u>30</u>                | <u>37</u>           | <u>18</u>                 | <u>795</u>  |
| P 8 _____                |           | <u>21</u>                 | <u>1067</u> | <u>35</u>                | <u>37</u>           | <u>21</u>                 | <u>858</u>  |
| P 9 _____                |           | <u>24</u>                 | <u>1090</u> | <u>40</u>                | <u>37</u>           | <u>24</u>                 | <u>905</u>  |
| P10 _____                |           | <u>27</u>                 | <u>1109</u> | <u>42</u>                | <u>37</u>           | <u>27</u>                 | <u>933</u>  |
| P11 _____                |           | <u>30</u>                 | <u>1122</u> |                          |                     | <u>30</u>                 | <u>957</u>  |
| P12 _____                |           | <u>33</u>                 | <u>1133</u> |                          |                     | <u>33</u>                 | <u>981</u>  |
| P13 _____                |           | <u>36</u>                 | <u>1141</u> |                          |                     | <u>36</u>                 | <u>1000</u> |
| P14 _____                |           | <u>39</u>                 | <u>1151</u> |                          |                     | <u>39</u>                 | <u>1012</u> |
| P15 _____                |           | <u>42</u>                 | <u>1158</u> |                          |                     | <u>42</u>                 | <u>1027</u> |
| P16 _____                |           | <u>45</u>                 | <u>1164</u> |                          |                     | <u>44</u>                 | <u>1034</u> |
| P17 _____                |           |                           |             |                          |                     |                           |             |
| P18 _____                |           |                           |             |                          |                     |                           |             |
| P19 _____                |           |                           |             |                          |                     |                           |             |
| P20 _____                |           |                           |             |                          |                     |                           |             |

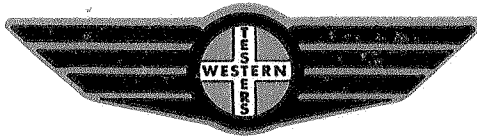
Messman-Rinehart Oil Co.  
Petracek #1

T.H.T. #13396  
Test #2



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |
|----------------------------------------|---------------|----------------|
|                                        | Field Reading | Office Reading |
| (A) Initial Hydrostatic Mud .....      | 1550          | 1637           |
| (B) First Initial Flow Pressure .....  | 42            | 37             |
| (C) First Final Flow Pressure .....    | 42            | 37             |
| (D) Initial Closed-in Pressure .....   | 1166          | 1164           |
| (E) Second Initial Flow Pressure ..... | 48            | 43             |
| (F) Second Final Flow Pressure .....   | 42            | 37             |
| (G) Final Closed-in Pressure .....     | 1040          | 1034           |
| (H) Final Hydrostatic Mud .....        | 1540          | 1617           |



Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Lease & Well No. Petracek # 1  
Elevation 2502 Derrick Floor Formation Tarkio Effective Pay \_\_\_\_\_ Ft. Ticket No. 13377  
Date 9-15-69 Sec. 26 Twp. 4s Range 27w County Decatur State Kansas  
Test Approved by J. G. Klein Western Representative Kenneth Cheney  
Formation Test No. 3 O.K. ☒ Misrun \_\_\_\_\_ Interval Tested From 3120' to 3172' Total Depth 3172'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. ☒ Damaged \_\_\_\_\_ Yes ☒ No ☒ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes ☒ No \_\_\_\_\_  
Top Packer Depth 3115 Ft. Size 6 3/4 Packer Depth 3120 Ft. Size 6 3/4  
Straddle \_\_\_\_\_ Yes \_\_\_\_\_ No ☒ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_  
Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" Ex hole Anchor Length 52 Ft. Size 5 1/2" OD  
RECORDERS Depth 3165 Ft. Clock No. 9726 Depth 3167 Ft. Clock No. 9103  
Top Make Kuster Cap. 4150 No. 3354 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Kuster Cap. 4150 No. 1051 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Time Set Packer. 12:03A M  
Tool Open I.F.P. From 12:05 M. to 12:15A M. Hr. 10 Min. From (B) 48 P.S.I. To (C) 51 P.S.I.  
Tool Closed I.C.I.P. From 12:15 M. to 1:00A M. Hr. 45 Min. (D) 1137 P.S.I.  
Tool Open F.F.P. From 1:00 M. to 2:00A M. Hr. 60 Min. From (E) 59 P.S.I. To (F) 71 P.S.I.  
Tool Closed F.C.I.P. From 2:00 M. to 2:45A M. Hr. 45 Min. (G) 964 P.S.I.  
Initial Hydrostatic Pressure (A) 1709 P.S.I. Final Hydrostatic Pressure (H) 1705 P.S.I.  
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
BLOW Weak to very weak Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Recovery Total Ft. 30 feet salty oil cut mud-- 60 feet mud with oil specks  
Reversed Out \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Mud Type starch Viscosity 40 Weight 9.6 Water Loss 11.3 cc. Maximum Temp. 106 °F  
Type Circ. Sub. plug Did Tool Plug? no Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where? \_\_\_\_\_  
Length Drill Pipe 1772 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 72 ft.  
Remarks lid tool 3 feet

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-15-69 Test Ticket No. 13377  
 Recorder No. 3354 Capacity 4150 Location 3156 Ft.  
 Clock No. 9726 Elevation 2502 Derrick Floor Well Temperature 106 °F

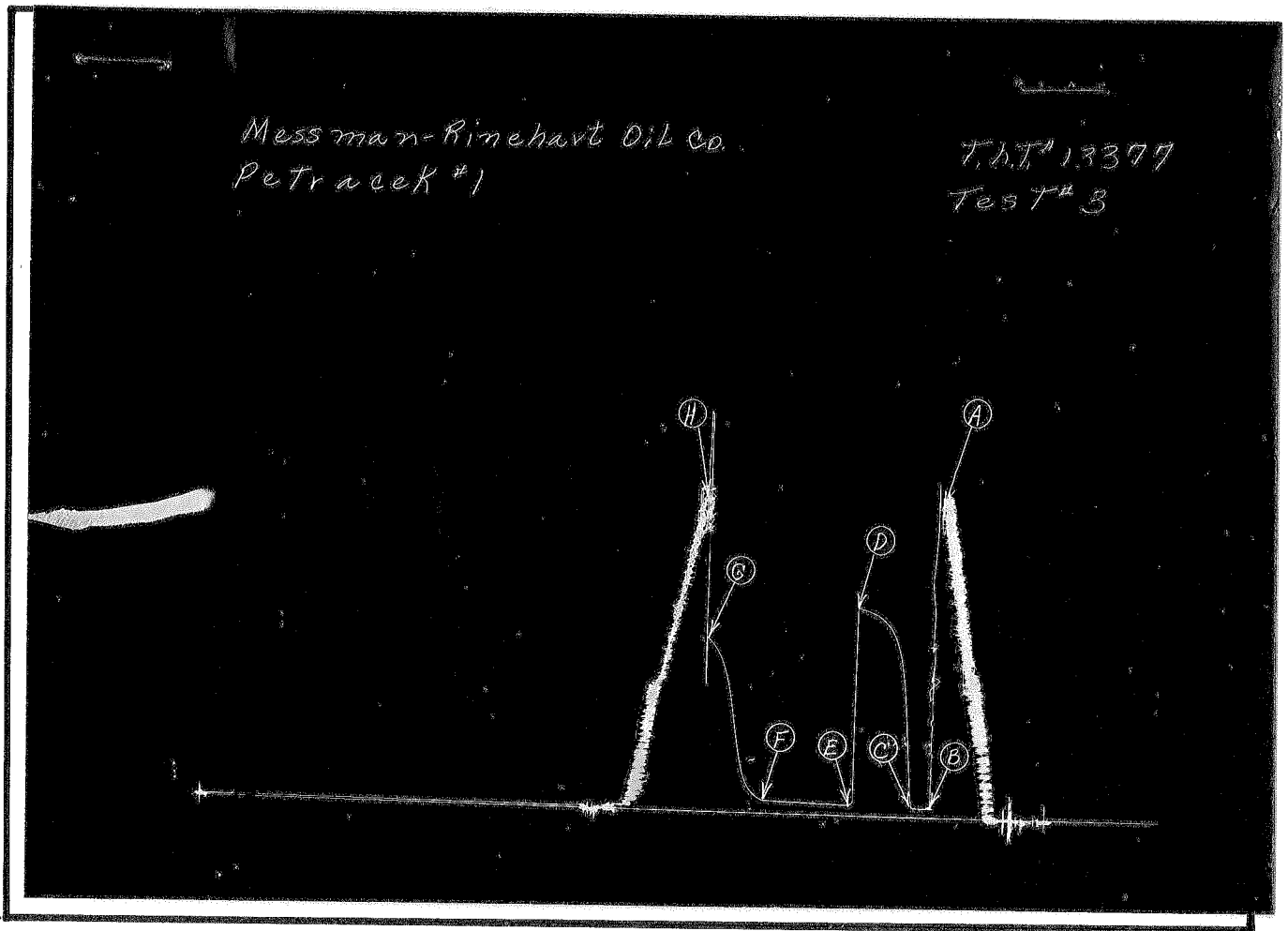
| Point                          | Pressure           |                            | Time Given      | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1709</u> P.S.I. | Open Tool                  | <u>12:05A</u> M |                 |
| B First Initial Flow Pressure  | <u>48</u> P.S.I.   | First Flow Pressure        | <u>10</u> Mins. | <u>11</u> Mins. |
| C First Final Flow Pressure    | <u>51</u> P.S.I.   | Initial Closed-in Pressure | <u>45</u> Mins. | <u>43</u> Mins. |
| D Initial Closed-in Pressure   | <u>1137</u> P.S.I. | Second Flow Pressure       | <u>60</u> Mins. | <u>58</u> Mins. |
| E Second Initial Flow Pressure | <u>59</u> P.S.I.   | Final Closed-in Pressure   | <u>45</u> Mins. | <u>45</u> Mins. |
| F Second Final Flow Pressure   | <u>71</u> P.S.I.   |                            |                 |                 |
| G Final Closed-in Pressure     | <u>964</u> P.S.I.  |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>1705</u> P.S.I. |                            |                 |                 |

## PRESSURE BREAKDOWN

| First Flow Pressure         |           | Initial Shut-In             |             | Second Flow Pressure        |           | Final Shut-In             |            |
|-----------------------------|-----------|-----------------------------|-------------|-----------------------------|-----------|---------------------------|------------|
| Breakdown: <u>2</u> Inc.    |           | Breakdown: <u>14</u> Inc.   |             | Breakdown: <u>11</u> Inc.   |           | Breakdown: <u>15</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>1</u> Min. |           | final inc. of <u>1</u> Min. |             | final inc. of <u>3</u> Min. |           | final inc. of _____ Min.  |            |
| Point Mins.                 | Press.    | Point Minutes               | Press.      | Point Minutes               | Press.    | Point Minutes             | Press.     |
| P 1 <u>0</u>                | <u>48</u> | <u>0</u>                    | <u>51</u>   | <u>0</u>                    | <u>59</u> | <u>0</u>                  | <u>71</u>  |
| P 2 <u>5</u>                | <u>50</u> | <u>3</u>                    | <u>234</u>  | <u>5</u>                    | <u>59</u> | <u>3</u>                  | <u>76</u>  |
| P 3 <u>10</u>               | <u>51</u> | <u>6</u>                    | <u>571</u>  | <u>10</u>                   | <u>61</u> | <u>6</u>                  | <u>84</u>  |
| P 4 <u>11</u>               | <u>51</u> | <u>9</u>                    | <u>837</u>  | <u>15</u>                   | <u>61</u> | <u>9</u>                  | <u>101</u> |
| P 5 _____                   |           | <u>12</u>                   | <u>953</u>  | <u>20</u>                   | <u>63</u> | <u>12</u>                 | <u>131</u> |
| P 6 _____                   |           | <u>15</u>                   | <u>1008</u> | <u>25</u>                   | <u>64</u> | <u>15</u>                 | <u>173</u> |
| P 7 _____                   |           | <u>18</u>                   | <u>1040</u> | <u>30</u>                   | <u>65</u> | <u>18</u>                 | <u>246</u> |
| P 8 _____                   |           | <u>21</u>                   | <u>1065</u> | <u>35</u>                   | <u>65</u> | <u>21</u>                 | <u>369</u> |
| P 9 _____                   |           | <u>24</u>                   | <u>1084</u> | <u>40</u>                   | <u>67</u> | <u>24</u>                 | <u>567</u> |
| P10 _____                   |           | <u>27</u>                   | <u>1101</u> | <u>45</u>                   | <u>67</u> | <u>27</u>                 | <u>719</u> |
| P11 _____                   |           | <u>30</u>                   | <u>1109</u> | <u>50</u>                   | <u>69</u> | <u>30</u>                 | <u>793</u> |
| P12 _____                   |           | <u>33</u>                   | <u>1118</u> | <u>55</u>                   | <u>70</u> | <u>33</u>                 | <u>851</u> |
| P13 _____                   |           | <u>36</u>                   | <u>1126</u> | <u>58</u>                   | <u>71</u> | <u>36</u>                 | <u>898</u> |
| P14 _____                   |           | <u>39</u>                   | <u>1132</u> |                             |           | <u>39</u>                 | <u>928</u> |
| P15 _____                   |           | <u>42</u>                   | <u>1135</u> |                             |           | <u>42</u>                 | <u>949</u> |
| P16 _____                   |           | <u>43</u>                   | <u>1137</u> |                             |           | <u>45</u>                 | <u>964</u> |
| P17 _____                   |           |                             |             |                             |           |                           |            |
| P18 _____                   |           |                             |             |                             |           |                           |            |
| P19 _____                   |           |                             |             |                             |           |                           |            |
| P20 _____                   |           |                             |             |                             |           |                           |            |

Messman-Rinehart Oil Co.  
Petracek #1

T.H.T. 13377  
Test #3



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |     |
|----------------------------------------|---------------|----------------|-----|
|                                        | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 1741          | 1709           | PSI |
| (B) First Initial Flow Pressure .....  | 52            | 48             | PSI |
| (C) First Final Flow Pressure .....    | 56            | 51             | PSI |
| (D) Initial Closed-in Pressure .....   | 1139          | 1137           | PSI |
| (E) Second Initial Flow Pressure ..... | 59            | 59             | PSI |
| (F) Second Final Flow Pressure .....   | 73            | 71             | PSI |
| (G) Final Closed-in Pressure .....     | 970           | 964            | PSI |
| (H) Final Hydrostatic Mud .....        | 1720          | 1705           | PSI |



Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Lease & Well No. Petracek # 1  
Elevation 2502 Derrick Floor Formation Howard Effective Pay. 6 Ft. Ticket No. 13378  
Date 9-15-69 Sec. 26 Twp. 4S Range 27W County Decatur State Kansas  
Test Approved by J. G. Klein Western Representative Kenneth Cheney  
Formation Test No. 4 O.K. ☒ Misrun Interval Tested From 3185' to 3196' Total Depth 3196'  
Size Main Hole 7 7/8 Rat Hole Conv. B.T. ☒ Damaged Yes ☒ No Conv. ☒ B.T. Damaged Yes ☒ No  
Top Packer Depth 3180 Ft. Size 6 3/4 Packer Depth 3185 Ft. Size 6 3/4  
Straddle Yes No ☒ Conv. B.T. Damaged Yes No

Packer Depth Ft. Size  
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" Ex hole Anchor Length 11 Ft. Size 5 1/2" OD

|                 |          |               |      |             |             |             |             |               |           |             |             |
|-----------------|----------|---------------|------|-------------|-------------|-------------|-------------|---------------|-----------|-------------|-------------|
| RECORDERS       | Depth    | <u>3189</u>   | Ft.  | Clock No.   | <u>9726</u> | Depth       | <u>3191</u> | Ft.           | Clock No. | <u>9103</u> |             |
|                 | Top Make | <u>Kuster</u> | Cap. | <u>4150</u> | No.         | <u>3354</u> | Bottom Make | <u>Kuster</u> | Cap.      | <u>4150</u> |             |
|                 |          |               |      |             |             |             |             |               |           | No.         | <u>1051</u> |
|                 |          |               |      |             |             |             |             |               |           |             |             |
| Below Straddle: | Depth    |               |      | Clock No.   |             | Depth       |             |               | Clock No. |             |             |
|                 | Top Make |               | Cap. |             | No.         | Bottom Make |             | Cap.          |           | No.         |             |
|                 |          |               |      |             |             |             |             |               |           |             |             |

Time Set Packer 11:13A M

|                           |              |       |               |    |     |           |               |             |               |           |        |
|---------------------------|--------------|-------|---------------|----|-----|-----------|---------------|-------------|---------------|-----------|--------|
| Tool Open I.F.P. From     | <u>11:15</u> | M. to | <u>11:25A</u> | M. | Hr. | <u>10</u> | Min. From (B) | <u>27</u>   | P.S.I. To (C) | <u>37</u> | P.S.I. |
| Tool Closed I.C.I.P. From | <u>11:25</u> | M. to | <u>12:10A</u> | M. | Hr. | <u>45</u> | Min. (D)      | <u>1246</u> |               |           | P.S.I. |
| Tool Open F.F.P. From     | <u>12:10</u> | M. to | <u>1:10A</u>  | M. | Hr. | <u>60</u> | Min. From (E) | <u>57</u>   | P.S.I. To (F) | <u>83</u> | P.S.I. |
| Tool Closed F.C.I.P. From | <u>1:10</u>  | M. to | <u>1:55A</u>  | M. | Hr. | <u>45</u> | Min. (G)      | <u>1164</u> |               |           | P.S.I. |

Initial Hydrostatic Pressure (A) 1697 P.S.I. Final Hydrostatic Pressure (H) 1681 P.S.I.

|             |            |            |     |                    |      |                     |
|-------------|------------|------------|-----|--------------------|------|---------------------|
| SURFACE     | Size Choke | <u>3/8</u> | In. | Max. Press. P.S.I. | Time | Description of Flow |
| INFORMATION |            |            |     |                    | M.   |                     |
|             |            |            |     |                    | M.   |                     |
|             |            |            |     |                    | M.   |                     |

BLOW Good thru out test Bottom Choke Size 3/4 In.  
Did Well Flow Yes ☒ No Recovery Total Ft. 220 feet gas in pipe-- 60 feet mud and oil-- 20 feet very heavy oil cut mud-- 40 feet muddy oil, --80 feet oil cut muddy salt water

Reversed Out Yes ☒ No Mud Type starch Viscosity 40 Weight 9.6 Water Loss 11.3 cc. Maximum Temp 104 °F  
Type Circ. Sub plug Did Tool Plug? no Jars: Size Make Ser. No.  
EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?  
Length Drill Pipe 1837 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.  
I. D. Drill Collars in. Length D.S.T. Tool 31 ft.

Remarks

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-15-69 Test Ticket No. 13378  
 Recorder No. 3354 Capacity 4150 Location 3189 Ft.  
 Clock No. 9726 Elevation 2502 Derrick Floor Well Temperature 104 °F

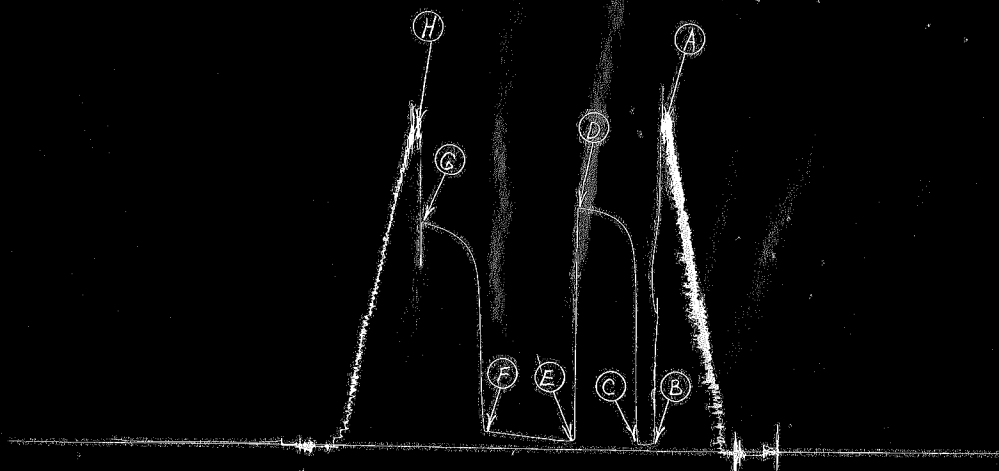
| Point                          | Pressure           | Time Given      | Time Computed   |
|--------------------------------|--------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1697</u> P.S.I. | <u>11:15A</u> M |                 |
| B First Initial Flow Pressure  | <u>37</u> P.S.I.   | <u>10</u> Mins. | <u>10</u> Mins. |
| C First Final Flow Pressure    | <u>37</u> P.S.I.   | <u>45</u> Mins. | <u>44</u> Mins. |
| D Initial Closed-in Pressure   | <u>1246</u> P.S.I. | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>57</u> P.S.I.   | <u>45</u> Mins. | <u>45</u> Mins. |
| F Second Final Flow Pressure   | <u>83</u> P.S.I.   |                 |                 |
| G Final Closed-in Pressure     | <u>1164</u> P.S.I. |                 |                 |
| H Final Hydrostatic Mud        | <u>1681</u> P.S.I. |                 |                 |

### PRESSURE BREAKDOWN

| First Flow Pressure            |           | Initial Shut-In             |             | Second Flow Pressure           |           | Final Shut-In                |             |
|--------------------------------|-----------|-----------------------------|-------------|--------------------------------|-----------|------------------------------|-------------|
| Breakdown: <u>2</u> Inc.       |           | Breakdown: <u>14</u> Inc.   |             | Breakdown: <u>12</u> Inc.      |           | Breakdown: <u>15</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>    </u> Min. |           | final inc. of <u>2</u> Min. |             | final inc. of <u>    </u> Min. |           | final inc. of <u>15</u> Min. |             |
| Point Mins.                    | Press.    | Point Minutes               | Press.      | Point Minutes                  | Press.    | Point Minutes                | Press.      |
| P 1 <u>0</u>                   | <u>37</u> | <u>0</u>                    | <u>37</u>   | <u>0</u>                       | <u>57</u> | <u>0</u>                     | <u>83</u>   |
| P 2 <u>5</u>                   | <u>37</u> | <u>3</u>                    | <u>559</u>  | <u>5</u>                       | <u>59</u> | <u>3</u>                     | <u>474</u>  |
| P 3 <u>10</u>                  | <u>37</u> | <u>6</u>                    | <u>1033</u> | <u>10</u>                      | <u>60</u> | <u>6</u>                     | <u>837</u>  |
| P 4 <u>    </u>                |           | <u>9</u>                    | <u>1107</u> | <u>15</u>                      | <u>61</u> | <u>9</u>                     | <u>968</u>  |
| P 5 <u>    </u>                |           | <u>12</u>                   | <u>1149</u> | <u>20</u>                      | <u>63</u> | <u>12</u>                    | <u>1019</u> |
| P 6 <u>    </u>                |           | <u>15</u>                   | <u>1176</u> | <u>25</u>                      | <u>65</u> | <u>15</u>                    | <u>1050</u> |
| P 7 <u>    </u>                |           | <u>18</u>                   | <u>1189</u> | <u>30</u>                      | <u>67</u> | <u>18</u>                    | <u>1075</u> |
| P 8 <u>    </u>                |           | <u>21</u>                   | <u>1202</u> | <u>35</u>                      | <u>68</u> | <u>21</u>                    | <u>1092</u> |
| P 9 <u>    </u>                |           | <u>24</u>                   | <u>1213</u> | <u>40</u>                      | <u>70</u> | <u>24</u>                    | <u>1105</u> |
| P10 <u>    </u>                |           | <u>27</u>                   | <u>1221</u> | <u>45</u>                      | <u>73</u> | <u>27</u>                    | <u>1121</u> |
| P11 <u>    </u>                |           | <u>30</u>                   | <u>1227</u> | <u>50</u>                      | <u>76</u> | <u>30</u>                    | <u>1129</u> |
| P12 <u>    </u>                |           | <u>33</u>                   | <u>1232</u> | <u>55</u>                      | <u>79</u> | <u>33</u>                    | <u>1137</u> |
| P13 <u>    </u>                |           | <u>36</u>                   | <u>1236</u> | <u>60</u>                      | <u>83</u> | <u>36</u>                    | <u>1143</u> |
| P14 <u>    </u>                |           | <u>39</u>                   | <u>1240</u> |                                |           | <u>39</u>                    | <u>1151</u> |
| P15 <u>    </u>                |           | <u>42</u>                   | <u>1244</u> |                                |           | <u>42</u>                    | <u>1158</u> |
| P16 <u>    </u>                |           | <u>44</u>                   | <u>1246</u> |                                |           | <u>45</u>                    | <u>1164</u> |
| P17 <u>    </u>                |           |                             |             |                                |           |                              |             |
| P18 <u>    </u>                |           |                             |             |                                |           |                              |             |
| P19 <u>    </u>                |           |                             |             |                                |           |                              |             |
| P20 <u>    </u>                |           |                             |             |                                |           |                              |             |

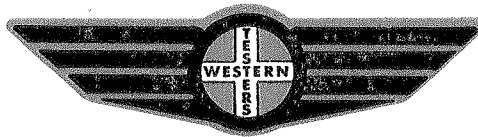
Messman-Rinehart Oil Co.  
Petracek #1

T.KI# 13378  
Test# 4



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |
|----------------------------------------|---------------|----------------|
|                                        | Field Reading | Office Reading |
| (A) Initial Hydrostatic Mud .....      | 1720          | 1697           |
| (B) First Initial Flow Pressure .....  | 42            | 37             |
| (C) First Final Flow Pressure .....    | 48            | 37             |
| (D) Initial Closed-in Pressure .....   | 1244          | 1246           |
| (E) Second Initial Flow Pressure ..... | 63            | 57             |
| (F) Second Final Flow Pressure .....   | 84            | 83             |
| (G) Final Closed-in Pressure .....     | 1160          | 1164           |
| (H) Final Hydrostatic Mud .....        | 1709          | 1681           |



Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Petracek 1  
Elevation 2502 Derrick Floor Formation Lansing Effective Pay \_\_\_\_\_ Ft. Ticket No. 13379  
Date 9-16-69 Sec. 26 Twp. 4S Range 27W County Decatur State Kansas  
Test Approved by J. G. Klein Western Representative Kenneth Cheny  
Formation Test No. 5 O.K. X Misrun \_\_\_\_\_ Interval Tested From 3421' to 3462' Total Depth 3462'  
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 3416 Ft. Size 6 3/4" Packer Depth 3421 Ft. Size 6 3/4"  
Straddle Yes \_\_\_\_\_ No X Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged Yes \_\_\_\_\_ No \_\_\_\_\_  
Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" ExHole Anchor Length 41 Ft. Size 5 1/2" O.D.  
RECORDERS Depth 3454 Ft. Clock No. 9726 Depth 3456 Ft. Clock No. 9103  
Top Make Kuster Cap. 4200 No. 3354 ~~Outside~~ Inside Bottom Make Kuster Cap. 4150 No. 1051 ~~Inside~~ Outside  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Inside  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Outside  
Time Set Packer 4:33 P. M.  
Tool Open I.F.P. From 4:35 M. to 4:45P. M. Hr. 10 Min. From (B) 37 P.S.I. To (C) 39 P.S.I.  
Tool Closed I.C.I.P. From 4:45 M. to 5:30P. M. Hr. 45 Min. (D) 80 P.S.I.  
Tool Open F.F.P. From 5:30 M. to 6:10P. M. Hr. 40 Min. From (E) 48 P.S.I. To (F) 50 P.S.I.  
Tool Closed F.C.I.P. From 6:10 M. to 6:55P. M. Hr. 45 Min. (G) 52 P.S.I.  
Initial Hydrostatic Pressure (A) 1951 P.S.I. Final Hydrostatic Pressure (H) 1948 P.S.I.  
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
BLOW Very weak 10 minutes Bottom Choke Size 3/4 In.  
Did Well Flow Yes X No \_\_\_\_\_ Recovery Total Ft. 10 feet mud  
Reversed Out Yes X No \_\_\_\_\_ Mud Type Starch Viscosity 43 Weight 9.9 Water Loss 6.1 cc. Maximum Temp. 104 °F  
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 2073 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 61 ft.  
Remarks \_\_\_\_\_

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-16-69 Recorder No. 3354 Capacity 4200 Test Ticket No. 13379  
 Clock No. 9726 Elevation 2502 Derrick Floor Location 3454 Ft.  
 Well Temperature 104 °F

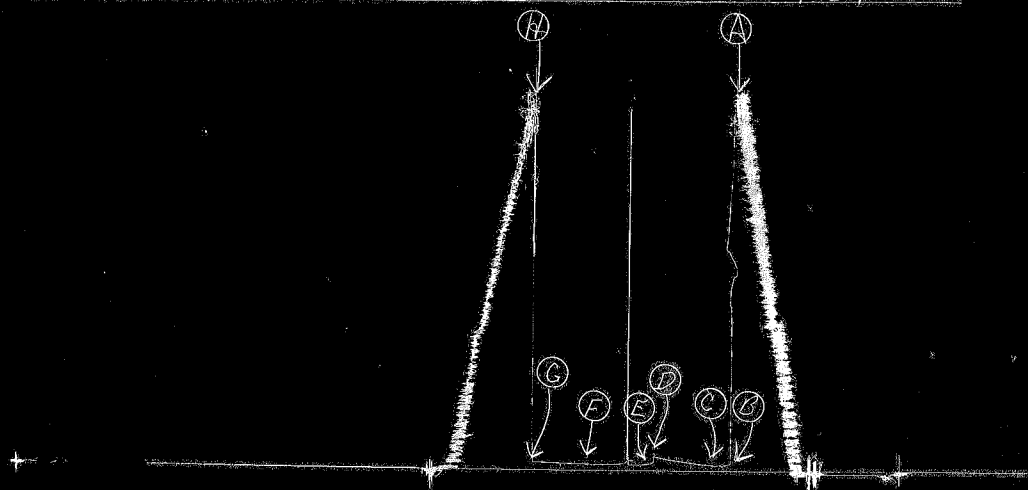
| Point                          | Pressure           |                            | Time Given<br>4:33 P. | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1951</u> P.S.I. | Open Tool                  |                       |                 |
| B First Initial Flow Pressure  | <u>37</u> P.S.I.   | First Flow Pressure        | <u>10</u> Mins.       | <u>10</u> Mins. |
| C First Final Flow Pressure    | <u>39</u> P.S.I.   | Initial Closed-in Pressure | <u>45</u> Mins.       | <u>45</u> Mins. |
| D Initial Closed-in Pressure   | <u>80</u> P.S.I.   | Second Flow Pressure       | <u>40</u> Mins.       | <u>40</u> Mins. |
| E Second Initial Flow Pressure | <u>48</u> P.S.I.   | Final Closed-in Pressure   | <u>45</u> Mins.       | <u>45</u> Mins. |
| F Second Final Flow Pressure   | <u>50</u> P.S.I.   |                            |                       |                 |
| G Final Closed-in Pressure     | <u>52</u> P.S.I.   |                            |                       |                 |
| H Final Hydrostatic Mud        | <u>1948</u> P.S.I. |                            |                       |                 |

## PRESSURE BREAKDOWN

| First Flow Pressure      |           | Initial Shut-In           |           | Second Flow Pressure     |           | Final Shut-In             |           |
|--------------------------|-----------|---------------------------|-----------|--------------------------|-----------|---------------------------|-----------|
| Breakdown: <u>2</u> Inc. |           | Breakdown: <u>15</u> Inc. |           | Breakdown: <u>8</u> Inc. |           | Breakdown: <u>15</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 _____ Min. |           | final inc. of _____ Min.  |           | final inc. of _____ Min. |           | final inc. of _____ Min.  |           |
| Point<br>Mins.           | Press.    | Point<br>Minutes          | Press.    | Point<br>Minutes         | Press.    | Point<br>Minutes          | Press.    |
| P 1 <u>0</u>             | <u>37</u> | <u>0</u>                  | <u>39</u> | <u>0</u>                 | <u>48</u> | <u>0</u>                  | <u>50</u> |
| P 2 <u>5</u>             | <u>38</u> | <u>3</u>                  | <u>40</u> | <u>5</u>                 | <u>48</u> | <u>3</u>                  | <u>50</u> |
| P 3 <u>10</u>            | <u>39</u> | <u>6</u>                  | <u>41</u> | <u>10</u>                | <u>48</u> | <u>6</u>                  | <u>50</u> |
| P 4 _____                |           | <u>9</u>                  | <u>42</u> | <u>15</u>                | <u>48</u> | <u>9</u>                  | <u>50</u> |
| P 5 _____                |           | <u>12</u>                 | <u>44</u> | <u>20</u>                | <u>50</u> | <u>12</u>                 | <u>50</u> |
| P 6 _____                |           | <u>15</u>                 | <u>46</u> | <u>25</u>                | <u>50</u> | <u>15</u>                 | <u>50</u> |
| P 7 _____                |           | <u>18</u>                 | <u>49</u> | <u>30</u>                | <u>50</u> | <u>18</u>                 | <u>50</u> |
| P 8 _____                |           | <u>21</u>                 | <u>52</u> | <u>35</u>                | <u>50</u> | <u>21</u>                 | <u>50</u> |
| P 9 _____                |           | <u>24</u>                 | <u>53</u> | <u>40</u>                | <u>50</u> | <u>24</u>                 | <u>50</u> |
| P10 _____                |           | <u>27</u>                 | <u>54</u> |                          |           | <u>27</u>                 | <u>50</u> |
| P11 _____                |           | <u>30</u>                 | <u>55</u> |                          |           | <u>30</u>                 | <u>50</u> |
| P12 _____                |           | <u>33</u>                 | <u>59</u> |                          |           | <u>33</u>                 | <u>51</u> |
| P13 _____                |           | <u>36</u>                 | <u>63</u> |                          |           | <u>36</u>                 | <u>52</u> |
| P14 _____                |           | <u>39</u>                 | <u>69</u> |                          |           | <u>39</u>                 | <u>52</u> |
| P15 _____                |           | <u>42</u>                 | <u>74</u> |                          |           | <u>42</u>                 | <u>52</u> |
| P16 _____                |           | <u>45</u>                 | <u>80</u> |                          |           | <u>45</u>                 | <u>52</u> |
| P17 _____                |           |                           |           |                          |           |                           |           |
| P18 _____                |           |                           |           |                          |           |                           |           |
| P19 _____                |           |                           |           |                          |           |                           |           |
| P20 _____                |           |                           |           |                          |           |                           |           |

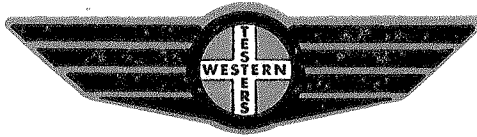
Messman-Rinchert Oil Company  
 Petracek #1

TKT-13379  
 Test #5



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |     |
|----------------------------------------|---------------|----------------|-----|
|                                        | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 1932          | 1951           | PSI |
| (B) First Initial Flow Pressure .....  | 44            | 37             | PSI |
| (C) First Final Flow Pressure .....    | 48            | 39             | PSI |
| (D) Initial Closed-in Pressure .....   | 84            | 80             | PSI |
| (E) Second Initial Flow Pressure ..... | 52            | 48             | PSI |
| (F) Second Final Flow Pressure .....   | 52            | 50             | PSI |
| (G) Final Closed-in Pressure .....     | 59            | 52             | PSI |
| (H) Final Hydrostatic Mud .....        | 1953          | 1948           | PSI |



Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Petracek 1  
Elevation 2502 Derrick Floor Formation Lansing Effective Pay \_\_\_\_\_ Ft. Ticket No. 13380  
Date 9-17-69 Sec. 26 Twp. 4S Range 27W County Decatur State Kansas  
Test Approved by J. G. Klein Western Representative Kenneth Cheney  
Formation Test No. 6 O.K. ☒ Misrun \_\_\_\_\_ Interval Tested From 3498' to 3512' Total Depth 3512'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. ☒ Damaged Yes ☒ No Conv. ☒ B.T. \_\_\_\_\_ Damaged Yes ☒ No  
Top Packer Depth 3493 Ft. Size 6 3/4" Packer Depth 3498 Ft. Size 6 3/4"  
Straddle \_\_\_\_\_ Yes \_\_\_\_\_ No ☒ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No

Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" Exhole Anchor Length 14 Ft. Size 5 1/2" O.D.  
RECORDERS Depth 3505 Ft. Clock No. 9720 Depth 3507 Ft. Clock No. 9103  
Top Make Kuster Cap. 4200 No. 3354 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Kuster Cap. 4150 No. 1051 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_

Time Set Packer 8:34 A.M.  
Tool Open I.F.P. From 8:35 M. to 8:45A.M. Hr. 10 Min. From (B) 37 P.S.I. To (C) 46 P.S.I.  
Tool Closed I.C.I.P. From 8:45 M. to 9:30A.M. Hr. 45 Min. (D) 1118 P.S.I.  
Tool Open F.F.P. From 9:30 M. to 10:30A.M. 1 Hr. Min. From (E) 71 P.S.I. To (F) 166 P.S.I.  
Tool Closed F.C.I.P. From 10:30M. to 11:15M. Hr. 45 Min. (G) 1018 P.S.I.  
Initial Hydrostatic Pressure (A) 2000 P.S.I. Final Hydrostatic Pressure (H) 1971 P.S.I.

| SURFACE     | Size Choke | In. | Max. Press. P.S.I. | Time | Description of Flow |
|-------------|------------|-----|--------------------|------|---------------------|
| INFORMATION |            |     |                    | M.   |                     |
|             |            |     |                    | M.   |                     |
|             |            |     |                    | M.   |                     |

BLOW Good Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Recovery Total Ft. 300 feet salty muddy water

Reversed Out \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Mud Type Starch Viscosity 43 Weight 9.9 Water Loss 6.1 cc. Maximum Temp. 104 °F  
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 2150 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 34 ft.

Remarks

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-17-69 Test Ticket No. 13380  
 Recorder No. 3354 Capacity 4200 Location 3505 Ft.  
 Clock No. 9726 Elevation 2502 Derrick Floor Well Temperature 104 °F

| Point                          | Pressure           |                            | Time Given      | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>2000</u> P.S.I. | Open Tool                  | <u>8:34A.</u> M |                 |
| B First Initial Flow Pressure  | <u>37</u> P.S.I.   | First Flow Pressure        | <u>10</u> Mins. | <u>10</u> Mins. |
| C First Final Flow Pressure    | <u>46</u> P.S.I.   | Initial Closed-in Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| D Initial Closed-in Pressure   | <u>1118</u> P.S.I. | Second Flow Pressure       | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>71</u> P.S.I.   | Final Closed-in Pressure   | <u>45</u> Mins. | <u>45</u> Mins. |
| F Second Final Flow Pressure   | <u>166</u> P.S.I.  |                            |                 |                 |
| G Final Closed-in Pressure     | <u>1018</u> P.S.I. |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>1971</u> P.S.I. |                            |                 |                 |

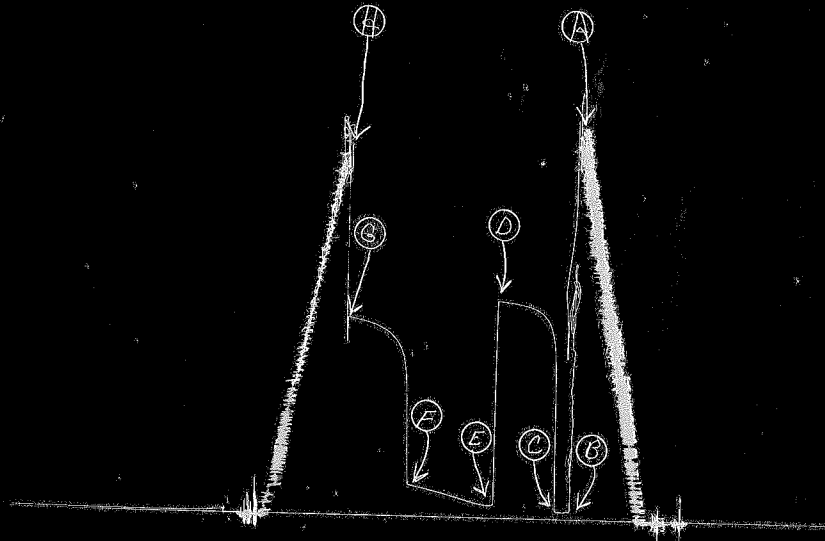
### PRESSURE BREAKDOWN

| First Flow Pressure      |           | Initial Shut-In           |             | Second Flow Pressure      |            | Final Shut-In             |             |
|--------------------------|-----------|---------------------------|-------------|---------------------------|------------|---------------------------|-------------|
| Breakdown: <u>2</u> Inc. |           | Breakdown: <u>15</u> Inc. |             | Breakdown: <u>12</u> Inc. |            | Breakdown: <u>15</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 _____ Min. |           | final inc. of _____ Min.  |             | final inc. of _____ Min.  |            | final inc. of _____ Min.  |             |
| Point Mins.              | Press.    | Point Minutes             | Press.      | Point Minutes             | Press.     | Point Minutes             | Press.      |
| P 1 <u>0</u>             | <u>37</u> | <u>0</u>                  | <u>46</u>   | <u>0</u>                  | <u>71</u>  | <u>0</u>                  | <u>166</u>  |
| P 2 <u>5</u>             | <u>40</u> | <u>3</u>                  | <u>934</u>  | <u>5</u>                  | <u>73</u>  | <u>3</u>                  | <u>664</u>  |
| P 3 <u>10</u>            | <u>46</u> | <u>6</u>                  | <u>983</u>  | <u>10</u>                 | <u>82</u>  | <u>6</u>                  | <u>822</u>  |
| P 4 _____                |           | <u>9</u>                  | <u>1018</u> | <u>15</u>                 | <u>86</u>  | <u>9</u>                  | <u>879</u>  |
| P 5 _____                |           | <u>12</u>                 | <u>1046</u> | <u>20</u>                 | <u>92</u>  | <u>12</u>                 | <u>911</u>  |
| P 6 _____                |           | <u>15</u>                 | <u>1067</u> | <u>25</u>                 | <u>105</u> | <u>15</u>                 | <u>936</u>  |
| P 7 _____                |           | <u>18</u>                 | <u>1080</u> | <u>30</u>                 | <u>112</u> | <u>18</u>                 | <u>953</u>  |
| P 8 _____                |           | <u>21</u>                 | <u>1082</u> | <u>35</u>                 | <u>122</u> | <u>21</u>                 | <u>966</u>  |
| P 9 _____                |           | <u>24</u>                 | <u>1094</u> | <u>40</u>                 | <u>132</u> | <u>24</u>                 | <u>978</u>  |
| P10 _____                |           | <u>27</u>                 | <u>1099</u> | <u>45</u>                 | <u>141</u> | <u>27</u>                 | <u>985</u>  |
| P11 _____                |           | <u>30</u>                 | <u>1105</u> | <u>50</u>                 | <u>149</u> | <u>30</u>                 | <u>993</u>  |
| P12 _____                |           | <u>33</u>                 | <u>1109</u> | <u>55</u>                 | <u>158</u> | <u>33</u>                 | <u>1000</u> |
| P13 _____                |           | <u>36</u>                 | <u>1111</u> | <u>60</u>                 | <u>166</u> | <u>36</u>                 | <u>1006</u> |
| P14 _____                |           | <u>39</u>                 | <u>1116</u> |                           |            | <u>39</u>                 | <u>1011</u> |
| P15 _____                |           | <u>42</u>                 | <u>1117</u> |                           |            | <u>42</u>                 | <u>1014</u> |
| P16 _____                |           | <u>45</u>                 | <u>1118</u> |                           |            | <u>45</u>                 | <u>1018</u> |
| P17 _____                |           |                           |             |                           |            |                           |             |
| P18 _____                |           |                           |             |                           |            |                           |             |
| P19 _____                |           |                           |             |                           |            |                           |             |
| P20 _____                |           |                           |             |                           |            |                           |             |

Messman-Rinehart Oil Company  
 Petracek #1

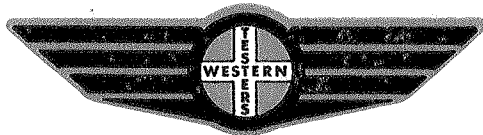
TKT-13380

Test #6



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |     |
|----------------------------------------|---------------|----------------|-----|
|                                        | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 2006          | 2000           | PSI |
| (B) First Initial Flow Pressure .....  | 48            | 37             | PSI |
| (C) First Final Flow Pressure .....    | 52            | 46             | PSI |
| (D) Initial Closed-in Pressure .....   | 1118          | 1118           | PSI |
| (E) Second Initial Flow Pressure ..... | 84            | 71             | PSI |
| (F) Second Final Flow Pressure .....   | 168           | 166            | PSI |
| (G) Final Closed-in Pressure .....     | 1033          | 1018           | PSI |
| (H) Final Hydrostatic Mud .....        | 1974          | 1971           | PSI |



Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Petracek 1  
Elevation 2502 Derrick Floor Formation Lansing Effective Pay \_\_\_\_\_ Ft. Ticket No. 13381  
Date 9-17-69 Sec. 26 Twp. 4S Range 27W County Decatur State Kansas  
Test Approved by J. G. Klein Western Representative Kenneth Cheney  
Formation Test No. 7 O.K. ☒ Misrun \_\_\_\_\_ Interval Tested From 3468' to 3498' Total Depth 3540'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. ☒ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes ☒ No Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No  
Packer Depth 3468 Ft. Size 6 3/4" Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Straddle \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. ☒ Damaged \_\_\_\_\_ Yes ☒ No  
Packer Depth 3498 Ft. Size 6 3/4"  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" Exhole Anchor Length 30 Ft. Size 5 1/2" O.D.  
RECORDERS Depth 3488 Ft. Clock No. 9726 Depth 3490 Ft. Clock No. 9103  
Top Make Kuster Cap. 4200 No. 3354 ~~Inside~~ Outside Bottom Make Kuster Cap. 4150 No. 1051 ~~Inside~~ Outside  
Below Straddle: Depth 3500 Clock No. 153 ~~Inside~~ Outside Depth 3540 Ft. Clock No. 108 ~~Inside~~ Outside  
Top Make WTC Cap. 4000 No. 9 ~~Inside~~ Outside Bottom Make WTC Cap. 4000 No. 10 ~~Inside~~ Outside  
Time Set Packer 7:34 P. M.  
Tool Open I.F.P. From 7:35 M. to 7:45P. M. Hr. 10 Min. From (B) 27 P.S.I. To (C) 27 P.S.I.  
Tool Closed I.C.I.P. From 7:45 M. to 8:30P. M. Hr. 45 Min. (D) 35 P.S.I.  
Tool Open F.F.P. From 8:30 M. to 9:10P. M. Hr. 40 Min. From (E) 31 P.S.I. To (F) 31 P.S.I.  
Tool Closed F.C.I.P. From 9:10 M. to 9:55P. M. Hr. 45 Min. (G) 31 P.S.I.  
Initial Hydrostatic Pressure (A) 1889 P.S.I. Final Hydrostatic Pressure (H) 1881 P.S.I.  
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
BLOW Weak for 10 minutes Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Recovery Total Ft. 20 feet mud  
Reversed Out \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Mud Type Starch Viscosity 43 Weight 9.9 Water Loss 5.4 cc. Maximum Temp. 106 °F  
Type Circ. Sub. Plug Did Tool Plug? \_\_\_\_\_ Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 2115 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 87 ft.  
Remarks Flush tool after 20 minutes

# WESTERN TESTING CO., INC. Pressure Data

Date 9-17-69 Test Ticket No. 13381  
Recorder No. 3354 Capacity 4200 Location 3488 Ft.  
Clock No. 9726 Elevation 2502 Derrick Floor Well Temperature 106 °F

| Point                          | Pressure           |                            | Time Given        | Time Computed   |
|--------------------------------|--------------------|----------------------------|-------------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1889</u> P.S.I. | Open Tool                  | <u>7:34</u> P. M. |                 |
| B First Initial Flow Pressure  | <u>27</u> P.S.I.   | First Flow Pressure        | <u>10</u> Mins.   | <u>10</u> Mins. |
| C First Final Flow Pressure    | <u>27</u> P.S.I.   | Initial Closed-in Pressure | <u>45</u> Mins.   | <u>45</u> Mins. |
| D Initial Closed-in Pressure   | <u>35</u> P.S.I.   | Second Flow Pressure       | <u>40</u> Mins.   | <u>40</u> Mins. |
| E Second Initial Flow Pressure | <u>31</u> P.S.I.   | Final Closed-in Pressure   | <u>45</u> Mins.   | <u>45</u> Mins. |
| F Second Final Flow Pressure   | <u>31</u> P.S.I.   |                            |                   |                 |
| G Final Closed-in Pressure     | <u>31</u> P.S.I.   |                            |                   |                 |
| H Final Hydrostatic Mud        | <u>1881</u> P.S.I. |                            |                   |                 |

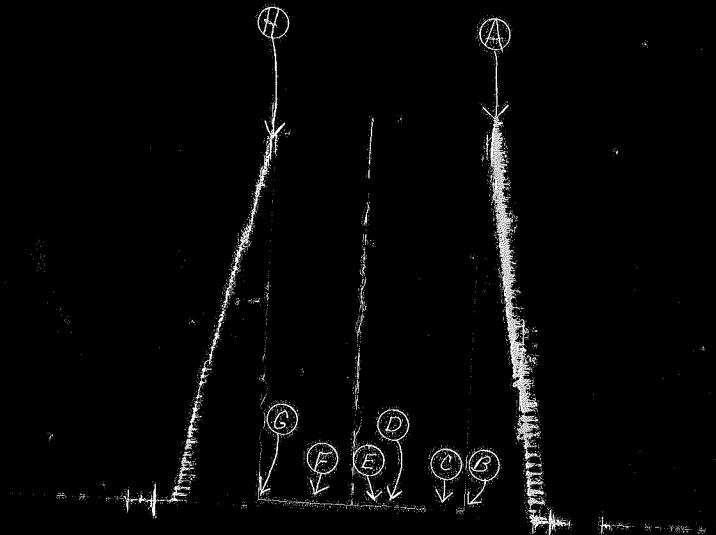
## PRESSURE BREAKDOWN

| First Flow Pressure      |           | Initial Shut-In           |           | Second Flow Pressure     |           | Final Shut-In             |           |
|--------------------------|-----------|---------------------------|-----------|--------------------------|-----------|---------------------------|-----------|
| Breakdown: <u>2</u> Inc. |           | Breakdown: <u>15</u> Inc. |           | Breakdown: <u>8</u> Inc. |           | Breakdown: <u>15</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 _____ Min. |           | final inc. of _____ Min.  |           | final inc. of _____ Min. |           | final inc. of _____ Min.  |           |
| Point<br>Mins.           | Press.    | Point<br>Minutes          | Press.    | Point<br>Minutes         | Press.    | Point<br>Minutes          | Press.    |
| P 1 <u>0</u>             | <u>27</u> | <u>0</u>                  | <u>27</u> | <u>0</u>                 | <u>31</u> | <u>0</u>                  | <u>31</u> |
| P 2 <u>5</u>             | <u>27</u> | <u>3</u>                  | <u>27</u> | <u>5</u>                 | <u>31</u> | <u>3</u>                  | <u>31</u> |
| P 3 <u>10</u>            | <u>27</u> | <u>6</u>                  | <u>27</u> | <u>10</u>                | <u>31</u> | <u>6</u>                  | <u>31</u> |
| P 4 _____                | _____     | <u>9</u>                  | <u>27</u> | <u>15</u>                | <u>31</u> | <u>9</u>                  | <u>31</u> |
| P 5 _____                | _____     | <u>12</u>                 | <u>27</u> | <u>20</u>                | <u>31</u> | <u>12</u>                 | <u>31</u> |
| P 6 _____                | _____     | <u>15</u>                 | <u>28</u> | <u>25</u>                | <u>31</u> | <u>15</u>                 | <u>31</u> |
| P 7 _____                | _____     | <u>18</u>                 | <u>28</u> | <u>30</u>                | <u>31</u> | <u>18</u>                 | <u>31</u> |
| P 8 _____                | _____     | <u>21</u>                 | <u>28</u> | <u>35</u>                | <u>31</u> | <u>21</u>                 | <u>31</u> |
| P 9 _____                | _____     | <u>24</u>                 | <u>28</u> | <u>40</u>                | <u>31</u> | <u>24</u>                 | <u>31</u> |
| P10 _____                | _____     | <u>27</u>                 | <u>30</u> | _____                    | _____     | <u>27</u>                 | <u>31</u> |
| P11 _____                | _____     | <u>30</u>                 | <u>31</u> | _____                    | _____     | <u>30</u>                 | <u>31</u> |
| P12 _____                | _____     | <u>33</u>                 | <u>31</u> | _____                    | _____     | <u>33</u>                 | <u>31</u> |
| P13 _____                | _____     | <u>36</u>                 | <u>33</u> | _____                    | _____     | <u>36</u>                 | <u>31</u> |
| P14 _____                | _____     | <u>39</u>                 | <u>34</u> | _____                    | _____     | <u>39</u>                 | <u>31</u> |
| P15 _____                | _____     | <u>42</u>                 | <u>35</u> | _____                    | _____     | <u>42</u>                 | <u>31</u> |
| P16 _____                | _____     | <u>45</u>                 | <u>35</u> | _____                    | _____     | <u>45</u>                 | <u>31</u> |
| P17 _____                | _____     | _____                     | _____     | _____                    | _____     | _____                     | _____     |
| P18 _____                | _____     | _____                     | _____     | _____                    | _____     | _____                     | _____     |
| P19 _____                | _____     | _____                     | _____     | _____                    | _____     | _____                     | _____     |
| P20 _____                | _____     | _____                     | _____     | _____                    | _____     | _____                     | _____     |

Messman-Rinehart Oil Company  
 Petracek #1

TKT-13381

Test #7



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |     |
|----------------------------------------|---------------|----------------|-----|
|                                        | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 1953          | 1889           | PSI |
| (B) First Initial Flow Pressure .....  | 27            | 27             | PSI |
| (C) First Final Flow Pressure .....    | 27            | 27             | PSI |
| (D) Initial Closed-in Pressure .....   | 31            | 35             | PSI |
| (E) Second Initial Flow Pressure ..... | 27            | 31             | PSI |
| (F) Second Final Flow Pressure .....   | 27            | 31             | PSI |
| (G) Final Closed-in Pressure .....     | 27            | 31             | PSI |
| (H) Final Hydrostatic Mud .....        | 1900          | 1881           | PSI |

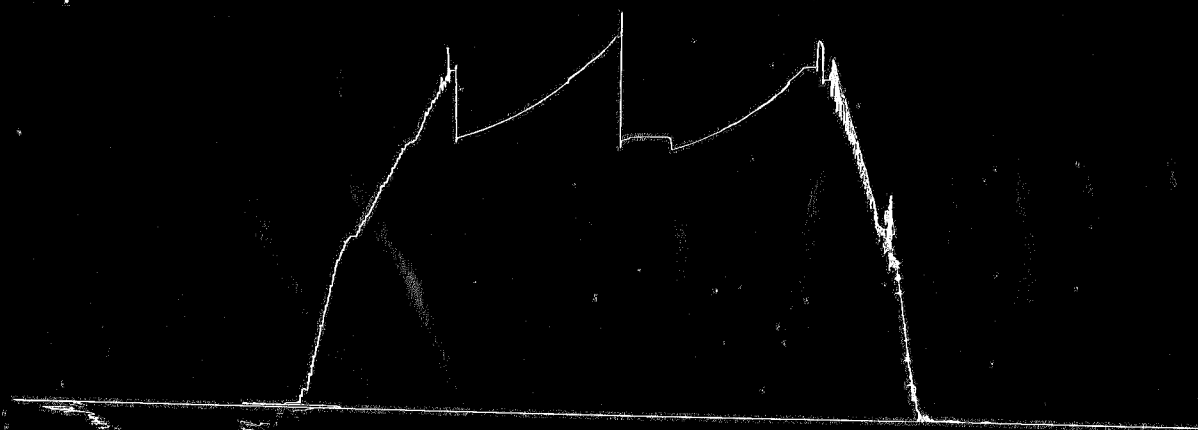
Messman-Rinchart Oil Company

TKT-13381

Petracek #1

Straddle

Test #7



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |     |
|----------------------------------------|---------------|----------------|-----|
|                                        | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 1953          | 1889           | PSI |
| (B) First Initial Flow Pressure .....  | 27            | 27             | PSI |
| (C) First Final Flow Pressure .....    | 27            | 27             | PSI |
| (D) Initial Closed-in Pressure .....   | 31            | 35             | PSI |
| (E) Second Initial Flow Pressure ..... | 27            | 31             | PSI |
| (F) Second Final Flow Pressure .....   | 27            | 31             | PSI |
| (G) Final Closed-in Pressure .....     | 27            | 31             | PSI |
| (H) Final Hydrostatic Mud .....        | 1900          | 1881           | PSI |



Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Petracek 1  
Elevation 2502 Derrick Floor Formation Kansas City Effective Pay \_\_\_\_\_ Ft. Ticket No. 13382  
Date 9-18-69 Sec. 26 Twp. 4S Range 27W County Decatur State Kansas  
Test Approved by J. G. Klein Western Representative Kenneth Cheney  
Formation Test No. 8 O.K. ☒ Misrun \_\_\_\_\_ Interval Tested From 3515' to 3630' Total Depth 3630'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. ☒ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes ☒ No Conv. \_\_\_\_\_ B.T. ☒ Damaged \_\_\_\_\_ Yes ☒ No  
Top Packer Depth 3510 Ft. Size 6 3/4" Packer Depth 3515 Ft. Size 6 3/4"  
Straddle \_\_\_\_\_ Yes \_\_\_\_\_ No ☒ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No

Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" Ex hole Anchor Length 115 Ft. Size 5 1/2" O.D.

|                       |                        |                  |                       |                           |                  |                       |
|-----------------------|------------------------|------------------|-----------------------|---------------------------|------------------|-----------------------|
| RECORDERS             | Depth <u>3623</u>      | Ft.              | Clock No. <u>9726</u> | Depth <u>3625</u>         | Ft.              | Clock No. <u>9103</u> |
|                       | Top Make <u>Kuster</u> | Cap. <u>4200</u> | No. <u>3354</u>       | Bottom Make <u>Kuster</u> | Cap. <u>4150</u> | No. <u>1051</u>       |
|                       |                        |                  | <u>Inside</u>         |                           |                  | <u>Inside</u>         |
|                       |                        |                  | <u>Outside</u>        |                           |                  | <u>Outside</u>        |
| Below Straddle: Depth |                        |                  | <u>Inside</u>         | Depth                     |                  | <u>Inside</u>         |
|                       |                        |                  | <u>Outside</u>        |                           |                  | <u>Outside</u>        |
|                       |                        |                  | <u>Inside</u>         |                           |                  | <u>Inside</u>         |
|                       |                        |                  | <u>Outside</u>        |                           |                  | <u>Outside</u>        |

Time Set Packer 2:44 P. M  
Tool Open I.F.P. From 2:45 M. to 3:00P. M. Hr. 15 Min. From (B) 84 P.S.I. To (C) 120 P.S.I.  
Tool Closed I.C.I.P. From 3:00 M. to 3:45P. M. Hr. 45 Min. (D) 1217 P.S.I.  
Tool Open F.F.P. From 3:45 M. to 4:45P. M. 1 Hr. Min. From (E) 132 P.S.I. To (F) 183 P.S.I.  
Tool Closed F.C.I.P. From 4:45 M. to 5:30P. M. Hr. 45 Min. (G) 1117 P.S.I.  
Initial Hydrostatic Pressure (A) 1960 P.S.I. Final Hydrostatic Pressure (H) 1941 P.S.I.

|             |                       |     |                    |           |                     |
|-------------|-----------------------|-----|--------------------|-----------|---------------------|
| SURFACE     | Size Choke <u>3/8</u> | In. | Max. Press. P.S.I. | Time      | Description of Flow |
| INFORMATION |                       |     |                    | <u>M.</u> |                     |
|             |                       |     |                    | <u>M.</u> |                     |
|             |                       |     |                    | <u>M.</u> |                     |

BLOW Good Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Recovery Total Ft. 20 feet heavy oil cut mud  
240 feet oil cut mud

Reversed Out \_\_\_\_\_ Yes ☒ No \_\_\_\_\_ Mud Type Starch Viscosity 39 Weight 9.7 Water Loss 54 cc. Maximum Temp. 106 °F  
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 2167 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 135 ft.

Remarks

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-18-69 Test Ticket No. 13382  
 Recorder No. 3354 Capacity 4200 Location 3623 Ft.  
 Clock No. 9726 Elevation 2502 Derrick Floor Well Temperature 106 °F

| Point                          | Pressure    |        | Time Given      | Time Computed   |
|--------------------------------|-------------|--------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1960</u> | P.S.I. | <u>2:44 P.</u>  | <u>M</u>        |
| B First Initial Flow Pressure  | <u>84</u>   | P.S.I. | <u>15</u> Mins. | <u>15</u> Mins. |
| C First Final Flow Pressure    | <u>120</u>  | P.S.I. | <u>45</u> Mins. | <u>45</u> Mins. |
| D Initial Closed-in Pressure   | <u>1217</u> | P.S.I. | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>132</u>  | P.S.I. | <u>45</u> Mins. | <u>45</u> Mins. |
| F Second Final Flow Pressure   | <u>183</u>  | P.S.I. |                 |                 |
| G Final Closed-in Pressure     | <u>1117</u> | P.S.I. |                 |                 |
| H Final Hydrostatic Mud        | <u>1941</u> | P.S.I. |                 |                 |

## PRESSURE BREAKDOWN

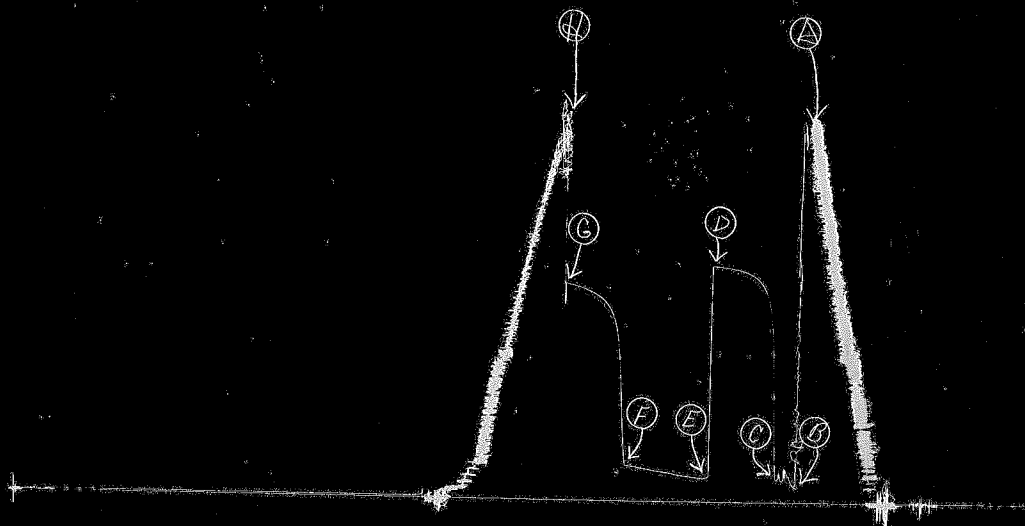
| First Flow Pressure      |                            | Initial Shut-In           |             | Second Flow Pressure      |            | Final Shut-In             |             |
|--------------------------|----------------------------|---------------------------|-------------|---------------------------|------------|---------------------------|-------------|
| Breakdown: _____ Inc.    |                            | Breakdown: <u>15</u> Inc. |             | Breakdown: <u>12</u> Inc. |            | Breakdown: <u>15</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 _____ Min. |                            | final inc. of _____ Min.  |             | final inc. of _____ Min.  |            | final inc. of _____ Min.  |             |
| Point Mins.              | Press.                     | Point Minutes             | Press.      | Point Minutes             | Press.     | Point Minutes             | Press.      |
| P 1 <u>0</u>             | <u>84</u>                  | <u>0</u>                  | <u>120</u>  | <u>0</u>                  | <u>132</u> | <u>0</u>                  | <u>183</u>  |
| P 2 <u>5</u>             | <u>Too much plugging</u>   | <u>3</u>                  | <u>751</u>  | <u>5</u>                  | <u>135</u> | <u>3</u>                  | <u>495</u>  |
| P 3 <u>10</u>            | <u>action P.S.I. break</u> | <u>6</u>                  | <u>1002</u> | <u>10</u>                 | <u>137</u> | <u>6</u>                  | <u>797</u>  |
| P 4 <u>15</u>            | <u>120</u>                 | <u>9</u>                  | <u>1090</u> | <u>15</u>                 | <u>139</u> | <u>9</u>                  | <u>924</u>  |
| P 5 _____                |                            | <u>12</u>                 | <u>1128</u> | <u>20</u>                 | <u>144</u> | <u>12</u>                 | <u>983</u>  |
| P 6 _____                |                            | <u>15</u>                 | <u>1151</u> | <u>25</u>                 | <u>149</u> | <u>15</u>                 | <u>1016</u> |
| P 7 _____                |                            | <u>18</u>                 | <u>1170</u> | <u>30</u>                 | <u>150</u> | <u>18</u>                 | <u>1057</u> |
| P 8 _____                |                            | <u>21</u>                 | <u>1183</u> | <u>35</u>                 | <u>151</u> | <u>21</u>                 | <u>1054</u> |
| P 9 _____                |                            | <u>24</u>                 | <u>1191</u> | <u>40</u>                 | <u>158</u> | <u>24</u>                 | <u>1067</u> |
| P10 _____                |                            | <u>27</u>                 | <u>1198</u> | <u>45</u>                 | <u>166</u> | <u>27</u>                 | <u>1078</u> |
| P11 _____                |                            | <u>30</u>                 | <u>1202</u> | <u>50</u>                 | <u>175</u> | <u>30</u>                 | <u>1086</u> |
| P12 _____                |                            | <u>33</u>                 | <u>1206</u> | <u>55</u>                 | <u>179</u> | <u>33</u>                 | <u>1097</u> |
| P13 _____                |                            | <u>36</u>                 | <u>1208</u> | <u>60</u>                 | <u>183</u> | <u>36</u>                 | <u>1105</u> |
| P14 _____                |                            | <u>39</u>                 | <u>1212</u> |                           |            | <u>39</u>                 | <u>1109</u> |
| P15 _____                |                            | <u>42</u>                 | <u>1215</u> |                           |            | <u>42</u>                 | <u>1112</u> |
| P16 _____                |                            | <u>45</u>                 | <u>1217</u> |                           |            | <u>45</u>                 | <u>1117</u> |
| P17 _____                |                            |                           |             |                           |            |                           |             |
| P18 _____                |                            |                           |             |                           |            |                           |             |
| P19 _____                |                            |                           |             |                           |            |                           |             |
| P20 _____                |                            |                           |             |                           |            |                           |             |

Messman-Rinehart Oil Co

TRT-13382

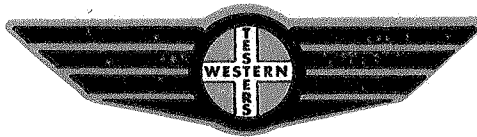
Petracek #1

Test # 8



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |     |
|----------------------------------------|---------------|----------------|-----|
|                                        | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 1974          | 1960           | PSI |
| (B) First Initial Flow Pressure .....  | 94            | 84             | PSI |
| (C) First Final Flow Pressure .....    | 126           | 120            | PSI |
| (D) Initial Closed-in Pressure .....   | 1219          | 1217           | PSI |
| (E) Second Initial Flow Pressure ..... | 137           | 132            | PSI |
| (F) Second Final Flow Pressure .....   | 196           | 183            | PSI |
| (G) Final Closed-in Pressure .....     | 1128          | 1117           | PSI |
| (H) Final Hydrostatic Mud .....        | 1963          | 1941           | PSI |



Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Petracek 1  
Elevation 2502 Derrick Floor Formation Kansas City Effective Pay \_\_\_\_\_ Ft. Ticket No. 13383  
Date 9-20-69 Sec. 26 Twp. 4S Range 27W County Decatur State Kansas  
Test Approved by J. G. Klein Western Representative Kenneth Cheney  
Formation Test No. 9 O.K. X Misrun \_\_\_\_\_ Interval Tested From 3518' to 3544' Total Depth 3915'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. X B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes X No Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No  
Packer Depth 3518 Ft. Size 6 3/4" Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Straddle \_\_\_\_\_ Yes X No \_\_\_\_\_ Conv. X B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes X No  
Packer Depth 3544 Ft. Size 6 3/4"  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" Exhole Anchor Length 26 Ft. Size 5 1/2" O.D.  
RECORDERS Depth 3534 Ft. Clock No. 9726 Depth 3536 Ft. Clock No. 9103  
Top Make Kuster Cap. 4200 No. 3354 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Kuster Cap. 4150 No. 1051 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Below Straddle: Depth \_\_\_\_\_ Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_ Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Time Set Packer 8:24 P.M.  
Tool Open I.F.P. From 8:25 M. to 8:35P. M. Hr. 10 Min. From (B) 21 P.S.I. To (C) 21 P.S.I.  
Tool Closed I.C.I.P. From 8:35 M. to 9:20P. M. Hr. 45 Min. (D) 981 P.S.I.  
Tool Open F.F.P. From 9:20 M. to 10:00P. M. Hr. 40 Min. From (E) 29 P.S.I. To (F) 40 P.S.I.  
Tool Closed F.C.I.P. From 10:00 M. to 10:45P. M. Hr. 45 Min. (G) 1029 P.S.I.  
Initial Hydrostatic Pressure (A) 1950 P.S.I. Final Hydrostatic Pressure (H) 1849 P.S.I.  
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
BLOW Weak for 10 minutes - and 10 minutes after flush Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes X No \_\_\_\_\_ Recovery Total Ft. 50 feet mud  
Reversed Out \_\_\_\_\_ Yes X No \_\_\_\_\_ Mud Type Starch Viscosity 43 Weight 9.6 Water Loss 19.0 cc. Maximum Temp. 106 °F  
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers \_\_\_\_\_ Yes \_\_\_\_\_ Safety Joint \_\_\_\_\_ No \_\_\_\_\_ Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 2165 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 412 ft.  
Remarks Flush tool after 20 minutes - Packers slid on ICIP after 30 minutes.

# WESTERN TESTING CO., INC. Pressure Data

Date 9-20-69 Test Ticket No. 13383  
Recorder No. 3354 Capacity 4200 Location 3534 Ft.  
Clock No. 9726 Elevation 2502 Derrick Floor Well Temperature 106 °F

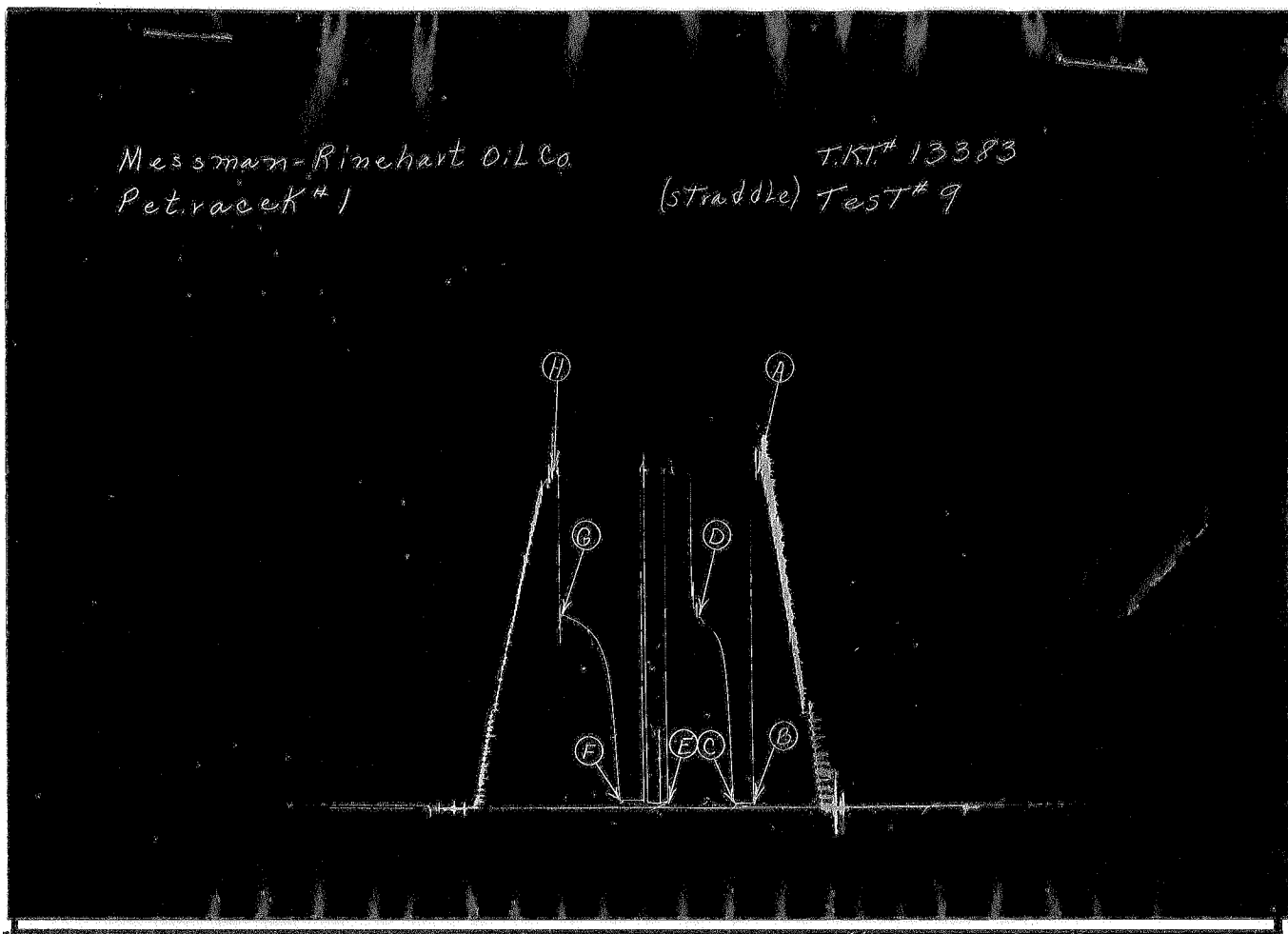
| Point                          | Pressure           |                            | Time Given       | Time Computed   |
|--------------------------------|--------------------|----------------------------|------------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1950</u> P.S.I. | Open Tool                  | <u>8:24 P.</u> M |                 |
| B First Initial Flow Pressure  | <u>21</u> P.S.I.   | First Flow Pressure        | <u>10</u> Mins.  | <u>10</u> Mins. |
| C First Final Flow Pressure    | <u>21</u> P.S.I.   | Initial Closed-in Pressure | <u>45</u> Mins.  | <u>21</u> Mins. |
| D Initial Closed-in Pressure   | <u>981</u> P.S.I.  | Second Flow Pressure       | <u>40</u> Mins.  | <u>40</u> Mins. |
| E Second Initial Flow Pressure | <u>29</u> P.S.I.   | Final Closed-in Pressure   | <u>45</u> Mins.  | <u>42</u> Mins. |
| F Second Final Flow Pressure   | <u>40</u> P.S.I.   |                            |                  |                 |
| G Final Closed-in Pressure     | <u>1029</u> P.S.I. |                            |                  |                 |
| H Final Hydrostatic Mud        | <u>1849</u> P.S.I. |                            |                  |                 |

## PRESSURE BREAKDOWN

| First Flow Pressure      |           | Initial Shut-In          |            | Second Flow Pressure     |           | Final Shut-In             |             |
|--------------------------|-----------|--------------------------|------------|--------------------------|-----------|---------------------------|-------------|
| Breakdown: <u>2</u> Inc. |           | Breakdown: <u>8</u> Inc. |            | Breakdown: <u>8</u> Inc. |           | Breakdown: <u>14</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 _____ Min. |           | final inc. of _____ Min. |            | final inc. of _____ Min. |           | final inc. of _____ Min.  |             |
| Point Mins.              | Press.    | Point Minutes            | Press.     | Point Minutes            | Press.    | Point Minutes             | Press.      |
| P 1 <u>0</u>             | <u>21</u> | <u>0</u>                 | <u>21</u>  | <u>0</u>                 | <u>29</u> | <u>0</u>                  | <u>40</u>   |
| P 2 <u>5</u>             | <u>21</u> | <u>3</u>                 | <u>443</u> | <u>5</u>                 | <u>23</u> | <u>3</u>                  | <u>411</u>  |
| P 3 <u>10</u>            | <u>21</u> | <u>6</u>                 | <u>744</u> | <u>10</u>                | <u>23</u> | <u>6</u>                  | <u>649</u>  |
| P 4 _____                |           | <u>9</u>                 | <u>864</u> | <u>15</u>                | <u>27</u> | <u>9</u>                  | <u>780</u>  |
| P 5 _____                |           | <u>12</u>                | <u>915</u> | <u>20</u>                | <u>40</u> | <u>12</u>                 | <u>843</u>  |
| P 6 _____                |           | <u>15</u>                | <u>945</u> | <u>25</u>                | <u>40</u> | <u>15</u>                 | <u>894</u>  |
| P 7 _____                |           | <u>18</u>                | <u>966</u> | <u>30</u>                | <u>40</u> | <u>18</u>                 | <u>921</u>  |
| P 8 _____                |           | <u>21</u>                | <u>981</u> | <u>35</u>                | <u>40</u> | <u>21</u>                 | <u>947</u>  |
| P 9 _____                |           |                          |            | <u>40</u>                | <u>40</u> | <u>24</u>                 | <u>964</u>  |
| P10 _____                |           | Tool Movement creating   |            |                          |           | <u>27</u>                 | <u>983</u>  |
| P11 _____                |           | False P.S.I.             |            |                          |           | <u>30</u>                 | <u>995</u>  |
| P12 _____                |           |                          |            |                          |           | <u>33</u>                 | <u>1005</u> |
| P13 _____                |           |                          |            |                          |           | <u>36</u>                 | <u>1016</u> |
| P14 _____                |           |                          |            |                          |           | <u>39</u>                 | <u>1023</u> |
| P15 _____                |           |                          |            |                          |           | <u>42</u>                 | <u>1029</u> |
| P16 _____                |           |                          |            |                          |           |                           |             |
| P17 _____                |           |                          |            |                          |           |                           |             |
| P18 _____                |           |                          |            |                          |           |                           |             |
| P19 _____                |           |                          |            |                          |           |                           |             |
| P20 _____                |           |                          |            |                          |           |                           |             |

Messman-Rinehart Oil Co.  
Pet. racek #1

T.K.T. # 13383  
(straddle) Test # 9



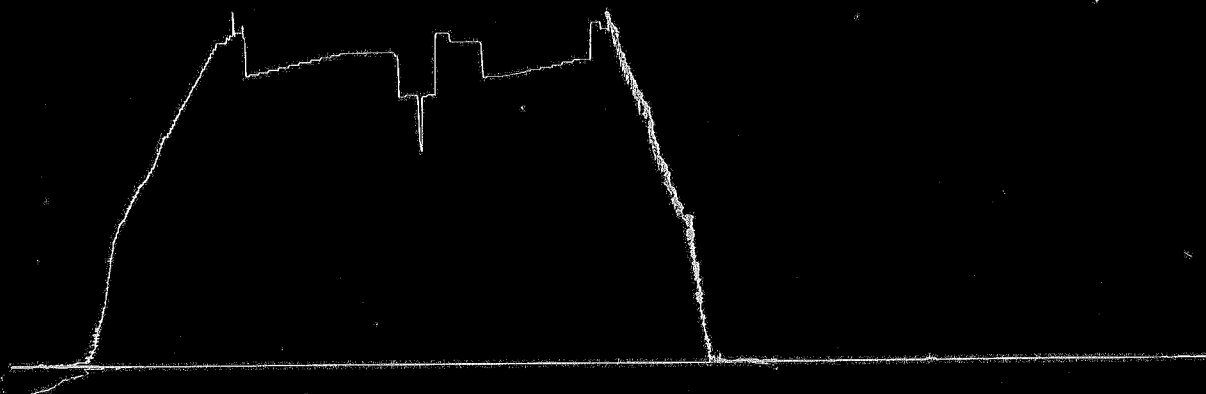
This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |
|----------------------------------------|---------------|----------------|
|                                        | Field Reading | Office Reading |
| (A) Initial Hydrostatic Mud .....      | 1953          | 1950 PSI       |
| (B) First Initial Flow Pressure .....  | 37            | 21 PSI         |
| (C) First Final Flow Pressure .....    | 37            | 21 PSI         |
| (D) Initial Closed-in Pressure .....   | 1012          | 981 PSI        |
| (E) Second Initial Flow Pressure ..... | 42            | 29 PSI         |
| (F) Second Final Flow Pressure .....   | 52            | 40 PSI         |
| (G) Final Closed-in Pressure .....     | 1044          | 1029 PSI       |
| (H) Final Hydrostatic Mud .....        | 1847          | 1849 PSI       |

Messman-Rinehart Oil Co.  
Petracek #1

47" 1338  
(Straddle) 1357 # 9

Below straddle chart



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |
|----------------------------------------|---------------|----------------|
|                                        | Field Reading | Office Reading |
| (A) Initial Hydrostatic Mud .....      | 1953          | 1950           |
| (B) First Initial Flow Pressure .....  | 37            | 21             |
| (C) First Final Flow Pressure .....    | 37            | 21             |
| (D) Initial Closed-in Pressure .....   | 1012          | 981            |
| (E) Second Initial Flow Pressure ..... | 42            | 29             |
| (F) Second Final Flow Pressure .....   | 52            | 40             |
| (G) Final Closed-in Pressure .....     | 1044          | 1029           |
| (H) Final Hydrostatic Mud .....        | 1847          | 1849           |



Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Petracek 1  
Elevation 2502 Derrick Floor Formation Kansas City Effective Pay 4 Ft. Ticket No. 13384  
Date 9-21-69 Sec. 26 Twp. 45 Range 27W County Decatur State Kansas  
Test Approved by J. G. KXX Klein Western Representative Kenneth Cheney  
Formation Test No. 10 O.K. X Misrun \_\_\_\_\_ Interval Tested From 3546' to 3576' Total Depth 3915'  
Size Main Hole 7 7/8 Rat Hole \_\_\_\_\_ Conv. X B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes X No \_\_\_\_\_ Conv. \_\_\_\_\_ B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_  
Packer Depth 3546 Ft. Size 6 3/4" Packer Depth \_\_\_\_\_ Ft. Size \_\_\_\_\_  
Straddle \_\_\_\_\_ Yes X No \_\_\_\_\_ Conv. X B.T. \_\_\_\_\_ Damaged \_\_\_\_\_ Yes X No \_\_\_\_\_ Hook at 3592'  
Packer Depth 3576 Ft. Size 6 3/4"  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" Ex hole Anchor Length 30 Ft. Size 5 1/2" O.D.  
RECORDERS Depth 3566 Ft. Clock No. 9726 Depth 3568 Ft. Clock No. 9103  
Top Make Kuster Cap. 4150 No. 3354 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make Kuster Cap. 4150 No. 1051 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Below Straddle: Depth 3580 Clock No. 106 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Depth 3595 Ft. Clock No. 153 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Top Make WTC Cap. 4000 No. 9 Inside \_\_\_\_\_ Outside \_\_\_\_\_ Bottom Make WTC Cap. 4000 No. 10 Inside \_\_\_\_\_ Outside \_\_\_\_\_  
Time Set Packer 4:54 A. M.  
Tool Open I.F.P. From 4:55 M. to 5:25A. M. Hr. 30 Min. From (B) 61 P.S.I. To (C) 63 P.S.I.  
Tool Closed I.C.I.P. From 5:25 M. to -- M. Hr. \_\_\_\_\_ Min. (D) \_\_\_\_\_ P.S.I.  
Tool Open F.F.P. From \_\_\_\_\_ M. to \_\_\_\_\_ M. Hr. \_\_\_\_\_ Min. From (E) \_\_\_\_\_ P.S.I. To (F) \_\_\_\_\_ P.S.I.  
Tool Closed F.C.I.P. From \_\_\_\_\_ M. to \_\_\_\_\_ M. Hr. \_\_\_\_\_ Min. (G) \_\_\_\_\_ P.S.I.  
Initial Hydrostatic Pressure (A) 1879 P.S.I. Final Hydrostatic Pressure (H) 1868 P.S.I.  
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
BLOW Weak for 12 minutes Bottom Choke Size 3/4 In.  
Did Well Flow \_\_\_\_\_ Yes X No \_\_\_\_\_ Recovery Total Ft. \_\_\_\_\_  
Reversed Out \_\_\_\_\_ Yes X No \_\_\_\_\_ Mud Type Starch Viscosity 43 Weight 9.7 Water Loss 19.2 cc. Maximum Temp. \_\_\_\_\_ °F  
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 2204 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 60 ft.  
Remarks Blew for 12 minutes and died - Did not take shut-in's on final flow - Move hook tool to another zone - First set was in error off 61' - This set isn't marked on charts - Tool rset as Test #10

# WESTERN TESTING CO., INC.

## Pressure Data

Date 9-21-69 Test Ticket No. 13384  
 Recorder No. 3354 Capacity 4200 Location 3566 Ft.  
 Clock No. 9726 Elevation 2502 Derrick Floor Well Temperature \_\_\_\_\_ °F

| Point                          | Pressure |        | Time Given | Time Computed |
|--------------------------------|----------|--------|------------|---------------|
| A Initial Hydrostatic Mud      | 1879     | P.S.I. | 4:54 A.    | M             |
| B First Initial Flow Pressure  | 61       | P.S.I. | 30         | 32            |
| C First Final Flow Pressure    | 63       | P.S.I. | Mins.      | Mins.         |
| D Initial Closed-in Pressure   |          | P.S.I. | Mins.      | Mins.         |
| E Second Initial Flow Pressure |          | P.S.I. | Mins.      | Mins.         |
| F Second Final Flow Pressure   |          | P.S.I. | Mins.      | Mins.         |
| G Final Closed-in Pressure     |          | P.S.I. | Mins.      | Mins.         |
| H Final Hydrostatic Mud        | 1868     | P.S.I. |            |               |

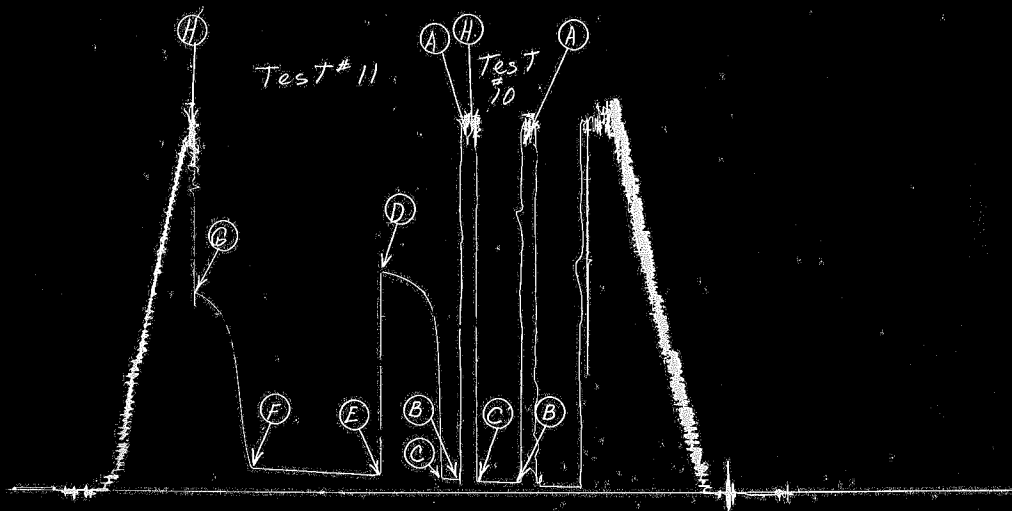
### PRESSURE BREAKDOWN

| First Flow Pressure         |        | Initial Shut-In          |        | Second Flow Pressure     |        | Final Shut-In            |        |
|-----------------------------|--------|--------------------------|--------|--------------------------|--------|--------------------------|--------|
| Point Mins.                 | Press. | Point Minutes            | Press. | Point Minutes            | Press. | Point Minutes            | Press. |
| Breakdown: <u>6</u> Inc.    |        | Breakdown: _____ Inc.    |        | Breakdown: _____ Inc.    |        | Breakdown: _____ Inc.    |        |
| of <u>5</u> mins. and a     |        | of _____ mins. and a     |        | of _____ mins. and a     |        | of _____ mins. and a     |        |
| final inc. of <u>2</u> Min. |        | final inc. of _____ Min. |        | final inc. of _____ Min. |        | final inc. of _____ Min. |        |
| P 1                         | 0      |                          |        |                          |        |                          |        |
| P 2                         | 5      |                          |        |                          |        |                          |        |
| P 3                         | 10     |                          |        |                          |        |                          |        |
| P 4                         | 15     |                          |        |                          |        |                          |        |
| P 5                         | 20     |                          |        |                          |        |                          |        |
| P 6                         | 25     |                          |        |                          |        |                          |        |
| P 7                         | 30     |                          |        |                          |        |                          |        |
| P 8                         | 32     |                          |        |                          |        |                          |        |
| P 9                         |        |                          |        |                          |        |                          |        |
| P10                         |        |                          |        |                          |        |                          |        |
| P11                         |        |                          |        |                          |        |                          |        |
| P12                         |        |                          |        |                          |        |                          |        |
| P13                         |        |                          |        |                          |        |                          |        |
| P14                         |        |                          |        |                          |        |                          |        |
| P15                         |        |                          |        |                          |        |                          |        |
| P16                         |        |                          |        |                          |        |                          |        |
| P17                         |        |                          |        |                          |        |                          |        |
| P18                         |        |                          |        |                          |        |                          |        |
| P19                         |        |                          |        |                          |        |                          |        |
| P20                         |        |                          |        |                          |        |                          |        |

Messman-Rinehart Oil Co.  
Petracek #1

Selective Zone

T.K.T.# 13384  
T.K.T.# 13385  
Tests #10 & #11



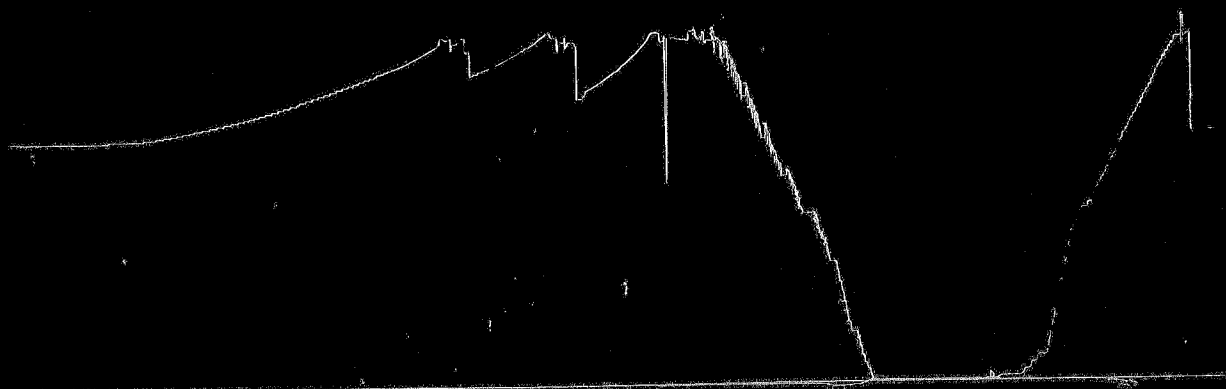
This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |
|----------------------------------------|---------------|----------------|
|                                        | Field Reading | Office Reading |
| (A) Initial Hydrostatic Mud .....      |               | 1879 PSI       |
| (B) First Initial Flow Pressure .....  | 63            | 61 PSI         |
| (C) First Final Flow Pressure .....    | 69            | 63 PSI         |
| (D) Initial Closed-in Pressure .....   |               | PSI            |
| (E) Second Initial Flow Pressure ..... |               | PSI            |
| (F) Second Final Flow Pressure .....   |               | PSI            |
| (G) Final Closed-in Pressure .....     |               | PSI            |
| (H) Final Hydrostatic Mud .....        |               | 1868 PSI       |

Messman & Rinehart Oil Co  
 Petracsek #1

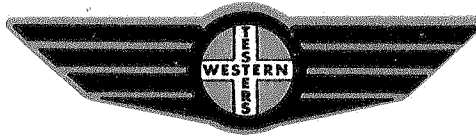
T.K.T. #13384  
 T.K.T. #13385  
 (Selective Zone) Tests #10071

Below saddle chart



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |
|----------------------------------------|---------------|----------------|
|                                        | Field Reading | Office Reading |
| (A) Initial Hydrostatic Mud .....      |               | 1879 PSI       |
| (B) First Initial Flow Pressure .....  | 63            | 61 PSI         |
| (C) First Final Flow Pressure .....    | 69            | 63 PSI         |
| (D) Initial Closed-in Pressure .....   |               | PSI            |
| (E) Second Initial Flow Pressure ..... |               | PSI            |
| (F) Second Final Flow Pressure .....   |               | PSI            |
| (G) Final Closed-in Pressure .....     |               | PSI            |
| (H) Final Hydrostatic Mud .....        |               | 1868 PSI       |



Home Office: Great Bend, Kansas  
P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Petracek 1  
Elevation 2502 Derrick Floor Formation Kansas City Effective Pay 5 Ft. Ticket No. 13385  
Date 9-21-69 Sec. 26 Twp. 4S Range 27W County Decatur State Kansas  
Test Approved by J. G. Klein Western Representative Kenneth Cheney  
Formation Test No. 11 O.K. ☒ Misrun ☐ Interval Tested From 3572' to 3602' Total Depth 3915'  
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged Yes ☐ No ☐  
Packer Depth 3570 Ft. Size 6 3/4" Packer Depth 3600 Ft. Size 6 3/4"  
Straddle Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged Yes ☒ No ☐ Hook at 3618'  
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" Ex hole Anchor Length 30 Ft. Size 5 1/2" O.D.  
RECORDERS Depth 3590 Ft. Clock No. 9726 Depth 3592 Ft. Clock No. 9103  
Top Make Kuster Cap. 4150 No. 3354 Inside ☐ Outside ☒ Bottom Make Kuster Cap. 4150 No. 1051 Inside ☐ Outside ☒  
Below Straddle: Depth 3618 Clock No. 9 Inside ☐ Outside ☒ Depth 3602 Ft. Clock No. 10 Inside ☐ Outside ☒  
Top Make WTC Cap. 4000 No. 106 Inside ☐ Outside ☒ Bottom Make WTC Cap. 4000 No. 153 Inside ☐ Outside ☒  
Time Set Packer 5:38 A.M.  
Tool Open I.F.P. From 5:40 M. to 5:50A. M. Hr. 10 Min. From (B) 75 P.S.I. To (C) 82 P.S.I.  
Tool Closed I.C.I.P. From 5:50 M. to 6:35A. M. Hr. 45 Min. (D) 1147 P.S.I.  
Tool Open F.F.P. From 6:35 M. to 8:05A. M. Hr. 1 Hr. 30 Min. From (E) 97 P.S.I. To (F) 116 P.S.I.  
Tool Closed F.C.I.P. From 8:05 M. to 8:50A. M. Hr. 45 Min. (G) 1040 P.S.I.  
Initial Hydrostatic Pressure (A) 2011 P.S.I. Final Hydrostatic Pressure (H) 1981 P.S.I.  
SURFACE Size Choke 3/8 In. Max. Press. P.S.I. Time Description of Flow  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
BLOW Fair to weak Bottom Choke Size 3/4 In.  
Did Well Flow Yes ☒ No ☐ Recovery Total Ft. 185 feet oil cut mud to heavy oil cut mud  
15 feet oil cut muddy water  
Reversed Out Yes ☒ No ☐ Mud Type Starch Viscosity 43 Weight 9.7 Water Loss 19.0 cc. Maximum Temp. 106 °F  
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size \_\_\_\_\_ Make \_\_\_\_\_ Ser. No. \_\_\_\_\_  
EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where? \_\_\_\_\_  
Length Drill Pipe 2230 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1328 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars \_\_\_\_\_ ft.  
I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool 60 ft.  
Remarks First set on these selective zone tests was in error of 61 feet - This set isn't marked on charts - Tool was reset as test #10

# WESTERN TESTING CO., INC. Pressure Data

Date 9-21-69 Test Ticket No. 13385  
Recorder No. 3354 Capacity 4200 Location 3590 Ft.  
Clock No. 9726 Elevation 2502 Derrick Floor Well Temperature 106 °F

| Point                          | Pressure           |                            | Time Given       | Time Computed   |
|--------------------------------|--------------------|----------------------------|------------------|-----------------|
| A Initial Hydrostatic Mud      | <u>2011</u> P.S.I. | Open Tool                  | <u>5:38</u> A.M. |                 |
| B First Initial Flow Pressure  | <u>75</u> P.S.I.   | First Flow Pressure        | <u>10</u> Mins.  | <u>10</u> Mins. |
| C First Final Flow Pressure    | <u>82</u> P.S.I.   | Initial Closed-in Pressure | <u>45</u> Mins.  | <u>45</u> Mins. |
| D Initial Closed-in Pressure   | <u>1147</u> P.S.I. | Second Flow Pressure       | <u>90</u> Mins.  | <u>90</u> Mins. |
| E Second Initial Flow Pressure | <u>97</u> P.S.I.   | Final Closed-in Pressure   | <u>45</u> Mins.  | <u>45</u> Mins. |
| F Second Final Flow Pressure   | <u>116</u> P.S.I.  |                            |                  |                 |
| G Final Closed-in Pressure     | <u>1040</u> P.S.I. |                            |                  |                 |
| H Final Hydrostatic Mud        | <u>1981</u> P.S.I. |                            |                  |                 |

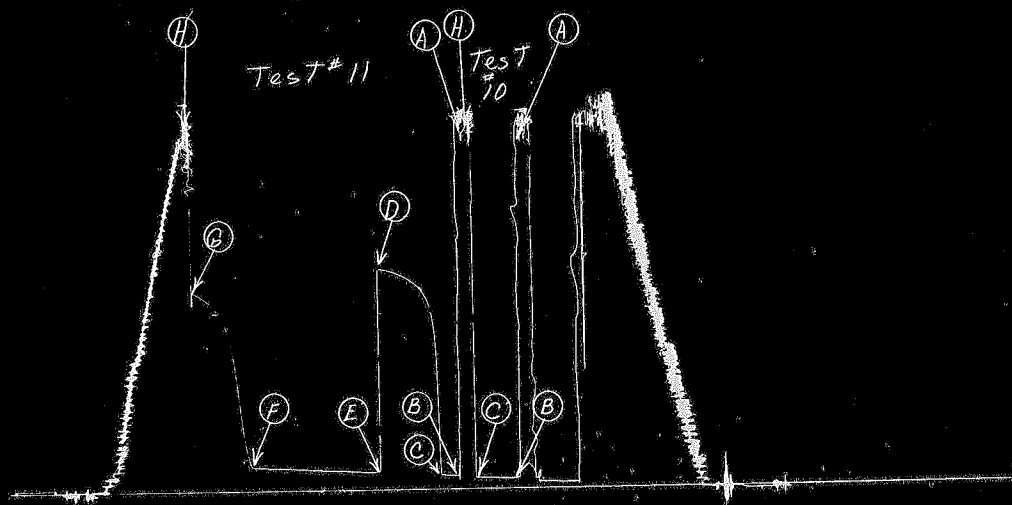
## PRESSURE BREAKDOWN

| First Flow Pressure      |           | Initial Shut-In           |             | Second Flow Pressure      |            | Final Shut-In             |             |
|--------------------------|-----------|---------------------------|-------------|---------------------------|------------|---------------------------|-------------|
| Breakdown: <u>2</u> Inc. |           | Breakdown: <u>15</u> Inc. |             | Breakdown: <u>18</u> Inc. |            | Breakdown: <u>15</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 _____ Min. |           | final inc. of _____ Min.  |             | final inc. of _____ Min.  |            | final inc. of _____ Min.  |             |
| Point Mins.              | Press.    | Point Minutes             | Press.      | Point Minutes             | Press.     | Point Minutes             | Press.      |
| P 1 <u>0</u>             | <u>75</u> | <u>0</u>                  | <u>82</u>   | <u>0</u>                  | <u>97</u>  | <u>0</u>                  | <u>116</u>  |
| P 2 <u>5</u>             | <u>77</u> | <u>3</u>                  | <u>556</u>  | <u>5</u>                  | <u>97</u>  | <u>3</u>                  | <u>175</u>  |
| P 3 <u>10</u>            | <u>82</u> | <u>6</u>                  | <u>820</u>  | <u>10</u>                 | <u>97</u>  | <u>6</u>                  | <u>261</u>  |
| P 4 _____                |           | <u>9</u>                  | <u>943</u>  | <u>15</u>                 | <u>98</u>  | <u>9</u>                  | <u>405</u>  |
| P 5 _____                |           | <u>12</u>                 | <u>997</u>  | <u>20</u>                 | <u>100</u> | <u>12</u>                 | <u>554</u>  |
| P 6 _____                |           | <u>15</u>                 | <u>1033</u> | <u>25</u>                 | <u>102</u> | <u>15</u>                 | <u>706</u>  |
| P 7 _____                |           | <u>18</u>                 | <u>1059</u> | <u>30</u>                 | <u>105</u> | <u>18</u>                 | <u>803</u>  |
| P 8 _____                |           | <u>21</u>                 | <u>1075</u> | <u>35</u>                 | <u>106</u> | <u>21</u>                 | <u>864</u>  |
| P 9 _____                |           | <u>24</u>                 | <u>1092</u> | <u>40</u>                 | <u>107</u> | <u>24</u>                 | <u>911</u>  |
| P10 _____                |           | <u>27</u>                 | <u>1101</u> | <u>45</u>                 | <u>109</u> | <u>27</u>                 | <u>945</u>  |
| P11 _____                |           | <u>30</u>                 | <u>1111</u> | <u>50</u>                 | <u>111</u> | <u>30</u>                 | <u>970</u>  |
| P12 _____                |           | <u>33</u>                 | <u>1122</u> | <u>55</u>                 | <u>111</u> | <u>33</u>                 | <u>991</u>  |
| P13 _____                |           | <u>36</u>                 | <u>1128</u> | <u>60</u>                 | <u>111</u> | <u>36</u>                 | <u>1006</u> |
| P14 _____                |           | <u>39</u>                 | <u>1135</u> | <u>65</u>                 | <u>111</u> | <u>39</u>                 | <u>1018</u> |
| P15 _____                |           | <u>42</u>                 | <u>1141</u> | <u>70</u>                 | <u>112</u> | <u>42</u>                 | <u>1029</u> |
| P16 _____                |           | <u>45</u>                 | <u>1147</u> | <u>75</u>                 | <u>113</u> | <u>45</u>                 | <u>1040</u> |
| P17 _____                |           |                           |             | <u>80</u>                 | <u>114</u> |                           |             |
| P18 _____                |           |                           |             | <u>85</u>                 | <u>115</u> |                           |             |
| P19 _____                |           |                           |             | <u>90</u>                 | <u>116</u> |                           |             |
| P20 _____                |           |                           |             |                           |            |                           |             |

Messman-Rinehart Oil Co.  
Petracek #1

Selective Zone

T.K.T.# 13384  
T.K.T.# 13385  
Tests #10 & #11



This is an actual photograph of recorder chart.

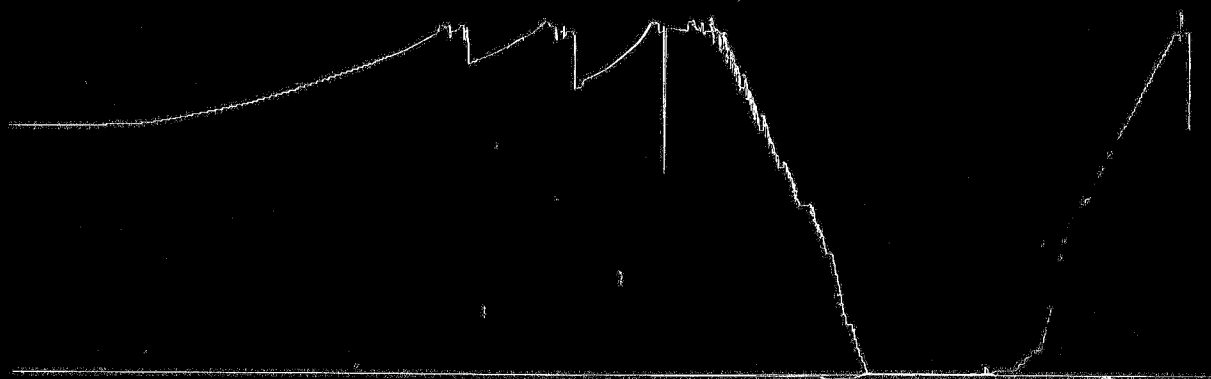
| POINT                                  | PRESSURE      |                |     |
|----------------------------------------|---------------|----------------|-----|
|                                        | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 2006          | 2011           | PSI |
| (B) First Initial Flow Pressure .....  | 80            | 75             | PSI |
| (C) First Final Flow Pressure .....    | 84            | 82             | PSI |
| (D) Initial Closed-in Pressure .....   | 1160          | 1147           | PSI |
| (E) Second Initial Flow Pressure ..... | 105           | 97             | PSI |
| (F) Second Final Flow Pressure .....   | 126           | 116            | PSI |
| (G) Final Closed-in Pressure .....     | 1054          | 1040           | PSI |
| (H) Final Hydrostatic Mud .....        | 1974          | 1981           | PSI |

Messman & Rinehart Oil Co  
Petracek #1

TKT #13384  
T.K.T. #13385

(Selective Zone) Tests #10011

Balon. Staddle chart



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |     |
|----------------------------------------|---------------|----------------|-----|
|                                        | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 2006          | 2011           | PSI |
| (B) First Initial Flow Pressure .....  | 80            | 75             | PSI |
| (C) First Final Flow Pressure .....    | 84            | 82             | PSI |
| (D) Initial Closed-in Pressure .....   | 1160          | 1147           | PSI |
| (E) Second Initial Flow Pressure ..... | 105           | 97             | PSI |
| (F) Second Final Flow Pressure .....   | 126           | 116            | PSI |
| (G) Final Closed-in Pressure .....     | 1054          | 1040           | PSI |
| (H) Final Hydrostatic Mud .....        | 1974          | 1981           | PSI |