



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No 10516

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

Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Eff. Pay ☒ Ft.

District Pratt Date 5-15-81 Customer Order No. ✓

COMPANY NAME W.L. Hartman Estate

ADDRESS R. P.O. Box 54 Wichita, Ks. 67201

LEASE AND WELL NO. Newman-Ludeman #2 COUNTY Harper STATE Ks. Sec. 25 Twp 33s Rge 6w

Mail Invoice To Same No. Copies Requested 5  
Co. Name Same Address \_\_\_\_\_ No. Copies Requested 5

Mail Charts To \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3817 ft. to 3834 ft. Total Depth 3834 ft.

Packer Depth 3812 ft. Size 6 3/8 in. Packer Depth — ft. Size — in.

Packer Depth 3817 ft. Size 6 3/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3827 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 3830 ft. Recorder Number 13267 Cap. 4050

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

Drilling Contractor DNB Orig. Drill Collar Length 465 I. D. 2.24 in.

Mud Type Impermix Viscosity 40 Weight Pipe Length 31 I. D. 2.76 in.

Weight 9.4 Water Loss 16.0 cc. Drill Pipe Length 3301 I. D. 3.8 in.

Chlorides 33,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make no Serial Number — Anchor Length 17 ft. Size 5 1/2 in.

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

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

Blow: Weak Blow. Died in 2 min. Waited 5 min. Flushed Tool. Weak Blow Died 3 min.

Recovered 100 ft. of Slightly Gassy O.I. Spiked Mud.

Recovered 60 ft. of Slightly Gassy O.I. Spiked Water Cut Mud.

Recovered 60 ft. of " " Muddy Water

Recovered 120 ft. of Salt Water 145,000 ppm Chlorides.

Recovered — ft. of —

Remarks: Slid Tool 12 FT. TO BOTTOM.

? Took up both Pkrs. Coming out of hole. Broke sub off bottom of one.

Time On Location 6:00 A.M. Time Pick Up Tool 7:00 A.M. Time Off Location \_\_\_\_\_ A.M.

Time Set Packer(s) 9:00 A.M. Time Started Off Bottom 10:30 A.M. Maximum Temperature 124°

Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1953 P.S.I.

Initial Flow Period \_\_\_\_\_ Minutes 60 (B) 118 P.S.I. to (C) 161 P.S.I.

Initial Closed In Period \_\_\_\_\_ Minutes 30 (D) 964 P.S.I.

Final Flow Period \_\_\_\_\_ Minutes (E) — P.S.I. to (F) — P.S.I.

Final Closed In Period \_\_\_\_\_ Minutes (G) — P.S.I.

Final Hydrostatic Pressure \_\_\_\_\_ (H) 1921 P.S.I.

COMPANY TERMS

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

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

Test Approved By B. Schindlapper  
Signature of Customer or his authorized representative

Western Representative Leo Holtz

Thank You!!

FIELD INVOICE

Open Hole Test \$ 625.00  
Misrun \$ \_\_\_\_\_  
Straddle Test \$ \_\_\_\_\_  
Jars \$ \_\_\_\_\_  
Selective Zone \$ \_\_\_\_\_  
Safety Joint \$ \_\_\_\_\_  
Standby \$ \_\_\_\_\_  
Evaluation \$ \_\_\_\_\_  
Extra Packer \$ 250.00  
Circ. Sub. \$ \_\_\_\_\_  
Mileage 80 \$ 60.00  
Fluid Sampler \$ \_\_\_\_\_  
Extra Charts \$ \_\_\_\_\_  
Insurance \$ \_\_\_\_\_  
TOTAL \$ 935.00

# WESTERN TESTING CO., INC.

## Pressure Data

Date 5-15 Test Ticket No. 10516  
 Recorder No. 1051 Capacity 4250 Location 3827 Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature 124 °F

| Point                          | Pressure           | Open Tool                  | Time Given      | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1964</u> P.S.I. |                            | <u>9:00</u> A   |                 |
| B First Initial Flow Pressure  | <u>131</u> P.S.I.  | First Flow Pressure        | <u>60</u> Mins. | <u>60</u> Mins. |
| C First Final Flow Pressure    | <u>163</u> P.S.I.  | Initial Closed-in Pressure | <u>30</u> Mins. | <u>27</u> Mins. |
| D Initial Closed-in Pressure   | <u>966</u> P.S.I.  | Second Flow Pressure       | _____ Mins.     | _____ Mins.     |
| E Second Initial Flow Pressure | _____ P.S.I.       | Final Closed-in Pressure   | _____ Mins.     | _____ Mins.     |
| F Second Final Flow Pressure   | _____ P.S.I.       |                            |                 |                 |
| G Final Closed-in Pressure     | _____ P.S.I.       |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>1953</u> P.S.I. |                            |                 |                 |

### PRESSURE BREAKDOWN

First Flow Pressure  
 Breakdown: 12 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

Initial Shut-In  
 Breakdown: 9 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

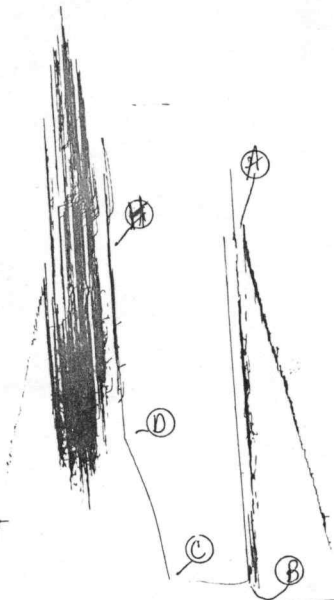
Second Flow Pressure  
 Breakdown: 0 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

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

| Point Mins. | Press.     | Point Minutes | Press.     | Point Minutes | Press. | Point Minutes | Press. |
|-------------|------------|---------------|------------|---------------|--------|---------------|--------|
| P 1 0       | <u>131</u> | 0             | <u>163</u> | 0             |        | 0             |        |
| P 2 5       | <u>129</u> | 3             | <u>310</u> | 5             |        | 3             |        |
| P 3 10      | <u>125</u> | 6             | <u>474</u> | 10            |        | 6             |        |
| P 4 15      | <u>126</u> | 9             | <u>578</u> | 15            |        | 9             |        |
| P 5 20      | <u>131</u> | 12            | <u>659</u> | 20            |        | 12            |        |
| P 6 25      | <u>135</u> | 15            | <u>732</u> | 25            |        | 15            |        |
| P 7 30      | <u>142</u> | 18            | <u>800</u> | 30            |        | 18            |        |
| P 8 35      | <u>153</u> | 21            | <u>868</u> | 35            |        | 21            |        |
| P 9 40      | <u>154</u> | 24            | <u>936</u> | 40            |        | 24            |        |
| P10 45      | <u>155</u> | 27            | <u>966</u> | 45            |        | 27            |        |
| P11 50      | <u>159</u> | 30            |            | 50            |        | 30            |        |
| P12 55      | <u>161</u> | 33            |            | 55            |        | 33            |        |
| P13 60      | <u>163</u> | 36            |            | 60            |        | 36            |        |
| P14         |            | 39            |            | 65            |        | 39            |        |
| P15         |            | 42            |            | 70            |        | 42            |        |
| P16         |            | 45            |            | 75            |        | 45            |        |
| P17         |            | 48            |            | 80            |        | 48            |        |
| P18         |            | 51            |            | 85            |        | 51            |        |
| P19         |            | 54            |            | 90            |        | 54            |        |
| P20         |            | 57            |            |               |        | 57            |        |
|             |            | 60            |            |               |        | 60            |        |

DKA #10516  
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1051  
10516  
DST #1



Company W. L. Hartman Estate Lease & Well No. Newman-Ludeman #2  
Elevation - Formation - Effective Pay - Ft. Ticket No. 10516  
Date 5/15/81 Sec. 25 Twp. 33S Range 6W County Harper State Kansas  
Test Approved by R L Schmidlapp Western Representative Les Holtz  
Formation Test No. 1 Interval Tested from 3817 ft. to 3834 ft. Total Depth 3834 ft.  
Packer Depth 3812 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.  
Packer Depth 3817 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.  
Depth of Selective Zone Set -  
Top Recorder Depth (Inside) 3827 ft. Recorder Number 1051 Cap. 4250  
Bottom Recorder Depth (Outside) 3830 ft. Recorder Number 132677 Cap. 4050  
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -  
Drilling Contractor DNB Drilling Drill Collar Length 465 I. D. 2.26 in.  
Mud Type Impermix Viscosity 40 Weight Pipe Length 31 I. D. 2.76 in.  
Weight 9.4 Water Loss 16.0 cc. Drill Pipe Length 3301 I. D. 3.8 in.  
Chlorides 33,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.  
Jars: Make No Serial Number - Anchor Length 17 ft. Size 5 1/2 in.  
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Weak blow. Died in 2 minutes. Waited 5 minutes. Flushed tool. Weak blow died in 3 minutes.

Recovered 100 ft. of slightly gassy oil specked mud  
Recovered 60 ft. of slightly gassy oil specked water cut mud  
Recovered 60 ft. of slightly gassy oil specked muddy water  
Recovered 120 ft. of salt water Chlorides 145,000 PPM

Recovered - ft. of -  
Remarks: Slid tool 12 ft. to bottom.

Tore up both packers coming out of hole. Broke sub off bottom of one.

Time Set Packer(s) 9:00 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 10:30 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 124  
Initial Hydrostatic Pressure ..... (A) 1964 P.S.I.  
Initial Flow Period ..... Minutes 60 (B) 131 P.S.I. to (C) 163 P.S.I.  
Initial Closed In Period ..... Minutes 27 (D) 966 P.S.I.  
Final Flow Period ..... Minutes - (E) - P.S.I. to (F) - P.S.I.  
Final Closed In Period ..... Minutes - (G) - P.S.I.  
Final Hydrostatic Pressure ..... (H) 1953 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 5/15/81 Recorder No. 1051 Capacity 4250 Test Ticket No. 10516  
 Clock No. - Elevation - Location 3827 Ft. Well Temperature 124 °F

| Point                          | Pressure    |        | Time Given   | Time Computed   |
|--------------------------------|-------------|--------|--------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1964</u> | P.S.I. | <u>9:00A</u> | <u>M</u>        |
| B First Initial Flow Pressure  | <u>131</u>  | P.S.I. | <u>60</u>    | <u>60</u> Mins. |
| C First Final Flow Pressure    | <u>163</u>  | P.S.I. | <u>30</u>    | <u>27</u> Mins. |
| D Initial Closed-in Pressure   | <u>966</u>  | P.S.I. | <u>-</u>     | <u>-</u> Mins.  |
| E Second Initial Flow Pressure | <u>-</u>    | P.S.I. | <u>-</u>     | <u>-</u> Mins.  |
| F Second Final Flow Pressure   | <u>-</u>    | P.S.I. | <u>-</u>     | <u>-</u> Mins.  |
| G Final Closed-in Pressure     | <u>-</u>    | P.S.I. |              |                 |
| H Final Hydrostatic Mud        | <u>1953</u> | P.S.I. |              |                 |

### PRESSURE BREAKDOWN

| First Flow Pressure         |            | Initial Shut-In             |            | Second Flow Pressure        |        | Final Shut-In               |        |
|-----------------------------|------------|-----------------------------|------------|-----------------------------|--------|-----------------------------|--------|
| Breakdown: <u>12</u> Inc.   |            | Breakdown: <u>9</u> Inc.    |            | Breakdown: <u>0</u> Inc.    |        | Breakdown: <u>0</u> Inc.    |        |
| of <u>5</u> mins. and a     |            | of <u>3</u> mins. and a     |            | of <u>5</u> mins. and a     |        | of <u>3</u> mins. and a     |        |
| final inc. of <u>0</u> Min. |            | final inc. of <u>0</u> Min. |            | final inc. of <u>0</u> Min. |        | final inc. of <u>0</u> Min. |        |
| Point Mins.                 | Press.     | Point Minutes               | Press.     | Point Minutes               | Press. | Point Minutes               | Press. |
| P 1 <u>0</u>                | <u>131</u> | <u>0</u>                    | <u>163</u> |                             |        |                             |        |
| P 2 <u>5</u>                | <u>129</u> | <u>3</u>                    | <u>310</u> |                             |        |                             |        |
| P 3 <u>10</u>               | <u>125</u> | <u>6</u>                    | <u>474</u> |                             |        |                             |        |
| P 4 <u>15</u>               | <u>126</u> | <u>9</u>                    | <u>578</u> |                             |        |                             |        |
| P 5 <u>20</u>               | <u>131</u> | <u>12</u>                   | <u>659</u> |                             |        |                             |        |
| P 6 <u>25</u>               | <u>135</u> | <u>15</u>                   | <u>732</u> |                             |        |                             |        |
| P 7 <u>30</u>               | <u>142</u> | <u>18</u>                   | <u>800</u> |                             |        |                             |        |
| P 8 <u>35</u>               | <u>153</u> | <u>21</u>                   | <u>868</u> |                             |        |                             |        |
| P 9 <u>40</u>               | <u>154</u> | <u>24</u>                   | <u>936</u> |                             |        |                             |        |
| P10 <u>45</u>               | <u>155</u> | <u>27</u>                   | <u>966</u> |                             |        |                             |        |
| P11 <u>50</u>               | <u>159</u> |                             |            |                             |        |                             |        |
| P12 <u>55</u>               | <u>161</u> |                             |            |                             |        |                             |        |
| P13 <u>60</u>               | <u>163</u> |                             |            |                             |        |                             |        |
| P14                         |            |                             |            |                             |        |                             |        |
| P15                         |            |                             |            |                             |        |                             |        |
| P16                         |            |                             |            |                             |        |                             |        |
| P17                         |            |                             |            |                             |        |                             |        |
| P18                         |            |                             |            |                             |        |                             |        |
| P19                         |            |                             |            |                             |        |                             |        |
| P20                         |            |                             |            |                             |        |                             |        |