



Home Office: Great Bend, Kansas
 P. O. Box 793 Gladstone 3-7903

Company K & E Drilling Company Lease & Well No Davis Ranch # A-1
 Elevation 1717' K.B. Ticket Number 4282
 Date 4-12-64 Sec. 10 Twp. 34S Range 15W County Barber State Kansas
 Test Approved by Elmer Rider Western Representative George Tew

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 4823' to 4870' Total Depth 4870'
 Size Main Hole 7 7/8" Rat Hole _____ Conv. B.T. _____ Damaged Yes No _____ Conv. _____ B.T. Damaged Yes No _____
 Packer Depth 4823 Ft. Size 6 3/4" Packer Depth 4218 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" FH Anchor Length 47 Ft. Size 5 1/2" OD

RECORDERS Depth 4833 Ft. Clock No. 6861 Depth 4836 Ft. Clock No. 144
 Top Make Amerada Cap. 4200# No. 1558 Inside _____ Outside _____ Bottom Make Western Cap. 4000# No. 60 Inside _____ Outside _____
 Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
 Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 11:30A M
 Tool Open I.F.P. From 11:36A M to 11:46A M - Hr. 10 Min. From (B) 31 P.S.I. To (C) 31 P.S.I.
 Tool Closed I.C.I.P. From 11:46A M. to 12:16P M. - Hr. 30 Min. (D) 255 P.S.I.
 Tool Open F.F.P. From 12:16P M. to 1:16P M. 1 Hr. - Min. From (E) 40 P.S.I. To (F) 42 P.S.I.
 Tool Closed F.C.I.P. From 1:16P M. to 1:46P M. - Hr. 30 Min. (G) 120 P.S.I.
 Initial Hydrostatic Pressure (A) 2614 P.S.I. Final Hydrostatic Pressure (H) 2595 P.S.I.

| SURFACE INFORMATION | Size Choke | In. | Max. Press. P.S.I. | Time | Description of Flow |
|---------------------|------------|-----|--------------------|------|---------------------|
| | <u>1/2</u> | | | M. | |
| | | | | M. | |
| | | | | M. | |

BLOW Good throughout test Bottom Choke Size 3/4 in.
 Did Well Flow Yes No _____ Recovery Total Ft. 15' Slightly G.C. Mud

Reversed Out Yes No _____ Mud Type Starch Viscosity 50 Weight 10 Maximum Temp. 122 °F
 EXTRA EQUIPMENT: Dual Packers Yes _____ Safety Joint Yes _____ Jars: Size 4 1/2" OD Make Bowen Ser. No. 2638
 Type Circ. Sub Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes
 Length Drill Pipe 3596 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1200 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
 I. D. Drill Collars _____ in. Length D. S. T. Tool 74 ft.

Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date 4-12-64 Test Ticket No. 4282
 Recorder No. 1558 Capacity 4200# Location 4833 Ft.
 Clock No. 6861 Elevation 1717' K.B. Well Temperature 122 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>2614</u> P.S.I. | Opened Tool | <u>11:30A</u> | <u>11:30 AM</u> |
| B First Initial Flow Pressure | <u>31</u> P.S.I. | First Flow Pressure | <u>10</u> Mins. | <u>10</u> Mins. |
| C First Final Flow Pressure | <u>31</u> P.S.I. | Initial Closed-in Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| D Initial Closed-in Pressure | <u>255</u> P.S.I. | Second Flow Pressure | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>40</u> P.S.I. | Final Closed-in Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| F Second Final Flow Pressure | <u>42</u> P.S.I. | | | |
| G Final Closed-in Pressure | <u>120</u> P.S.I. | | | |
| H Final Hydrostatic Mud | <u>2595</u> P.S.I. | | | |

PRESSURE BREAKDOWN

| | | | |
|--|---|--|---|
| First Flow Press. Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min. | Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min. | Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min. | Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min. |
|--|---|--|---|

| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|---------------|-----------|---------------|------------|---------------|-----------|---------------|------------|
| P 1 <u>0</u> | <u>31</u> | <u>0</u> | <u>31</u> | <u>0</u> | <u>40</u> | <u>0</u> | <u>42</u> |
| P 2 <u>5</u> | <u>31</u> | <u>3</u> | <u>63</u> | <u>5</u> | <u>40</u> | <u>3</u> | <u>48</u> |
| P 3 <u>10</u> | <u>31</u> | <u>6</u> | <u>92</u> | <u>10</u> | <u>40</u> | <u>6</u> | <u>52</u> |
| P 4 | | <u>9</u> | <u>118</u> | <u>15</u> | <u>40</u> | <u>9</u> | <u>63</u> |
| P 5 | | <u>12</u> | <u>141</u> | <u>20</u> | <u>40</u> | <u>12</u> | <u>71</u> |
| P 6 | | <u>15</u> | <u>168</u> | <u>25</u> | <u>41</u> | <u>15</u> | <u>80</u> |
| P 7 | | <u>18</u> | <u>187</u> | <u>30</u> | <u>41</u> | <u>18</u> | <u>92</u> |
| P 8 | | <u>21</u> | <u>208</u> | <u>35</u> | <u>41</u> | <u>21</u> | <u>101</u> |
| P 9 | | <u>24</u> | <u>229</u> | <u>40</u> | <u>41</u> | <u>24</u> | <u>107</u> |
| P10 | | <u>27</u> | <u>242</u> | <u>45</u> | <u>42</u> | <u>27</u> | <u>111</u> |
| P11 | | <u>30</u> | <u>255</u> | <u>50</u> | <u>42</u> | <u>30</u> | <u>120</u> |
| P12 | | | | <u>55</u> | <u>42</u> | | |
| P13 | | | | <u>60</u> | <u>42</u> | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |



Home Office: Great Bend, Kansas
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Company K & E Drilling Company Lease & Well No. Davis Ranch A #1
 Elevation 1717' K.B. Ticket Number 4284
 Date 4-13-64 Sec. 10 Twp. 34S Range 15W County Barber State Kansas
 Test Approved by Elmer Rider Western Representative GBdorge Tew

Formation Test No. 2 O.K. Misrun _____ Interval Tested From 4873' to 4926' Total Depth 4926'
 Size Main Hole 7 7/8" Ret Hole None Conv. B.T. _____ Damaged _____ Yes No _____ Conv. _____ B.T. Damaged _____ Yes No _____
 Packer Depth 4873 Ft. Size 6 3/4" Packer Depth 4868 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" FH Anchor Length 53 Ft. Size 5 1/2" OD - 23'

RECORDERS Depth 4887 Ft. Clock No. 6861 Depth 4890 Ft. Clock No. 144
 Top Make Amerada Cap. 4200# No. 1558 Inside _____ Outside _____ Bottom Make Western Cap. 4000# No. 60 Inside _____ Outside _____
 Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____
 Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____ Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 7:26P M
 Tool Open I.F.P. From 7:27P M to 7:37P M - Hr. 10 Min. From (B) 42 P.S.I. To (C) 42 P.S.I.
 Tool Closed I.C.I.P. From 7:37P M. to 7:57P M. - Hr. 20 Min. (D) 61 P.S.I.
 Tool Open F.F.P. From 7:57P M. to 8:42P M. - Hr. 45 Min. From (E) 42 P.S.I. To (F) 42 P.S.I.
 Tool Closed F.C.I.P. From 8:42P M. to 9:12P M. - Hr. 30 Min. (G) 54 P.S.I.
 Initial Hydrostatic Pressure (A) 2586 P.S.I. Final Hydrostatic Pressure (H) 2571 P.S.I.

| SURFACE INFORMATION | Size Choke | In. | Max. Press. P.S.I. | Time | Description of Flow |
|---------------------|------------|-----|--------------------|-----------|---------------------|
| | <u>1/2</u> | | | <u>M.</u> | |
| | | | | <u>M.</u> | |
| | | | | <u>M.</u> | |

BLOW Weak to dead in 25 mins. Bottom Choke Size 3/4 in.
 Did Well Flow _____ Yes No _____ Recovery Total Ft. 20' Mud _____

Reversed Out _____ Yes No _____ Mud Type Starch Viscosity 43 Weight 9.8 Maximum Temp. 132 °F
 EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 4 1/2" OD Make Bowen Ser. No. 2638
 Type Circ. Sub Plug Did Tool Plug? No Where? _____ Did Packer Hold? Yes
 Length Drill Pipe 3646 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1200 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.
 I. D. Drill Collars _____ in. Length D. S. T. Tool 80 ft.

Remarks _____

WESTERN TESTING CO., INC.
Pressure Data

Date 4-13-64 Test Ticket No. 4284
 Recorder No. 1558 Capacity 4200# Location 4887 Ft.
 Clock No. 6861 Elevation 1717' K.B. Well Temperature 132 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>2586</u> P.S.I. | Opened Tool | <u>7:26 P</u> | <u>7:26 PM</u> |
| B First Initial Flow Pressure | <u>42</u> P.S.I. | First Flow Pressure | <u>10</u> Mins. | <u>10</u> Mins. |
| C First Final Flow Pressure | <u>42</u> P.S.I. | Initial Closed-in Pressure | <u>20</u> Mins. | <u>24</u> Mins. |
| D Initial Closed-in Pressure | <u>61</u> P.S.I. | Second Flow Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| E Second Initial Flow Pressure | <u>42</u> P.S.I. | Final Closed-in Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| F Second Final Flow Pressure | <u>42</u> P.S.I. | | | |
| G Final Closed-in Pressure | <u>54</u> P.S.I. | | | |
| H Final Hydrostatic Mud | <u>2571</u> P.S.I. | | | |

PRESSURE BREAKDOWN

| | | | |
|--|--|---|---|
| First Flow Press. Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min. | Initial Shut-In Breakdown: <u>8</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min. | Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>-</u> Min. | Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>-</u> Min. |
|--|--|---|---|

| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
| P 1 <u>0</u> | <u>42</u> | <u>0</u> | <u>42</u> | <u>0</u> | <u>42</u> | <u>0</u> | <u>42</u> |
| P 2 <u>5</u> | <u>42</u> | <u>3</u> | <u>42</u> | <u>5</u> | <u>42</u> | <u>3</u> | <u>42</u> |
| P 3 <u>10</u> | <u>42</u> | <u>6</u> | <u>43</u> | <u>10</u> | <u>42</u> | <u>6</u> | <u>42</u> |
| P 4 | | <u>9</u> | <u>44</u> | <u>15</u> | <u>42</u> | <u>9</u> | <u>42</u> |
| P 5 | | <u>12</u> | <u>47</u> | <u>20</u> | <u>42</u> | <u>12</u> | <u>42</u> |
| P 6 | | <u>15</u> | <u>51</u> | <u>25</u> | <u>42</u> | <u>15</u> | <u>43</u> |
| P 7 | | <u>18</u> | <u>54</u> | <u>30</u> | <u>42</u> | <u>18</u> | <u>45</u> |
| P 8 | | <u>21</u> | <u>56</u> | <u>35</u> | <u>42</u> | <u>21</u> | <u>47</u> |
| P 9 | | <u>24</u> | <u>61</u> | <u>40</u> | <u>42</u> | <u>24</u> | <u>49</u> |
| P10 | | | | <u>45</u> | <u>42</u> | <u>27</u> | <u>52</u> |
| P11 | | | | | | <u>30</u> | <u>54</u> |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |