



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

Company Abercrombie Drilling, Inc. Lease & Well No. Mathews #1  
Elevation 1933' D.F. Ticket Number 3824  
Date 4-2-64 Sec. 14 Twp. 24 Range 14 County Stafford State Kansas  
Test Approved by Jack K. Wharton Western Representative George Tew

Formation Test No. 1 O.K.  Misrun  Interval Tested From 3768' to 3810' Total Depth 3810'  
Size Main Hole 6 3/4" Rat Hole None Conv.  B.T.  Damaged Yes  No  Conv.  B.T.  Damaged Yes  No   
Packer Depth 3768 Ft. Size 5 1/2" Packer Depth 3763 Ft. Size 5 1/2"  
Straddle Yes  No  Conv.  B.T.  Damaged Yes  No   
Tool Size 4 1/2" OD Tool Jt. Size 3 1/2" IF Anchor Length 42 Ft. Size 4 1/2" OD

RECORDERS Depth 3801 Ft. Clock No. 6861 Depth 3804 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  Depth \_\_\_\_\_ Ft. Clock No. \_\_\_\_\_ Inside  Outside   
Top Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside  Outside  Bottom Make \_\_\_\_\_ Cap. \_\_\_\_\_ No. \_\_\_\_\_ Inside  Outside

Time Set Packer 2:28A M  
Tool Open I.F.P. From 2:30A M to 2:35A M - Hr. 5 Min. From (B) 46 P.S.I. To (C) 46 P.S.I.  
Tool Closed I.C.I.P. From 2:35A M. to 3:05A M. - Hr. 30 Min. (D) 1232 P.S.I.  
Tool Open F.F.P. From 3:05A M. to 4:05A M. 1 Hr. - Min. From (E) 48 P.S.I. To (F) 58 P.S.I.  
Tool Closed F.C.I.P. From 4:05A M. to 4:35A M. - Hr. 30 Min. (G) 1096 P.S.I.  
Initial Hydrostatic Pressure (A) 2039 P.S.I. Final Hydrostatic Pressure (H) 2035 P.S.I.

SURFACE Size Choke 1/2 in. Max. Press. P.S.I. \_\_\_\_\_ Time \_\_\_\_\_ Description of Flow \_\_\_\_\_  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_

BLOW Few bubbles when tool opened Bottom Choke Size 3/4 in.  
Did Well Flow Yes  No  Recovery Total Ft. 15' Mud

Reversed Out Yes  No  Mud Type Starch Viscosity 41 Weight 9.9 Maximum Temp. 115 °F  
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No 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 2872 ft. I.D. Drill Pipe 2 5/8 in. Length Weight Pipe 750 ft. I.D. Weight Pipe 2 5/8 in. Length Drill Collars 120 ft.  
I. D. Drill Collars 2.25 in. Length D. S. T. Tool 68 ft.

Remarks Flushed tool - no help

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

Date 4-2-64 Test Ticket No. 3824  
 Recorder No. 1558 Capacity 4200# Location 3801 Ft.  
 Clock No. 6861 Elevation 1933' D.F. Well Temperature 115 °F

| Point                          | Pressure           |                            | Time Given      | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>2039</u> P.S.I. | Opened Tool                | <u>2:30</u> A M | <u>2:30</u> AM  |
| B First Initial Flow Pressure  | <u>46</u> P.S.I.   | First Flow Pressure        | <u>5</u> Mins.  | <u>5</u> Mins.  |
| C First Final Flow Pressure    | <u>46</u> P.S.I.   | Initial Closed-in Pressure | <u>30</u> Mins. | <u>32</u> Mins. |
| D Initial Closed-in Pressure   | <u>1232</u> P.S.I. | Second Flow Pressure       | <u>60</u> Mins. | <u>59</u> Mins. |
| E Second Initial Flow Pressure | <u>48</u> P.S.I.   | Final Closed-in Pressure   | <u>30</u> Mins. | <u>30</u> Mins. |
| F Second Final Flow Pressure   | <u>58</u> P.S.I.   |                            |                 |                 |
| G Final Closed-in Pressure     | <u>1096</u> P.S.I. |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>2035</u> P.S.I. |                            |                 |                 |

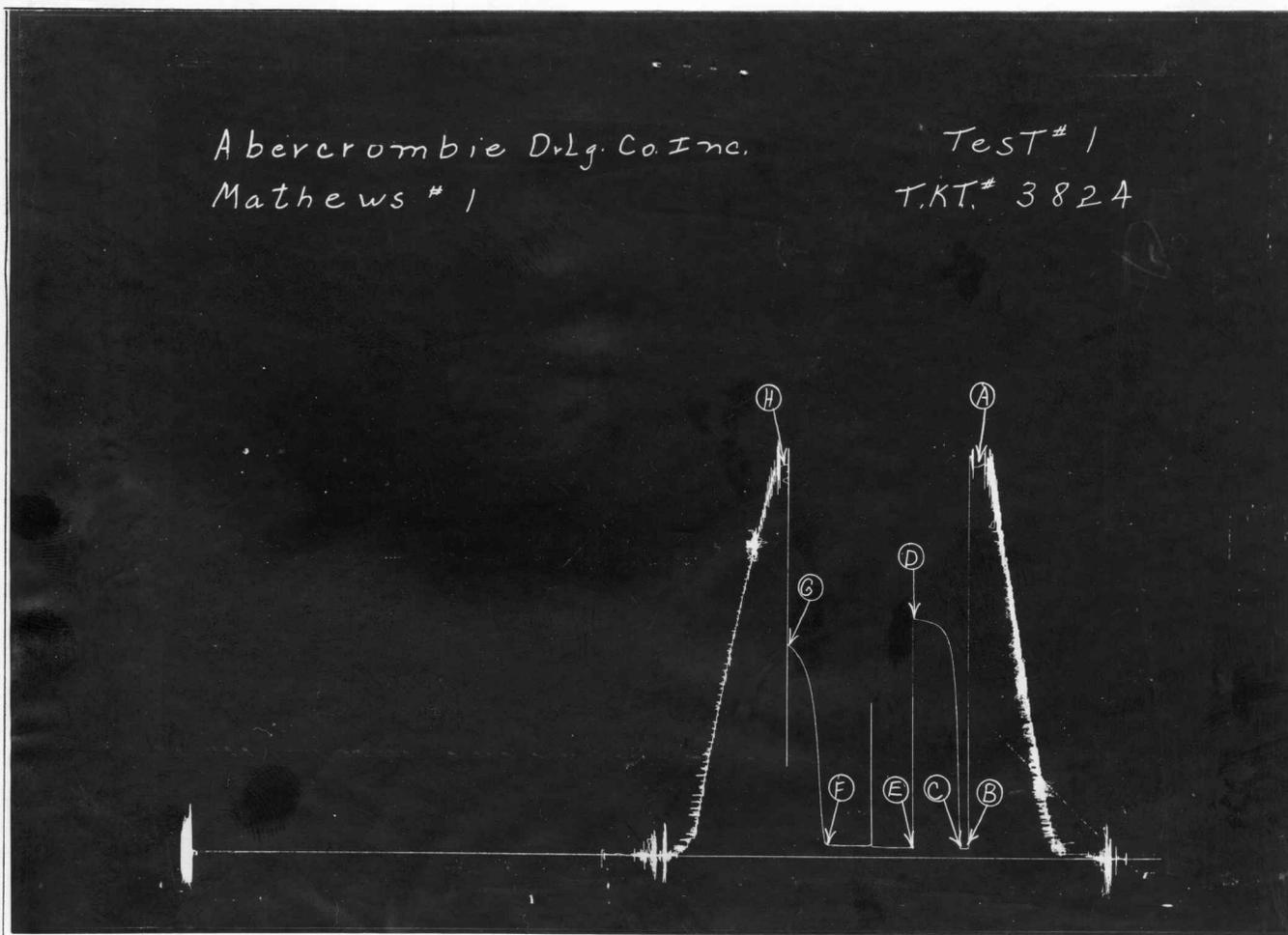
**PRESSURE BREAKDOWN**

|  |   |  |   |
|--|---|--|---|
| <b>First Flow Press.</b><br>Breakdown: <u>1</u> Inc.<br>of <u>5</u> mins. and a<br>final inc. of <u>-</u> Min. | <b>Initial Shut-In</b><br>Breakdown: <u>10</u> Inc.<br>of <u>3</u> mins. and a<br>final inc. of <u>2</u> Min. | <b>Second Flow Pressure</b><br>Breakdown: <u>11</u> Inc.<br>of <u>5</u> mins. and a<br>final inc. of <u>4</u> Min. | <b>Final Shut-In</b><br>Breakdown: <u>10</u> Inc.<br>of <u>3</u> mins. and a<br>final inc. of <u>-</u> Min. |
|--|---|--|---|

| Point Mins.  | Press.    | Point Minutes | Press.      | Point Minutes | Press.    | Point Minutes | Press.      |
|--------------|-----------|---------------|-------------|---------------|-----------|---------------|-------------|
| P 1 <u>0</u> | <u>46</u> | <u>0</u>      | <u>46</u>   | <u>0</u>      | <u>48</u> | <u>0</u>      | <u>58</u>   |
| P 2 <u>5</u> | <u>46</u> | <u>3</u>      | <u>421</u>  | <u>5</u>      | <u>48</u> | <u>3</u>      | <u>200</u>  |
| P 3          |           | <u>6</u>      | <u>956</u>  | <u>10</u>     | <u>48</u> | <u>6</u>      | <u>371</u>  |
| P 4          |           | <u>9</u>      | <u>1112</u> | <u>15</u>     | <u>48</u> | <u>9</u>      | <u>647</u>  |
| P 5          |           | <u>12</u>     | <u>1160</u> | <u>20</u>     | <u>48</u> | <u>12</u>     | <u>831</u>  |
| P 6          |           | <u>15</u>     | <u>1192</u> | <u>25</u>     | <u>50</u> | <u>15</u>     | <u>914</u>  |
| P 7          |           | <u>18</u>     | <u>1209</u> | <u>30</u>     | <u>54</u> | <u>18</u>     | <u>972</u>  |
| P 8          |           | <u>21</u>     | <u>1215</u> | <u>35</u>     | <u>54</u> | <u>21</u>     | <u>1018</u> |
| P 9          |           | <u>24</u>     | <u>1221</u> | <u>X 40</u>   | <u>54</u> | <u>24</u>     | <u>1048</u> |
| P10          |           | <u>27</u>     | <u>1228</u> | <u>45</u>     | <u>56</u> | <u>27</u>     | <u>1075</u> |
| P11          |           | <u>30</u>     | <u>1230</u> | <u>50</u>     | <u>56</u> | <u>30</u>     | <u>1096</u> |
| P12          |           | <u>32</u>     | <u>1232</u> | <u>55</u>     | <u>58</u> |               |             |
| P13          |           |               |             | <u>59</u>     | <u>58</u> |               |             |
| P14          |           |               |             |               |           |               |             |
| P15          |           |               |             |               |           |               |             |
| P16          |           |               |             |               |           |               |             |
| P17          |           |               |             |               |           |               |             |
| P18          |           |               |             |               |           |               |             |
| P19          |           |               |             |               |           |               |             |
| P20          |           |               |             |               |           |               |             |

Abercrombie Drilling Co. Inc.  
Mathews # 1

Test # 1  
T.K.T. # 3824



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE |     |
|--|----------|-----|
| (A) Initial Hydrostatic Mud .....      | 2039     | PSI |
| (B) First Initial Flow Pressure .....  | 46       | PSI |
| (C) First Final Flow Pressure .....    | 46       | PSI |
| (D) Initial Closed-in Pressure .....   | 1232     | PSI |
| (E) Second Initial Flow Pressure ..... | 48       | PSI |
| (F) Second Final Flow Pressure .....   | 58       | PSI |
| (G) Final Closed-in Pressure .....     | 1096     | PSI |
| (H) Final Hydrostatic Mud .....        | 2035     | PSI |