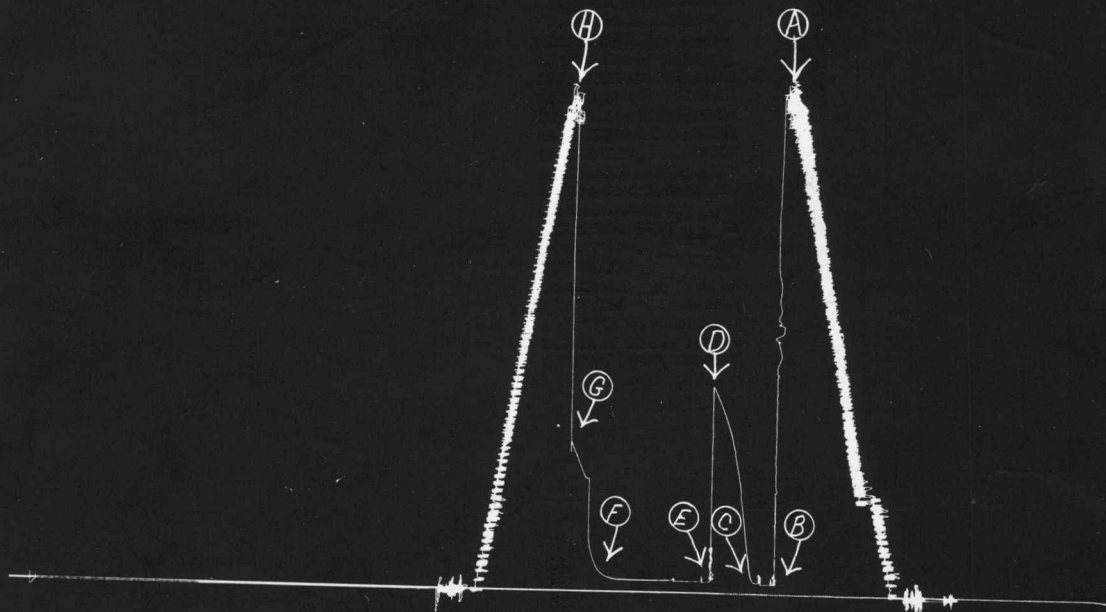


Pickrell Drlg Co.  
Johnson "E" #1

TKT-7666  
Test #1





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

Company **Pickrell Drilling Company** Lease & Well No. **Johnson #E-1**  
Elevation **2274 Kelly Bushings** Formation **Mississippi** Ticket Number **7666**  
Date **Sept. 21, 1966** Sec. **17** Twp. **20s** Range **23w** County **Ness** State **Kansas**  
Test Approved by **Don Bowles** Western Representative **Dean Blagrove**

Formation Test No. **1** O.K. ☒ Misrun ☐ Interval Tested From **4331'** to **4370'** Total Depth **4370'**  
Size Main Hole **7 7/8** Rat Hole **none** Conv. ☒ B.T. ☐ Damaged ☒ Yes ☒ No ☐ Conv. ☒ B.T. ☐ Damaged ☒ Yes ☒ No ☐  
Packer Depth **4326** Ft. Size **6 3/4** Packer Depth **4331** 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 FH** Anchor Length **39** Ft. Size **5 1/2 OD**  
RECORDERS Depth **4361** Ft. Clock No. **6892** Depth **4364** Ft. Clock No. **6774**  
Top Make **Amerada** Cap. **4150** No. **2606** Inside ☒ Outside ☐ Bottom Make **Amerada** Cap. **4300** No. **1567** 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 **12:29 A** M  
Tool Open I.F.P. From **12:30** M to **12:40** M Hr. **10** Min. From (B) **64** P.S.I. To (C) **70** P.S.I.  
Tool Closed I.C.I.P. From **12:40** M. to **1:10A** M. Hr. **30** Min. (D) **996** P.S.I.  
Tool Open F.F.P. From **1:10A** M. to **2:10A** M. Hr. **1** Min. From (E) **72** P.S.I. To (F) **75** P.S.I.  
Tool Closed F.C.I.P. From **2:10A** M. to **2:40A** M. Hr. **30** Min. (G) **721** P.S.I.  
Initial Hydrostatic Pressure (A) **2344** P.S.I. Final Hydrostatic Pressure (H) **2322** P.S.I.

SURFACE Size Choke **1/8** In. Max. Press. P.S.I. Time Description of Flow  
INFORMATION ☐ M. ☐ M. ☐ M.

BLOW **Weak for 25 minutes.** Bottom Choke Size **3/4** In.  
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. **30' drilling mud with scum of oil**

Reversed Out ☒ Yes ☐ No Mud Type **starch** Viscosity **48** Weight **10.2** Maximum Temp. **121** °F  
EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☐ Jars: Size ☐ Make ☐ Ser. No. ☐  
Type Circ. Sub. **plug** Did Tool Plug? ☐ Where? **1065** Did Packer Hold? ☒  
Length Drill Pipe ☐ ft. I.D. Drill Pipe ☐ in Length Weight Pipe **2.7** ft. I.D. Weight Pipe ☐ in Length Drill Collars **none** ft.  
I. D. Drill Collars ☐ in. Length D.S.T. Tool **57** ft.

Remarks

# WESTERN TESTING CO., INC.

## Pressure Data

Date September 21, 1966 Recorder No. 2606 Clock No. 6892 Capacity 4150 Elevation 2274 Kelly Bushings Test Ticket No. 7666 Location 4361 Well Temperature 121 °F

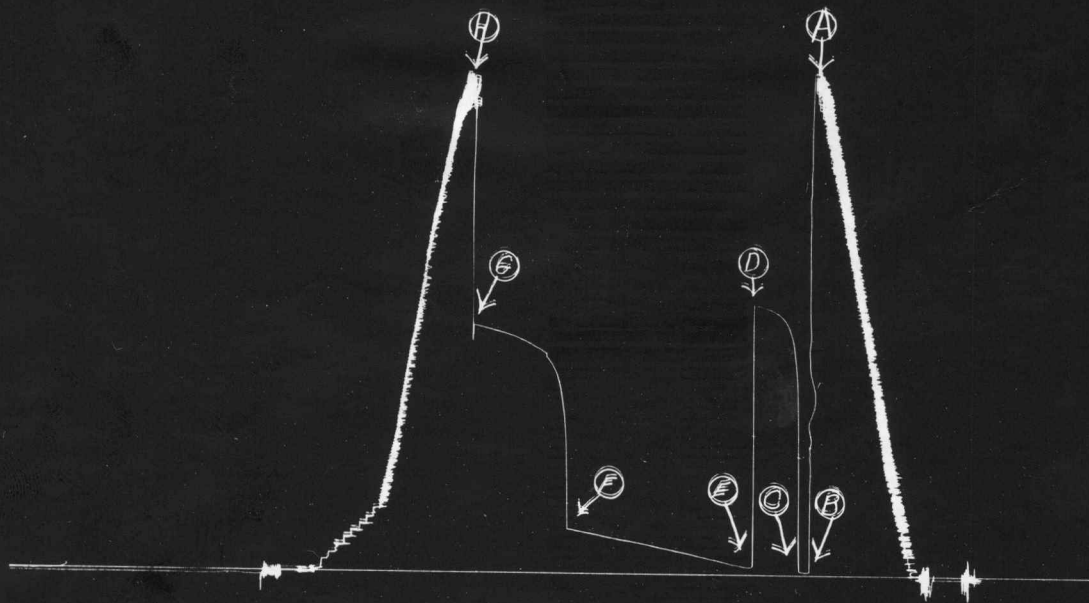
| Point                          | Pressure           | Time Given      | Time Computed   |
|--------------------------------|--------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>2344</u> P.S.I. | <u>12:29A</u> M |                 |
| B First Initial Flow Pressure  | <u>64</u> P.S.I.   | <u>10</u> Mins. | <u>12</u> Mins. |
| C First Final Flow Pressure    | <u>70</u> P.S.I.   | <u>30</u> Mins. | <u>29</u> Mins. |
| D Initial Closed-in Pressure   | <u>996</u> P.S.I.  | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>72</u> P.S.I.   | <u>30</u> Mins. | <u>29</u> Mins. |
| F Second Final Flow Pressure   | <u>75</u> P.S.I.   |                 |                 |
| G Final Closed-in Pressure     | <u>721</u> P.S.I.  |                 |                 |
| H Final Hydrostatic Mud        | <u>2322</u> P.S.I. |                 |                 |

## PRESSURE BREAKDOWN

| First Flow Press.           |           | Initial Shut-In             |            | Second Flow Pressure        |           | Final Shut-In               |            |
|-----------------------------|-----------|-----------------------------|------------|-----------------------------|-----------|-----------------------------|------------|
| Breakdown: <u>2</u> Inc.    |           | Breakdown: <u>9</u> Inc.    |            | Breakdown: <u>12</u> Inc.   |           | Breakdown: <u>9</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>2</u> Min. |           | final inc. of <u>2</u> Min. |            | final inc. of <u>2</u> Min. |           | final inc. of <u>2</u> Min. |            |
| Point Mins.                 | Press.    | Point Minutes               | Press.     | Point Minutes               | Press.    | Point Minutes               | Press.     |
| P 1 <u>0</u>                | <u>64</u> | <u>0</u>                    | <u>70</u>  | <u>0</u>                    | <u>72</u> | <u>0</u>                    | <u>75</u>  |
| P 2 <u>5</u>                | <u>64</u> | <u>3</u>                    | <u>124</u> | <u>5</u>                    | <u>72</u> | <u>3</u>                    | <u>87</u>  |
| P 3 <u>10</u>               | <u>70</u> | <u>6</u>                    | <u>299</u> | <u>10</u>                   | <u>75</u> | <u>6</u>                    | <u>97</u>  |
| P 4 <u>12</u>               | <u>70</u> | <u>9</u>                    | <u>458</u> | <u>15</u>                   | <u>75</u> | <u>9</u>                    | <u>122</u> |
| P 5                         |           | <u>12</u>                   | <u>607</u> | <u>20</u>                   | <u>75</u> | <u>12</u>                   | <u>172</u> |
| P 6                         |           | <u>15</u>                   | <u>719</u> | <u>25</u>                   | <u>75</u> | <u>15</u>                   | <u>318</u> |
| P 7                         |           | <u>18</u>                   | <u>798</u> | <u>30</u>                   | <u>75</u> | <u>18</u>                   | <u>557</u> |
| P 8                         |           | <u>21</u>                   | <u>864</u> | <u>35</u>                   | <u>75</u> | <u>21</u>                   | <u>615</u> |
| P 9                         |           | <u>24</u>                   | <u>925</u> | <u>40</u>                   | <u>78</u> | <u>24</u>                   | <u>671</u> |
| P10                         |           | <u>27</u>                   | <u>968</u> | <u>45</u>                   | <u>75</u> | <u>27</u>                   | <u>704</u> |
| P11                         |           | <u>29</u>                   | <u>996</u> | <u>50</u>                   | <u>75</u> | <u>29</u>                   | <u>721</u> |
| P12                         |           |                             |            | <u>55</u>                   | <u>75</u> |                             |            |
| P13                         |           |                             |            | <u>60</u>                   | <u>75</u> |                             |            |
| P14                         |           |                             |            |                             |           |                             |            |
| P15                         |           |                             |            |                             |           |                             |            |
| P16                         |           |                             |            |                             |           |                             |            |
| P17                         |           |                             |            |                             |           |                             |            |
| P18                         |           |                             |            |                             |           |                             |            |
| P19                         |           |                             |            |                             |           |                             |            |
| P20                         |           |                             |            |                             |           |                             |            |

Pickrell Drlg Co.  
Johnson "E" #7

TKT-7667  
Test #2





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

Company **Pickrell Drilling Company** Lease & Well No. **Johnson #E-1**  
Elevation **2274 Kelly Bushings** Formation **Mississippi** Ticket Number **7667**  
Date **Sept. 21, 1966** Sec. **17** Twp. **20s** Range **23w** County **Ness** State **Kansas**  
Test Approved by **Dan Bowles** Western Representative **Dean Blagrove**

Formation Test No. **2** O.K. ☒ Misrun Interval Tested From **4370'** to **4385'** Total Depth **4385'**  
Size Main Hole **7 7/8** Rat Hole **none** Conv. ☒ B.T. Damaged Yes ☒ No Conv. ☒ B.T. Damaged ☒ Yes ☒ No  
Packer Depth **4365** Ft. Size **6 3/4** Packer Depth **4370** 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 FH** Anchor Length **15** Ft. Size **5 1/2 OD**  
RECORDERS Depth **4376** Ft. Clock No. **6892** Depth **4379** Ft. Clock No. **6774**  
Top Make **Amerada** Cap. **4150** No. **2606** Inside Outside Bottom Make **Amerada** Cap. **4300** No. **1567** 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 **1:29 P** M  
Tool Open I.F.P. From **1:30P** M to **1:35** M Hr. **5** Min. From (B) **52** P.S.I. To (C) **52** P.S.I.  
Tool Closed I.C.I.P. From **1:35P** M. to **2:05P** M. Hr. **30** Min. (D) **1329** P.S.I.  
Tool Open F.F.P. From **2:05P** M. to **4:05P** M. **2** Hr. Min. From (E) **74** P.S.I. To (F) **238** P.S.I.  
Tool Closed F.C.I.P. From **4:05P** M. to **5:05** M. **1** Hr. Min. (G) **1223** P.S.I.  
Initial Hydrostatic Pressure (A) **2372** P.S.I. Final Hydrostatic Pressure (H) **2353** P.S.I.

SURFACE Size Choke **1/4** In. Max. Press. P.S.I. Time Description of Flow  
INFORMATION \_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_  
\_\_\_\_\_ M. \_\_\_\_\_

BLOW **Weak increasing to good.** Bottom Choke Size **3/4** In.

Did Well Flow Yes ☒ No Recovery Total Ft. **300' clean gassy oil; 275' muddy oil;**  
**325' gas in pipe** Mud

Reversed Out Yes ☒ No Mud Type **starch** Viscosity **43** Weight **10.3** Maximum Temp. **126** °F

EXTRA EQUIPMENT: Dual Packers **yes** Safety Joint **no** Jars: Size **no** Make Ser. No.

Type Circ. Sub. **plug** Did Tool Plug? **no** Where? Did Packer Hold? **yes**

Length Drill Pipe \_\_\_\_\_ ft. I.D. Drill Pipe **3.8** in Length Weight Pipe **1065** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars **none** ft.

I. D. Drill Collars \_\_\_\_\_ in. Length D.S.T. Tool **33** ft.

Remarks

# WESTERN TESTING CO., INC.

## Pressure Data

Date September 21, 1966 Test Ticket No. 7667  
 Recorder No. 2606 Capacity 4150 Location 4376 Ft.  
 Clock No. 6892 Elevation 2274 Kelly Bushings Well Temperature 126 °F

| Point                          | Pressure           | Time Given       | Time Computed    |
|--------------------------------|--------------------|------------------|------------------|
| A Initial Hydrostatic Mud      | <u>2372</u> P.S.I. | <u>1:29 P</u> M  |                  |
| B First Initial Flow Pressure  | <u>52</u> P.S.I.   | <u>5</u> Mins.   | <u>7</u> Mins.   |
| C First Final Flow Pressure    | <u>52</u> P.S.I.   | <u>30</u> Mins.  | <u>30</u> Mins.  |
| D Initial Closed-in Pressure   | <u>1329</u> P.S.I. | <u>120</u> Mins. | <u>120</u> Mins. |
| E Second Initial Flow Pressure | <u>74</u> P.S.I.   | <u>60</u> Mins.  | <u>60</u> Mins.  |
| F Second Final Flow Pressure   | <u>238</u> P.S.I.  |                  |                  |
| G Final Closed-in Pressure     | <u>1223</u> P.S.I. |                  |                  |
| H Final Hydrostatic Mud        | <u>2353</u> P.S.I. |                  |                  |

### PRESSURE BREAKDOWN

| First Flow Press.           |           | Initial Shut-In             |             | Second Flow Pressure        |            | Final Shut-In               |             |
|-----------------------------|-----------|-----------------------------|-------------|-----------------------------|------------|-----------------------------|-------------|
| Breakdown: <u>1</u> Inc.    |           | Breakdown: <u>10</u> Inc.   |             | Breakdown: <u>24</u> Inc.   |            | Breakdown: <u>20</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>2</u> Min. |           | final inc. of <u>■</u> Min. |             | final inc. of <u>■</u> Min. |            | final inc. of <u>■</u> Min. |             |
| Point Mins.                 | Press.    | Point Minutes               | Press.      | Point Minutes               | Press.     | Point Minutes               | Press.      |
| P 1 <u>0</u>                | <u>52</u> | <u>0</u>                    | <u>52</u>   | <u>0</u>                    | <u>74</u>  | <u>0</u>                    | <u>238</u>  |
| P 2 <u>5</u>                | <u>52</u> | <u>3</u>                    | <u>873</u>  | <u>5</u>                    | <u>74</u>  | <u>3</u>                    | <u>756</u>  |
| P 3 <u>7</u>                | <u>52</u> | <u>6</u>                    | <u>1138</u> | <u>10</u>                   | <u>79</u>  | <u>6</u>                    | <u>920</u>  |
| P 4                         |           | <u>9</u>                    | <u>1221</u> | <u>15</u>                   | <u>87</u>  | <u>9</u>                    | <u>1002</u> |
| P 5                         |           | <u>12</u>                   | <u>1260</u> | <u>20</u>                   | <u>95</u>  | <u>12</u>                   | <u>1043</u> |
| P 6                         |           | <u>15</u>                   | <u>1281</u> | <u>25</u>                   | <u>100</u> | <u>15</u>                   | <u>1074</u> |
| P 7                         |           | <u>18</u>                   | <u>1298</u> | <u>30</u>                   | <u>114</u> | <u>18</u>                   | <u>1095</u> |
| P 8                         |           | <u>21</u>                   | <u>1308</u> | <u>35</u>                   | <u>122</u> | <u>21</u>                   | <u>1111</u> |
| P 9                         |           | <u>24</u>                   | <u>1316</u> | <u>40</u>                   | <u>131</u> | <u>24</u>                   | <u>1126</u> |
| P 10                        |           | <u>27</u>                   | <u>1323</u> | <u>45</u>                   | <u>139</u> | <u>27</u>                   | <u>1140</u> |
| P 11                        |           | <u>30</u>                   | <u>1329</u> | <u>50</u>                   | <u>147</u> | <u>30</u>                   | <u>1153</u> |
| P 12                        |           |                             |             | <u>55</u>                   | <u>155</u> | <u>33</u>                   | <u>1163</u> |
| P 13                        |           |                             |             | <u>60</u>                   | <u>163</u> | <u>36</u>                   | <u>1171</u> |
| P 14                        |           |                             |             | <u>65</u>                   | <u>172</u> | <u>39</u>                   | <u>1180</u> |
| P 15                        |           |                             |             | <u>70</u>                   | <u>178</u> | <u>42</u>                   | <u>1188</u> |
| P 16                        |           |                             |             | <u>75</u>                   | <u>187</u> | <u>45</u>                   | <u>1196</u> |
| P 17                        |           |                             |             | <u>80</u>                   | <u>193</u> | <u>48</u>                   | <u>1201</u> |
| P 18                        |           |                             |             | <u>85</u>                   | <u>199</u> | <u>51</u>                   | <u>1207</u> |
| P 19                        |           |                             |             | <u>90</u>                   | <u>205</u> | <u>54</u>                   | <u>1213</u> |
| P 20                        |           |                             |             | <u>95</u>                   | <u>214</u> | <u>57</u>                   | <u>1215</u> |
|                             |           |                             |             | <u>100</u>                  | <u>220</u> | <u>60</u>                   | <u>1223</u> |
|                             |           |                             |             | <u>105</u>                  | <u>226</u> |                             |             |
|                             |           |                             |             | <u>110</u>                  | <u>235</u> |                             |             |
|                             |           |                             |             | <u>115</u>                  | <u>237</u> |                             |             |
|                             |           |                             |             | <u>120</u>                  | <u>238</u> |                             |             |