



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Beren Corporation

Mark #1

Company 2631 Kelly Bushing Lansing- I & J Lease & Well No. - Ticket No. 6560  
Elevation - Formation - Effective Pay - Ft. -  
Date 10-18-80 Sec. 23 Twp. 14S Range 29W County Gove State Kansas  
Test Approved by Patrick Balthazor Western Representative Roger Lisenby

Formation Test No. 1 Interval Tested from 3949 ft. to 4009 ft. Total Depth 4009 ft.

Packer Depth 3944 ft. Size 6 3/4 in. Packer Depth 3949 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3966 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 3969 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor Pioneer Rig #2 Drill Collar Length - I. D. - in.

Mud Type Drispac Viscosity 43 Weight Pipe Length 251 I. D. 2.7 in.

Weight 9.3 Water Loss 8.0 cc. Drill Pipe Length 3677 I. D. 3.8 in.

Chlorides 12,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 60 ft. Size 5 1/2 w/ JT w/n. T Pipe

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 FH in.

Blow: Weak blow 1/2 inch in bucket slowly died in 52 minutes. Flushed tool - very weak rest of initial flow period. No blow final flow period. Flushed tool after 5 minutes still no blow.

Recovered 10 ft. of mud with a few oil spots

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 3:54 A.M. P.M. Time Started Off Bottom 6:57 A.M. P.M. Maximum Temperature 126

Initial Hydrostatic Pressure 2017 (A) - P.S.I.

Initial Flow Period 60 Minutes (B) 50 P.S.I. to (C) 45 P.S.I.

Initial Closed In Period 60 Minutes (D) 778 P.S.I.

Final Flow Period 35 Minutes (E) 60 P.S.I. to (F) 48 P.S.I.

Final Closed In Period 27 Minutes (G) 315 P.S.I.

Final Hydrostatic Pressure 1959 (H) - P.S.I.

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GREAT BEND

# WESTERN TESTING CO., INC.

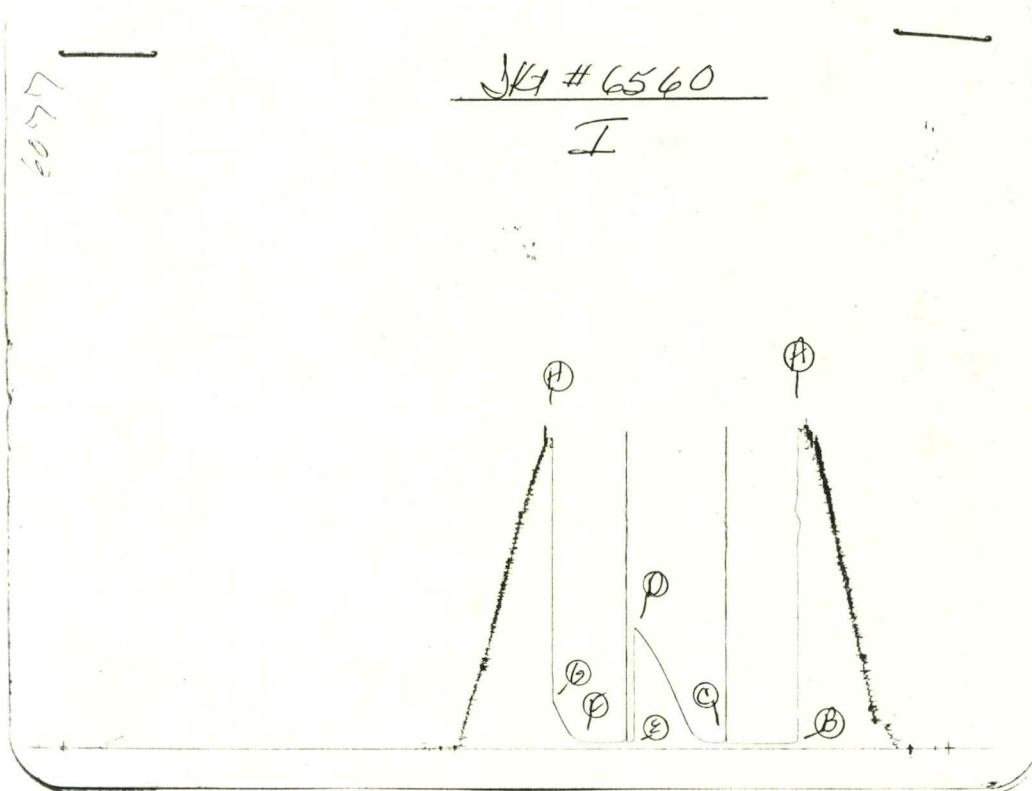
## Pressure Data

Date 10-18-80 Test Ticket No. 6560  
 Recorder No. 6077 Capacity 4700 Location 3966 Ft.  
 Clock No. - Elevation 2631 Kelly Bushing Well Temperature 126 °F

| Point                          | Pressure    | Time Given | Time Computed |
|--------------------------------|-------------|------------|---------------|
| A Initial Hydrostatic Mud      | 2017 P.S.I. | 3:54P      | M             |
| B First Initial Flow Pressure  | 50 P.S.I.   | 60 Mins    | 60 Mins.      |
| C First Final Flow Pressure    | 45 P.S.I.   | 60 Mins    | 60 Mins.      |
| D Initial Closed-in Pressure   | 778 P.S.I.  | 30 Mins    | 35 Mins.      |
| E Second Initial Flow Pressure | 60 P.S.I.   | 30 Mins    | 27 Mins.      |
| F Second Final Flow Pressure   | 48 P.S.I.   |            |               |
| G Final Closed-in Pressure     | 315 P.S.I.  |            |               |
| H Final Hydrostatic Mud        | 1959 P.S.I. |            |               |

## PRESSURE BREAKDOWN

| First Flow Pressure         |                     | Initial Shut-In             |            | Second Flow Pressure        |                     | Final Shut-In               |            |
|-----------------------------|---------------------|-----------------------------|------------|-----------------------------|---------------------|-----------------------------|------------|
| Breakdown: <u>12</u> Inc.   |                     | Breakdown: <u>20</u> Inc.   |            | Breakdown: <u>7</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>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>50</u>           | <u>0</u>                    | <u>45</u>  | <u>0</u>                    | <u>60</u>           | <u>0</u>                    | <u>48</u>  |
| P 2 <u>5</u>                | <u>43</u>           | <u>3</u>                    | <u>45</u>  | <u>5</u>                    | <u>Flushed Tool</u> | <u>3</u>                    | <u>52</u>  |
| P 3 <u>10</u>               | <u>40</u>           | <u>6</u>                    | <u>45</u>  | <u>10</u>                   | <u>50</u>           | <u>6</u>                    | <u>63</u>  |
| P 4 <u>15</u>               | <u>40</u>           | <u>9</u>                    | <u>53</u>  | <u>15</u>                   | <u>48</u>           | <u>9</u>                    | <u>78</u>  |
| P 5 <u>20</u>               | <u>40</u>           | <u>12</u>                   | <u>63</u>  | <u>20</u>                   | <u>48</u>           | <u>12</u>                   | <u>98</u>  |
| P 6 <u>25</u>               | <u>40</u>           | <u>15</u>                   | <u>80</u>  | <u>25</u>                   | <u>48</u>           | <u>15</u>                   | <u>140</u> |
| P 7 <u>30</u>               | <u>40</u>           | <u>18</u>                   | <u>103</u> | <u>30</u>                   | <u>48</u>           | <u>18</u>                   | <u>190</u> |
| P 8 <u>35</u>               | <u>40</u>           | <u>21</u>                   | <u>148</u> | <u>35</u>                   | <u>48</u>           | <u>21</u>                   | <u>240</u> |
| P 9 <u>40</u>               | <u>40</u>           | <u>24</u>                   | <u>208</u> |                             |                     | <u>24</u>                   | <u>278</u> |
| P10 <u>45</u>               | <u>40</u>           | <u>27</u>                   | <u>260</u> |                             |                     | <u>27</u>                   | <u>315</u> |
| P11 <u>50</u>               | <u>40</u>           | <u>30</u>                   | <u>318</u> |                             |                     |                             |            |
| P12 <u>55</u>               | <u>Flushed Tool</u> | <u>33</u>                   | <u>378</u> |                             |                     |                             |            |
| P13 <u>60</u>               | <u>45</u>           | <u>36</u>                   | <u>435</u> |                             |                     |                             |            |
| P14                         |                     | <u>39</u>                   | <u>490</u> |                             |                     |                             |            |
| P15                         |                     | <u>42</u>                   | <u>539</u> |                             |                     |                             |            |
| P16                         |                     | <u>45</u>                   | <u>587</u> |                             |                     |                             |            |
| P17                         |                     | <u>48</u>                   | <u>628</u> |                             |                     |                             |            |
| P18                         |                     | <u>51</u>                   | <u>669</u> |                             |                     |                             |            |
| P19                         |                     | <u>54</u>                   | <u>705</u> |                             |                     |                             |            |
| P20                         |                     | <u>57</u>                   | <u>742</u> |                             |                     |                             |            |
|                             |                     | <u>60</u>                   | <u>778</u> |                             |                     |                             |            |



This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |
|----------------------------------------|---------------|----------------|
|                                        | Field Reading | Office Reading |
| (A) Initial Hydrostatic Mud .....      | 2011          | 2017           |
| (B) First Initial Flow Pressure .....  | 36            | 50             |
| (C) First Final Flow Pressure .....    | 49            | 45             |
| (D) Initial Closed-in Pressure .....   | 780           | 778            |
| (E) Second Initial Flow Pressure ..... | 49            | 60             |
| (F) Second Final Flow Pressure .....   | 49            | 48             |
| (G) Final Closed-in Pressure .....     | 330           | 315            |
| (H) Final Hydrostatic Mud .....        | 1976          | 1959           |

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P.O. Box 1599 (316) 262-5861

NE-SE-SE  
Company Beren Corporation Lease & Well No. Mark #1  
Elevation 2631 Kelly Bushing Formation Lansing "K" & "L" Effective Pay -- Ft. Ticket No. 6561  
Date 10/19/80 Sec. 23 Twp 14S Range 29W County Gove State Kansas  
Test Approved by Partick Balthazor Western Representative Roger Lisenby  
Formation Test No. 2 Interval Tested from 4017 ft. to 4084 ft. Total Depth 4084 ft.  
Packer Depth 4079 ft. Size 6 3/4 in. Packer Depth 4017 ft. Size 6 3/4 in.  
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.  
Depth of Selective Zone Set -  
Top Recorder Depth (Inside) 4026 ft. Recorder Number 6077 Cap. 4700  
Bottom Recorder Depth (Outside) 4029 ft. Recorder Number 1051 Cap. 4250  
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -  
Drilling Contractor Pioneer Drilling Rig #2 Drill Collar Length - I. D. - in.  
Mud Type drispac Viscosity 51 Weight Pipe Length 251 I. D. 2.7 in.  
Weight 9.7 Water Loss 8.4 cc. Drill Pipe Length 3745 I. D. 3.8 in.  
Chlorides 14,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.  
Jars: Make - Serial Number - Anchor Length 67 ft. Size 5 1/2 with Jt. in. Wt. Pi  
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 FH in.

Weak blow slowly increasing to eight inches in bucket on initial flow period. Weak blow  
Blow: slowly increasing to five inches in bucket on final flow period.

|           |     |        |                                      |                                         |
|-----------|-----|--------|--------------------------------------|-----------------------------------------|
| Recovered | 50  | ft. of | gas in pipe                          |                                         |
| Recovered | 10  | ft. of | oil and gas cut mud                  | 35% oil; 45% mud; 20% gas               |
| Recovered | 60  | ft. of | oil and gas cut mud                  | 5% oil; 65% mud; 30% water              |
| Recovered | 180 | ft. of | slightly oil and gas cut muddy water | 2% oil; 50% mud; 48% water              |
| Recovered | 60  | ft. of | mud cut water                        | 90% water; 10% mud Chlorides 39,000 ppm |

Remarks:

Time Set Packer(s) 10:17 A.M. Time Started Off Bottom 2:20 P.M. Maximum Temperature 129°  
Initial Hydrostatic Pressure ..... (A) 2083 P.S.I.  
Initial Flow Period ..... Minutes 60 (B) 52 P.S.I. to (C) 101 P.S.I.  
Initial Closed In Period ..... Minutes 60 (D) 1074 P.S.I.  
Final Flow Period ..... Minutes 60 (E) 150 P.S.I. to (F) 159 P.S.I.  
Final Closed In Period ..... Minutes 63 (G) 1032 P.S.I.  
Final Hydrostatic Pressure ..... (H) 2034 P.S.I.

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Division

# WESTERN TESTING CO., INC.

## Pressure Data

6561

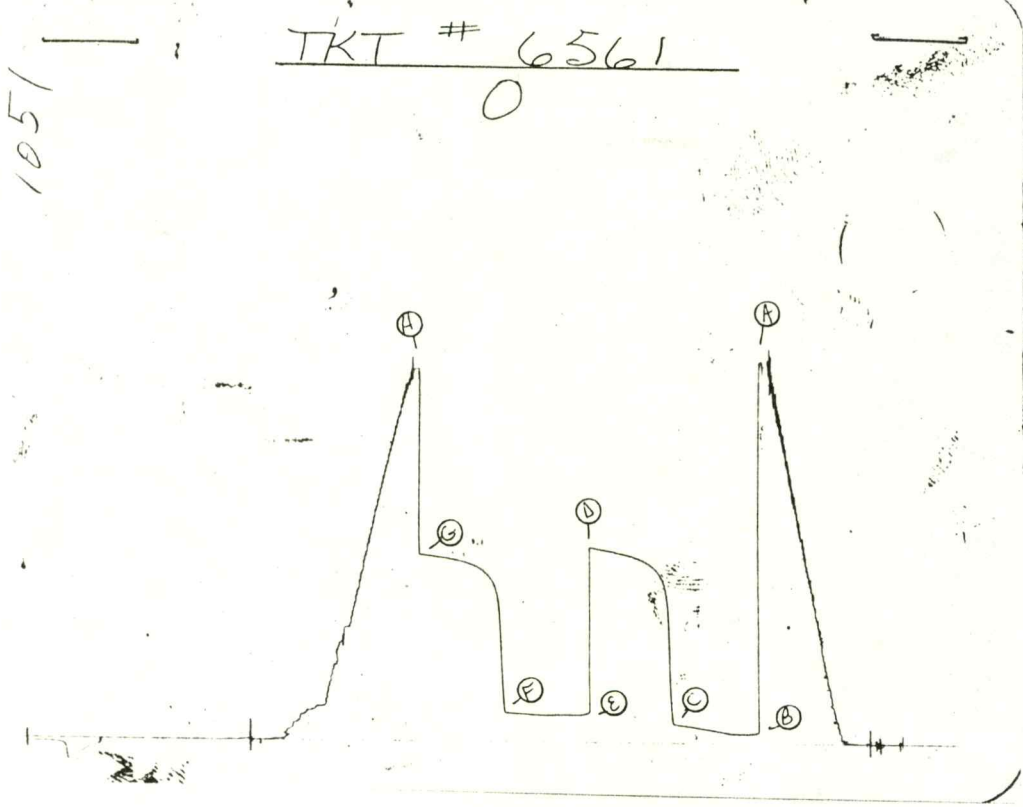
Date 10-19-80 Test Ticket No. 4029  
 Recorder No. 1051 Capacity 4250 Location 4029 Ft.  
 Clock No. - Elevation 2631 Kelly Bushing Well Temperature 129 °F

| Point                          | Pressure    |        | Time Given    | Time Computed |
|--------------------------------|-------------|--------|---------------|---------------|
| A Initial Hydrostatic Mud      | <u>2083</u> | P.S.I. | <u>10:17A</u> | <u>M</u>      |
| B First Initial Flow Pressure  | <u>52</u>   | P.S.I. | <u>60</u>     | <u>60</u>     |
| C First Final Flow Pressure    | <u>101</u>  | P.S.I. | <u>60</u>     | <u>60</u>     |
| D Initial Closed-in Pressure   | <u>1074</u> | P.S.I. | <u>60</u>     | <u>60</u>     |
| E Second Initial Flow Pressure | <u>150</u>  | P.S.I. | <u>60</u>     | <u>63</u>     |
| F Second Final Flow Pressure   | <u>159</u>  | P.S.I. |               |               |
| G Final Closed-in Pressure     | <u>1032</u> | P.S.I. |               |               |
| H Final Hydrostatic Mud        | <u>2034</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>20</u> Inc.   |             | Breakdown: <u>12</u> Inc.   |            | Breakdown: <u>21</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                       | Press.     | Point                       | Press.      | Point                       | Press.     | Point                       | Press.      |
| Minutes                     |            | Minutes                     |             | Minutes                     |            | Minutes                     |             |
| P 1 <u>0</u>                | <u>52</u>  | <u>0</u>                    | <u>101</u>  | <u>0</u>                    | <u>150</u> | <u>0</u>                    | <u>159</u>  |
| P 2 <u>5</u>                | <u>52</u>  | <u>3</u>                    | <u>392</u>  | <u>5</u>                    | <u>150</u> | <u>3</u>                    | <u>427</u>  |
| P 3 <u>10</u>               | <u>52</u>  | <u>6</u>                    | <u>788</u>  | <u>10</u>                   | <u>150</u> | <u>6</u>                    | <u>767</u>  |
| P 4 <u>15</u>               | <u>52</u>  | <u>9</u>                    | <u>889</u>  | <u>15</u>                   | <u>150</u> | <u>9</u>                    | <u>868</u>  |
| P 5 <u>20</u>               | <u>52</u>  | <u>12</u>                   | <u>931</u>  | <u>20</u>                   | <u>150</u> | <u>12</u>                   | <u>906</u>  |
| P 6 <u>25</u>               | <u>59</u>  | <u>15</u>                   | <u>959</u>  | <u>25</u>                   | <u>150</u> | <u>15</u>                   | <u>934</u>  |
| P 7 <u>30</u>               | <u>67</u>  | <u>18</u>                   | <u>978</u>  | <u>30</u>                   | <u>150</u> | <u>18</u>                   | <u>953</u>  |
| P 8 <u>35</u>               | <u>73</u>  | <u>21</u>                   | <u>993</u>  | <u>35</u>                   | <u>150</u> | <u>21</u>                   | <u>967</u>  |
| P 9 <u>40</u>               | <u>77</u>  | <u>24</u>                   | <u>1006</u> | <u>40</u>                   | <u>150</u> | <u>24</u>                   | <u>977</u>  |
| P10 <u>45</u>               | <u>84</u>  | <u>27</u>                   | <u>1015</u> | <u>45</u>                   | <u>155</u> | <u>27</u>                   | <u>985</u>  |
| P11 <u>50</u>               | <u>91</u>  | <u>30</u>                   | <u>1024</u> | <u>50</u>                   | <u>155</u> | <u>30</u>                   | <u>993</u>  |
| P12 <u>55</u>               | <u>96</u>  | <u>33</u>                   | <u>1032</u> | <u>55</u>                   | <u>157</u> | <u>33</u>                   | <u>998</u>  |
| P13 <u>60</u>               | <u>101</u> | <u>36</u>                   | <u>1038</u> | <u>60</u>                   | <u>159</u> | <u>36</u>                   | <u>1002</u> |
| P14                         |            | <u>39</u>                   | <u>1043</u> |                             |            | <u>39</u>                   | <u>1007</u> |
| P15                         |            | <u>42</u>                   | <u>1046</u> |                             |            | <u>42</u>                   | <u>1012</u> |
| P16                         |            | <u>45</u>                   | <u>1053</u> |                             |            | <u>45</u>                   | <u>1015</u> |
| P17                         |            | <u>48</u>                   | <u>1057</u> |                             |            | <u>48</u>                   | <u>1018</u> |
| P18                         |            | <u>51</u>                   | <u>1061</u> |                             |            | <u>51</u>                   | <u>1020</u> |
| P19                         |            | <u>54</u>                   | <u>1065</u> |                             |            | <u>54</u>                   | <u>1022</u> |
| P20                         |            | <u>57</u>                   | <u>1068</u> |                             |            | <u>57</u>                   | <u>1025</u> |
|                             |            | <u>60</u>                   | <u>1074</u> |                             |            | <u>60</u>                   | <u>1028</u> |
|                             |            |                             |             |                             |            | <u>63</u>                   | <u>1032</u> |





This is an actual photograph of recorder chart.

| POINT                                  | PRESSURE      |                |     |
|----------------------------------------|---------------|----------------|-----|
|                                        | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud .....      | 2059          | 2083           | PSI |
| (B) First Initial Flow Pressure .....  | 53            | 52             | PSI |
| (C) First Final Flow Pressure .....    | 118           | 101            | PSI |
| (D) Initial Closed-in Pressure .....   | 1069          | 1074           | PSI |
| (E) Second Initial Flow Pressure ..... | 150           | 150            | PSI |
| (F) Second Final Flow Pressure .....   | 172           | 159            | PSI |
| (G) Final Closed-in Pressure .....     | 1037          | 1032           | PSI |
| (H) Final Hydrostatic Mud .....        | 2038          | 2034           | PSI |



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

23-145-29W  
NF-SE-SE

Company Beren Corporation Lease & Well No. Mark #1

Elevation 2631 Kelly Bushing Formation Marmaton Effective Pay -- Ft. Ticket No. 6562

Date 10/20/80 Sec. 23 Twp. 14S Range 29W County Gove State Kansas

Test Approved by Patrick Balthazor Western Representative Roger Lisenby

Formation Test No. 3 Interval Tested from 4085 ft. to 4185 ft. Total Depth 4185 ft.

Packer Depth 4080 ft. Size 6 3/4 in. Packer Depth 4085 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4112 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 4115 ft. Recorder Number 1051 Cap. 4250

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

Drilling Contractor Pioneer Drilling Rig #2 Drill Collar Length - I. D. - in.

Mud Type drispac Viscosity 60 Weight Pipe Length 251 I. D. 2.7 in.

Weight 9.7 Water Loss 9.6 cc. Drill Pipe Length 3813 I. D. 3.8 in.

Chlorides 15,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.

Jars: Make - Serial Number - Anchor Length 100 ft. Size 5 1/2 with Std. wt. pi

Did Well Flow? -- Reversed Out - 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 FH in

Blow: Weak slowly increasing to three inches and one half in bucket on initial flow period.

Very weak blow steady throughout final flow period.

Recovered 130 ft. of slightly oil and gas cut mud 2% oil; 98% mud

Recovered        ft. of       

Recovered        ft. of       

Recovered        ft. of       

Recovered        ft. of       

Remarks:       

Time Set Packer(s) 10:03 A.M. Time Started Off Bottom 2:06 A.M. Maximum Temperature 133°

Initial Hydrostatic Pressure        (A) 2045 P.S.I.

Initial Flow Period        Minutes 60 (B) 63 P.S.I. to (C) 72 P.S.I.

Initial Closed In Period        Minutes 60 (D) 1100 P.S.I.

Final Flow Period        Minutes 60 (E) 95 P.S.I. to (F) 105 P.S.I.

Final Closed In Period        Minutes 57 (G) 1070 P.S.I.

Final Hydrostatic Pressure        (H) 2040 P.S.I.

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GREAT BEND

# WESTERN TESTING CO., INC.

## Pressure Data

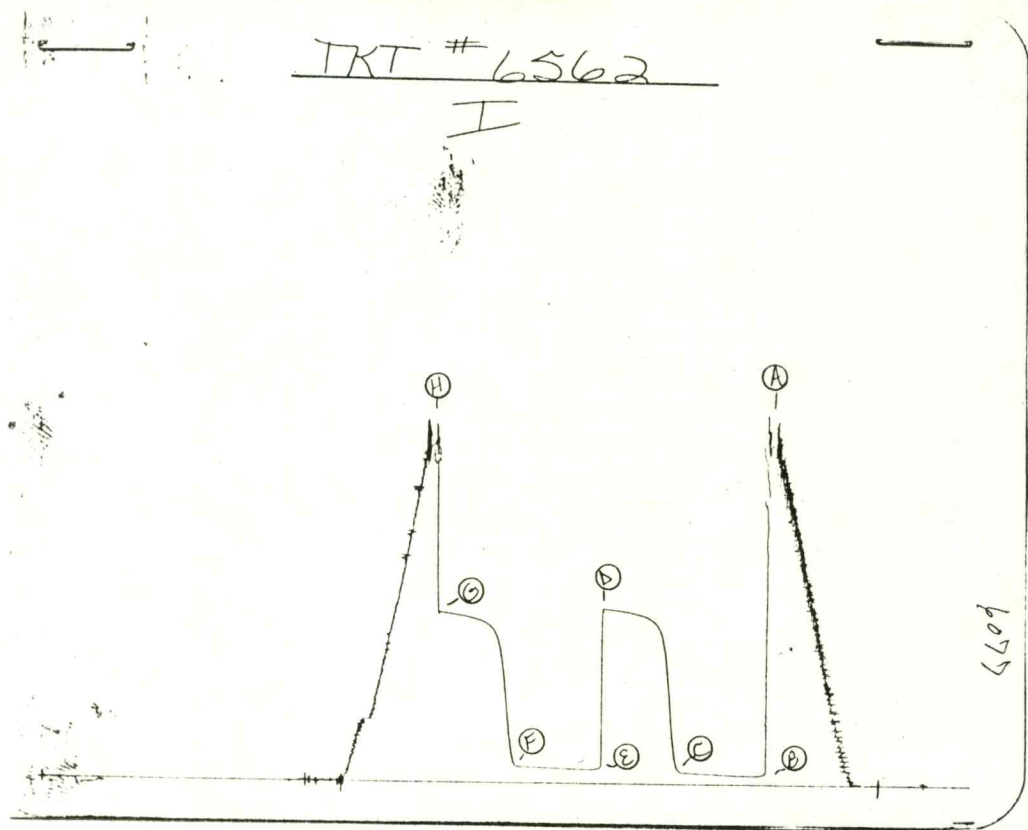
Date 10-20-80 Recorder No. 6077 Capacity 4700 Test Ticket No. 6562  
 Location 4112 Ft. Clock No. - Elevation 2631 Kelly Bushing Well Temperature 133 °F

| Point                          | Pressure    |        | Time Given    | Time Computed   |
|--------------------------------|-------------|--------|---------------|-----------------|
| A Initial Hydrostatic Mud      | <u>2045</u> | P.S.I. | <u>10:03A</u> | <u>M</u>        |
| B First Initial Flow Pressure  | <u>63</u>   | P.S.I. | <u>60</u>     | <u>Mins. 60</u> |
| C First Final Flow Pressure    | <u>72</u>   | P.S.I. | <u>60</u>     | <u>Mins. 60</u> |
| D Initial Closed-in Pressure   | <u>1100</u> | P.S.I. | <u>60</u>     | <u>Mins. 60</u> |
| E Second Initial Flow Pressure | <u>95</u>   | P.S.I. | <u>60</u>     | <u>Mins. 57</u> |
| F Second Final Flow Pressure   | <u>105</u>  | P.S.I. |               |                 |
| G Final Closed-in Pressure     | <u>1070</u> | P.S.I. |               |                 |
| H Final Hydrostatic Mud        | <u>2040</u> | P.S.I. |               |                 |

## PRESSURE BREAKDOWN

| First Flow Pressure<br>Breakdown: <u>12</u> Inc.<br>of <u>5</u> mins. and a<br>final inc. of <u>0</u> Min. |           | Initial Shut-In<br>Breakdown: <u>20</u> Inc.<br>of <u>3</u> mins. and a<br>final inc. of <u>0</u> Min. |             | Second Flow Pressure<br>Breakdown: <u>12</u> Inc.<br>of <u>5</u> mins. and a<br>final inc. of <u>0</u> Min. |            | Final Shut-In<br>Breakdown: <u>19</u> Inc.<br>of <u>3</u> mins. and a<br>final inc. of <u>0</u> Min. |             |
|------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------|-------------|
| Point<br>Mins.                                                                                             | Press.    | Point<br>Minutes                                                                                       | Press.      | Point<br>Minutes                                                                                            | Press.     | Point<br>Minutes                                                                                     | Press.      |
| P 1 <u>0</u>                                                                                               | <u>63</u> | <u>0</u>                                                                                               | <u>72</u>   | <u>0</u>                                                                                                    | <u>95</u>  | <u>0</u>                                                                                             | <u>105</u>  |
| P 2 <u>5</u>                                                                                               | <u>55</u> | <u>3</u>                                                                                               | <u>132</u>  | <u>5</u>                                                                                                    | <u>88</u>  | <u>3</u>                                                                                             | <u>165</u>  |
| P 3 <u>10</u>                                                                                              | <u>55</u> | <u>6</u>                                                                                               | <u>338</u>  | <u>10</u>                                                                                                   | <u>88</u>  | <u>6</u>                                                                                             | <u>345</u>  |
| P 4 <u>15</u>                                                                                              | <u>55</u> | <u>9</u>                                                                                               | <u>626</u>  | <u>15</u>                                                                                                   | <u>88</u>  | <u>9</u>                                                                                             | <u>611</u>  |
| P 5 <u>20</u>                                                                                              | <u>57</u> | <u>12</u>                                                                                              | <u>845</u>  | <u>20</u>                                                                                                   | <u>90</u>  | <u>12</u>                                                                                            | <u>812</u>  |
| P 6 <u>25</u>                                                                                              | <u>59</u> | <u>15</u>                                                                                              | <u>952</u>  | <u>25</u>                                                                                                   | <u>93</u>  | <u>15</u>                                                                                            | <u>913</u>  |
| P 7 <u>30</u>                                                                                              | <u>60</u> | <u>18</u>                                                                                              | <u>1004</u> | <u>30</u>                                                                                                   | <u>95</u>  | <u>18</u>                                                                                            | <u>968</u>  |
| P 8 <u>35</u>                                                                                              | <u>62</u> | <u>21</u>                                                                                              | <u>1024</u> | <u>35</u>                                                                                                   | <u>96</u>  | <u>21</u>                                                                                            | <u>993</u>  |
| P 9 <u>40</u>                                                                                              | <u>64</u> | <u>24</u>                                                                                              | <u>1041</u> | <u>40</u>                                                                                                   | <u>97</u>  | <u>24</u>                                                                                            | <u>1011</u> |
| P10 <u>45</u>                                                                                              | <u>66</u> | <u>27</u>                                                                                              | <u>1053</u> | <u>45</u>                                                                                                   | <u>98</u>  | <u>27</u>                                                                                            | <u>1021</u> |
| P11 <u>50</u>                                                                                              | <u>68</u> | <u>30</u>                                                                                              | <u>1062</u> | <u>50</u>                                                                                                   | <u>100</u> | <u>30</u>                                                                                            | <u>1031</u> |
| P12 <u>55</u>                                                                                              | <u>70</u> | <u>33</u>                                                                                              | <u>1068</u> | <u>55</u>                                                                                                   | <u>102</u> | <u>33</u>                                                                                            | <u>1036</u> |
| P13 <u>60</u>                                                                                              | <u>72</u> | <u>36</u>                                                                                              | <u>1072</u> | <u>60</u>                                                                                                   | <u>105</u> | <u>36</u>                                                                                            | <u>1041</u> |
| P14                                                                                                        |           | <u>39</u>                                                                                              | <u>1077</u> |                                                                                                             |            | <u>39</u>                                                                                            | <u>1048</u> |
| P15                                                                                                        |           | <u>42</u>                                                                                              | <u>1084</u> |                                                                                                             |            | <u>42</u>                                                                                            | <u>1053</u> |
| P16                                                                                                        |           | <u>45</u>                                                                                              | <u>1089</u> |                                                                                                             |            | <u>45</u>                                                                                            | <u>1058</u> |
| P17                                                                                                        |           | <u>48</u>                                                                                              | <u>1092</u> |                                                                                                             |            | <u>48</u>                                                                                            | <u>1060</u> |
| P18                                                                                                        |           | <u>51</u>                                                                                              | <u>1096</u> |                                                                                                             |            | <u>51</u>                                                                                            | <u>1065</u> |
| P19                                                                                                        |           | <u>54</u>                                                                                              | <u>1098</u> |                                                                                                             |            | <u>54</u>                                                                                            | <u>1067</u> |
| P20                                                                                                        |           | <u>57</u>                                                                                              | <u>1099</u> |                                                                                                             |            | <u>57</u>                                                                                            | <u>1070</u> |
|                                                                                                            |           | <u>60</u>                                                                                              | <u>1100</u> |                                                                                                             |            |                                                                                                      |             |





This is an actual photograph of recorder chart.

| POINT                            | PRESSURE      |                |     |
|----------------------------------|---------------|----------------|-----|
|                                  | Field Reading | Office Reading |     |
| (A) Initial Hydrostatic Mud      | 2047          | 2045           | PSI |
| (B) First Initial Flow Pressure  | 49            | 63             | PSI |
| (C) First Final Flow Pressure    | 73            | 72             | PSI |
| (D) Initial Closed-in Pressure   | 1092          | 1100           | PSI |
| (E) Second Initial Flow Pressure | 85            | 95             | PSI |
| (F) Second Final Flow Pressure   | 110           | 105            | PSI |
| (G) Final Closed-in Pressure     | 1069          | 1070           | PSI |
| (H) Final Hydrostatic Mud        | 2023          | 2040           | PSI |