

Company Gear Petroleum Company, Inc. Lease & Well No. Chain Ranch #1  
 Elevation - Formation - Effective Pay - Ft. Ticket No. 8255  
 Date 12-19-80 Sec. 19 Twp. 31S Range 11W County Barber State Kansas  
 Test Approved by Terry L McLeod Western Representative Stuart Stover

Formation Test No. 1 Interval Tested from 3506 ft. to 3568 ft. Total Depth 3568 ft.  
 Packer Depth 3501 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3506 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 3511 ft. Recorder Number 11019 Cap. 4500  
 Bottom Recorder Depth (Outside) 3516 ft. Recorder Number 11018 Cap. 4425  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Red Tiger #1 Drill Collar Length - I. D. - in.

Mud Type - Viscosity - Weight Pipe Length - I. D. 3.0 in.

Weight - Water Loss - cc. Drill Pipe Length - I. D. 4.0 in.

Chlorides - P.P.M. Test Tool Length 21 ft. Tool Size 3 1/2 in.

Jars: Make - Serial Number - Anchor Length 62 ft. Size 4 1/2 in.

Did Well Flow? - Reversed Out - Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

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

Blow: Good blow off bottom of bucket

Recovered 30 ft. of drilling mud

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 4:30 ~~PM~~ <sup>A.M.</sup> Time Started Off Bottom 7:45 ~~PM~~ <sup>A.M.</sup> Maximum Temperature -

Initial Hydrostatic Pressure ..... (A) 1740 P.S.I.

Initial Flow Period ..... Minutes 45 (B) 18 P.S.I. to (C) 2 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 72 P.S.I.

Final Flow Period ..... Minutes 40 (E) 11 P.S.I. to (F) 5 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1224 P.S.I.

Final Hydrostatic Pressure ..... (H) 1701 P.S.I.

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

Date 12-19-80

Test Ticket No. 8255

Recorder No. 11019

Capacity 4500

Location 3511 Ft.

Clock No. ---- Elevation -----

Well Temperature ---- °F

| Point                          | Pressure           |                            | Time Given      | Time Computed   |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud      | <u>1740</u> P.S.I. | Open Tool                  | <u>4:30</u> A M |                 |
| B First Initial Flow Pressure  | <u>18</u> P.S.I.   | First Flow Pressure        | <u>45</u> Mins. | <u>45</u> Mins. |
| C First Final Flow Pressure    | <u>2</u> P.S.I.    | Initial Closed-in Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| D Initial Closed-in Pressure   | <u>72</u> P.S.I.   | Second Flow Pressure       | <u>45</u> Mins. | <u>40</u> Mins. |
| E Second Initial Flow Pressure | <u>11</u> P.S.I.   | Final Closed-in Pressure   | <u>60</u> Mins. | <u>60</u> Mins. |
| F Second Final Flow Pressure   | <u>5</u> P.S.I.    |                            |                 |                 |
| G Final Closed-in Pressure     | <u>1224</u> P.S.I. |                            |                 |                 |
| H Final Hydrostatic Mud        | <u>1701</u> P.S.I. |                            |                 |                 |

**PRESSURE BREAKDOWN**

**First Flow Pressure**  
Breakdown: 9 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Initial Shut-In**  
Breakdown: 15 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

**Second Flow Pressure**  
Breakdown: 8 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Final Shut-In**  
Breakdown: 20 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 <u>0</u>  | <u>18</u> | <u>0</u>      | <u>2</u>  | <u>0</u>      | <u>11</u> | <u>0</u>      | <u>5</u>    |
| P 2 <u>5</u>  | <u>2</u>  | <u>3</u>      | <u>2</u>  | <u>5</u>      | <u>7</u>  | <u>3</u>      | <u>188</u>  |
| P 3 <u>10</u> | <u>2</u>  | <u>6</u>      | <u>2</u>  | <u>10</u>     | <u>7</u>  | <u>6</u>      | <u>367</u>  |
| P 4 <u>15</u> | <u>2</u>  | <u>9</u>      | <u>2</u>  | <u>15</u>     | <u>7</u>  | <u>9</u>      | <u>533</u>  |
| P 5 <u>20</u> | <u>2</u>  | <u>12</u>     | <u>2</u>  | <u>20</u>     | <u>6</u>  | <u>12</u>     | <u>680</u>  |
| P 6 <u>25</u> | <u>2</u>  | <u>15</u>     | <u>2</u>  | <u>25</u>     | <u>6</u>  | <u>15</u>     | <u>846</u>  |
| P 7 <u>30</u> | <u>2</u>  | <u>18</u>     | <u>2</u>  | <u>30</u>     | <u>5</u>  | <u>18</u>     | <u>1016</u> |
| P 8 <u>35</u> | <u>2</u>  | <u>21</u>     | <u>2</u>  | <u>35</u>     | <u>5</u>  | <u>21</u>     | <u>1120</u> |
| P 9 <u>40</u> | <u>2</u>  | <u>24</u>     | <u>2</u>  | <u>40</u>     | <u>5</u>  | <u>24</u>     | <u>1163</u> |
| P10 <u>45</u> | <u>2</u>  | <u>27</u>     | <u>2</u>  |               |           | <u>27</u>     | <u>1181</u> |
| P11           |           | <u>30</u>     | <u>2</u>  |               |           | <u>30</u>     | <u>1190</u> |
| P12           |           | <u>33</u>     | <u>4</u>  |               |           | <u>33</u>     | <u>1199</u> |
| P13           |           | <u>36</u>     | <u>6</u>  |               |           | <u>36</u>     | <u>1206</u> |
| P14           |           | <u>39</u>     | <u>16</u> |               |           | <u>39</u>     | <u>1210</u> |
| P15           |           | <u>42</u>     | <u>52</u> |               |           | <u>42</u>     | <u>1213</u> |
| P16           |           | <u>45</u>     | <u>72</u> |               |           | <u>45</u>     | <u>1217</u> |
| P17           |           |               |           |               |           | <u>48</u>     | <u>1219</u> |
| P18           |           |               |           |               |           | <u>51</u>     | <u>1221</u> |
| P19           |           |               |           |               |           | <u>54</u>     | <u>1222</u> |
| P20           |           |               |           |               |           | <u>57</u>     | <u>1223</u> |
|               |           |               |           |               |           | <u>60</u>     | <u>1224</u> |

Company Gear Petroleum Company, Inc. Lease & Well No. Chain Ranch #1  
 Elevation - Formation Douglas Effective Pay - Ft. Ticket No. 8256  
 Date 12-19-80 Sec. 19 Twp. 31S Range 11W County Barber State Kansas  
 Test Approved by Terry L. McLeod Western Representative Stuart Stover

Formation Test No. 2 Interval Tested from 3574 ft. to 3598 ft. Total Depth 3598 ft.  
 Packer Depth 3569 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3574 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3579 ft. Recorder Number 11019 Cap. 4500  
 Bottom Recorder Depth (Outside) 3584 ft. Recorder Number 11018 Cap. 4425  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Red Tiger Rig #1 Drill Collar Length - I. D. - in.  
 Mud Type - Viscosity - Weight Pipe Length - I. D. - in.  
 Weight - Water Loss - cc. Drill Pipe Length - I. D. - in.  
 Chlorides - P.P.M. Test Tool Length 21 ft. Tool Size 3 1/2 in.  
 Jars: Make - Serial Number - Anchor Length 24 ft. Size 4 1/2 in.  
 Did Well Flow? - Reversed Out - Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2XH in.

Blow: Very weak. No blow on final flow period. Flushed tool. Weak for ten minutes.

Recovered 15 ft. of drilling mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of    

Remarks:    

Time Set Packer(s) 9:30 A.M. Time Started Off Bottom 11:30 P.M. Maximum Temperature 110  
 Initial Hydrostatic Pressure ..... (A) 1843 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 40 P.S.I. to (C) 42 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 42 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 42 P.S.I. to (F) 52 P.S.I.  
 Final Closed In Period ..... Minutes 54 (G) 52 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1800 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 12-19-80 Test Ticket No. 8256  
 Recorder No. 11019 Capacity 4500 Location 3579 Ft.  
 Clock No. - Elevation - Well Temperature 3579 °F

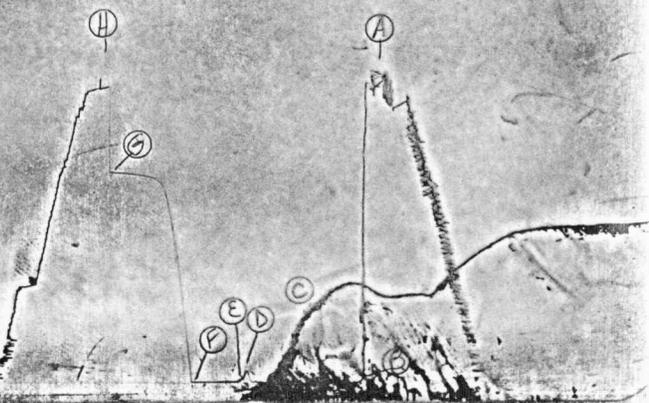
| Point                          | Pressure    |        | Time  |                |
|--------------------------------|-------------|--------|-------|----------------|
|                                |             |        | Given | Computed       |
| A Initial Hydrostatic Mud      | <u>1843</u> | P.S.I. | 9:30P | M              |
| B First Initial Flow Pressure  | <u>40</u>   | P.S.I. | 30    | Mins. 30 Mins. |
| C First Final Flow Pressure    | <u>42</u>   | P.S.I. | 30    | Mins. 30 Mins. |
| D Initial Closed-in Pressure   | <u>42</u>   | P.S.I. | 30    | Mins. 30 Mins. |
| E Second Initial Flow Pressure | <u>42</u>   | P.S.I. | 30    | Mins. 54 Mins. |
| F Second Final Flow Pressure   | <u>52</u>   | P.S.I. |       |                |
| G Final Closed-in Pressure     | <u>52</u>   | P.S.I. |       |                |
| H Final Hydrostatic Mud        | <u>1800</u> | P.S.I. |       |                |

### PRESSURE BREAKDOWN

| First Flow Pressure         |           | Initial Shut-In             |           | Second Flow Pressure        |           | Final Shut-In               |           |
|-----------------------------|-----------|-----------------------------|-----------|-----------------------------|-----------|-----------------------------|-----------|
| Breakdown: <u>6</u> Inc.    |           | Breakdown: <u>10</u> Inc.   |           | Breakdown: <u>6</u> Inc.    |           | Breakdown: <u>18</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>40</u> | <u>0</u>                    | <u>42</u> | <u>0</u>                    | <u>42</u> | <u>0</u>                    | <u>52</u> |
| P 2 <u>5</u>                | <u>40</u> | <u>3</u>                    | <u>42</u> | <u>5</u>                    | <u>43</u> | <u>3</u>                    | <u>52</u> |
| P 3 <u>10</u>               | <u>41</u> | <u>6</u>                    | <u>42</u> | <u>10</u>                   | <u>44</u> | <u>6</u>                    | <u>52</u> |
| P 4 <u>15</u>               | <u>42</u> | <u>9</u>                    | <u>42</u> | <u>15</u>                   | <u>45</u> | <u>9</u>                    | <u>52</u> |
| P 5 <u>20</u>               | <u>42</u> | <u>12</u>                   | <u>42</u> | <u>20</u>                   | <u>61</u> | <u>12</u>                   | <u>52</u> |
| P 6 <u>25</u>               | <u>42</u> | <u>15</u>                   | <u>42</u> | <u>25</u>                   | <u>54</u> | <u>15</u>                   | <u>52</u> |
| P 7 <u>30</u>               | <u>42</u> | <u>18</u>                   | <u>42</u> | <u>30</u>                   | <u>52</u> | <u>18</u>                   | <u>52</u> |
| P 8 _____                   | _____     | <u>21</u>                   | <u>42</u> | _____                       | _____     | <u>21</u>                   | <u>52</u> |
| P 9 _____                   | _____     | <u>24</u>                   | <u>42</u> | _____                       | _____     | <u>24</u>                   | <u>52</u> |
| P10 _____                   | _____     | <u>27</u>                   | <u>42</u> | _____                       | _____     | <u>27</u>                   | <u>52</u> |
| P11 _____                   | _____     | <u>30</u>                   | <u>42</u> | _____                       | _____     | <u>30</u>                   | <u>52</u> |
| P12 _____                   | _____     | _____                       | _____     | _____                       | _____     | <u>33</u>                   | <u>52</u> |
| P13 _____                   | _____     | _____                       | _____     | _____                       | _____     | <u>36</u>                   | <u>52</u> |
| P14 _____                   | _____     | _____                       | _____     | _____                       | _____     | <u>39</u>                   | <u>52</u> |
| P15 _____                   | _____     | _____                       | _____     | _____                       | _____     | <u>42</u>                   | <u>52</u> |
| P16 _____                   | _____     | _____                       | _____     | _____                       | _____     | <u>45</u>                   | <u>52</u> |
| P17 _____                   | _____     | _____                       | _____     | _____                       | _____     | <u>48</u>                   | <u>52</u> |
| P18 _____                   | _____     | _____                       | _____     | _____                       | _____     | <u>51</u>                   | <u>52</u> |
| P19 _____                   | _____     | _____                       | _____     | _____                       | _____     | <u>54</u>                   | <u>52</u> |
| P20 _____                   | _____     | _____                       | _____     | _____                       | _____     | <u>57</u>                   | _____     |

TKT # 8255

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TKT # 8256

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11019-8256

