

**KANSAS CORPORATION COMMISSION  
MULTIPOINT BACK PRESSURE TEST**

FORM G-1  
8-7-58

|                                                                                                                         |                              |                                |                             |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|-----------------------------|
| TYPE TEST: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                              | TEST DATE: 4-26-1999           |                             |
| COMPANY<br>Bonneville Fuels Corp                                                                                        |                              | LEASE<br>Warring Trust         |                             |
| COUNTY<br>Morton                                                                                                        |                              | WELL NO.<br>2                  |                             |
| LOCATION<br>se sw nw                                                                                                    | SECTION<br>3                 | TWP<br>32s                     | RNG<br>40w                  |
| ACRES<br>320                                                                                                            |                              |                                |                             |
| FIELD<br>Kinsler                                                                                                        | RESERVOIR<br>WabaunseeTopeka | PIPELINE CONNECTION<br>Amoco   |                             |
| COMPLETION DATE<br>12-22-98                                                                                             | PLUG BACK DEPTH<br>3270      | PACKER SET AT                  |                             |
|                                                                                                                         | TOTAL DEPTH<br>3367          |                                |                             |
| CASING SIZE<br>4.500                                                                                                    | WT.<br>10.500                | ID<br>4.052                    | SET AT<br>3367              |
|                                                                                                                         |                              | PERF.<br>2864                  | TO<br>3058                  |
| TUBING SIZE<br>2.370                                                                                                    | WT.<br>4.700                 | ID<br>1.995                    | SET AT<br>3166              |
|                                                                                                                         |                              | PERF.<br>3136                  | TO<br>3146                  |
| TYPE COMPLETION (Describe)<br>Flowing Gas Well                                                                          |                              | TYPE FLUID PRODUCTION<br>water |                             |
| PRODUCING THRU (Annulus/Tubing)<br>tubing                                                                               |                              | RESERVOIR TEMPERATURE F<br>100 | BAR PRESS - Pa<br>14.4 psia |
| GAS GRAVITY - Gg<br>.848                                                                                                | % CARBON DIOXIDE<br>.170     | % NITROGEN<br>29.878           | API GRAVITY OF LIQUID       |
| VERTICAL DEPTH (H)<br>3005                                                                                              | TYPE METER CONN.<br>flange   |                                | METER RUN SIZE<br>3"        |
| REMARKS<br>Wabusnsee perfs @ 2864-3058 Topeka perfs @ 3136-3146                                                         |                              |                                |                             |

**OBSERVED SURFACE DATA**

| RATE NO. | ORIFICE SIZE in. | (METER) PRESSURE psig | DIFF. (h <sub>w</sub> ) (h <sub>t</sub> ) | FLOWING TEMP. t. | WELLHEAD TEMP. t. | CASING WELLHEAD PRESS. |                                                            | TUBING WELLHEAD PRESS. |                                                            | DURATION HOURS | LIQUID PROD. Bbls. |
|----------|------------------|-----------------------|-------------------------------------------|------------------|-------------------|------------------------|------------------------------------------------------------|------------------------|------------------------------------------------------------|----------------|--------------------|
|          |                  |                       |                                           |                  |                   | psig                   | (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> ) psia | psig                   | (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> ) psia |                |                    |
| SHUT-IN  |                  |                       |                                           |                  |                   | 292                    | 306                                                        | 75                     | 89                                                         | 72.00          |                    |
| 1.       | 1.500            | 24.10                 | 7.20                                      | 59               |                   | 282                    | 296                                                        | 120                    | 134                                                        | 1.00           | 3.3                |
| 2.       | 1.500            | 24.60                 | 14.30                                     | 58               |                   | 272                    | 286                                                        | 141                    | 155                                                        | 1.00           | 3.3                |
| 3.       | 1.500            | 26.10                 | 51.00                                     | 56               |                   | 257                    | 271                                                        | 195                    | 209                                                        | 1.00           | 3.3                |
| 4.       | 1.500            | 27.60                 | 88.40                                     | 57               |                   | 235                    | 249                                                        | 200                    | 214                                                        | 1.00           | .8                 |

**FLOW STREAM ATTRIBUTES**

| RATE NO. | COEFFICIENT (F <sub>b</sub> ) Mcfd | (METER) PRESSURE psia | EXTENSION $\sqrt{P_m \times H_w}$ | GRAVITY FACTOR F <sub>g</sub> | FLOWING TEMP FACTOR F <sub>t</sub> | DEVIATION FACTOR F <sub>pv</sub> | RATE OF FLOW Q Mcfd | GOR     | G <sub>m</sub> |
|----------|------------------------------------|-----------------------|-----------------------------------|-------------------------------|------------------------------------|----------------------------------|---------------------|---------|----------------|
| 1.       | 11.410                             | 38.5                  | 16.65                             | 1.0859                        | 1.0010                             | 1.0038                           | 207                 | 2617.0  | 1.914          |
| 2.       | 11.410                             | 39.0                  | 23.62                             | 1.0859                        | 1.0019                             | 1.0039                           | 294                 | 3671.4  | 1.680          |
| 3.       | 11.410                             | 40.5                  | 45.45                             | 1.0859                        | 1.0039                             | 1.0041                           | 567                 | 7166.4  | 1.329          |
| 4.       | 11.410                             | 42.0                  | 60.93                             | 1.0859                        | 1.0029                             | 1.0042                           | 760                 | 39600.1 | .946           |

**PRESSURE CALCULATION**

| RATE NO. | P <sub>t</sub> psia | P <sub>c</sub> psia | P <sub>w</sub> psia | (P <sub>c</sub> ) <sup>2</sup> Thousands | (P <sub>w</sub> ) <sup>2</sup> Thousands | PLOTING POINTS                                                            |        | % SHUT-IN 100 $\left[ \frac{P_w - P_a}{P_c - P_a} \right]$ |
|----------|---------------------|---------------------|---------------------|------------------------------------------|------------------------------------------|---------------------------------------------------------------------------|--------|------------------------------------------------------------|
|          |                     |                     |                     |                                          |                                          | (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> Thousands | Q Mcfd |                                                            |
| 1.       | 134.4               | 306.8               | 296.4               | 94.1                                     | 87.9                                     | 6.3                                                                       | 207.3  | 96.4                                                       |
| 2.       | 155.4               | 306.8               | 286.4               | 94.1                                     | 82.0                                     | 12.1                                                                      | 294.3  | 93.0                                                       |
| 3.       | 209.4               | 306.8               | 271.4               | 94.1                                     | 73.7                                     | 20.5                                                                      | 567.6  | 87.9                                                       |
| 4.       | 214.4               | 306.8               | 249.4               | 94.1                                     | 62.2                                     | 31.9                                                                      | 760.3  | 80.4                                                       |

INDICATED WELLHEAD OPEN FLOW

1881

Mcfd @ 14.65 psia

"n" =

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the 27 day of April, 19 99

Witness (if any)

For Commission

For Company

Checked by