

KANSAS CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST

FORM G-1
8-7-58

| | | | |
|---|--------------------------------|--|-----------------------|
| TYPE TEST: <input type="checkbox"/> Initial <input checked="" type="checkbox"/> Annual <input type="checkbox"/> Special | | TEST DATE: 3-12-03 | |
| COMPANY Priority Oil & Gas LLC | | LEASE Rueb | |
| COUNTY Cheyenne | | WELL NO. 1-23 | |
| LOCATION NW/SE/SE | SECTION 23 3s 42w | TWP RNG | ACRES |
| FIELD Cherry Creek | RESERVOIR Niobrara | PIPELINE CONNECTION Williams | |
| COMPLETION DATE 6/23/01 | PLUG BACK DEPTH TOTAL DEPTH | 1492 | PACKER SET AT |
| CASING SIZE 4.500 | WT. 10.500 | ID 4.052 | SET AT 1534 |
| | | | PERF. 1398 |
| | | | TO 1428 |
| TUBING SIZE NONE | WT. | ID | SET AT |
| | | | PERF. |
| | | | TO |
| TYPE COMPLETION (Describe) | | TYPE FLUID PRODUCTION | |
| PRODUCING THRU (Annulus/Tubing) casing | | RESERVOIR TEMPERATURE F BAR PRESS - Pa 14.4 psia | |
| GAS GRAVITY - Gg .584 | % CARBON DIOXIDE .378 | % NITROGEN 3.737 | API GRAVITY OF LIQUID |
| VERTICAL DEPTH (H) 1413 | TYPE METER CONN. Flange | | METER RUN SIZE 2" |
| REMARKS | | | |

OBSERVED SURFACE DATA

| RATE NO. | ORIFICE SIZE in. | (METER) PRESSURE psig | DIFF. (h _w) (h _t) | FLOWING TEMP. t. | WELLHEAD TEMP. t. | CASING WELLHEAD PRESS. | | TUBING WELLHEAD PRESS. | | DURATION HOURS | LIQUID PROD. Bbls. |
|----------|------------------|-----------------------|---|------------------|-------------------|------------------------|--|------------------------|--|----------------|--------------------|
| | | | | | | psig | (P _w) (P _t) (P _c) psia | psig | (P _w) (P _t) (P _c) psia | | |
| SHUT-IN | | | | | | 145 | 157 | | | | |
| 1. | .750 | 107.00 | 54.00 | 67 | | 120 | 132 | | | 24.00 | |
| 2. | | | | | | | | | | | |
| 3. | | | | | | | | | | | |
| 4. | | | | | | | | | | | |

FLOW STREAM ATTRIBUTES

| RATE NO. | COEFFICIENT (F _b) Mcfd | (METER) PRESSURE psia | EXTENSION $\sqrt{P_m \times H_w}$ | GRAVITY FACTOR Fg | FLOWING TEMP FACTOR Ft | DEVIATION FACTOR Fpv | RATE OF FLOW Q Mcfd | GOR | G _m |
|----------|------------------------------------|-----------------------|-----------------------------------|-------------------|------------------------|----------------------|---------------------|-----|----------------|
| 1. | 2.779 | 119.5 | 80.33 | 1.3086 | .9933 | 1.0082 | 292 | | .584 |
| 2. | | | | | | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | | | | | |

PRESSURE CALCULATION

| RATE NO. | Pt psia | Pc psia | Pw psia | (Pc) ² Thousands | (Pw) ² Thousands | PLOTING POINTS | | % SHUT-IN 100 $\left[\frac{P_w - P_a}{P_c - P_a} \right]$ |
|----------|---------|---------|---------|-----------------------------|-----------------------------|---|--------|---|
| | | | | | | (P _c) ² - (P _w) ² Thousands | Q Mcfd | |
| 1. | 132.5 | 157.5 | 132.6 | 24.8 | 17.6 | 7.2 | 292.5 | 82.8 |
| 2. | | | | | | | | |
| 3. | | | | | | | | |
| 4. | | | | | | | | |

INDICATED WELLHEAD OPEN FLOW

Mcfd @ 14.65 psia "n" = .825

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 _____ day of _____, 20 _____

Witness (if any)

For Company

For Commission

Checked by

[illegible]

**STATE OF KANSAS - CORPORATION COMMISSION
MULTIPOINT BACK PRESSURE TEST**

FORM CG-1 Rev.

| | | | | | | |
|------------------------------------|--|----------------------------------|--|----------------------------------|----------------------------------|--|
| TYPE TEST: | | <input type="checkbox"/> Initial | <input checked="" type="checkbox"/> Annual | <input type="checkbox"/> Special | TEST DATE: | |
| COMPANY | | Priority Oil & Gas LLC | | | WELL NO: 1-23 | |
| COUNTY | | Cheyenne | | | ACRES | |
| LOCATION | | NW/SE/SE | | | RNG (E/W) | |
| SECTION | | 23-3S-42W | | | TWP | |
| API WELL NUMBER | | 15-023-20417-0000 | | | PIPELINE CONNECTION | |
| RESERVOIR | | Niobrara | | | Williams | |
| COMPLETION DATE | | 06/23/01 | | | PACKER SET AT | |
| CASING SIZE | | 4.5 | | | TO | |
| WT. | | 10.5 | | | PERF. | |
| ID. | | 4.052 | | | SET AT | |
| TUBING SIZE | | N/A | | | PERF. | |
| WT. | | | | | TO | |
| ID. | | | | | SET AT | |
| TYPE COMPLETION (Describe) | | TYPE FLUID PRODUCTION | | | | |
| | | None | | | | |
| PRODUCING THRU casing | | RESERVOIR TEMPERATURE °F | | | BAR PRESS - P_s | |
| | | | | | 14.4 Psia | |
| GAS GRAVITY - G_g | | % CARBON DIOXIDE | | | % NITROGEN | |
| 0.534 | | 0.378 | | | 3.737 | |
| VERTICAL DEPTH (H) | | TYPE METER CONNECTION | | | (METER RUN) (PROVER) SIZE | |
| 1413 | | Flange | | | | |
| REMARKS | | | | | | |

OBSERVED DATA

| RATE NO. | ORIFICE SIZE in | (METER) (PROVER) PRESSURE Psig | DIFF. (h _w) (h _d) | FLOWING TEMP t | WELL-HEAD TEMP. t | CSG WELLHEAD PRESS. | | TBG WELLHEAD PRESS. | | FLOW DURATION (HOURS) | LIQUID PROD. Bbls. |
|----------|-----------------|--------------------------------|---|----------------|-------------------|---------------------|--|---------------------|--|-----------------------|--------------------|
| | | | | | | Psig | (P _w)(P _i)(P _c) Psia | Psig | (P _w)(P _i)(P _c) Psia | | |
| SHUT IN | | | | | | | | | | | |
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |

RATE OF FLOW CALCULATIONS

| RATE NO. | COEFFICIENT (F _b) (F _v) Mcfd | (METER) (PROVER) PRESSURE Psia | PRESS EXTENSION $\sqrt{P_m \cdot h_w}$ | GRAVITY FACTOR F _g | FLOWING TEMP FACTOR F _t | DEVIATION FACTOR F _{pv} | RATE OF FLOW Q Mcfd | GOR (ft ³ /Bbl) | G _m |
|----------|--|--------------------------------|--|-------------------------------|------------------------------------|----------------------------------|---------------------|----------------------------|----------------|
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

PRESSURE CALCULATIONS

| RATE NO. | P _i Psia | P _c Psia | P _w Psia | (P _c) ² THOUSANDS | (P _w) ² THOUSANDS | PLOTING POINTS | | % SHUT-IN $\frac{(P_w - P_c)}{(P_c - P_s)}$ |
|----------|---------------------|---------------------|---------------------|--|--|---|--------|---|
| | | | | | | (P _c) ² - (P _w) ² THOUSANDS | Q Mcfd | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |

INDICATED WELLHEAD OPEN FLOW

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 _____ day of _____, 19____.

Witness (if any)

For Company

For Commission

Checked By (Rev.10/96)