### BACK PRESSURE TEST FOR NATURAL GAS WELLS

**OAC 165:10-17-6**

**DATE OF TEST:**

**DATE OF 1ST SALES:**

<table>
<thead>
<tr>
<th>Operator</th>
<th>Operator #</th>
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<tbody>
<tr>
<td>Address</td>
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<tr>
<td>City</td>
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<tr>
<td>Fax</td>
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<tr>
<td>Well</td>
<td></td>
</tr>
<tr>
<td>Name/#</td>
<td></td>
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<tr>
<td>Gas Volumes to be Reported to OCC by:</td>
<td>Gas Volume Reporter #</td>
</tr>
<tr>
<td>Producing Zone</td>
<td>OTC Lease #</td>
</tr>
<tr>
<td>Surface Location</td>
<td>(OCC use) Allowable #</td>
</tr>
<tr>
<td>Zone Location (if different)</td>
<td>County</td>
</tr>
<tr>
<td>Field</td>
<td>Spacing Size</td>
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**COMPLETION:**

- [ ] Single
- [ ] Multiple Zone
- [ ] Commingled
- [ ] Recompletion
- Date of Completion

**Total Depth**

**Plug Back Depth**

**Packer Set Depth**

**Elevation**

**Csg Size**

**WT**

**d**

**Depth Set**

**Perfs.**

**Tbg Size**

**WT**

**d**

**Depth Set**

**Perfs.**

**Prod. Thru**

**Res. Temp. F**

**@**

**Mean Grd. Temp. F**

**Atm. Press. PSIA**

<table>
<thead>
<tr>
<th>L</th>
<th>H</th>
<th>G_o</th>
<th>%CO_2</th>
<th>%N_2</th>
<th>H_2S(ppm)</th>
<th>Prover</th>
<th>Meter Run</th>
<th>Taps</th>
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**FLOW DATA**

**DIFF**

**PRESS (INCHES)**

**TEMP (F)**

**PRESS (PSIG)**

**TEMP (PSIG)**

**PRESS (PSIG)**

**TEMP (PSIG)**

**FLOW (HRS)**

**FLOW DATA**

**DIFF**

**PRESS (INCHES)**

**TEMP (F)**

**PRESS (PSIG)**

**TEMP (PSIG)**

**PRESS (PSIG)**

**TEMP (PSIG)**

**FLOW (HRS)**

**RATE OF FLOW CALCULATIONS**

<table>
<thead>
<tr>
<th>COEFFICIENT (24 HOUR)</th>
<th>√ n_iP_n</th>
<th>PRESSURE</th>
<th>FLOW TEMP. FACTOR</th>
<th>GRAVITY FACTOR</th>
<th>SUPER COMPRESS FACTOR F_k</th>
<th>RATE OF FLOW (Q) MCFD</th>
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|                       |          |          |                   |                |                           |                      |
|                       |          |          |                   |                |                           |                      |

**Gas/Liquid Hydrocarbon Ratio**

**MCF/BBL**

**API Gravity of Liquid Hydrocarbons**

**Deg.**

**Specific Gravity Separator Gas**

**Specific Gravity Flowing Fluid**

**Critical Pressure**

**PSIA**

**Critical Pressure**

**PSIA**

**Critical Temperature**

**R**

**Critical Temperature**

**R**

**API Gravity of Liquid Hydrocarbons**

** Deg.**

**Critical Temperature**

**R**

**Critical Temperature**

**R**

**P_w**

**P_o**

**P_o^2**

**P_o^2 - P_w^2**

**[1]**

**P_o^2 - P_w^2**

**[2]**

**P_o^2 - P_w^2**

**WHAOF- Q**

**P_o^2 - P_w^2**

**Calculated wellhead open flow**

**MCFD @ 14.65**

**Angle of Slope**

**Slope, n**

**Remarks**

Approved by Commission: 

Conducted by: 

Calculated by: 

Checked by: 

**WITNESSED - OCC FIELD STAFF: [ ] Y [ ] N NAME:**

**DATE:**
IF THE ALLOWABLE FOR THIS WELL HAS BEEN ADJUSTED BY COMMISSION ORDER, PLEASE GIVE THE ORDER NUMBER(S) IN ONE OR MORE OF THE CATEGORIES BELOW:

INCREASED DENSITY _______________________________ LOCATION EXCEPTION *

COMMINGLING _______________________________ MULTIPLE ZONE _______________________________

SEPARATE OR SPECIAL ALLOWABLE * _______________________________

OTHER PENALTY ORDER(S) * _______________________________

* FOR THESE ORDER TYPES, PLEASE DESCRIBE ALLOWABLES AND/OR PENALTIES:

I declare that I have knowledge of the contents of this report and am authorized by my organization to make this report, which was prepared by me or under my supervision and direction, with the data and facts stated herein to be true, correct and complete to the best of my knowledge and belief.

SIGNATURE _______________________________ TITLE _______________________________

COMPANY _______________________________ DATE _______________________________ PHONE NO. _______________________________

Pc  SHUT-IN PRESSURE, PSIA (LENGTH OF SHUT-IN MINIMUM OF 24 HOURS).
Pw  STATIC COLUMN WELLHEAD PRESSURE CORRESPONDING TO THE FLOWING WELLHEAD PRESSURE, PSIA (TO BE RECORDED AT END OF EACH FLOW RATE.) THE VALUE OF Pw SHOULD NOT EXCEED 90% OF Pc.
Gg  SPECIFIC GRAVITY OF SEPARATOR GAS (AIR = 1.000).
L   LENGTH OF THE FLOW STRING FROM THE MIDDLE OF THE PRODUCING FORMATION TO THE PRESSURE POINT AT WELLHEAD, FEET.
H   VERTICAL DEPTH CORRESPONDING TO L, FEET.
Q   24 HOUR RATE OF FLOW, MCF/D.
d   INSIDE DIAMETER, INCHES.
R   DEGREES, RANKINE (DEGREES FAHRENHEIT ABSOLUTE).
Pr  REDUCED PRESSURE, DIMENSIONLESS.
Tr  REDUCED TEMPERATURE, DIMENSIONLESS.
Z   COMPRESSIBILITY FACTOR, DIMENSIONLESS.