WELL OPERATOR’S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal / (If “Gas,” Production / Underground Storage / Deep / Shallow /)
LOCATION: Elevation: 1315 Watershed Pennsylvania Fork - Fish Creek District: Liberty County Marshall Quadrangle Littleton

COMPANY Columbia Gas Transmission Corporation
ADDRESS P. O. Box 1273, Charleston, WV
DESIGNATED AGENT James L. Weekley
ADDRESS P. O. Box 1273, Charleston, WV
SURFACE OWNER Frank C. Pyles, et al
ADDRESS 1114 E. 5th Street, Berwick, PA 18603
MINERAL RIGHTS OWNER Frank C. Pyles, et al
ADDRESS 1114 E. 5th Street, Berwick, PA 18603
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS Middlebourne, WV

PERMIT ISSUED 11/8/84
DRILLING COMMENCED 12/10/84
DRILLING COMPLETED 12/18/84

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Gordon
Depth of completed well 3320 feet Rotary X / Cable Tools
Water strata depth: Fresh feet; Salt feet
Coal seam depths: 1142-1148
Is coal being mined in the area? Yes

Casing & Tubing
Used in Drilling
Left in Well
Cement fill up Cu. ft.

Size
20-16 Cond.
13-10" 95.1 95.1 60 sacks
9 5/8 1192.45 1192.45 370 sacks
8 5/8 2631 2631 220 sacks
7 5 1/2 3301.5 3301.5 75 sacks
4 1/2
3
2

Liners used

Open Flow Data
Producing formation Gordon
Pay zone depth 3192-3196 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in
(If applicable due to multiple completion--)
Second producing formation
Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)
DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforated 1-22-85 from 3182-3196' with 15 holes, from 3210-3212' with 3 holes and from 3244-3252' with 9 holes.

Acidized from 3182-3213' and from 3244-3252' on 1-23-85 with 500 gallons 15% HCl.
Fractured with 1920 gallons gelled water and 60,000# 20/40 sand.

WELL LOG

<table>
<thead>
<tr>
<th>FORMATION</th>
<th>COLOR</th>
<th>HARD OR SOFT</th>
<th>TOP FEET</th>
<th>BOTTOM FEET</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>Top Clay</td>
<td></td>
<td></td>
<td>0</td>
<td>3</td>
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<tr>
<td>Sand Clay</td>
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<td>3</td>
<td>9</td>
<td></td>
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<tr>
<td>Sand Shale</td>
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<td></td>
<td>9</td>
<td>130</td>
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<tr>
<td>Red and Gray Shale</td>
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<td>130</td>
<td>152</td>
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<tr>
<td>Gray Shale</td>
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<td>Red Gray Shale</td>
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<td>256</td>
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</tr>
<tr>
<td>Gray Sand</td>
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<td></td>
<td>455</td>
<td>856</td>
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<tr>
<td>Waynesburg Coal</td>
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<td></td>
<td>856</td>
<td>866</td>
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<td>Mapletown Coal</td>
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<td>1042</td>
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<td>Pittsburgh Coal</td>
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<tr>
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<td>1684</td>
<td>1716</td>
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<td>1st Gas Sand</td>
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<td>1837</td>
<td>1867</td>
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<tr>
<td>2nd Salt Sand</td>
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<td>2033</td>
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<tr>
<td>3rd Salt Sand</td>
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<td>2100</td>
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<td>Big Injunct.</td>
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<td>Murrysville</td>
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<td>Gordon</td>
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<td>4th</td>
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<tr>
<td>LTD</td>
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<td>DTD</td>
<td></td>
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<td>3320</td>
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</table>

Including indication of all fresh and salt water, coal, oil and gas

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation

Operator: [Signature]
Date: June 17, 1986

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including well encountered in the drilling of a well."
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil / Gas / Underground storage / Deep / Shallow /
B (If "Gas", Production
5) LOCATION: Elevation: 1315' Watershed: Pennsylvania Fork-Fish Creek
District: Liberty County: Marshall Quadrangle: Littleton
6) WELL OPERATOR: Columbia Gas Trans. Corp. 7) DESIGNATED AGENT: J. L. Weekley
Address: P. O. Box 1273 Address: P. O. Box 1273
Charleston, WV 25325 10450 Charleston, WV 25325

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name: Robert Lowther
Address: General Delivery
Middlebourne, WV 26149

9) DRILLING CONTRACTOR:
Name:
Address:

10) PROPOSED WELL WORK:
Drill X / Drill deeper / Redrill / Stimulate X
Plug off old formation / Perforate new formation
Other physical change in well (specify)

11) GEOLOGICAL TARGET FORMATION, Gordon
12) Estimated depth of completed well, 3500' feet
13) Approximate strata depths: Fresh, ______ feet; salt, ______ feet.
14) Approximate coal seam depths: 1180
Is coal being mined in the area? Yes X No

15) CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>CASING OR TUBING TYPE</th>
<th>SPECIFICATIONS</th>
<th>FOOTAGE INTERVALS</th>
<th>CEMENT FILL-UP OR SACKS (Cubic feet)</th>
<th>PACKERS</th>
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<tbody>
<tr>
<td></td>
<td>Size</td>
<td>Grade</td>
<td>Weight</td>
<td>New</td>
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<tr>
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<td>Fresh water</td>
<td>13-3/8 H</td>
<td>48</td>
<td>X</td>
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<tr>
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<td>Coal</td>
<td>9-5/8 H</td>
<td>32</td>
<td>X</td>
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<td></td>
<td>Intermediate</td>
<td>7     K</td>
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<td>Production</td>
<td>4 1/2 K</td>
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<td>Tubing</td>
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<td></td>
<td>Liners</td>
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</tbody>
</table>

OFFICE USE ONLY

DRILLING PERMIT

Permit number: 47-051-0705
Date: November 7, 1984

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Date of Permit Expires: November 7, 1986 — unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: 43  Agent: 75  Plat: 73  Casing: 18  Fee: 406,000G

Margaret Mass
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.