NOTE: THIS MAP IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY.
WELL LOCATION MAP

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

FILE NO. MARS-199-R

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

— DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.
State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permitting
Office of Oil & Gas
Well Operator's Report of Well Work

Farm name: MATHEWS, HERBERT ETAL. Operator Well No.: 1836
LOCATION: Elevation: 1,209.00 Quadrangle: CAMERON

District: LIBERTY County: MARSHALL
Latitude: 620 Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 10620 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: COLUMBIA GAS TRANSMISSION
P.O. BOX 1273
CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: RANDAL Mick
Permit Issued: 08/17/94
Well work Commenced: 11/3/94
Well work Completed: 11/8/94

Verbal Plugging
Permission granted on: N/A
Rotary X Cable Rig
Total Depth (feet): 2153
Fresh water depths (ft): Not recorded by driller.
Salt water depths (ft): Not recorded by driller.
Is coal being mined in area (Y/N)? N
Coal Depths (ft): Pgh Coal 838'-845'

<table>
<thead>
<tr>
<th>Size</th>
<th>Casing &amp; Tubing Used in Drilling</th>
<th>Left in Well</th>
<th>Cement Fill Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 3/4&quot; OD</td>
<td>210'</td>
<td>210'</td>
<td>148</td>
</tr>
<tr>
<td>8 5/8&quot; OD</td>
<td>1235'</td>
<td>1235'</td>
<td>295</td>
</tr>
<tr>
<td>7&quot; OD</td>
<td>2004'</td>
<td>2004'</td>
<td>236</td>
</tr>
<tr>
<td>4 1/2&quot; OD</td>
<td>2185'</td>
<td>2185'</td>
<td>158</td>
</tr>
</tbody>
</table>

OPEN FLOW DATA

Producing formation Big Injun Sand Pay zone depth (ft) 2080'-

Gas: Initial open flow — MCF/d Oil: Initial open flow — Bbl/d
Final open flow 5,490 MCF/d Final open flow — Bbl/d
Time of open flow between initial and final tests — Hours
Static rock Pressure 584 psig (surface pressure) after — Hours

Second producing formation — Pay zone depth (ft) —

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 pressure) after — Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCONCERED BY THE WELLBORE.

For: COLUMBIA GAS TRANSMISSION CORP.

By: [Signature]
Date: MAY 3, 1996

MAY 3, 1996
### WELL RECORD

**Company:** The Manufacturers Light and Heat Co.  
**Address:** 800 Union Trust Bldg., Pittsburgh 19, Pa.  
**Farm:** Booher and Reynolds  
**Location (wells):**  
**Well No.:** L-1836  
**Elev.:** 121' 73"  
**County:** Liberty  
**Marshall**  
**The surface of the tract is owned in fee by:**  
**Address:**  
**Mineral rights are owned by:**  
**Address:**  
**Drilling commenced:** June 21, 1960  
**Drilling completed:** August 4, 1960  
**Date Shot:** 8/6/60  
**From:** 2008'  
**To:** 2196'  
**With:** Orifice Well Tester  
**Open Flow:**  
**1/40th Water In:** 1/2 Inch  
**1/10th Merc. In:** Inch  
**Volume:** 12,036 MCF  
**Rock Pressure:** 35 lbs.  
**bbls., 1st 24 hrs.:** 49 hrs.  
**Oil:**  
**Fresh water:** feet  
**Salt water:** feet  

<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Top</th>
<th>Bottom</th>
<th>Oil or Gas or Water</th>
<th>Depth Found</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td>7</td>
<td>840</td>
<td>847</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;Big Dunkard Sand&quot;</td>
<td>6</td>
<td>1334</td>
<td>1410</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maxton Sand</td>
<td>40</td>
<td>1835</td>
<td>1875</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Maxton Sand</td>
<td>8</td>
<td>1942</td>
<td>1950</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big Lime</td>
<td></td>
<td>1954</td>
<td></td>
<td></td>
<td></td>
<td>2196</td>
</tr>
<tr>
<td>Big Injun Sand</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Not Drilled Through</td>
</tr>
<tr>
<td>Old 7&quot; casing</td>
<td></td>
<td>1983</td>
<td>2004</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set New 7&quot; at</td>
<td></td>
<td></td>
<td>1983</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL DEPT.</td>
<td></td>
<td></td>
<td>2196</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COAL WAS ENCOUNTERED AT 840 FEET INCHES**

**Oil or Gas Well:** X 3956

**STORAGE**

**Size:** 16.  
**Kind of Packer:**  
**Size of:**  
**Depth set:**  
**Perf. top:**  
**Perf. bottom:**  

**Casing Cemented:**  
**SIZE:**  
**No. Ft.:**  
**Date:**

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*Note: The document appears to be a record of a well record with various details such as company information, drilling details, formations encountered, and storage details.*
1) Well Operator: COLUMBIA GAS TRANSMISSION CORP.

2) Operator's Well Number: 1836

3) Elevation: 1209'

Well type: (a) Oil / or Gas
(b) If Gas: Production / Underground Storage
Deep / Shallow

EXISTING

Proposed Target Formation(s): BIG INUN SAND

EXISTING

Proposed Total Depth: 2196 feet

Approximate fresh water strata depths: 150'

8) Approximate salt water depths: 1013'

9) Approximate coal seam depths: 420'-424', 741'-745', 820'-828'

10) Does land contain coal seams tributary to active mine? Yes / No

11) Proposed Well Work: KILL WELL; CLEAN OUT TO ORIGINAL T.D.; INSTALL NEW FLANGED API 7"x4-1/2" WELLHEAD; PERFORATE AND FRACTURE BIG INJUN SAND.

12) CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SPECIFICATIONS</th>
<th>FOOTAGE INTERVALS</th>
<th>CEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conductor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fresh Water</td>
<td>10-3/4&quot;</td>
<td>H</td>
<td>32.75</td>
</tr>
<tr>
<td>Coal</td>
<td>8-5/8&quot;</td>
<td>J</td>
<td>24</td>
</tr>
<tr>
<td>Intermediate</td>
<td>7&quot;</td>
<td>J</td>
<td>20</td>
</tr>
<tr>
<td>Production</td>
<td>4-1/2&quot;</td>
<td>K</td>
<td>11.6</td>
</tr>
<tr>
<td>Tubing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liners</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PACKERS: Kind: NONE

Sizes

Depths set

For Office of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP Plat WW-9 WW-2B Bond (Type) Agent
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
   (a) Name  HERBERT MATHews
   Address  RD 5, BOX 72
             CAmERON, WV 26033
   (b) Name  DONALD MACK QUIGLEy
   Address  RD 5, BOX 238
             CAmERON, WV 26033
   (c) Name  CLARICE RIEd
   Address  RD 5, BOX 214
             CAmERON, WV 26033

5) (a) Coal Operator:
   Name ________________________________
   Address ________________________________
   (b) Coal Owner(s) with Declaration
   Name  CONSOLIDATED COAL CO.
   Address  1800 WASHINGTON RD.
             PITTSBURGH, PA 15241
   (c) Coal Lessee with Declaration
   Name ________________________________
   Address ________________________________

6) Inspector  RANDAL MICK
   Address  III BLACKSHERE DRIVE
             MANNINGTON, WV 26582
   Telephone (304)- 986-5680

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or
contracts by which I hold the right to extract oil and gas OR
Included is the information required by Chapter 22B, Article 1,
Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22B of the West Virginia Code
I have served copies of this notice and application, a location plat, and
accompanying documents pages 1 through ____ on the above named parties, by:
   ___ Personal Service (Affidavit attached)
   ___ Certified Mail (Postmarked postal receipt attached)
   ___ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree
to the terms and conditions of any permit issued under this application.
I certify under penalty of law that I have personally examined and am
familiar with the information submitted on this application form and all
attachments, and that based on my inquiry of those individuals immediately
responsible for obtaining the information, I believe that the information
is true, accurate, and complete.
I am aware that there are significant penalties for submitting false
information, including the possibility of fine and imprisonment.

Well Operator  COLUMBIA GAS TRANSMISSION CORP.
By: ________________________________
Its: ________________________________
Address  P. O. BOX 1273
         CHARLESTON, WV 25325-1273
Telephone  304-357-3034

My commission expires 3/12/95

Notary Public
My commission expires 3/22/95

_________________________ ____________________________
Mary Marie Clemenin  July 12, 1994
SURFACE OWNER(S) TO BE SERVED: CONTINUED

(D) NAME: DONALD REX QUIGLEY  
    RD 5, BOX 214  
    CAMERON, WV  26033