Latitude

118°55'30"
113°W

Topo Location

7.5' Loc. 15' Loc. (calc.)

Company  Mabufett Lt + Lt

Farm  Catherine Fay  # 2347

15' Quad  (sec.)

7.5' Quad  Cameron

District  Liberty

WELL LOCATION PLAT

County  OS1  Permit  756
State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: CUMPSTON, GEORGE & NANCY  Operator Well No.: L-2347

LOCATION:
  Elevation: 999.00  Quadrangle: CAMERON
  District: LIBERTY  County: MARSHALL
  Latitude: 10300 Feet South of 39 Deg. 47 Min. 30 Sec.
  Longitude: 6100 Feet West of 80 Deg. 35 Min. Sec.

Company: COLUMBIA GAS TRANSMISSION
1700 MacCORKLE AVENUE S.E.
CHARLESTON, WV 25314-0000

Agent: ROBERT C. WEIDNER

Inspector: RANDAL MICK
Permit Issued: 08/17/93
Well work Commenced: 10/20/93
Well work Completed: 2/4/94
Verbal Plugging
Permission granted on: ____________

Rotary X Cable Rig
Total Depth (feet) 1989
Fresh water depths (ft) _______
Salt water depths (ft) _______

NOT RECORDED BY DRILLER

Is coal being mined in area (Y/N)? No
Coal Depths (ft): N/A

Casing & Used in Left Cement Fill Up
Tubing Drilling in Well Cu. Ft.

Size
10 1/2” o.d. 259’ 259’ 148
8 5/8” o.d. 1134’ 1134’ 148
7” o.d. 1756’ 1756’ 266
4 1/2” o.d. 2024’ 2024’ 118

OPEN FLOW DATA

Producing formation Big Indian SAND  Pay zone depth (ft) 1366’
Gas: Initial open flow 84 MCF/d Oil: Initial open flow ______ Bbl/d
Final open flow 14800 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

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 ENCOUNTERED BY THE WELBORE.

For: COLUMBIA GAS TRANSMISSION CORP.

By: Ronald A. Schenk
Date: July 28, 1994

Final open flow calculated from back-pressure test run on 5/24/94. Calculated flow & 800 psig.
10/21/93 Cleaned out to the plugged back total depth at 2022 ft.

10/26/93 Ran 2024 ft. of 4½" o.d. K-55 11/8 ppf casing and Halliburton cemented in place with 100 lbs.

10/28/93 Installed a new 7" x 4½", API 2000, Barton flanged wellhead with 2-4½", API 2000, Barton gate valves.

11/30/93 Atlas Wireline Services perforated the 4½" o.d. casing from 1866' to 1876' and from 1892' to 1902' at 6 shots/ft.

12/3/93 Halliburton fractured the Big Injun Sand with 500 gal. of 10% Fe acid, 528 gal. of gelled water, 5,000# of 80/100 sand and 25,000# of 20/40 sand. Ran Prop-Lok additive in the last 10,000# of 20/40 sand pumped.

Formation Depths (from Service Company logs run by Halliburton Logging Services on 10/22/93):

<table>
<thead>
<tr>
<th>Formation</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td>648'</td>
<td>656'</td>
</tr>
<tr>
<td>Big Dunkard Sand</td>
<td>1199'</td>
<td>1233'</td>
</tr>
<tr>
<td>Maxton Sand</td>
<td>1701'</td>
<td>1711'</td>
</tr>
<tr>
<td>Lower Maxton Sand</td>
<td>1737'</td>
<td>1755'</td>
</tr>
<tr>
<td>Big Lime</td>
<td>1755'</td>
<td>1780'</td>
</tr>
<tr>
<td>Big Injun Sand</td>
<td>1780'</td>
<td>-</td>
</tr>
<tr>
<td>Total Depth</td>
<td>-</td>
<td>1989'</td>
</tr>
</tbody>
</table>
# WELL RECORD

**Company:** The Manufacturers Light and Fuel Company  
**Address:** 800 Union Trust Building, Pgh. 19, Pa.

**Farm:** Catherine Fry  
**Acres:** 120

**Location (wells):** Address

**Well No.:** 2337  
**Ft. below surface:** 374.5

**District:** Liberty  
**County:** Marshall

**Mineral rights are owned by:** Address

**Drilling commenced:** December 9, 1918  
**Drilling completed:** January 31, 1919

**Date Shot:** From  
**To:**

**Open Flow 10ths Water in:** Inch
**10ths Merc. in:** Inch

**Volume:** Cu. Ft.

**Rock Pressure:** lbs.  
**lbs., let 24 hrs.:**

**Oil:**

**Fresh water:** feet  
**Salt water:** feet

---

### FORMATION DETAILS

<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top</th>
<th>Bottom</th>
<th>OIL Gas or Water</th>
<th>Depth Found</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapletown Coal</td>
<td></td>
<td></td>
<td>567</td>
<td>573</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pittsburgh Coal</td>
<td></td>
<td></td>
<td>640</td>
<td>648</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Murphy Sand</td>
<td></td>
<td></td>
<td>780</td>
<td>700</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Little Dunkard, Dark, Hard</td>
<td></td>
<td></td>
<td>930</td>
<td>970</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big Punkard - White, Hard</td>
<td></td>
<td></td>
<td>1130</td>
<td>1259</td>
<td>8 3/4 3/4 Anchor</td>
<td>260810 125 3-Joints</td>
<td></td>
</tr>
<tr>
<td>Salt Sand - Dark, Hard</td>
<td></td>
<td></td>
<td>1400</td>
<td>1459</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marion Sand - White, Hard</td>
<td></td>
<td></td>
<td>1620</td>
<td>1648</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big Lime - White, Hard</td>
<td></td>
<td></td>
<td>1740</td>
<td>1748</td>
<td>9 1/2 x 4 1/2 CMS Anchor</td>
<td>2550</td>
<td>Packer on Gage</td>
</tr>
<tr>
<td>Big Injun - White, Hard</td>
<td></td>
<td></td>
<td>1795</td>
<td>1798</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 ft. Sand - White, Hard</td>
<td></td>
<td></td>
<td>2500</td>
<td>2518</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand (shells) - White, Hard</td>
<td></td>
<td></td>
<td>2550</td>
<td>2580</td>
<td>10 - 200 - 240 - 270 - 290 - 320 300 gos. 2,356,000 cu. ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand (shells) - Dark, a-d</td>
<td></td>
<td></td>
<td>2605</td>
<td>2635</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gordon Stray</td>
<td></td>
<td></td>
<td>2658</td>
<td>2678</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Depth</td>
<td></td>
<td></td>
<td>2678</td>
<td>2678</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Slate - White, Soft:** 100  
- **Rock - Red, Soft:** 100  
- **Sand - White, Hard:** 25  
- **Slate - White, Soft:** 75  
- **Lime - White, Hard:** 45  
- **Sand - White, Hard:** 50  
- **Coal - Dark, Soft:** 5  
- **Slate - Dark, Soft:** 15  
- **Lime - White, Hard:** 25  
- **Sand - White, Hard:** 50  
- **Slate - Dark, Soft:** 80  
- **Lime - White, Hard:** 7  
- **Coal - Black, Soft:** 6  
- **Slate - Dark, Soft:** 12  
- **Lime - White, Hard:** 45  
- **Sand - White, Hard:** 10  
- **Coal - Black, Soft:** 50  

---

**Oil or Gas Well GAS:** (measured)

**Used in Drilling:**  
**Left in Well:**  
**Packers:**

**Size:**  
**Kind of Packer:**

**Size of:**  
**Depth set:**

**Perf. top:**  
**Perf. bottom:**

**Casing Cemented:**

**Size:**  
**No. Ft.:**

**Date:**

**Coal was encountered at:**

**FEET:**

**INCHES:**
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION  

1) Well Operator: **COLUMBIA GAS TRANSMISSION CORP.** 10450  
2) Operator's Well Number: **L-2347**  
3) Elevation: **999**  
4) Well type: (a) Oil /  or Gas X/  
   (b) If Gas: Production Deep /  Underground Storage X/  
5) Proposed Target Formation(s): **BIG INJUN SAND**  
6) Proposed Total Depth: **2050** feet  
7) Approximate fresh water strata depths: **150'**  
8) Approximate salt water depths: **780'**  
10) Does land contain coal seams tributary to active mine? Yes /  No /  
11) Proposed Well Work: **KILL WELL: CLEAN OUT TO 2050', RUN AND CEMENT 4-1/2" CASING THROUGH BIG INJUN SAND; PERFORATE AND FRACTURE.**  

### 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>Conductor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fresh Water</td>
<td>10-3/4&quot; H</td>
<td>32.75</td>
<td>260'</td>
</tr>
<tr>
<td>Coal</td>
<td>8-5/8&quot; J</td>
<td>24</td>
<td>1134'</td>
</tr>
<tr>
<td>Intermediate</td>
<td>7&quot; J</td>
<td>20</td>
<td>1754'</td>
</tr>
<tr>
<td>Production</td>
<td>4-1/2&quot; K</td>
<td>11.6</td>
<td>2050'</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 Division of Oil and Gas Use Only  
1. Fee(s) paid: [ ] Well Work Permit [ ] Reclamation Fund [ ] WPCP  
   [ ] Plat [ ] WW-9 [ ] WW-2B [ ] Bond [ ] Surety Blanket [ ] Agent  
   (Type)
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
   (a) Name George R. & Nancy Cumpston
       Address RD 5, Box 198
           Cameron, WV 26033
   (b) Name ____________________________
       Address __________________________
   (c) Name ____________________________
       Address __________________________

5) (a) Coal Operator:
   Name ______________________________
   Address __________________________
   (b) Coal Owner(s) with Declaration
       Name Consolidation Coal Co.
       Address 1800 Washington Road
                 Pittsburgh, PA 15241
       Name ____________________________
       Address __________________________
   (c) Coal Lessee with Declaration
       Name ____________________________
       Address __________________________

6) Inspector Randal Mick
    Address 111 Blackshore Drive
             Mannington, WV 26582
    Telephone (304)-686-3324

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

X 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)

X 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: DIRECTOR, DRILLING & MAINTENANCE
   Address P. O. BOX 1273
          CHARLESTON, WV 25325-1273
   Telephone 304-337-2459

Subscribed and sworn before me this 3rd day of August, 1993

Mary Parsons
Notary Public
MEMORANDUM

To: Dick Coty

From: Don Burnside

Date: June 3, 1993

Subject: Victory Storage - Reconditioning of Storage Well

As per your request, the following parties are the owners of the Surface and Coal.

Lease No. 6835 Well 2347

Surface: George R. and Nancy Cumpston
           RD 5 Box-198
           Cameron, WV 26033

Coal: Consolidation Coal Company
       1800 Washington Road
       Pittsburg, PA 15241

If I may further assist, please contact me.
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPlicate. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

M. A. Hanna Coal Company
1300 Lead Building
Cleveland, Ohio

Coal Operator or Owner

The Manufacturer's Light & Heat Company
300 Water Street
Pittsburgh 22, Pennsylvania

Well and Location

February 9, 1959

County

Well No. 2247

STATE INSPECTOR SUPERVISING PLUGGING
Oscar Butcher, Harwood, West Virginia

STATE OF WEST VIRGINIA.

County of Marshall

Es:

Tom Calwell and Phillip W. Whisler

being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by The Manufacturer's Light & Heat Co. well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 27th day of January, 1959, and that the well was plugged and filled in the following manner:

<table>
<thead>
<tr>
<th>SAND OR SAND RECORD</th>
<th>FILLING MATERIAL</th>
<th>PLUGS USED</th>
<th>CASING</th>
</tr>
</thead>
<tbody>
<tr>
<td>2730' to 2775'</td>
<td>Natural Fill</td>
<td></td>
<td>18-15th</td>
</tr>
<tr>
<td>2775' to 3105'</td>
<td>Red Mud</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3105' to 3205'</td>
<td>Stone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3205' to 3300'</td>
<td>Neat Cement</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Coal Seam

Pittsburgh 663' to 655'

Description of Monument

Partial Plugging Job

and that the work of plugging and filling said well was completed on the 27th day of January, 1959.

And further deponents saith not.

Sworn to and subscribed before me this 9th day of January, 1959.

My commission expires: April 27, 1959

Notary Public

Permit No. MARS - 393 - A

[Signature]

[Signature]

CS1 - 6756