STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL
GAS X LIQUID INJECTION
WASTE DISPOSAL
(IF "GAS," PRODUCTION X STORAGE DEEP SHALLOW X)

LOCATION: ELEVATION 1390 WATER SHED Wherry Run
DISTRICT Sand Hill COUNTY Marshall
QUADRANGLE Valley Grove, WVa.-Pa. 7.5 WHEELING 15
SURFACE OWNER Walter McCreaery Heirs ACREAGE 175
OIL & GAS ROYALTY OWNER Walter McCreaery, Heirs LEASE ACREAGE 175
LEASE NO. 33818

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRAC TURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION, Gordon Sand ESTIMATED DEPT 2950
WELL OPERATOR, Columbia Gas Transmission Corp. DESIGNATED AGENT J.R. Henning
ADDRESS PO Box 1273 Charleston, WVa 25325
ADDRESS PO Box 1273 Charleston, WVa 25325

DATE January 14 1982
OPERATOR'S WELL NO. 21032
API WELL NO. 1874
STATE COUNTY PERMIT
47 Marshall 0 700

FILE NO. F.B.1385-N Pg 62
DRAWING NO. 1"=800'
SCALE 1"=800'
MINIMUM DEGREE OF ACCURACY 1/2500
PROVEN SOURCE OF ELEVATION BM 1463-USGS A
Pt. Wilson Knob
R.E. L.L. 69

THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES (SIGNED).
IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

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

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1390 Watershed: Wherry Run
District: Sand Hill County: Marshall Quadrangle: Valley Grove

COMPANY: Columbia Gas Trans. Corp.
ADDRESS: P. O. Box 1273

DECLINED AGENT: J. L. Weekley
ADDRESS: P. O. Box 1273

SUEFACE OWNER: C. E. McCreary
ADDRESS: RD 3, Box 129 Wheeling

MINERAL RIGHTS OWNER: C. E. McCreary
ADDRESS: RD 3, Box 129

OIL AND GAS INSPECTOR FOR THIS WORK: Robert Lowther
ADDRESS: Middlebourne, WV

PERMIT ISSUED: 7/5/82
DRILLING COMMENCED: 8/14/82
DRILLING COMPLETED: 9/10/82

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON 11/2/82

GEOLOGICAL TARGET FORMATION: Gordon
Depth: 2950 feet
Depth of completed well: 2950 feet
Rotary X / Cable Tools
Water strata depth: Fresh - feet; Salt - 880 feet
Coal seam depths: 757-763 feet
Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation: DRY HOLE
Pay zone depth: - 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 13 holes between 2485'-2490'
Broke down formation with 500 gals. - MCA
Fractured with 45,010 gals. of water and 425 sacks of 20/50 sand
Set 4½" bridge plug @ 2400' with 10' of Cal Seal on top
Perforated 11 holes between 1992' - 2019
Broke down formation with 500 gals. MCA
Set 4½" bridge plug @ 1900' with 10' of Cal Seal on top
Recovered 1092' of 4½" casing
Spotted a cement plug from 600'-1100'
Top plug 0-50' (between plugs is gel)

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>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td></td>
<td></td>
<td>757'</td>
<td>763'</td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td>1311'</td>
<td>1344'</td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td>1450'</td>
<td>1493'</td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td>1568'</td>
<td>1644'</td>
<td></td>
</tr>
<tr>
<td>Maxon</td>
<td></td>
<td></td>
<td>1728'</td>
<td>1856'</td>
<td></td>
</tr>
<tr>
<td>Big Lime</td>
<td></td>
<td></td>
<td>1876'</td>
<td>1980'</td>
<td></td>
</tr>
<tr>
<td>Big Injun</td>
<td></td>
<td></td>
<td>1980'</td>
<td>2146'</td>
<td></td>
</tr>
<tr>
<td>2nd Gas Sand</td>
<td></td>
<td></td>
<td>2426'</td>
<td>2444'</td>
<td></td>
</tr>
<tr>
<td>Berea</td>
<td></td>
<td></td>
<td>2484'</td>
<td>2529'</td>
<td></td>
</tr>
<tr>
<td>Gordon interval</td>
<td></td>
<td></td>
<td>2852'</td>
<td>2882'</td>
<td>T.D. 2950</td>
</tr>
</tbody>
</table>

(Associate separate sheets as necessary)

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
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas X /

(If "Gas", Production X / Underground storage / Deep / Shallow X /)

LOCATION:
Elevation: 1390
District: Sand Hill

Watershed: Wherry Run
County: Marshall
Quadrangle: Valley Grove

WELL OPERATOR: Columbia Gas Transmission Corp.
Address: P. O. Box 1273
Charleston, WV 25325

OIL AND GAS
ROYALTY OWNER: Catherine E. McCready
Address: R. D. 3 Box 129
Wheeling, WV 26002
Acreage: 175

SURFACE OWNER: Same as Royalty Owner

Acreage

FIELD SALE (IF MADE) TO:
NAME
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME: Robert Lowther
Address: General Delivery
Middlesboro, WV 26119

DESIGNATED AGENT: J. L. Weekley
Address: P. O. Box 1273
Charleston, WV 25325

COAL OPERATOR:
Address

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME: Consolidation Coal Company
Address: c/o Don Self
645 Pleasant St., Liberty, PA 15129
NAME: State of W. Va. c/o Billy Snead
Address: Auditor's Office, State Office Bldg
Charleston, WV 25311

COAL LESSEE WITH DECLARATION ON RECORD:
NAME: None
Address

RECEIVED

JUN 17 1982
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated 9/16/1976, to the undersigned well operator from

(If said deed, lease, or other contract has been recorded:)

Recorded on 9/19, in the office of the Clerk of County Commission of

Marshall County, West Virginia, in Book at page 43 A. A permit is requested as follows:

PROPOSED WORK:
Drill X / Drill Deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify)

--planned as shown on the work order on the reverse side herof.

The above named coal operator, coal owner(s), and coal lessees are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dep Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed or registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOGRAPHICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 Washington St., E.
Charleston, WV 25311
Telephone - 304/348-3092

Columbia Gas Transmission Corporation
Well Operator

By: [Signature]
Title: Manager, Drilling & Operations, East
PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) ________________________________

Address ______________________________________________________

GEOLOGICAL TARGET FORMATION Gordon

Estimated depth of completed well 2950 feet. Rotary X / Cable tools /
Approximate water strata well: Fresh, 490 feet; salt, 240 feet.
Approximate coal seam depths:
Is coal being mined in this area: Yes / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE | SPECIFICATIONS | FOOTAGE INTERVALS | CEMENT FILL UP OR SACKS | PACKERS
|------------------------|---------------|------------------|-----------------------------|-------------
|                        | Weight Per ft | For Drill Left in | Well Cubic ft. | Sizes |
| Conductor 11-3/8 X | X | 60 60 | To surface |
| Fresh water | | | |
| Coal | | | |
| Interbed 18-5/8 X | | 600 600 | To surface |
| Production 14-1/2 | | 2950 | Depths set |
| Tubing | | | |
| Liners | | | |
| Perforations: | | | |
| Top Bottom | | | |

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four
clips of Form IV-2 must be filed with the Department, accompanied by (i) a plat in
the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by
Regulation 12, or in lieu thereof the other security allowed by Code 622-4-2, (iii)
form IV-9, "Reclamation Plan" applicable to the reclamation required by Code
12-1-12b and Regulation 23, (iv) unless previously paid on the same well, the fee
required by Code 622-4-12a, and (v) if applicable, the consent required by Code
12-1-1a from the owner of any water well or drilling within 200 feet of the pro-
posed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well
where fracturing or stimulating is to be part of the work for which a permit is
sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS EING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE VA. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR _drilling___. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY _3-2-83__.

The undersigned coal operator / owner / lessee / of the coal under this well
location has examined this proposed well location. If a mine map exists which covers the
area of the well location, the well location has been added to the mine map. The under-
signed has no objection to the work proposed to be done at this location, provided the
well operator has complied with all applicable requirements of the West Virginia Code and
the governing regulations.

Date: _ , 19__

By: ____________________________

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well
location has examined this proposed well location. If a mine map exists which covers the
area of the well location, the well location has been added to the mine map. The under-
signed has no objection to the work proposed to be done at this location, provided the
well operator has complied with all applicable requirements of the West Virginia Code and
the governing regulations.

Date: ________________

By: ____________________________
STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELLS

STATE inspector supervising plugging: Robert Lowther

Consolidated Coal Company  
6451 Pleasant St., Liberty, Pa. 15129  
Columbia Gas Trans. Corp.  
P. O. Box 1273, Charleston, WV

Hillman Coal and Coke Company  
1900 Grant Building, Pittsburgh, Pa. 15222  
C. E. McCready  
3RD. 3 Box 129 Wheeling, WV

NAME OF WELL OPERATOR

FAVOURABLE ADDRESS

WELL AND LOCATION

COMPLETE ADDRESS

November 4, 82

Sand Hill

District

Marshall

County

Well No. 21032

W. McCready  

Farm

STATE INSPECTOR SUPERVISING PLUGGING

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 Columbia Gas well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 2nd day of November, 1982, and that the well was plugged and filled in the following manner:

<table>
<thead>
<tr>
<th>SAND OR ZONE RECORD</th>
<th>FILLING MATERIAL</th>
<th>PLUGS USED</th>
<th>CASING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>SIZE &amp; ZINC</td>
<td>GSG PULLED</td>
</tr>
<tr>
<td>Rig Injun</td>
<td>4½&quot; casing, cement and Cal Seal</td>
<td>4½&quot; Bridge @</td>
<td>1900'</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Berea</td>
<td>4½&quot; casing, cement and Cal Seal</td>
<td>4½&quot; Bridge @</td>
<td>1092'</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pittsburgh Coal</td>
<td>Gel 1100'-1890'</td>
<td>500' cement</td>
<td>802' 8-5/8' casing</td>
</tr>
<tr>
<td></td>
<td>Gel 50'-600'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface</td>
<td>0'-50' cement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

and that the work of plugging and filling said well was completed on the 2nd day of November, 1982.

And further deponents saith not.

Sworn to and subscribed before me this 12th day of January, 1983.

Notary Public.

Permit No. 47-051-0700

My commission expires: August 13, 1989