EDWIN CAIN
3358-97a
(WILLIAM M. CAIN)

W.F. SMITH

NORTH

3611
EL. 953

A L Tude 39° 20'00"

LONGITUDE 80° 47'30"

MAP SHEET-QII(1)35.FF4132051 FB-21842630-37

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

FILE NO. ________________________________
DRAWING NO. ________________________________
SCALE ________________________________
MINIMUM DEGREE OF ACCURACY ________________________________
PROVEN SOURCE OF ELEVATION USGS BM on Nutter Ft
Brig. West Union Topo 75° EL. 752.0'
(M-142) 1957

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)

PUE. ________________________________
R.P.E. ________________________________
L.L.S. ________________________________

PLACE SEAL HERE

DATE ________________________________
OPERATOR'S WELL NO. ________________________________
API WELL NO. ________________________________
STATE COUNTY PERMIT

47 - 017 - 1944-DD

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

(+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
IF "GAS," PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION ___ WATER SHED ___ MIDDLE ___ ISLAND ___ CREEK ___
DISTRICT ___ WEST UNION ___ LEL COUNTY ___ DODDRIDGE ___
QUADRANGLE ___ WEST UNION ___ 75 ___ 15 ___ SE ___
SURFACE OWNER DONALD D. LEMASTERS ___ ACREAGE ___
OIL & GAS ROYALTY OWNER EDWIN CAIN (now WILLIAM M. CAIN) ___ LEASE ACREAGE ___
LEASE NO. 3358 ___

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

APR 2 1984

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION ___ HAVERTY 1 1/2 ESTIMATED DEPTH 5335
WELL OPERATOR CON GAS TRANS. CORP. DESIGNATED AGENT L.J. TIMMS JR
ADDRESS 445 WEST MAIN STREET CLARKSBURG, WEST VIRGINIA
ADDRESS 445 WEST MAIN STREET CLARKSBURG, WEST VIRGINIA 4419
EDWIN CAIN
3358-97a.

ALEX DOAK

Minimum Error of Closure 1' IN 200'
Source of Elevation C.G.S.C. WELL 3429 = EL. 733'

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

M.S.60, 58-W12, FB.1216, Pos.16817

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

WELL LOCATION MAP
FILE NO. 017-1944 RED

Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

Denotes one inch spaces on border line of original tracing.

Olin Wilbur (92)
JUL 28 1980
State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Summers, Donald L.  Operator Well No.: 3611

LOCATION: Elevation: 955'  Quadrangle: West Union

District: West Union  County: Doddridge

Latitude: 39 Deg. 20 Min. 00 Sec.  1,075 Feet South of
Longitude: 80 Deg. 47 Min. 30 Sec.  8,425 Feet West of

Company: Dominion Transmission, Inc

Address: 445 W Main Street
          Clarksburg, WV 26301

Agent: Brian Sheppard

Inspector: Tim Bennett

Date Permit Issued: 10/24/2001

Date Well Work Commenced: WR-35 for Existing

Date Well Work Completed: 12/14/2001 Casing Program

Verbal Plugging:  N/A

Date Permission granted on: N/A

Rotary X Cable Rig

Total Depth (feet): N/A

Fresh Water Depth (ft.): N/A

Salt Water Depth (ft.): N/A

Is coal being mined in area (N/Y)? N

Coal Depths (ft.): N/A

OPEN FLOW DATA

Producing formation Gordon  Pay zone depth (ft) 2552-2562'

Gas: Initial open flow 3 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 94 MCF/d  Final open flow 0 Bbl/d
Time of open flow between initial and final tests 12 Hours

Static rock Pressure 280 psig (surface pressure) after 12 Hours

* Comingled w/previous formations

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 WELLBORE.

Signed:  

By: Brian Sheppard  
Date: 02-01-02
COMPANY/WELL NO.: DTI 3611

01/22/2002

12/14/01 PERFORATED AS FOLLOWS: TD AT 4404', TOC AT 1260'
GORDON, 2552 - 2562', 20 HOLES, BD 1725#, AVG RATE 13 BPM, AVG PRESS 2104', 302 BBLs, TOT SAND 20,000#, ISIP 1850#
### 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: 953'
- Watershed: Middle Island Creek
- District: West Union
- County: Doddridge Quadrangle
- West Union

**Company:** Consolidated Gas Transmission Corp.

**Address:** 145 W. Main St., Clarksburg, WV

**Designated Agent:** W. A. Fox

**Address:** 145 W. Main St., Clarksburg, WV

**Surface Owner:** Donald D. Lemasters

**Address:** Middlebourne Star Rd., West Union, WV 26456

**Mineral Rights Owner:** William M. Cain

**Address:** 204 Front St., West Union, WV 26456

**Oil and Gas Inspector For This Work:** Stephen Casey

**Address:** Rt. 2, Box 232-D, Jane Lew, WV 26121

**Permit Issued:** March 29, 1984

**Drilling Commenced:** May 22, 1984

**Drilling Completed:** June 2, 1984

**Casing Tubing**

<table>
<thead>
<tr>
<th>Size</th>
<th>Used in Drilling</th>
<th>Left Cement fill up</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-10&quot;</td>
<td>20-16 Cond.</td>
<td>1847</td>
</tr>
<tr>
<td>9 5/8</td>
<td>8 5/8</td>
<td>7</td>
</tr>
<tr>
<td>1/2</td>
<td>4 1/2</td>
<td>5340</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>100 sks.</td>
</tr>
</tbody>
</table>

**Liners used**

- 1
- 2

**Geological Target Formation**

- Benson & Cedar Creek

<table>
<thead>
<tr>
<th>Depth of completed well</th>
<th>Depth from tops</th>
<th>Depth from tops</th>
<th>Rotary X / Cable Tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>5362 feet</td>
<td>5362 feet</td>
<td>5362 feet</td>
<td>5362 feet</td>
</tr>
</tbody>
</table>

**Water strata depth:** Fresh none feet

**Salt feet**

**Coal seam depths:** 550-560 feet

**Is coal being mined in the area?** No

**Open Flow Data**

**Producing formation:** Benson & Cedar Creek

<table>
<thead>
<tr>
<th>Pay zone depth</th>
<th>See perf. feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>179</td>
<td>179</td>
</tr>
</tbody>
</table>

**Gas:**
- Initial open flow odor Mcf/d
- Final open flow 179 Mcf/d

**Oil:**
- Initial open flow Bbl/d
- Final open flow 179 Bbl/d

**Time of open flow between initial and final tests:** 2 hours

**Static rock pressure:** 1560 psig (surface measurement) after 14 hours, shut in

**If applicable due to multiple completion**

**Second producing formation**

<table>
<thead>
<tr>
<th>Pay zone depth</th>
<th>feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>179</td>
<td>179</td>
</tr>
</tbody>
</table>

**Gas:**
- Initial open flow Mcf/d
- Final open flow 179 Mcf/d

**Oil:**
- Initial open flow Bbl/d
- Final open flow 179 Bbl/d

**Time of open flow between initial and final tests:** 7 hours

**Static rock pressure:** psig (surface measurement)

<table>
<thead>
<tr>
<th>Date</th>
<th>August 5, 1984</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator's Well No.</td>
<td>3611</td>
</tr>
<tr>
<td>Farm</td>
<td>Edwin Cain</td>
</tr>
<tr>
<td>API No.</td>
<td>47 - 017 - 1044-DR</td>
</tr>
</tbody>
</table>

**Resolved**

- September 17, 1984
### Details of Perforated Intervals, Fracturing or Stimulating, Physical Change, Etc.

Fractured with 720 bbls. water, 50,000# sand and 750 gals. acid.

Perforations: 4334 - 4330. Total 8 holes. (Reley?)
Fractured with 450 bbls. water, 30,000# sand and 750 gals. acid.

### WELL LOG

<table>
<thead>
<tr>
<th>FORMATION</th>
<th>COLOR</th>
<th>HARD OR SOFT</th>
<th>TOP FEET</th>
<th>BOTTOM FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td></td>
<td></td>
<td>559</td>
<td>560</td>
</tr>
<tr>
<td>Dunkard</td>
<td></td>
<td></td>
<td>835</td>
<td>1025</td>
</tr>
<tr>
<td>Salt</td>
<td></td>
<td></td>
<td>1375</td>
<td>1690</td>
</tr>
<tr>
<td>Maxon</td>
<td></td>
<td></td>
<td>1590</td>
<td>1700</td>
</tr>
<tr>
<td>Injun</td>
<td></td>
<td></td>
<td>1883</td>
<td>1995</td>
</tr>
<tr>
<td>New Hole</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stale</td>
<td></td>
<td></td>
<td>2010</td>
<td>2135</td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td></td>
<td>2135</td>
<td>2550</td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td>2550</td>
<td>2565</td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td></td>
<td>2565</td>
<td>3235</td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td>3235</td>
<td>3277</td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td></td>
<td>3277</td>
<td>4408</td>
</tr>
<tr>
<td>Sand &amp; Shale Breaks</td>
<td></td>
<td></td>
<td>4408</td>
<td>4820</td>
</tr>
<tr>
<td>Benson</td>
<td></td>
<td></td>
<td>4820</td>
<td>4850</td>
</tr>
<tr>
<td>Shale</td>
<td></td>
<td></td>
<td>4850</td>
<td>5200</td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td></td>
<td></td>
<td>5200</td>
<td>5230</td>
</tr>
<tr>
<td>Shale</td>
<td></td>
<td></td>
<td>5230</td>
<td>5350</td>
</tr>
</tbody>
</table>

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

T.D. 5360
2010

3350 DD ftg

(Attach separate sheets as necessary)

Consolidated Gas Transmission Corp.

Well Operator

By: [Signature]

Date: [Signature]

**Note:** Regulation 3.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including all encountered in the drilling of a well."
# Oil and Gas Division

## WELL RECORD

**Quadrangle:** West Union  
**Permit No.:** L7-017-39th-Red

<table>
<thead>
<tr>
<th>Company</th>
<th>Consolidated Gas Supply Corp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>145 W. Main St., Clarksburg, WV</td>
</tr>
<tr>
<td>Farm</td>
<td>Edwin Cain</td>
</tr>
<tr>
<td>Location (waters)</td>
<td>Middle Island Creek</td>
</tr>
<tr>
<td>Well No.</td>
<td>3511</td>
</tr>
<tr>
<td>District</td>
<td>West Union</td>
</tr>
<tr>
<td>County</td>
<td>Doddridge</td>
</tr>
<tr>
<td>The surface of tract owned in fee by</td>
<td>Dale Moore, Jr.</td>
</tr>
<tr>
<td>Address stars n.</td>
<td>18 n. West Union, WV 26166</td>
</tr>
<tr>
<td>Mineral rights owned by</td>
<td>Edwin Cain Heirs</td>
</tr>
<tr>
<td>Recondition</td>
<td>Various</td>
</tr>
<tr>
<td>Drilling-Commenced</td>
<td>June 20, 1980</td>
</tr>
<tr>
<td>Drilling-Completed</td>
<td>September 3, 1980</td>
</tr>
<tr>
<td>Initial open flow</td>
<td>cu. ft. bbls.</td>
</tr>
<tr>
<td>Final production</td>
<td>cu. ft. per day bbls.</td>
</tr>
<tr>
<td>Well open</td>
<td>hrs. before test RP.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing and Tubing</th>
<th>Used in Drilling</th>
<th>Left in Well</th>
<th>Cement fill up Cu. ft. (Sks.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>20-16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cond.</td>
<td>13-10&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 5/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 5/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/1 6.5/8</td>
<td></td>
<td></td>
<td>18/7</td>
</tr>
<tr>
<td>5 1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2000</td>
<td>2000</td>
<td></td>
</tr>
</tbody>
</table>

Well treatment details:
- Pulled 2010' of 2' tubing. Bailed well.
- Ran 2000' of 2' tubing with packer set at 1578'. 122' of anchor below racker.
- Bailed well.

- Coal was encountered at 559' Feet 12 Inches
- Fresh water None Feet Salt Water Feet
- Producing Sand Injun Depth

<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top Feet</th>
<th>Bottom Feet</th>
<th>Oil, Gas or Water</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pittsburgh Coal</td>
<td></td>
<td></td>
<td>559</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Dunkard</td>
<td></td>
<td></td>
<td>835</td>
<td>1025</td>
<td></td>
<td></td>
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<tr>
<td>Salt</td>
<td></td>
<td></td>
<td>1375</td>
<td>1690</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maxon</td>
<td></td>
<td></td>
<td>1690</td>
<td>1700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Injun</td>
<td></td>
<td></td>
<td>1883</td>
<td>1995</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Depth</td>
<td></td>
<td></td>
<td></td>
<td>2010</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RECEIVED**  
**FEB - 4 1981**

**OIL & GAS DIVISION**  
**DEPT. OF MINES**

**Consolidated Gas Supply Corp.**  
**145 West Main Street**  
**Clarksburg, West Virginia**

**Manager of Prod.**  
**February 3, 1981**  
**MAR 9 1981**
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner: Dale Moore Jr.
Address: Star Rt. 18, N. West Union, WV 26656

Mineral Owner: Edwin Cain Hirs
Address: Various

Coal Owner: Unknown
Address: None

DATE: June 19, 1980

Company: Consolidated Gas Supply Corp.
Address: 445 W. Main St., Clarksburg, WV

Farm: Edwin Cain
Acres: 97

Location (water):

Well No.: 3611
Elevation: 938'

District: West Union
County: Doddridge

Quadrange: West Union

 This PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 2-25-81.

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated April 28, 19.99 by Edwin Cain, et ux

made to Carter Oil Company and recorded on the day of

19, in Doddridge County, Book 16 Page 85

NEW WELL DRILL DEEPER REDRILL X RECONDITION

X OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

BLANKET BOND

Very truly yours,
(Sign Name)
Consolidated Gas Supply Corporation
Street
445 West Main Street
City or Town
Clarksburg, West Virginia 26301
State

47-017-1944-REDRILL PERMIT NUMBER

*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.
PROPOSED WORK ORDER TO DRILL DEEPEN RECONDITION
DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
NAME: Company Spudder NAME: R. E. Bayne
ADDRESS: ADDRESS: Clarksburg, WV
TELEPHONE: TELEPHONE: 623-0440
ESTIMATED DEPTH OF COMPLETED WELL: 2010 ROTARY: CABLE TOOLS:
PROPOSED GEOLOGICAL FORMATION: Injun
TYPE OF WELL: OIL GAS X COMB STORAGE DISPOSAL
RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

<table>
<thead>
<tr>
<th>CASING AND TUBING</th>
<th>USED FOR DRILLING</th>
<th>LEFT IN WELL</th>
<th>CEMENT I DON'T UP OR SACKS - CUR TIE</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 - 16</td>
<td>Pull 2&quot; tubing, clean out to T.D. Log.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 - 10</td>
<td>Re-run tubing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 - 5/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 - 5/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liners</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

APPROXIMATE FRESH WATER DEPTHS FEET SALT WATER FEET
APPROXIMATE COAL DEPTHS 550
IS COAL BEING MINED IN THE AREA? No BY WHOM?

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1. $100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/O OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/O OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for ____________ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the ____________ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

[Signature]

Official Title
STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
APPLICATION FOR A WELL WORK PERMIT  

1) Date: March 26, 1984  
2) Operator's Well No. 3611  
3) API Well No. 47-017-1944-DD  

4) WELL TYPE: A Oil X Gas / Underground storage / Deep / Shallow /  

5) LOCATION:  
Elevation: 938'  
District: West Union  
County: Doddridge  
Watershed: Middle Island Creek  
Quadrangle: West Union  

6) WELL OPERATOR  
Consolidated Gas Transmission Corp.  
445 West Main Street  
Clarksburg, West Virginia 26301  

7) DESIGNATED AGENT  
William A. Fox  
445 West Main Street  
Clarksburg, West Virginia  

8) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name: Stephen Casey  
Address: Rt. 2, Box 232-D  
Jane Lew, WV 26378  

9) DRILLING CONTRACTOR:  
Name: S. W. Jack Drilling Co.  
Address: Indiana, Pa.  

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

11) GEOLOGICAL TARGET FORMATION, Haverly  

12) Estimated depth of completed well, 5335 feet  

13) Approximate strata depths:  
Fresh, None feet; salt, feet.  

14) Approximate coal seam depths: 559-560 Is coal being mined in the area? Yes / No X  

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>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor 1-1/2 X H-40 10 X</td>
<td>600 / 600 / 600 To surface</td>
<td>250 8s</td>
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<tr>
<td>Fresh water</td>
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<tr>
<td>Coal 7 H-40 X</td>
<td>1850 1850</td>
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<td>7&quot; casing at 1065' and cement to</td>
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<td>Intermediate</td>
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<tr>
<td>Production 4 1/2 K55 10.5 X</td>
<td>5335 5335</td>
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<tr>
<td>Tubing</td>
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<td>Liners</td>
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OFFICE USE ONLY  
DRILLING PERMIT  

Permit number 47-017-1944-DD  
Date March 29, 1984  

Permit expires March 29, 1986  
unless well work is commenced prior to that date and prosecuted with due diligence.

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.
<table>
<thead>
<tr>
<th>FORMATION</th>
<th>TOP</th>
<th>BOTTOM</th>
<th>Total Line Measurement</th>
<th>Water Fractured Depth</th>
<th>Oil Fractured Depth</th>
<th>Gas Fractured Depth</th>
<th>REMARKS</th>
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<tr>
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<tr>
<td>Pittsburg Coal</td>
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<td>Little Dunkard</td>
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<td>849</td>
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<td>First Salt</td>
<td>1575</td>
<td>1470</td>
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</tbody>
</table>

| TOTAL DEPTH       | 1893 |        |                        |                       |                     |                     |         |

### PACKER RECORD

<table>
<thead>
<tr>
<th>SIZE</th>
<th>KIND</th>
<th>Amount Anchor</th>
<th>Amount Above Anchor</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 1/4&quot;</td>
<td>8 1/4 x 8 3/16&quot;</td>
<td>L.H. Placer</td>
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</tbody>
</table>

### SHOOTING RECORD (If shot before or upon completion of well)

### CEMENTING RECORD

- Date Cemented: 8/15/1944
- Cemented: No Cement
- Hole Cemented: No Hole Cemented
- Site Casing Cemented: No Casing Cemented
- Top Pittsburgh Coal: No Top Cementing
- Top Cementing: No Amount cement Used
- Bottom Pittsburgh Coal: No Bottom Cementing
- Amount Sand Used: No amount used
- Mr.: 8/15/1944, 9:00 A.M.
- Coal Company on ground when coal was cemented: Yes
- Remarks: Signature of persons who cemented well

Approved by: J. A. [Signature]

PERMIT NO: 014-1944