FORM IV-2(B)
(Obverse)
7-83

FILE COPY

A-1

1) Date: May 24, 19 84
2) Operator's Well No. 412
3) API Well No. 47 - 001 - 2086
State County Permit

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

4) WELL TYPE: A Oil ____/ Gas X /
B (If "Gas", Production X / Underground storage ____/ Deep ____/ Shallow X /)
5) LOCATION: Elevation: 1360.50 Watershed: Taylor Drain (MT-26-A)
District: Pleasant County: Barbour Quadrangle: Philippi 7.5' (1977)
6) WELL OPERATOR CNG Development Company
Address c/o Paul W. Garrett, P.O. Box 15746
Pittsburgh, PA 15244
7) DESIGNATED AGENT Mr. Gary Nicholas
Address Crosswind Corporate Park
Rt. 2, Box 698, Bridgeport, WV 26330
8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mr. Phillip Tracy
Address Forest Festival Terrace, Apt. 24
Elkins, WV 26241
9) DRILLING CONTRACTOR:
Name Sam Jack Drilling Company
Address P. O. Box 48
Buckhannon, WV 26201
10) PROPOSED WELL WORK: Drill X / Drill deeper ____/ Redrill ____/ Stimulate ____/
Plug off old formation ____/ Perforate new formation ____/
Other physical change in well (specify) ____
11) GEOLOGICAL TARGET FORMATION, Haverty
12) Estimated depth of completed well, 5375 feet
13) Approximate trata depths: Fresh, 412, 1710 feet; salt, ____ feet.
14) Approximate coal seam depths: 55-58, 135-139, Is coal being mined in the area? Yes ____ No. X
15) CASING AND TUBING PROGRAM 195-198, 420-425

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MAY 31 1984
OIL & GAS DIVISION
DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor									Kinds
Fresh water	11-3/4	H-40	42	X		30	30	To surface	By Rule 15.05
Coal									Sizes
Intermediate	8-5/8	X-42	23	X		1750	1750	To surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X		5375	5375	200-400 sks.	Depths set
Tubing	1-1/2	CN-55	2.75	X					By Rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-001-2086 June 19, 19 84
Date

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.

Permit expires June 19, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
BLANKET	ls	mll		002-909

Administrator, Office of Oil and Gas

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

File

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

(6/12)
6/16

FORM IV-2(B) **FILE COPY**
Reverse

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Follow-up inspection(s)	Date(s)
Application received			
Well work started		,,	,,
Completion of the drilling process		,,	,,
Well Record received		,,	,,
Reclamation completed		,,	,,

OTHER INSPECTIONS

Reason: _____

Reason: _____

File

Form IV-2 (A)
Reverse

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

1) Date of Notice.

2) Your well name and number.

3) To be filled out by the Office of Oil & Gas.

4) & 5) Use separate sheet if necessary.

4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".

5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.

5(ii, iii) See Code § 22-4-20.

6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.

7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

(1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book	Page
Hillman Coal & Coke Company	CNG Development Company	1/8	100	1

FORM IV-2(A)

1) Date: May 8, 1984
2) Operator's Well No. 412
3) API Well No. 47-001-2086
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Tygart East, Inc. c/o Hillman Coal & Coke Co.
Address 1900 Grant Building
Pittsburgh, PA 15219

(ii) Name
Address

(iii) Name
Address

5(i) COAL OPERATOR
Address

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD
Name Hillman Coal & Coke Company
Less Address 1900 Grant Building
Lower Kittanning Pittsburgh, PA 15219
Name Royal Land Company
Address 455 Race Track Road
Lower Kittanning Meadowlands, PA 15347

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name Kitt Energy
Address 69 West Washington
Lower Kittanning Chicago, IL 60602

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

(1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
(2) The plat (surveyor's map) showing the well location on Form IV-6; and
(3) The Construction and Reclamation Plan on Form IV-9)unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

RECEIVED
MAY 31 1984
OIL & GAS DIVISION
DEPT. OF MINES

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:
☐ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
☑ The requirement of Code 22-4-1-(c)(1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes (No)

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by Paul Garrett, this 8 day of May, 1984.
My commission expires 5/25, 1987.
Yvonne T. Green
Notary Public, Allegheny County, State of Pennsylvania

WELL OPERATOR CNG Development Company
By Paul W. Garrett
Its Manager, Well Programs, Paul Garrett
Address P. O. Box 15746
Pittsburgh, PA 15244
Telephone 412-787-4090

YVONNE T. GREEN, NOTARY PUBLIC
PITTSBURGH, ALLEGHENY COUNTY, PA.
MY COMMISSION EXPIRES MAY 25, 1987

FORM IV-2(B)
(Obverse)
7-83

SURFACE OWNER'S COPY

1) Date: May 24, 19 84
2) Operator's Well No. 412
3) API Well No. 47 ____ ____
State County Permit

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

4) WELL TYPE: A Oil ____/ Gas X /
B (If "Gas", Production X / Underground storage ____/ Deep ____/ Shallow X /)

5) LOCATION: Elevation: 1360.50 Watershed: Taylor Drain
District: Pleasant County: Barbour Quadrangle: Philippi 7.5' (1977)

6) WELL OPERATOR CNG Development Company
Address c/o Paul W. Garrett, P.O. Box 15746
Pittsburgh, PA 15244

7) DESIGNATED AGENT Mr. Gary Nicholas
Address Crosswind Corporate Park
Rt. 2, Box 698, Bridgeport, WV 26330

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mr. Phillip Tracy
Address Forest Festival Terrace, Apt. 24
Elkins, WV 26241

9) DRILLING CONTRACTOR:
Name Sam Jack Drilling Company
Address P. O. Box 48
Buckhannon, WV 26201

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

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MAY 31 1984
OIL & GAS DIVISION
DEPT. OF MINES

11) GEOLOGICAL TARGET FORMATION, Haverty

12) Estimated depth of completed well, 5375 feet

13) Approximate trata depths: Fresh, 412, 1710 feet; salt, ____ feet.

14) Approximate coal seam depths: 55-58, 135-139, 195-198, 420-425 Is coal being mined in the area? Yes ____/ No X

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor									Kinds
Fresh water	11-3/4	H-40	42	X		30	30	To surface	By Rule 15.05
Coal									Sizes
Intermediate	8-5/8	X-42	23	X		1750	1750	To surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X		5375	5375	200-400 sks.	Depths set
Tubing	1-1/2	CW-55	2.75	X					By Rule 15.01
Liners									Perforations:
									Top Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)

NAME: Tygart East, Inc.
By William R. Kohl
Its Geologist Date May 25, 1984

(For execution by natural persons)

____ Date: ____
(Signature)
____ Date: ____
(Signature)

Surface Owner

FORM IV-2(B)
Reverse

SURFACE OWNER'S COPY

INSTRUCTIONS TO SURFACE OWNERS AND EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (**NOTE:** If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: **You are not required to file any comment at all.**

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas
West Virginia Department of Mines
1615 Washington Street East
Charleston, West Virginia 25311
(304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments as provided in **Methods for Filing Comments** below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:
"(1) The proposed well work will constitute a hazard to the safety of persons; or
"(2) The plan for soil erosion and sediment control is not adequate or effective; or
"(3) Damage would occur to publicly owned lands or resources; or
"(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Adminisatrator's office or an Oil and Gas Inspector to obtain a copy of the list.

FORM IV-2(B)
(Obverse)
7-83

COAL OWNER'S COPY

1) Date: May 24, 19 84
2) Operator's Well No. 412
3) API Well No. 47 / State / County / Permit

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

4) WELL TYPE: A Oil ____/ Gas ____/
B (If "Gas", Production X / Underground storage ____/ Deep ____/ Shallow X /)

5) LOCATION: Elevation: X Watershed: Taylor Drain
District: Pleasant County: Harbour Quadrangle: Philippi 7.5' (1977)
1360.50

6) WELL OPERATOR CNG Development Company
Address c/o Paul W. Garrett, P.O. Box 15746
Pittsburgh, PA 15244

7) DESIGNATED AGENT Mr. Gary Nicholas
Address Crosswind Corporate Park
Rt. 2, Box 698, Bridgeport, WV 26330

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mr. Phillip Tracy
Address Forest Festival Terrace, Apt. 24
Elkins, WV 26241

9) DRILLING CONTRACTOR:
Name Sam Jack Drilling Company
Address P. O. Box 46
Buckhannon, WV 26201

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

11) GEOLOGICAL TARGET FORMATION, Haverty
12) Estimated depth of completed well, 5375 feet
13) Approximate trata depths: Fresh, 412, 1710 feet; salt, ____ feet.
14) Approximate coal seam depths: 55-58, 135-139, 195-198, 420-425 Is coal being mined in the area? Yes ____ / No. ____

RECEIVED
MAY 31 1984
OIL & GAS DIVISION
DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor									Kinds
Fresh water									
Coal	11-3/4	H-40	42	X		30	30	To surface	By Rule 15.05
Intermediate									Sizes
Production	8-5/8	X-42	23	X		1750	1750	To surface	By Rule 15.05
Tubing	4-1/2	J-55	10.5	X		5375	5375	200-400 sks.	Depths set
Liners	1-1/2	CN-55	2.75	X					By Rule 15.01
									Perforations:
									Top / Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The named coal operator, coal owner(s), and coal lessee 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 the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of the filing of the Application.

WAIVER

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 undersigned 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: May 25, 19 84

Hillman Coal & Coke Co.
By William R. Kohl
Its Geologist

Coal Owner

(REV 8-81) WELL NO. CNGD 412

FARM H. N. Allen DISTRICT Pleasant COUNTY Barbour SCALE 1" = 2000'

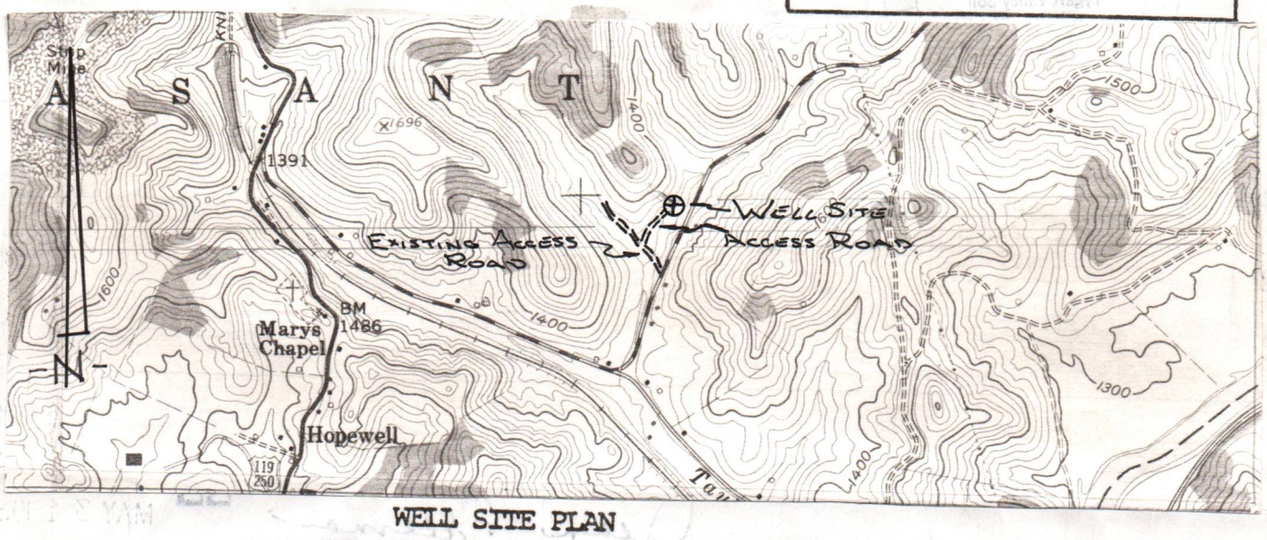
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE Philippi 7.5' (1976)

LEGEND

Well Site ⊕

Access Road ——



WELL SITE PLAN

: ketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary

Road

Existing fence

Planned fence

Stream

Open ditch

Diversion

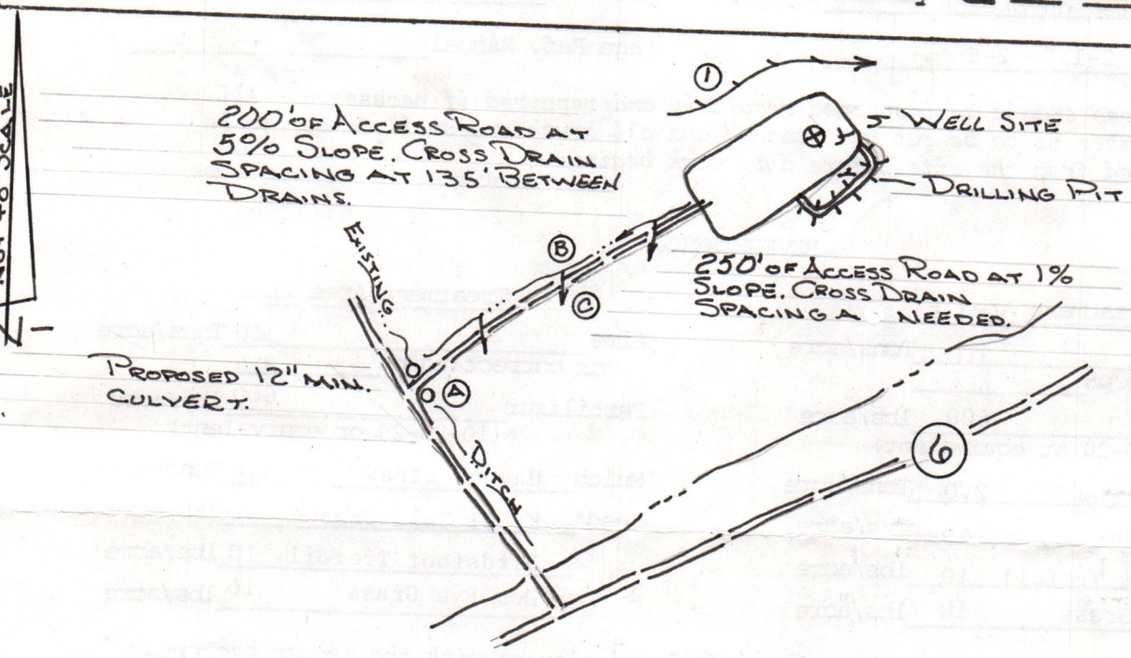
Spring

Wet spot

Building

Drain pipe

Waterway



mments: Access to the well site will be gained by constructing approximately 250 feet of new cess road and upgrading as needed 500 feet of existing access road, beginning at a junction int in the Barbour County Route 6. The access road will be sloped at 2-3% towards the open tch. All outlets of drainage structures and ditches will be to stable areas. The well cation will be located in a flat cleared area. All brush and timber will be removed from area to be disturbed prior to any earth moving activities. The road and well site will be ought to desired grade with erosion control structures being installed in conjunction with grading. Natural vegetation (filter strip) will remain undisturbed in areas between struction and natural water courses. Under most conditions, the preceeding plan will be llowed; however, due to lease restrictions, surface owner request and weather conditions, etc., plan may be altered. Subsequently, the proper erosion and sediment control measures will installed.

IV-9
(Rev 8-81)

RECEIVED
FEB 14 1984
Tygart Valley Soil
Conservation District

State of West Virginia
Department of Mines
Oil and Gas Division

DATE February 10, 1984
WELL NO. CNGD 412
API NO. 47 - 001 - 2086

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME CNG Development Company
Address One Park Ridge Center
Pittsburgh, PA 15244
Telephone 412/429-2390

DESIGNATED AGENT Gary A. Nicholas
Address Crosswind Corporate Park
Bridgeport, WV 26330
Telephone 304/623-8134

LANDOWNER Hillman Coal Company

SOIL CONS. DISTRICT Tygart Valley

Revegetation to be carried out by Gary A. Nicholas (Agent)

This plan has been reviewed by Tygart Valley SCD SCD. All corrections and additions become a part of this plan: 2/20/84 (Date)

Jean Freeman
(SCD Agent)

RECEIVED
MAY 31 1984
OIL & GAS DIVISION
DEPT. OF MINES

ACCESS ROAD

Structure Culvert (A)
Spacing 12" Min. Steel
Page Ref. Manual 2-7 to 2-11

Structure Drainage Ditch (B)
Spacing Along Access Road
Page Ref. Manual 2-12 to 2-14

Structure Cross Drains (C)
Spacing As Noted on Sketch
Page Ref. Manual 2-1 to 2-6

LOCATION

Structure Diversion Ditch (1)
Material Earth
Page Ref. Manual 2-12 to 2-13

Structure (2)
Material
Page Ref. Manual

Structure (3)
Material
Page Ref. Manual

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Lime 3.0 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay or straw 2.0 Tons/acre
Seed* Ky 31 Tall Fescue 40 lbs/acre
Birdsfoot Trefoil 10 lbs/acre
Dom Rye Grass 10 lbs/acre

Treatment Area II

Lime 3.0 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch Hay or straw 2.0 Tons/acre
Seed* Ky 31 Tall Fescue 40 lbs/acre
Birdsfoot Trefoil 10 lbs/acre
Dom Rye Grass 10 lbs/acre

**Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.*

Robert V. Shelby

PLAN PREPARED BY MSES Consultants
ADDRESS 609 West Main Street
Clarksburg, WV 26301
PHONE NO. 304-624-9700, 842-3325

NOTES: Please request landowner's cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

P 628 734 453

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

Attn: (See Reverse) W. R. Kohl

Sent to Tygart East, Inc. c/o Hillman Coal & Coke Com	
Street and No. 1900 Grant Building	
P.O., State and ZIP Code Pittsburgh, PA 15219	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$ 1.89
Postmark or Date	

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

PITTSBURGH, PA MONTOUR BR. MAY 24 1984 USPO

5-24

P 628 734 452

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Attn: W. R. Kohl Hillman Coal & Coke Company	
Street and No. 1900 Grant Building	
P.O., State and ZIP Code Pittsburgh, PA 15219	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$ 1.89
Postmark or Date	

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

PITTSBURGH, PA MONTOUR BR. MAY 24 1984 USPO

P 628 734 451

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Royal Land Company	
Street and No. 455 Race Tract Road	
P.O., State and ZIP Code Meadowlands, PA 15347	
Postage	$
Certified Fee	✓
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	✓
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$ 1.89
Postmark or Date	

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

PITTSBURGH, PA MONTOUR BR. MAY 24 1984 USPO

RECEIVED
MAY 31 1984
OIL & GAS DIVISION
DEPT. OF MINES

P 628 734 454

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Kitt Energy	
Street and No. 69 West Washington	
P.O., State and ZIP Code Chicago, IL 60602	
Postage	$
Certified Fee	✓
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	✓
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$ 1.89
Postmark or Date	

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

A MONTOUR BR. MAY 4 84 O

FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

McCullough Perforated Benson 4223 - 4227; 8 holes (.41)
Riley 3871 - 3877; 10 holes (.41)
Speechley 2865 - 2878; 10 holes (.41)

Halliburton Fractured Benson with 500 gal MOD 202 Acid, 50,000# Sand, + 619 BBL Fluid
Riley with 500 gal MOD 202 Acid, 60,000# Sand, + 800 BBL Fluid
Speechley with 500 gal MOD 202 Acid, 40,000 # Sand + 517 BBL Fluid

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
K.B. to G.L.			0	10	Stream of Water at 45' 1" Stream of Water at 1660'
Top Soil			10	15	
Sd & Sh			15	94	Coal at 94 - 95' 165 - 169' 435 - 438'
998 Coal			94	95	
Sd & Sh			95	165	
998 Coal			165	169	
Sd & Sh			169	435	
998 Coal			435	438	
RR, Sd & Sh			438	1135	
L. Lime			1135	1150	
RR & Sh			1150	1185	
345 Big Lime			1185	1280	
365 Injun			1280	1390	
RR, Sd & Sh			1390	2850	
432 Speechley			2850	2890	
Sd & Sh			2890	3130	
433 Balltown			3130	3260	
Sd & Sh			3260	3865	
Riley			3865	3905	
Sd & Sh			3905	4230	
435 Benson			4230	4260	
Sd & Sh			4260	4470	

(Attach separate sheets as necessary)

See Attached Sheet for Log Tops

CNG Development Company
Well Operator

By: Gary A. Nicholas / mee

Date: July 26, 1984

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 coal, encountered in the drilling of a well."

IV-35
(Rev 8-81)

Date July 26, 1984
Operator's
Well No. CNGD 412
Farm H. N. Allen
API No. 47 - 001 - 2086

State of West Virginia
Department of Mines
Oil and Gas Division

RECEIVED
AUG - 8 1984
OIL & GAS DIVISION
DEPT. OF MINES

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 X /)

LOCATION: Elevation: 1360.50 Watershed Taylor Drain (MT-26-A)
District: Pleasants County Barbour Quadrangle Philippi 7.5' (1977)

COMPANY CNG Development Company
ADDRESS P.O. Box 15746
DESIGNATED AGENT Gary A. Nicholas
ADDRESS Crosswind Corporate Park Rt. 2 Box 698, Bridgeport, WV 26330
SURFACE OWNER Tygart East, Inc. c/o Hillman Coal & Coke Co.
ADDRESS 1900 Grant Bldg. Pittsburgh, PA 15219
MINERAL RIGHTS OWNER Camden I. Proudfoot, etal
ADDRESS 511 Nelbon Ave. Pittsburgh, PA 15235
OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy ADDRESS Forest Festival Terrace Apt 24, Elkins, WV 26241
PERMIT ISSUED 6/19/84
DRILLING COMMENCED 6/27/84
DRILLING COMPLETED 7/10/84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON ___

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1755	1755	To surf
7			
5 1/2			
4 1/2	4408	4408	400 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5375 feet
Depth of completed well 4470 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 45 1660 feet; Salt ___ feet
Coal seam depths: 94 - 95, 165 - 169, 435 - 438 Is coal being mined in the area? ___

OPEN FLOW DATA
Producing formation Benson 435, Riley 434, Speechley 432 Pay zone depth 4223 - 4227, 3871 - 3877, 2865 - 2878 feet
Gas: Initial open flow --- Mcf/d Oil: Initial open flow -- Bbl/d
Final open flow 2.000 Mcf/d Final open flow -- Bbl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure 1150 psig (surface measurement) after 24 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)

CNGD Well No. 412
Hillman Coal & Coke Company
Barbour County, WV
API No. 47-001-2086

ELECTRIC LOG TOPS

Formation	Top	Bottom
L. Lime	1131	1154
B. Lime/B. Injun	1178	1392
395 Berea/Gantz	1560	1650
50'	1662	1772
30'	1779	1860
Gordon Stray/Gordon	1915	1990
4th	2014	2083
5th/L. 5th	2104	2201
Warren	2541	2574
Speechley	2860	2884
Balltown	2976	3138
Bradford	3267	3386
Riley	3780	4003
Benson	4220	4240

Bar 2086

OG-11

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

RECEIVED
JUN 25 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2086

Oil or Gas Well _____ (KIND)

Company CNG -

Address _____

Farm _____

Well No. _____

District _____ County _____

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names D.W. Jack

Remarks: Spot Stake for Loc & Road

6/14/84
DATE

R H Bruce
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

OG-11

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

RECEIVED
JUN 26 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2086

Oil or Gas Well _____ (KIND)

Company CNG

Address

Farm

Well No.

District _____ County 001

Drilling commenced

Drilling completed _____ Total depth

Date shot _____ Depth of shot

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names S.W. Jack

Remarks: Check Stake & Loc –

6/22/84
DATE

R G Beane
DISTRICT WELL INSPECTOR

6/28/84
DATE

RGBeane
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.
DATE

_____
DISTRICT WELL INSPECTOR

OG-11

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

RECEIVED
JUL - 5 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2086

Oil or Gas Well _____ (KIND)

Company C.N.G

Address

Farm Tygart East

Well No. 412

District _____ County 001

Drilling commenced

Drilling completed _____ Total depth

Date shot _____ Depth of shot

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names JACR Rig 21

Remarks: Run 8 5/8 and Shut down VAC

7/2/84
DATE

P. Bence
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.
DATE

_____
DISTRICT WELL INSPECTOR

OG-11

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

RECEIVED
JUL 11 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2086

Oil or Gas Well _____ (KIND)

Company CNG —

Address

Farm TYGART EAST. INC

Well No. 412

District _____ County 001

Drilling commenced

Drilling completed _____ Total depth

Date shot _____ Depth of shot

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names J.W. JACK

Remarks: DRILLING — ANTICIPATE T.D. — MONT P.M. —

7/9/84
DATE

RG BEALL
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

OG-11

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

RECEIVED
JUL 12 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2086

Oil or Gas Well _____ (KIND)

Company CNG

Address

Farm

Well No. # 4/2

District _____ County 001

Drilling commenced

Drilling completed _____ Total depth

Date shot _____ Depth of shot

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names JACK - Rig 21

Remarks:

T.D. 4470

4½ - 4382

7/10/84
DATE

R G Reed (501)
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location	Amount	Packer	Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

OG-11

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED
AUG 2 2 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2086

Oil or Gas Well _____ (KIND)

Company CNG

Address

Farm TYGART E.

Well No. # 412

District _____ County 001

Drilling commenced

Drilling completed _____ Total depth

Date shot _____ Depth of shot

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

~~Drillers~~ Cont' Names GARY MILLER

Remarks: Rough Grading done — pits filled

8/20/84
DATE

R G Read - 501
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

OG-11

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

RECEIVED
SEP 1 8 1984
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2086

Oil or Gas Well _____ (KIND)

Company CNG

Address

Farm TYGART EAST

Well No. 412

District _____ County 001

Drilling commenced

Drilling completed _____ Total depth

Date shot _____ Depth of shot

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8¼			
6⅝			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date

NAME OF SERVICE COMPANY

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names

Remarks: Seeded + Mulched

9/14/84
DATE

Pb Peace 501
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner Location Amount Packer Location

PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____

DISTRICT WELL INSPECTOR

IV-20
Obverse
1-84

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

RECEIVED
MAR 1 1 1985
OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
September 10, 1984

COMPANY CNG Development Company

P. O. Box 15746

Pittsburgh, Pennsylvania 15275

PERMIT NO 001-2086

FARM & WELL NO Tygart East, Inc. #412

DIST. & COUNTY Pleasants/Barbour

RULE	DESCRIPTION	IN COMPLIANCE YES	NO
23.06	Notification Prior to Starting Work	✓	
25.04	Prepared before Drilling to Prevent Waste	✓	
25.03	High-Pressure Drilling	✓	
16.01	Required Permits at Wellsite	✓	
15.03	Adequate Fresh Water Casing	✓	
15.02	Adequate Coal Casing	✓	
15.01	Adequate Production Casing	✓	
15.04	Adequate Cement Strenght	✓	
15.05	Cement Type	✓	
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site	✓	
16.02	Well Records Filed		
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Donald R Collins

DATE 3-5-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

Administrator-Oil & Gas Division

March 12, 1985
DATE

TMS/nw

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 001 - 02086 -
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA ___ Category
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4,227 feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	CNG Development Company Name One Park Ridge Center P. O. Box 15746 Street Pittsburgh — PA — 15244 City — State — Zip Code Seller Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Pleasants Dist. Field Name Barbour — WV County — State
(b) For OCS wells:	Area Name Block Number Date of Lease: Mo. Day Yr. OCS Lease Number
(c) Name and identification number of this well: (35 letters and digits maximum.)	H. N. Allen CNGD #412
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	undetermined Name Buyer Code
(b) Date of the contract:	Mo. Day Yr.
(c) Estimated total annual production from the well:	73 Million Cubic Feet

		(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	$/MMBTU	___.___	___.___	___.___	___.___
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	$/MMBTU	2.925	___.___	___.___	___.___

9.0 Person responsible for this application:

R. N. Metzler — Mgr. Reserves
Name — Title

R. N. Metzler
Signature

9-4-84
Date Application is Completed

412/787-4092
Phone Number

Agency Use Only
Date Received by Jurs. Agency SEP - 7 1984
Date Received by FERC

RECEIVED SEP - 7 1984 OIL & GAS DIV. DEPT. OF MINES

FERC-121 (8-82)

FORM IV-48WC
(02-84)

STATE OF WEST VIRGINIA

SEP 27 1984

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Sept. 4 ,19 84

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

840907 -103 -001 - 2086

Use Above File Number on all Communications Relating to This Well

Applicant's Name: CNG Development Company

Address: One Park Ridge Center
P.O. Box 15746

Pittsburgh, PA 15244

Gas Purchaser Contract No. N/A

Date of Contract N/A
(Month, day and year)

First Purchaser: undetermined

Address: _____
(Street or P.O. Box)

_____
(City) (State) (Zip Code)

FERC Seller Code _____

Designated Agent: Gary A. Nicholas

Address: CNG Development Company
Crosswind Corporate Park
Route 2 Box 698
Bridgeport, WV 26330

FERC Buyer Code _____

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Robert N. Metzler
(Print)

Manager of Reserves
(Title)

Signature: R. N. Metzler

Address: One Park Ridge Center - P.O. Box 15746
(Street or P.O. Box)

Pittsburgh, PA 15244
(City) (State) (Zip Code)

Telephone: (412) 787-4092
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Catagory Applied For

NGPA SECTION/SUBSECTION

102 New Natural Gas
_____ 102-2 2.5 Mile Test
_____ 102-3 1000 Foot Deeper Test
_____ 102-4 New Onshore Reservoir

103 New Onshore Production Well
X 103 New Onshore Production Well

107 High Cost Natural Gas
_____ 107-0 Deep (more than 15,000 feet)
_____ 107-1 Geopressured Brine
_____ 107-2 Coal Seams
_____ 107-3 Devonian Shale
_____ 107-5 Production enhancement
_____ 107-6 New Tight Formation
_____ 107-7 Recompletion Tight Formation

108 Stripper Well Natural Gas
_____ 108- Stripper Well
_____ 108-1 Seasonally Affected
_____ 108-2 Enhanced Recovery
_____ 108-3 Temporary Pressure Build

AGENCY USE ONLY

APPROVED

OCT -2 1984

RECEIVED

SEP - 7 1984

OIL & GAS DIV.
DEPT. OF MINES

Date Received

Determination Date

FORM IV-54WC
[12-78]

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

Date Sept. 4, 1984
Operator's
Well No. 412
API Well No.
47 - 001 - 02086
State County Permit

WELL CLASSIFICATION FORM

NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT Gary A. Nicholas
ADDRESS CNG Development Company
Crosswind Corporate Park
Route 2 Box 698
Bridgeport, WV 26330

WELL OPERATOR CNG Development Company
ADDRESS One Park Ridge Center
P.O. Box 15746
Pittsburgh, PA 15244

LOCATION: Elevation 1,361'
Watershed Taylor Drain
District Pleasants County Barbour Quad. Philippi

GAS PURCHASER undetermined
Gas Purchase Contract No. N/A
ADDRESS
Meter Chart Code N/A
Date of Contract N/A

* *

Date surface drilling was begun: 6/27/84

Indicate the bottom hole pressure of the well and explain how this was calculated:

BHP = 1,427#

$BHP = P_1 + P_1(e\ GL\ 53.34_{-1})$

AFFIDAVIT

I, Robert N. Metzler, having been first sworn according to law, state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

R. N. Metzler

STATE OF ~~WEST VIRGINIA~~ Pennsylvania

COUNTY OF Allegheny, TO WIT:

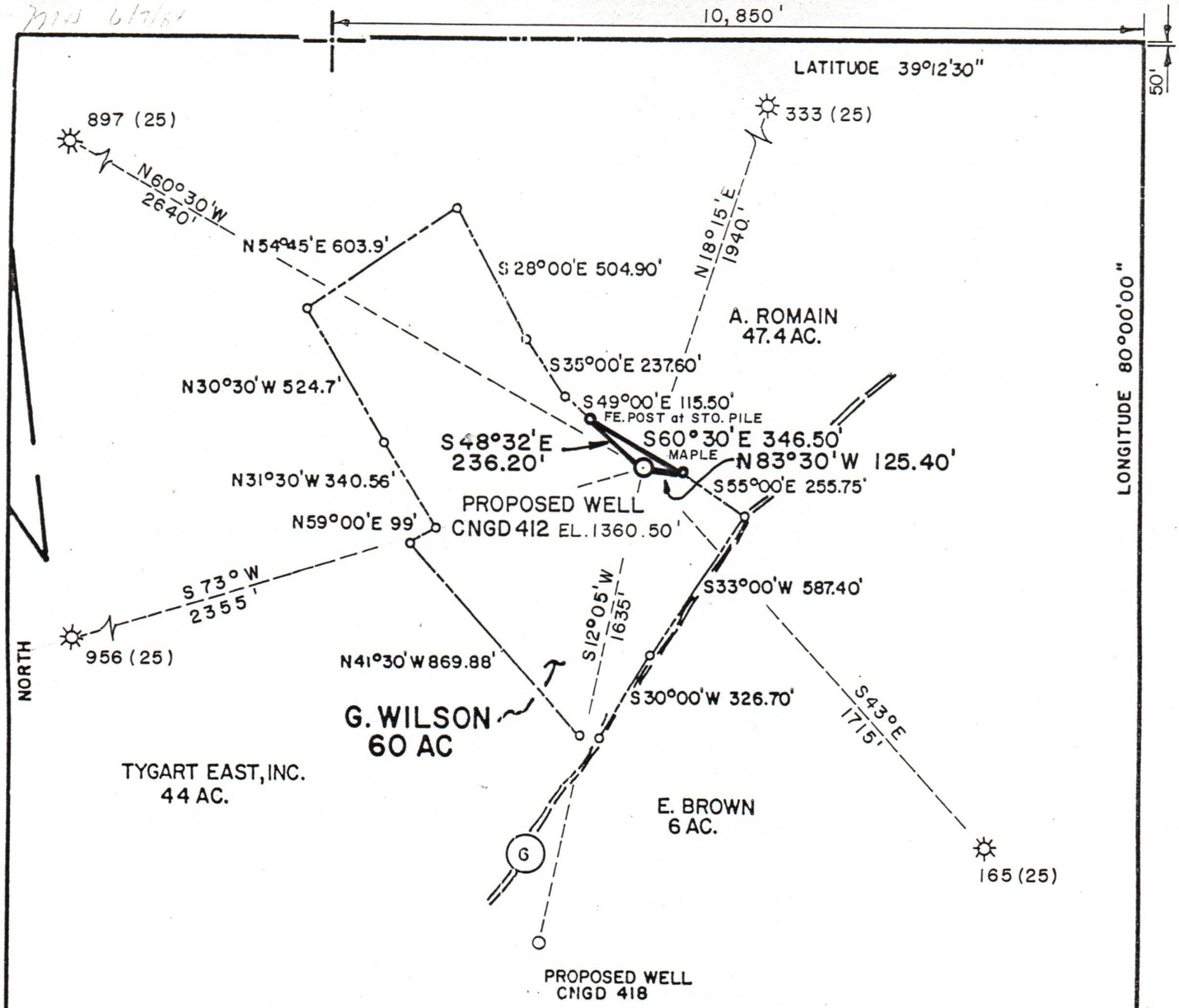
I, Maureen Cepikoff, a Notary Public in and for the state and county aforesaid, do certify that R. N. Metzler, whose name is signed to the writing above, bearing date the 4th day of Sept., 1984, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 4th day of Sept., 1984.

My term of office expires on the 25th day of May, 1987.

[NOTARIAL SEAL]

Maureen Cepikoff
Notary Public
MAUREEN CEPIKOFF, NOTARY PUBLIC
PITTSBURGH, ALLEGHENY COUNTY, PA.
MY COMMISSION EXPIRES MAY 25, 1987



NOTE: WELL TIE LINES ARE REFERENCE TIE LINES.

PREPARED BY MSES CONSULTANTS

FILE NO. MSES 84-311

DRAWING NO. _____

SCALE 1" = 500'

MINIMUM DEGREE OF ACCURACY 1 IN 200

PROVEN SOURCE OF ELEVATION B.M. EL 1486' AT MARYS CHAPEL

I 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) John S. Bailey

R.P.E. _____ L.L.S. 652

JOHN S. BAILEY LICENSED No. 652 STATE OF WEST VIRGINIA LAND SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6
(8-78)

DATE MAY 18, 19 84

OPERATOR'S WELL NO. CNGD 412

API WELL NO.
47 - 001 - 2086
STATE COUNTY PERMIT

Department of Mines
Oil & Gas Division

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

LOCATION: ELEVATION 1360.50' WATER SHED TAYLOR DRAIN
DISTRICT PLEASANT COUNTY BARBOUR
QUADRANGLE PHILIPPI 7.5' (1977)

SURFACE OWNER TYGART EAST INC. ACREAGE 44
OIL & GAS ROYALTY OWNER GEORGE WILSON LEASE ACREAGE 60
LEASE NO. 70672

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION HAVERTY ESTIMATED DEPTH ~~5600'~~ 5375'

WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS

ADDRESS ONE PARK RIDGE CENTER ADDRESS CROSSWIND CORPORATE PARK
PITTSBURGH, PA. 15244 BRIDGEPORT, W.V. 26330