



1) Date: August 14, 19 84  
 2) Operator's Well No. 1045  
 3) API Well No. 47 - 013 - 3763  
 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  / Underground storage  / Deep  / Shallow )
- 5) LOCATION: Elevation: 1059.70' / Watershed: Big Run LKW31B / District: Washington / County: Calhoun / Quadrangle: Chloe, WV 1966 (1975)
- 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. Deo Mace  
 Address Rt. 1, Bx 5  
Sandridge, WV 25274
- 9) DRILLING CONTRACTOR:  
 Name Sam Jack Drilling Company  
 Address P. O. Box 48  
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 12) Estimated depth of completed well, 5950 feet
- 13) Approximate strata depths: Fresh, 3160' feet; salt, - feet.
- 14) Approximate coal seam depths: - Is coal being mined in the area? Yes  No
- 15) CASING AND TUBING PROGRAM

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CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									
Fresh water	<u>11-3/4</u>	<u>H-40</u>	<u>42</u>	<u>X</u>		<u>190'</u>	<u>190' 40</u>	<u>To surface</u>	By Rule 15.05
Coal									Sizes
Intermediate	<u>8-5/8</u>	<u>X-42</u>	<u>23</u>	<u>X</u>		<u>2070</u>	<u>2070</u>	<u>To surface</u>	By Rule 15.05
Production	<u>4-1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>X</u>		<u>5950</u>	<u>5950</u>	<u>200-400 sks</u>	Depths set
Tubing	<u>1-1/2</u>	<u>CN-55</u>	<u>2.75</u>	<u>X</u>					By Rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-013-3763 Date August 27, 19 84

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 August 27, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>28</u>	Agent: <u>ls</u>	Plat: <u>MI</u>	Casing: <u>MI</u>	Fee: <u>003-951</u>
<b>BLANKET</b>				

*[Signature]*  
 Administrator, Office of Oil and Gas

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





OFFICE USE ONLY

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

1) LOCATION: District: Washington, County: Calhoun, Elevation: 1053.70, Watered: BWS Run, Underground storage: Deep, Shallow: A

2) WELL OPERATOR: CNG Development Company, Address: C/O Paul M. Garrett, P.O. Box 15746, Pittsburgh, PA 15244

3) DESIGNATED AGENT: Mr. Gary Nicholas, Address: Crosswind Corporate Park, Rt. 2, Box 658, Bridgeport, WV 26330

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

5) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: Mr. Don Hodge, Address: Rt. 1, Box 9, Sandridge, WV 26274

10) PROPOSED WELL WORK: Drill: X, A. Drill: deeper, Redrill: Stimulate

11) GEOLOGICAL TARGET FORMATION: Other physical change in well (specify):

12) Estimated depth of completed well: 5900 feet

13) Approximate true depth: 5150 feet

14) Approximate coal seam depth: Is coal being mined in the area? Yes

15) CASING AND TUBING PROGRAM

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

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

Application received

Follow-up inspection(s)

Well work started

Completion of the drilling process

Well Record received

Reclamation completed

OTHER INSPECTIONS

Reason:

Reason:

Bond	Acct. #	Plat.	Casing	Fee
BLANKET				

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

05/17/2024



**SURFACE OWNER'S COPY**



1) Date: August 14, 1984  
 2) Operator's Well No. 1045  
 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: 1059.70' / Watershed: Big Run  
 District: Washington / County: Calhoun / Quadrangle: Chloe, WV 1966 (1975)
- 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. Deo Mace  
 Address: Rt. 1, Box 5  
 Sandridge, WV 25274
- 9) DRILLING CONTRACTOR:  
 Name: Sam Jack Drilling Company  
 Address: P. O. Box 48  
 Buakhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate X /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 12) Estimated depth of completed well, 5950 feet
- 13) Approximate strata depths: Fresh, 3160 feet; salt, \_\_\_\_\_ feet.
- 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No \_\_\_\_\_

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OIL & GAS DIVISION  
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	
Conductor										
Fresh water	<u>1-3/4</u>	<u>H-40</u>	<u>42</u>	<u>X</u>		<u>40</u>	<u>40</u>	<u>To surface</u>	<u>by Rule 15.05</u>	
Coal									<u>Sizes</u>	
Intermediate	<u>1-5/8</u>	<u>X-42</u>	<u>23</u>	<u>X</u>		<u>2070</u>	<u>2070</u>	<u>To surface</u>	<u>by Rule 15.05</u>	
Production	<u>1-1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>X</u>		<u>5950</u>	<u>5950</u>	<u>200-400 sks</u>	<u>Depths set</u>	
Tubing	<u>1-1/2</u>	<u>CN-55</u>	<u>2.75</u>	<u>X</u>					<u>by Rule 15.01</u>	
Liners									<u>Perforations:</u>	
									<u>Top</u>	<u>Bottom</u>

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.)

(For execution by natural persons)

NAME: \_\_\_\_\_  
 By \_\_\_\_\_  
 Its \_\_\_\_\_ Date \_\_\_\_\_

James O Stalner Date: 7/24/84  
 (Signature)  
 \_\_\_\_\_ Date: \_\_\_\_\_  
 (Signature)

**05/17/2024**  
 Surface Owner



**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 Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.



1) Date: August 14, 1984  
2) Operator's Well No. 1045  
3) API Well No. 47-013-3763  
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 James O. Stalnaker  
Address Arnoldsburg Rt. Box 29  
Spencer, WV 25276  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR  
Address \_\_\_\_\_

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD  
Name No coal in area  
Address \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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.

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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.

OIL & GAS DIVISION  
DEPT. OF MINES

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

WELL OPERATOR CNG Development Company

By James Frink  
Its Vice President, James Frink  
Address P. O. Box 15746  
Pittsburgh, PA 15244  
Telephone 412-787-3550

James Frink  
this 14<sup>th</sup> day of August, 1984.  
My commission expires 7-15, 1986.  
William H. Draney  
Notary Public, Allegheny County,  
State of Pennsylvania

05/17/2024



I N S T R U C T I O N S T O A P P L I C A N T

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.

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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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book</u>	<u>Page</u>
William K. Hamilton, etal	CNG Development Company	1/8	27	543



05/17/2024





IV-9  
(Rev 8-81)

DATE July 17, 1984  
WELL NO. CNGD-1045  
API NO. 47 - 013 - 3763

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME CNG Development Company Gary A. Nicholas  
One Park Ridge Center DESIGNATED AGENT Crosswind Corporate Park  
Address Pittsburgh, PA 15244 Address Bridgeport, WV 26330  
Telephone 412-429-2390 Telephone 304-623-8840  
LANDOWNER James O. Stalnaker SOIL CONS. DISTRICT Little Kanawha  
Revegetation to be carried out by Gary A. Nicholas (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections  
and additions become a part of this plan: 7-20-84  
(Date)

Garrett Newton  
(SCD Agent)

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ACCESS ROAD	LOCATION
Structure <u>Drainage Ditch</u> (A) Along access road	Structure <u>Diversion Ditch</u>
Spacing <u>Inside road cuts</u>	Material <u>Earth</u>
Page Ref. Manual <u>2-12 to 2-15</u>	Page Ref. Manual <u>2-12 to 2-15</u>
Structure <u>Cross Drains</u> (B)	Structure <u>Filter Strip</u> (2)
Spacing <u>As shown on sketch</u>	Material <u>Natural vegetation</u>
Page Ref. Manual <u>2-1 to 2-4</u>	Page Ref. Manual <u>2-16 to 2-17</u>
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

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DEPT. OF MINES

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	Treatment Area II
Lime <u>according to soil test to</u> <u>correct to pH 6.5</u>	Lime <u>according to soil test to</u> <u>correct to pH 6.5</u>
Fertilizer <u>600 lbs/acre</u> <u>(10-20-20 or equivalent)</u>	Fertilizer <u>600 lbs/acre</u> <u>(10-20-20 or equivalent)</u>
Mulch <u>Hay or Straw 2.0 Tons/acre</u>	Mulch <u>Hay or Straw 2.0 Tons/acre</u>
Seed* <u>Ky 31 Tall Fescue 40 lbs/acre</u>	Seed* <u>Ky 31 Tall Fescue 40 lbs/acre</u>
<u>Birdsfoot Trefoil 10 lbs/acre</u>	<u>Birdsfoot Trefoil 10 lbs/acre</u>
<u>Dom Rye Grass 10 lbs/acre</u>	<u>Dom Rye Grass 10 lbs/acre</u>

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

SJR - JSB - 05/17/2024

PLAN PREPARED BY MSES Consultants, Inc.

ADDRESS 609 West Main Street  
Clarksburg, WV 26301  
PHONE NO. 304-624-9700 or  
304-842-3325 (24-hour)

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



FARM Locie Hamilton, et al DISTRICT Washington

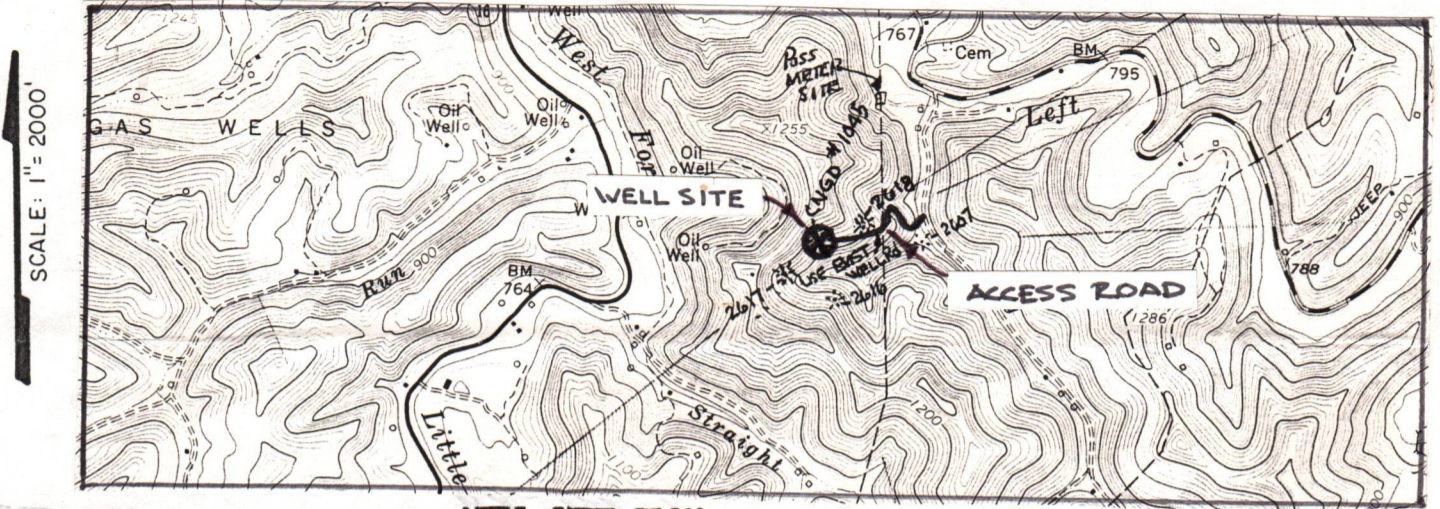
COUNTY Calhoun

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Chloe, WV 7.5'

**LEGEND**

Well Site ⊕

Access Road ===



WELL SITE PLAN

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

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**LEGEND**

Property boundary ————

Road ===

Existing fence —x—x—

Planned fence —/—/—

Stream ~~~~~

Open ditch ———→

Diversion //////////////

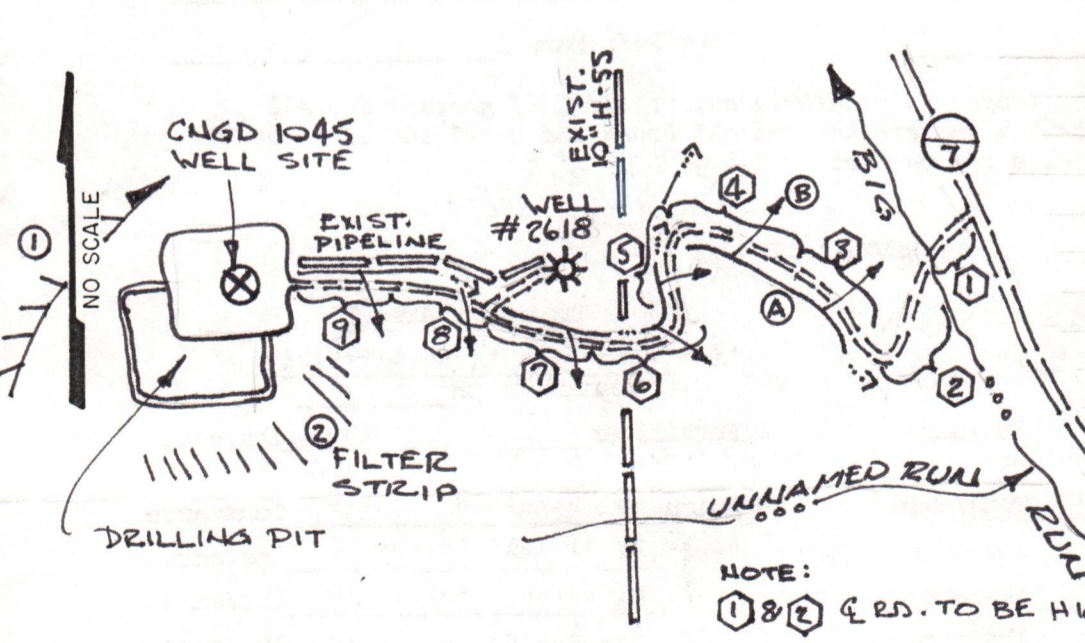
Spring ⊕→

Wet spot ⊕

Building ■

Drain pipe —○—○—○—○—→

Waterway ⊕≡≡≡≡



RD. LENGTH	GRADE	CROSS DRAIN SPACING
1 35'	-2%	NONE REQ'D.
2 75'	+4%	NONE REQ'D.
3 150'	+34%	45'
4 125'	+32%	45'
5 75'	+29%	45'
6 150'	+27%	45'
7 120'	+12%	60'
8 220'	+2%	AS NEEDED
9 250'	+4%	135'

1200' TOTAL ACCESS [ALL EXIST. WELL RD.]

NOTE: ① ② ③ & RD. TO BE HIGHER THAN EDGE OF RD.

Comments: Access to the well site will be gained by upgrading approximately 1200' of existing well road from an intersection point in Calhoun County Route 105. 05/17/2024

The access road will be sloped 2-3% towards the open ditch. All outlets of drainage structures and ditches will be in a flat cleared area. All brush and timber will be removed from the area to be disturbed prior to any earth moving activities. Topsoil will be stockpiled for use in reclaiming. The road and well site will be brought to desired grade with erosion control structures being installed in conjunction with the grading. All cuts will be 2:1 slope or less.



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

**RECEIVED**  
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DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 13-3763

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company CNG Development

Address \_\_\_\_\_

Farm Stalnaker

Well No. 1045

District Washington County Cal.

Drilling commenced 9-13-84

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 _____
8 1/4			
6 5/8			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 Development Drilly #3

Remarks: \_\_\_\_\_

Water 136'

set 40' conductor

called CNG office because they had not set 190' of surface. When the permit was received from Charleston, the pencils in charge in amount of surface was not noticed.

DATE  
9-14-84

05/17/2024

DISTRICT WELL INSPECTOR







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

RECEIVED  
SEP 18 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 13-3763

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company CNG Production

Address \_\_\_\_\_

Farm Stalnaker

Well No. 1045

District Wash. County Cal.

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 _____
8 1/4			
6 5/8			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. D. C. #3

Remarks:

1975'

9-15-84  
DATE

Orlando Moore 05/17/2024

DISTRICT WELL INSPECTOR







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

RECEIVED  
SEP 25 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 13-3763

Oil or Gas Well  
(KIND)

Company C N G Development

Address \_\_\_\_\_

Farm Stalnaker

Well No. 1045

District Washington County Cal.

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

Drillers' Names D D C 3

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8 1/4			
6 5/8			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

Remarks:  
2251' of 8 5/8" casing, Haliburton, 9-16-84  
480 SKS 50/50 P02 cement  
100 SKS REGULAR cement  
Good circulation  
9-16-84

DATE

Wes Moore 05/17/2024  
DISTRICT WELL INSPECTOR









RECEIVED  
JUN 25 1985

OIL & GAS DIVISION  
DEPT. OF MINES

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

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
April 17, 1985

COMPANY CNG Development Company  
P. O. Box 15746  
Pittsburgh, Pennsylvania 15244

PERMIT NO 013-3763 (8-27-84)  
FARM & WELL NO J. Stalnaker, CNGD #1045  
DIST. & COUNTY Washington/Calhoun

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 W. W. Mass  
DATE June 19, 1985

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.

T. H. ...  
Administrator-Oil & Gas Division

June 27, 1985  
DATE



**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 - 013 - 03763 -			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103			
	Section of NGPA	Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5,467 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 <span style="float: right;">Seller Code</span> P. O. Box 15746 Street City Pittsburgh <span style="float: right;">PA</span> 15244 <span style="float: right;">Zip Code</span> State			
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Washington District Field Name Calhoun <span style="float: right;">WV</span> County <span style="float: right;">State</span>			
(b) For OCS wells:	Area Name <span style="float: right;">Block Number</span> Date of Lease: Mo. Day Yr. <span style="float: right;">OCS Lease Number</span>			
(c) Name and identification number of this well: (35 letters and digits maximum.)	Hamilton <span style="float: right;">CNGD #1045</span>			
(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 <span style="float: right;">Buyer Code</span>			
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated total annual production from the well:	3 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.)	S/MMBTU	---	---	---
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	2 9 5 1	---	---
9.0 Person responsible for this application:	Name <u>    B. N. Metzler    </u> <span style="float: right;">Manager Reserves</span> Signature <u><i>B. N. Metzler</i></u> <span style="float: right;">Title</span> Date Application is Completed <u>    12/06/84    </u> <span style="float: right;">Phone Number</span> <u>    412-787-4092    </u>			

Agency Use Only  
 Date Received by Juris. Agency  
**DEC 10 1984**  
 Date Received by FERC



DEC 28 1984

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: December 06, 19 84

AGENCY USE ONLY

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 \_\_\_\_\_

WELL DETERMINATION FILE NUMBER  
841210 -103-013-3763  
Use Above File Number on all  
Communications Relating to This Well

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 Manager of Reserves  
(Print) (Title)

Signature: *R. N. Metzler*

Address: One Park Ridge Center - P.O. Box 15746  
(Street or P.O. Box)  
Pittsburgh, PA 15244

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

(Certificate of Proof of Service to Purchaser)

NGPA Category 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 Buildu

AGENCY USE ONLY

**QUALIFIED**

05/17/2024

**RECEIVED**

DEC 10 1984

OIL & GAS DIV,  
DEPT. OF MINES

Date Received

Determination Date



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

Date December 06, 1984  
Operator's  
Well No. #1045  
API Well No.  
47 - 013 - 03763  
State County Permit

WELL CLASSIFICATION FORM

NEW ONSHORE PRODUCTION WELL  
NGPA Section 103

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

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

LOCATION: Elevation 1060'  
Watershed Big Run  
District Washington County Calhoun (Quad. Chloe

GAS PURCHASER undetermined  
ADDRESS \_\_\_\_\_

Gas Purchase Contract No. N/A  
Meter Chart Code N/A  
Date of Contract N/A

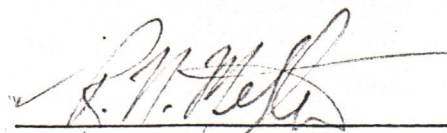
\* \* \* \* \*  
Date surface drilling was begun: 9/13/84

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

BHP = 1159#  
BHP = P-1 + P-1 (e GL 53.34 T-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.

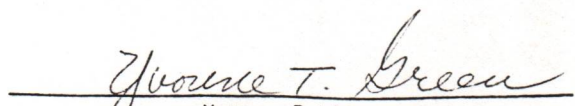
  
\_\_\_\_\_  
R. N. Metzler  
Manager Reserves

Pennsylvania  
STATE OF ~~XXXXXXXXXXXX~~  
COUNTY OF Allegheny, TO WIT:

I, Yvonne T. Green, 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 6th day of December, 19 84, has acknowledged the same before me, in my county aforesaid. **05/17/2024**

Given under my hand and official seal this 6th day of December, 19 84.  
My term of office expires on the 25th day of May, 19 87.

[NOTARIAL SEAL]

  
\_\_\_\_\_  
Notary Public

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



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

**RECEIVED**  
DEC 1 0 1984

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

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 013 - 03763 -				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA	3 Category Code			
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5,467 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				
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Washington District Field Name Calhoun 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.)	Hamilton CNGD #1045				
(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:	3 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.)	S/MMBTU	_____	_____	_____	_____
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	5.902	_____	_____	_____
9.0 Person responsible for this application:	R. N. Metzler Name Manager Reserves Signature 12/06/84 Date Application is Completed Phone Number 412-787-4092				

FERC-121 (8-82)

05/17/2024

Agency Use Only  
Date Received by Juris. Agency  
**DEC 1 0 1984**  
Date Received by FERC



DEC 28 1984

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: December 6, 19 84

AGENCY USE ONLY *Dev*

Applicant's Name: CNG Development Company  
Address: One Park Ridge Center  
P.O. Box 15746  
Pittsburgh, PA 15244

WELL DETERMINATION FILE NUMBER  
841210 -107-013-3763  
Use Above File Number on all  
Communications Relating to This Well

Gas Purchaser Contract No. N/A

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

First Purchaser: undetermined

Designated Agent: Gary A. Nicholas  
Address: CNG Development Company  
Crosswind Corporate Park  
Route 2 Box 698  
Bridgeport, WV 26330

Address: \_\_\_\_\_  
(Street or P.O. Box)  
\_\_\_\_\_  
(City) (State) (Zip Code)

FERC Seller Code \_\_\_\_\_

FERC Buyer Code \_\_\_\_\_

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

Name: Robert N. Metzler Manager of Reserves  
(Print) (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 Category 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
- 103 New Onshore Production Well
- 107 High Cost Natural Gas
- 107-0 Deep (more than 15,000 feet)
  - 107-1 Geopressed 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 Buildu

AGENCY USE ONLY

QUALIFIED

05/17/2024

RECEIVED

DEC 10 1984

OIL & GAS DIV.  
DEPT. OF MINES

Date Received

Determination Date



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

Date December 6, 1984  
Operator's  
Well No. #1045  
API Well No.  
47 - 013 - 03763  
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE  
NGPA Section 107

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

WELL OPERATOR CNG Development Company  
One Park Ridge Center  
ADDRESS P.O. Box 15746  
Pittsburgh, PA 15244  
Attn.: Prod. Reg. Coord.

LOCATION: Elevation 1060'  
Watershed Big Run  
District Washington County Calhoun Quad. Chloee  
Gas Purchase Contract No. N/A  
Meter Chart Code N/A  
Date of Contract N/A

GAS PURCHASER undetermined  
ADDRESS \_\_\_\_\_

\* \* \* \* \*

Date surface drilling was begun: 9/13/84

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

BHP = 1159#  
BHP =  $P_1 + P_1 (e^{GL 53.34 T^{-1}})$

AFFIDAVIT

I, R. N. Metzler, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in Subparagraph (3)(i) or (3)(ii)(A) has been filed, or as indicated by the report described in Subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

R. N. Metzler  
R. N. Metzler  
Manager Reserves

STATE OF ~~WEST VIRGINIA~~  
COUNTY OF Allegheny, TO WIT:

I, Yvonne T. Green, 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 9th day of November, 19 84, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 9th day of November, 19 84. 05/17/2024  
My term of office expires on the 25th day of May, 19 87.

[NOTARIAL SEAL]

Yvonne T. Green  
Notary Public

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



DEVONIAN SHALE GAMMA RAY LOG  
 APPLICATION FOR DETERMINATION OF THE MAXIMUM  
LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

OPERATOR CNG DEVELOPMENT COMPANY

AGENT Gary A. Nicholas

Type Determination being sought - 107 (Devonian Shale)

API WELL NO 47-013-03763

WELL NAME Hamilton CNGD #1045

West Virginia Office of Oil and Gas References:  
 SJA File No. \_\_\_\_\_  
 Volume \_\_\_\_\_ Page \_\_\_\_\_ Line \_\_\_\_\_

COUNTY Calhoun

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray Elevation Indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line =  $\frac{180}{215}$  \* API Units

2. Remarks:

B. Gamma Ray Log Value at 0.7 x (Value at Base Line)

1. GR Value =  $\frac{180}{215}$  \* API Units

2. Calculation: 0.7 (GR Value at Base Line)  $\frac{126}{150}$  API Units  
 0.7 (  $\frac{180}{215}$  \* ) =  $\frac{126}{150}$  API Units

III. Intervals With GR Index Less Than 0.7 x (Value at Base Line):

Interval		Thickness of Interval	Feet of Less Than 0.7 (Shale Base Line)
From**	To***	Feet	Feet*
2,510'	5,665'	3,155'	3,000'

Total Devonian Interval 3,155'

Total Less Than 0.7 (Shale Base) 3,000'

% Less Than 0.7 (Shale Base Line) =  $\frac{3,000}{3,155} \times 100 = \underline{95.09\%}$

05/17/2024

\* Marked on log included with analysis.  
 \*\* Top of Devonian section recorded on first interval in this column.  
 \*\*\* Lesser of TD or bottom of Devonian section recorded as last interval in this column.



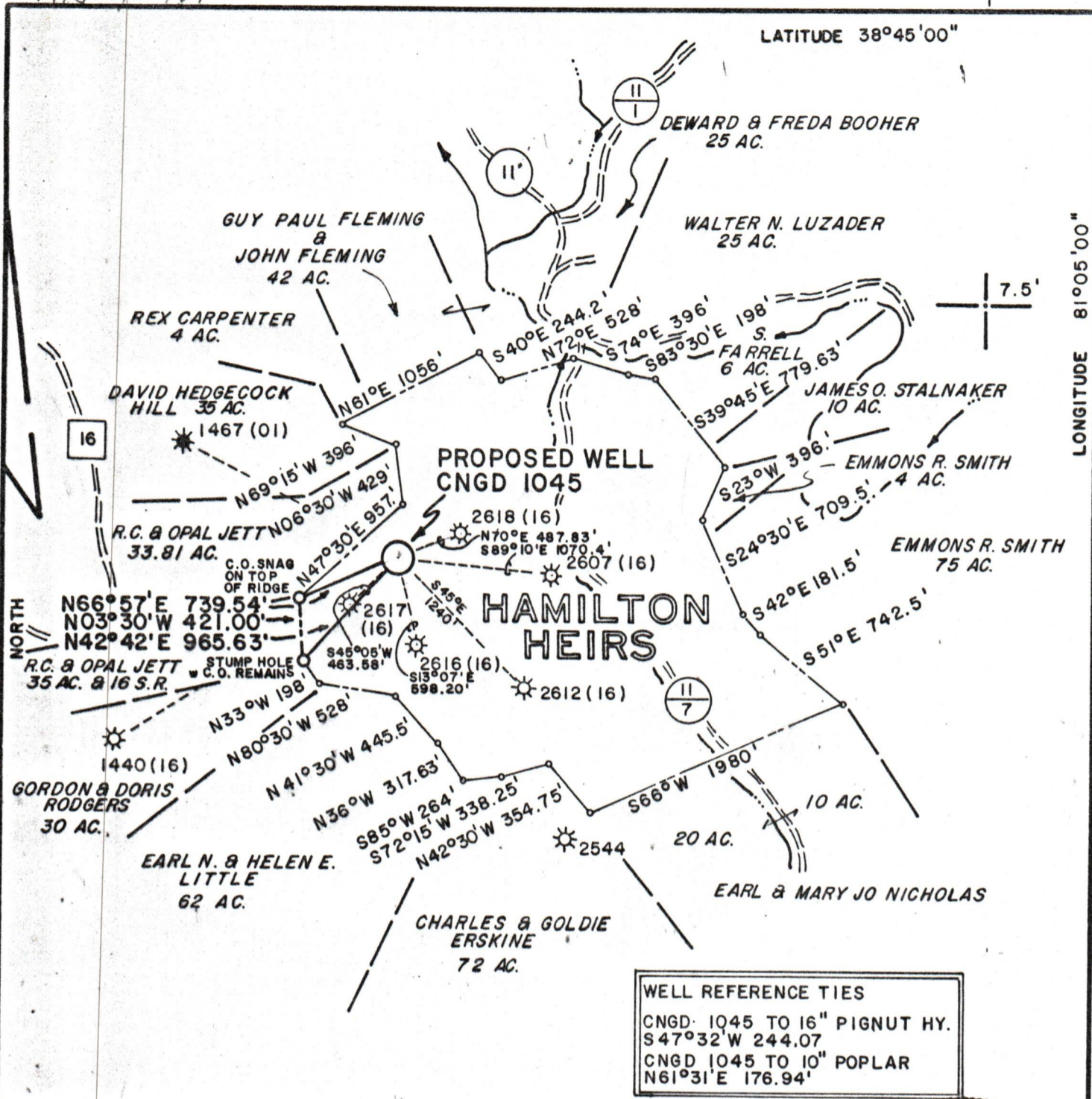
2711 8/2/84

1500'

4,040'

LONGITUDE 81°05'00"

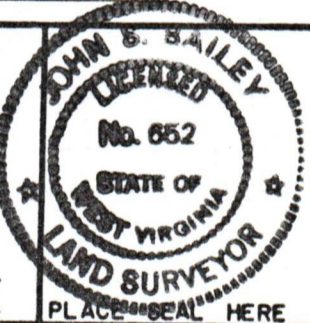
LATITUDE 38°45'00"



WELL REFERENCE TIES  
 CNGD 1045 TO 16" PIGNUT HY.  
 S47°32'W 244.07'  
 CNGD 1045 TO 10" POPLAR  
 N61°31'E 176.94'

FILE NO. MSES 84-456  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION RD INT. RTS. 11 & 11/1 2600' NE LOCATION, ELEV. 767'

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



Department of Mines  
 Oil & Gas Division

DATE JULY 27, 19 84  
 OPERATOR'S WELL NO. CNGD 1045  
 API WELL NO. 47-013-3763  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X)  
 LOCATION: ELEVATION 1059.70' WATER SHED BIG RUN  
 DISTRICT WASHINGTON COUNTY CALHOUN  
 QUADRANGLE CHLOE, W. VA. 1966 (1975)  
 SURFACE OWNER JAMES O. STALNAKER ACREAGE 170.5'  
 OIL & GAS ROYALTY OWNER WILLIAM F. HAMILTON, ET AL LEASE ACREAGE 170.5'  
 LEASE NO. DV-39  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5950'  
 WELL OPERATOR CNG DEVELOPMENT CO. DESIGNATED AGENT GARY A. NICHOLAS  
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698  
PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

05/17/2024







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

Allegheny Nuclear Perforated 2nd Elk 5445 - 5467; 10 holes  
 1st Elk 5141 - 5187; 10 holes  
 Alexander 5007 - 5017; 8 holes

Halliburton Frac	1st Stage	2nd Stage	3rd Stage
BMP	20	16	12
Break	3000	N/A	3000
HHP	1000	1000	1000
Avg. PSI	3000	3450	2700
MOD 202	500 gal	650 gal	350
20/40 Sand	45,000	45,000	45,000
Total BBL Fluid	592	526	530
ISIP	N/A	2800	800
5 min	N/A	2200	700
N <sub>2</sub>	422,000	598,000	450,000
BHTP	3100	3300	2800

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale & RR			0	1243	
Coal			1243	1245	
Sand & Shale			1245	1981	
Lime			1981	2017	
Shale			2017	2030	
Lime			2030	2197	
Injun			2197	2230	
Sand & Shale			2230	5668	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY

Well Operator

By: 

05/17/2024

Date: November 5, 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."