



1) Date: September 5, 19 84  
 2) Operator's Well No. 439  
 3) API Well No. 47 033 3088  
 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: 1258' Watershed: Coburn Fork  
 District: Tenmile County: Harrison Quadrangle: Salem 7.5'
- 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. Stephen Casey  
 Address Rt. 2, Box 232-D  
Jane Lew, WV 26378
- 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, Alexander
- 12) Estimated depth of completed well, 5645 feet
- 13) Approximate trata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_
- 15) CASING AND TUBING PROGRAM

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

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	16					20-30	-		Kinds
Fresh water	11-3/4	H-40	42	X		40	40	To surface	By Rule 15.05
Coal									Sizes
Intermediate	8-5/8	X-42	23	X		1250	1250	To surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X		5645	5645	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 47-033-3088 Date October 26, 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 October 26, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>28</u> <b>BLANKET</b>	Agent: <u>ls</u>	Plat: <u>TS</u>	Casing: <u>TS</u>	Fee: <u>003-972</u>
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*Margaret J. Hass*  
 Administrator, Office of Oil and Gas

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

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

File





OFFICE USE ONLY

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

WELL OPERATOR: CNG Development Company  
 ADDRESS: c/o Paul M. Garret, P.O. Box 15746, Pittsburgh, PA 15244

DESIGNING CONTRACTOR: Sam Jack Drilling Company  
 ADDRESS: Rt. 2, Box 698, Bridgeport, WV 26330

PROPOSED WELL WORK: DATE: \_\_\_\_\_

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

OFFICE USE ONLY

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		
Well work started	October 26	10-23-1988
Completion of the drilling process		
Well Record received		
Reclamation completed		October 26, 1988

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_

SEARCHED INDEXED  
 SERIALIZED FILED  
 OCT 28 1988  
 FEDERAL BUREAU OF INVESTIGATION  
 U.S. DEPARTMENT OF JUSTICE



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.

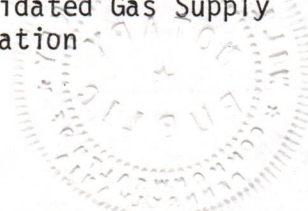
INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

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>
			Gas-\$100 Qr.		
5/1/11	G.M. & J. I. Thompson	George H. Trainer	Oil- 1/8	198	196
9/20/15	to	Racoon Oil & Gas Company		247	403
9/29/15	to	G. O. Cabot, Inc.		247	400
12/1/29	to	Hope Natural Gas Company		407	438
4/20/31	to	Consolidated Gas Supply Corporation	1/8	425	270





1) Date: September 5, 1984  
2) Operator's Well No. 439  
3) API Well No. 47 033-3088  
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 Lester Thompson  
Address R. R. 1  
Salem, WV 26426  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

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

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Trustees Name Willis G. Tetrick, Jr. and  
Maxwell Y. Sutton  
701 Union National Center, Clarksburg, WV 26301  
Name Union National Bank of Clarksburg  
Address Box 1450  
Clarksburg, WV 26301

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name Consolidation Coal Company  
Pittsburgh Seam Address Consolidation Plaza  
Pittsburgh, PA 15241

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.

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.

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SEP 7 - 1984  
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

Paul W. Garrett  
this 5<sup>th</sup> day of September, 1984.  
My commission expires 7/15, 1986.

William H. Draney  
Notary Public, Allegheny County,  
State of Pennsylvania


WELL OPERATOR CNG Development Company


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



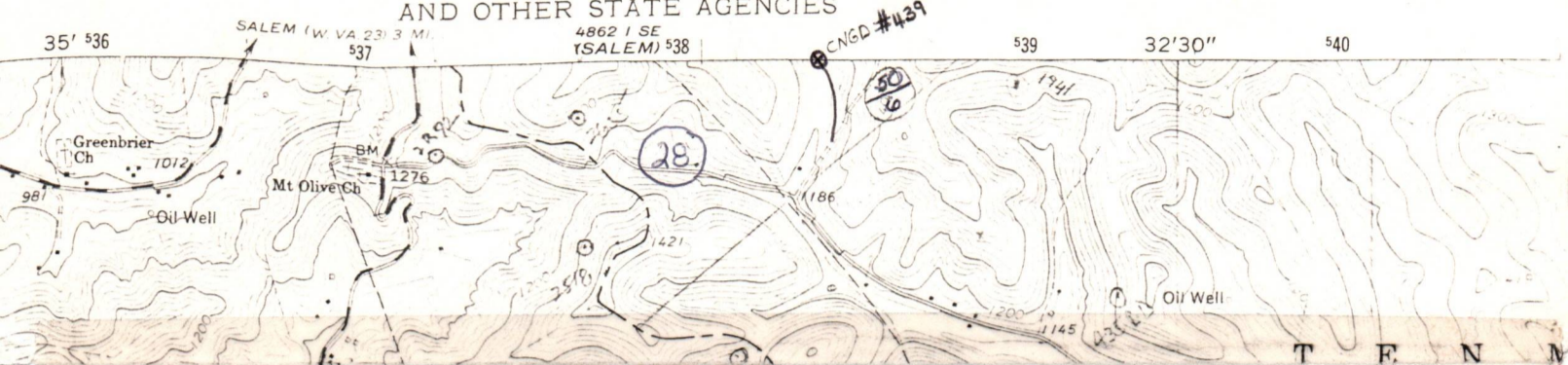
ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Big Isaac 7.5 min.

LEGEND

Well Site 

Access Road 











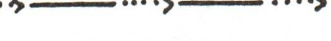

STATE OF WEST VIRGINIA REPRESENTED BY THE STATE OF WEST VIRGINIA GEOLOGICAL SURVEY AND OTHER STATE AGENCIES

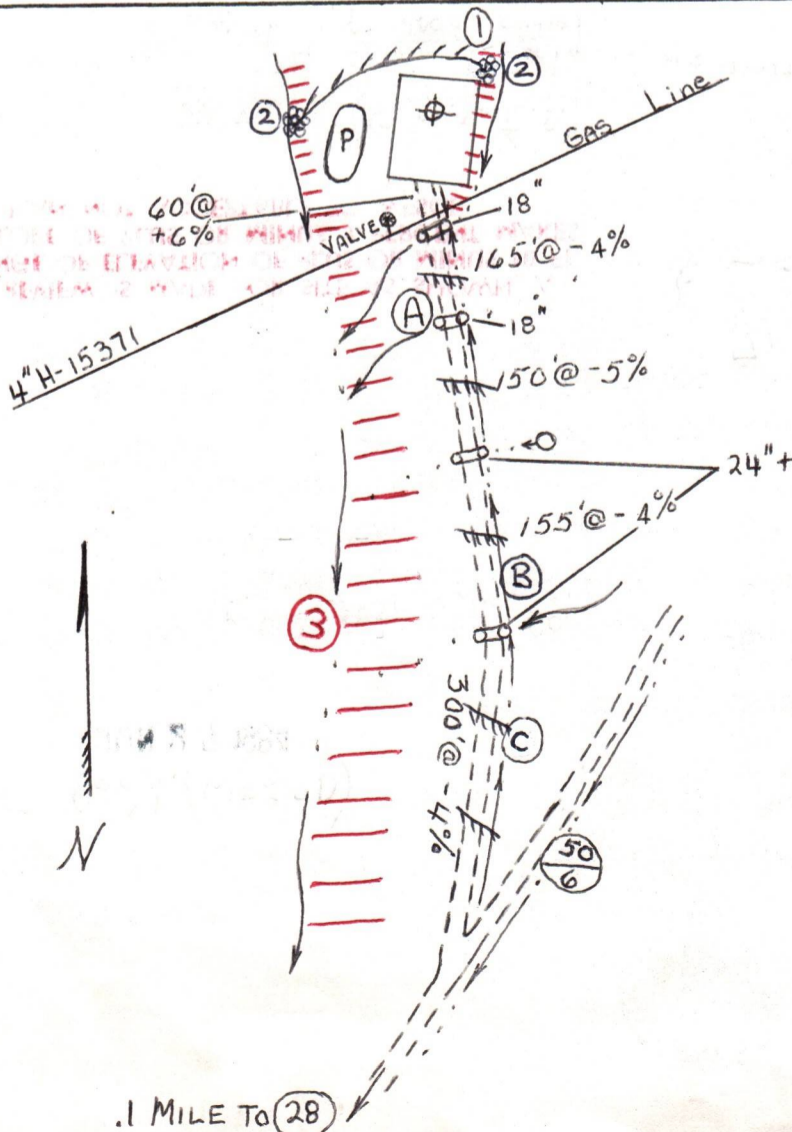


WELL SITE PLAN

Sketch 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  | Diversion   |
| Road               | Spring      |
| Existing fence     | Wet spot    |
| Planned fence      | Building    |
| Stream             | Drain pipe  |
| Open ditch         | Waterway    |



CNGD #439 is on a cleared point between the fork of a drain. The access road angles up along cleared hillside 770 feet to meet with County Route 50/6. Two drains shown below will require culverts and fill.

Caution should be exercised crossing the gas line illustrated above.

Topsoil should be stockpiled for use in revegetation.

Fences and gates should be maintained due to the presence of livestock on the farm.





DATE June 27, 1984  
WELL NO. CNGD # 439  
API NO. 047 - 033 - 3088

State of West Virginia  
Department of Mines  
Oil and Gas Division

Rec'd. (WFSO)  
JUN 27 1984

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME CNG Development Company

Address Park Ridge Center, Pittsburgh, Pa 15244

Telephone 412-429-2390

LANDOWNER Lester Thompson

Revegetation to be carried out by

This plan has been reviewed by West Fork

and additions become a part of this plan:

THIS REVIEW IS MADE FOR SITE AS SHOWN, A CHANGE OF ELEVATION OF PLUS OR MINUS 10 FT. OR SLOPE OF PLUS OR MINUS 3 PERCENT MAKES THIS PLAN NOT ACCEPTABLE TO WFSO.

ACCESS ROAD

Structure Culverts (15" min. I.D.)

Spacing See Illustration (According to O&G Manual)

Page Ref. Manual 2-7

Structure Drainage Ditch

Spacing Accord. to O & G Manual

Page Ref. Manual 2-12

Structure Cross Drains

Spacing 150' apart with riprap outlet

Page Ref. Manual 2-4

Structure Diversion Ditch

Spacing Material Earthen

Page Ref. Manual 2-12

Structure Rip Rap

Material Rock

Page Ref. Manual N/A

Structure Filter Strip

Material undisturbed natural vegetation

Page Ref. Manual 2-16

DEPT. OF MINES

OIL & GAS DIVISION

SEP 7 - 1984

RECEIVED

SCD. All corrections

GARY A. NICHOLAS (Agent)

SOIL CONS. DISTRICT West Fork

Telephone 304-623-8134

Address Rt. 2, Box 698 Bridgeport, WV

DESIGNATED AGENT GARY A. NICHOLAS

Crosswind Corporate Park

Address Rt. 2, Box 698 Bridgeport, WV

Telephone 304-623-8134

SOIL CONS. DISTRICT West Fork

(Agent) GARY A. NICHOLAS

SCD. All corrections

Structure Culverts (15" min. I.D.)

Spacing See Illustration (According to O&G Manual)

Page Ref. Manual 2-7

Structure Drainage Ditch

Spacing Accord. to O & G Manual

Page Ref. Manual 2-12

Structure Cross Drains

Spacing 150' apart with riprap outlet

Page Ref. Manual 2-4

Structure Diversion Ditch

Spacing Material Earthen

Page Ref. Manual 2-12

Structure Rip Rap

Material Rock

Page Ref. Manual N/A

Structure Filter Strip

Material undisturbed natural vegetation

Page Ref. Manual 2-16

Treatment Area I

Lime As deter. by pH test Tons/acre

or correct to pH 6.5

Fertilizer 600 lbs/acre

Mulch Hay or Straw 2 Tons/acre

Seed\* Orchard Grass 10 lbs/acre

Red Clover 12 lbs/acre

Alsike Clover 4 lbs/acre

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

Treatment Area II

Lime As deter. by pH test Tons/acre

or correct to pH 6.5

Fertilizer 600 lbs/acre

Mulch Hay or Straw 2 Tons/acre

Seed\* Orchard Grass 10 lbs/acre

Red Clover 12 lbs/acre

Alsike Clover 4 lbs/acre

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

REVEGETATION

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.

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

PLAN PREPARED BY LAND SURVEYING SERVICES

ADDRESS Rt. 2, Box 215E

Jane Lew, WV 26378

PHONE NO. 304-745-4426





DATE: September 5, 1984  
OPERATOR'S  
WELL NO.: 439

API NO: 47 - 033 - 3088  
State County Permit

State of West Virginia

OFFICE OF OIL AND GAS  
DEPARTMENT OF MINES

A F F I D A V I T

RECEIVED  
SEP 7 - 1984

OIL & GAS DIVISION  
DEPT. OF MINES

State of Pennsylvania  
County of Allegheny

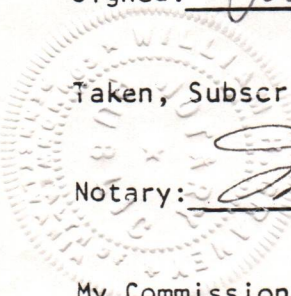
I, Paul W. Garrett (the designated owner or operator, or authorized representative thereof), after being duly sworn, do depose and say that the undersigned is authorized by the owner of the working interest in the well permit application to which this affidavit is attached do state that (he, she, or it) shall tender to the owner of the oil and gas in place not less than one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid or set aside for the owner of the oil or gas in place, or all such oil or gas to be extracted, produced, or marketed from the well. West Virginia Code 22-4-11(e) (1982).

Signed: Paul W. Garrett

Taken, Subscribed, and sworn to before me this 5<sup>th</sup> day of September, 1984.

Notary: William H. Braney

My Commission Expires: February 25, 1986







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RECEIVED  
1914-1915

DEPT. OF MINES  
OF THE DIVISION

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CNGD NO 439

FARM NAME G.M. Thompson

API NO 47-033-3088

LOG TOPS

B. LIME/B. INJ.	2192	2350
WEIR	2416	2520
GANTZ	2612	2650
50'	2715	2760
GORD. STR./GORD.	2824	2940
4TH	3000	3020
5TH/L.5TH	3148	3224
WARREN	3480	3520
U. SPEECH.	3683	3740
SPEECH	3812	3834
BALLTOWN	4044	4182
BRADFORD	4243	4486
RILEY	4905	5034
BENSON	5125	5145
LEOPOLD	5247	5292
CEDAR CREEK	5408	5530

HARR 3088

1-2-05  
DATE

Steve Casey

DISTRICT WELL INSPECTOR

DISTRICT WELL INSPECTOR







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

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JAN 21 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 33-3088

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

Company CNG Devel.

Address \_\_\_\_\_

Farm Thompson

Well No. 439

District \_\_\_\_\_ County Harr.

Drilling commenced \_\_\_\_\_

Drilling completed 1-11-85 Total depth 5654

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			
8 1/4			Size of _____
6 1/4			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 500511

Remarks: 4 1/2 at 5596' 165 SK. Halliburton

1-11-85  
DATE

Steve Casey  
DISTRICT WELL INSPECTOR







STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OFFICE OF OIL AND GAS  
CHARLESTON 25305  
FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT

Company: CNG DEVELOPMENT COMPANY  
Farm: THOMPSON, LESTER Well: 439

Permit No. 47- 33-308B (10-26-84)  
County: HARRISON

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work		
25.04	Prepped before drilling to prevent waste		
25.03	High pressure drilling		
16.01	Required permits at wellsite		
15.03	Adequate Fresh Water Casings		
15.02	Adequate Coal Casings		
15.01	Adequate Production Casings		
15.04	Adequate Cement Strength		
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		
16.05	Identification Markings		

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

SIGNED Steve Casey  
DATE 9-24-85

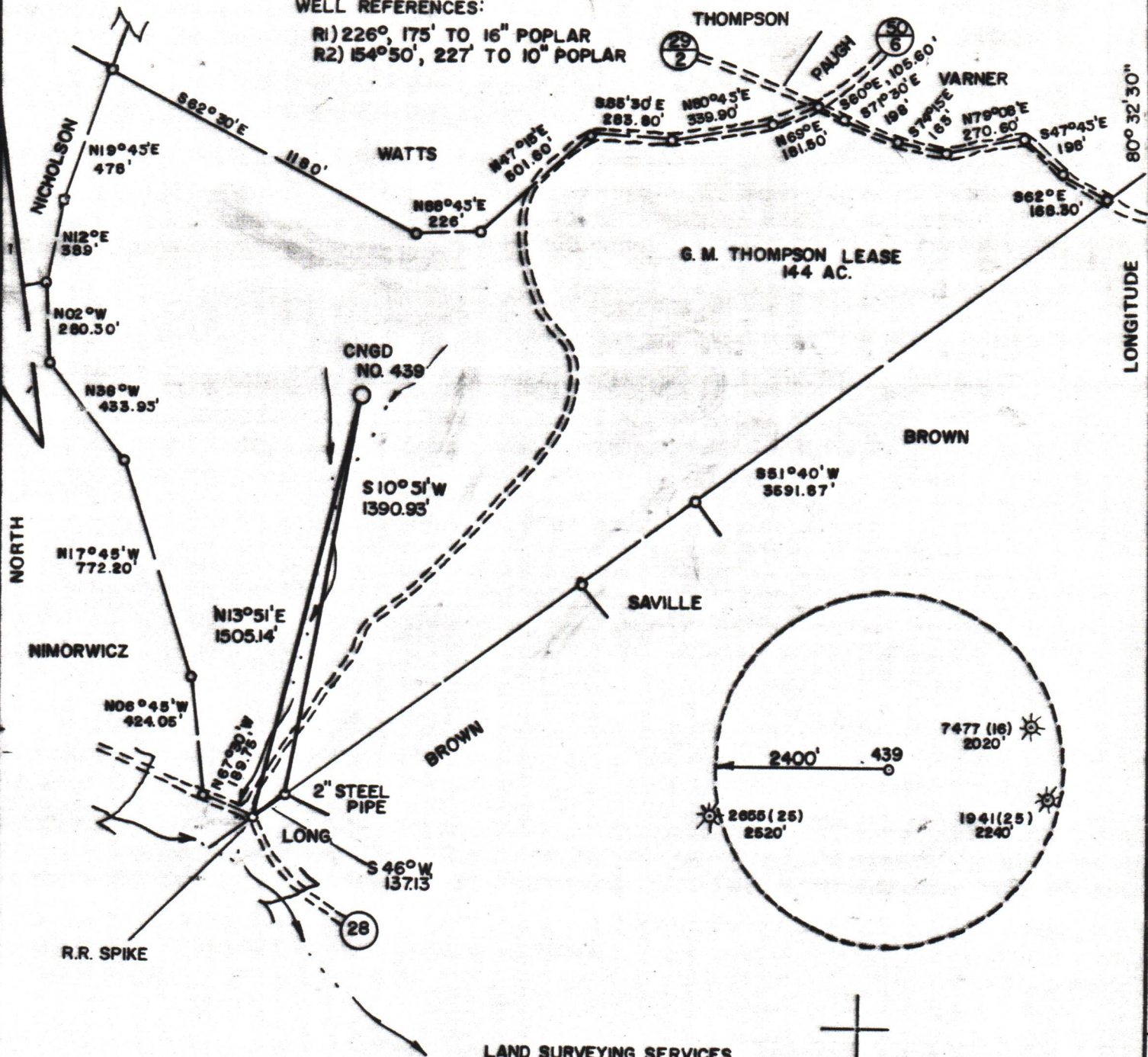
Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...  
Administrator

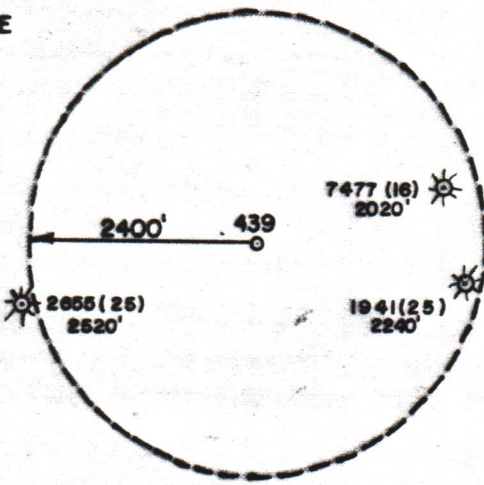
October 9, 1985  
Date



WELL REFERENCES:  
 R1) 226°, 175' TO 16" POPLAR  
 R2) 154°50', 227' TO 10" POPLAR



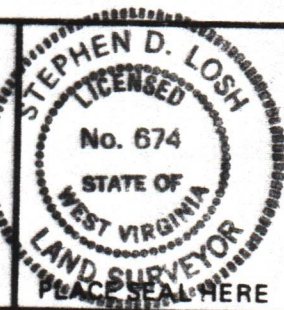
G. M. THOMPSON LEASE  
144 AC.



LAND SURVEYING SERVICES  
 RT. 2, BOX 215E  
 JANE LEW, WV 26378  
 PHONE: 304-745-4426

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION ROAD INTER. 1600' S OF LOCATION ELEV. 1186'

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) *Stephen D. Losh*  
 R.P.E. \_\_\_\_\_ L.L.S. 674  
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE JULY 5, 1984  
 OPERATOR'S WELL NO. CNGD 439  
 API WELL NO. 47-033-3088  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE  DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1258' WATER SHED COBURN FORK  
 DISTRICT TENMILE COUNTY HARRISON  
 QUADRANGLE SALEM 75 min.

SURFACE OWNER LESTER THOMPSON ACREAGE 72.00  
 OIL & GAS ROYALTY OWNER JOHN R. MORRIS LEASE ACREAGE 144.00  
 LEASE NO. 44999

PROPOSED WORK: DRILL  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 ALEXANDER ESTIMATED DEPTH 5645'  
 WELL OPERATOR CNG DEVELOPMENT CO. DESIGNATED AGENT GARY A. NICHOLAS  
 ADDRESS 1 PARK RIDGE CENTER ADDRESS CROSSWIND CORPORATE PARK  
 PITTSBURGH, PA. 15244 RT. 2, BOX 698, BRIDGEPORT, WV 26330



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

Allegheny Perforated Alexander 5474 - 5482; 10 holes (.39)

Halliburton Water Frac Break 2700, Avg. HHP 2075, Avg. BPM 24.9, Avg. PSI 3400,  
500 gals MOD 202 Acid, 45,700# 20/40 Sand, 649 BBL Fluid, ISIP 1800, 5 min 1650.

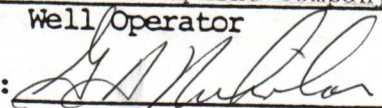
DEPT. OF MINES  
DIVISION

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top Soil Sand			0	40	
RR & Sand			40	875	Coal Seams; 875 - 882
Coal			875	882	Water 110'
Sand, SH			882	2195	
Big Lime			2195	2265	
Sand, Shale			2265	5654	
See Attached Sheet					

(Attach separate sheets as necessary)

CNG Development Company  
Well Operator

By: 

Date: January 28, 1985

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 January 28, 1985  
Operator's  
Well No. CNGD WN 439  
Farm G. M. Thompson  
API No. 47 - 033 - 3088

**RECEIVED**  
APR 5 - 1985  
OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

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

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

LOCATION: Elevation: 1258' Watershed Coburn Fork  
District: Tennile County Harrison Quadrangle Salem 7.5'

COMPANY CNG DEVELOPMENT COMPANY

ADDRESS P.O.Box 15746, Pittsburgh, PA 15244

DESIGNATED AGENT Gary A. Nicholas

ADDRESS Rt. 2 Box 698, Bridgeport, WV 26330

SURFACE OWNER Lester Thompson

ADDRESS Rt. 1, Salem, WV 26426

MINERAL RIGHTS OWNER John R. Morris

ADDRESS   

OIL AND GAS INSPECTOR FOR THIS WORK   

Stephen Casey ADDRESS Rt. 2 Box 232-D, Jane Lew, WV 26378

PERMIT ISSUED 10-26-84

DRILLING COMMENCED 1-2-85

DRILLING COMPLETED 1-10-85

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.	18	18	To Surf.
<del>11-3/4</del>	130	130	To Surf.
9 5/8			
8 5/8	1289	1289	To Surf.
7			
5 1/2			
4 1/2	5625	5625	165 sks.
3			
<del>2</del> 1-3/4	5459	5459	-----
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5645 feet

Depth of completed well 5654 feet Rotary x / Cable Tools   

Water strata depth: Fresh 110 feet; Salt    feet

Coal seam depths: 875 - 882 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5474-5482 feet

Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d

Final open flow 231 Mcf/d Final open flow    Bbl/d

Time of open flow between initial and final tests    hours

Static rock pressure 1050 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)