



1) Date: May 8, 1984
 2) Operator's Well No. 418 *Revised*
 3) API Well No. 47 - 001 - 2043-REV
 State County Permit

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

REVISED APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage Deep / Shallow)
- 5) LOCATION: Elevation: 1340.51 Watershed: Taylor Drain *MT-26-A*
 District: Pleasant County: Barbour Quadrangle: Philippi
- 6) WELL OPERATOR CNG Development Company
 Address c/o Paul 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 / 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, 5225
 13) Approximate trata depths: Fresh, 170, 285-92, 1470-77 feet; salt, _____ feet.
 14) Approximate coal seam depths: 165-170, 225-228, Is coal being mined in the area? Yes _____
- 15) CASING AND TUBING PROGRAM 285-292

RECEIVED
MAY 9 - 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									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		1650	1650	To surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X		5225	5225	200-400 sks	Depths set Rule 15.01
Tubing	1-1/2	CN-55	2.75	X					
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-001-2043-REV Date May 25, 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 May 25, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond BLANKET	Agent: <i>JS</i>	Plat: <i>MLU</i>	Casing: <i>MA</i>	Fee: <i>NP</i>
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T. J. [Signature]
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

5/25



OFFICE USE ONLY

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

1) LOCATION: District: PIESLAND Well No: 13-0-31 Township: Taylor County: Barbour State: MD

2) WELL OPERATOR: CHC DEVELOPMENT COMPANY Address: C/O Fabulgarret, P.O. Box 15740 Pittsburgh, PA 15246

3) DRILLING CONTRACTOR: SEA JACK DRILLING COMPANY Address: P.O. Box 48 Pittsburgh, PA 15246

4) DESIGNATED AGENT: GUY MICHOLES Address: Crossing Corporate Park Pittsburgh, PA 15246

RECEIVED
MAY 10 - 1984

DEPT. OF MINES
OIL & GAS DIVISION

5) PROPOSED WELL WORK: This well is for drilling of new formation. The old formation is Carboniferous. Other physical changes in well (specify): None

6) APPROXIMATE DEPTH: 100-110 feet. Is coal being mined in the area? Yes

7) ESTIMATED DEPTH OF COPIED WELL: 100-110 feet.

8) APPROXIMATE DEPTH OF COPIED WELL: 100-110 feet.

9) APPROXIMATE DEPTH OF COPIED WELL: 100-110 feet.

OFFICE USE ONLY

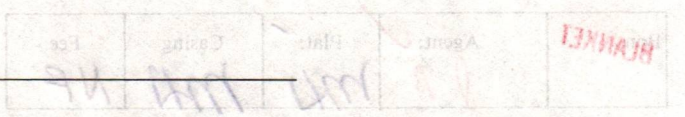
This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

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

OTHER INSPECTIONS

Reason: _____

Reason: _____



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.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (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 Page</u>
Hugh R. Mitchell, et al	CGSC.	1/8	68 351

1) Date: May 15, 1984, 19 84
2) Operator's Well No. CNGD 418
3) API Well No. 47-001-2093-Rev.
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 Richard L. Keene
Address Route 3, Box 189
Phillippi, WV 26416

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR KIT ENERGY CORP.

Address 455 RACE TRACK RD.
MEADOW LANDS, PA 15347

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:

Name Hillman Coal Company
Address 1900 Grant Building
Pittsburgh, PA 15219

Name ROYAL LAND COMPANY
Republic Steel Corporation
Address 455 Race Track Rd, PO Box 500
Meadow Lands, PA 15347

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.

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

Gary A. Nicholas
this 15 day of May, 19 84.
My commission expires 07/11, 19 93.

Mary Ellen Cliffritt
Notary Public, Harrison County,
State of West Virginia

WELL

OPERATOR CNG Development Company

By Gary A. Nicholas
Its Southern Operations, Manager
Address Crosswind Corporate Park
Rt. 2, Box 698, Bridgeport, WV 26330
Telephone (304) 623-8842



1) Date: May 8, 19 84
 2) Operator's Well No. 418
 3) API Well No. 47 State _____ County _____ Permit _____

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

REVISED APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1340.51 Watershed: Taylor Drain
 District: Pleasant County: Barbour Quadrange: Philippi
- 6) WELL OPERATOR CNG Development Company 7) DESIGNATED AGENT Mr. Gary Nicholas
 Address c/o Paul Garrett, P.O. Box 15746 Address Crosswind Corporate Park
Pittsburgh, PA 15244 Rt. 2, Box 698, Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Mr. Phillip Tracy Name Sam Jack Drilling Company
 Address Forest Festival Terrace, Apt. 24 Address P. O. Box 48
Elkins, WV 26241 Buckhannon, 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, Haverty
- 12) Estimated depth of completed well, 5225 feet
- 13) Approximate strata depths: Fresh, 170, 285-92, 1470-77 feet; salt, _____ feet.
- 14) Approximate coal seam depths: 165-170, 225-228, 285-292 Is coal being mined in the area? Yes _____ / No X /
- 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		
Conductor									Kinds
Fresh water	<u>11-3/4</u>	<u>H-40</u>	<u>42</u>	<u>X</u>		<u>30</u>	<u>30</u>	<u>To surface</u>	<u>By Rule 15.05</u>
Coal									Sizes
Intermediate	<u>8-5/8</u>	<u>X-42</u>	<u>23</u>	<u>X</u>		<u>1650</u>	<u>1650</u>	<u>To surface</u>	<u>By Rule 15.05</u>
Production	<u>4-1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>X</u>		<u>5225</u>	<u>5225</u>	<u>200-400 sk</u>	Depths set <u>Rule 15.01</u>
Tubing	<u>1-1/2</u>	<u>CN-55</u>	<u>2.75</u>	<u>X</u>					
Liners									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: _____, 19 _____

By _____

Its _____



1) Date: May 8, 1984
 2) Operator's Well No. 478
 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**

REVISED

- 4) WELL TYPE: A Oil _____ / Gas X X /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1340.51 Watershed: Taylor Drain
 District: Pleasant County: Barbour Quadrangle: Phillippi
- 6) WELL OPERATOR Oil Development Company 7) DESIGNATED AGENT Mr. Gary Nicholas
 Address c/o Paul Garrett, P.O. Box 15746 Address Crosswind Corporate Park
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 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Haverty
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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		
Conductor									Kinds
Fresh water	<u>11-3/4</u>	<u>H-40</u>	<u>42</u>	<u>X</u>		<u>30</u>	<u>30</u>	<u>To surface</u>	<u>By Rule 15.05</u>
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Intermediate	<u>8-5/8</u>	<u>X-42</u>	<u>23</u>	<u>X</u>		<u>1650</u>	<u>1650</u>	<u>To surface</u>	<u>By Rule 15.05</u>
Production	<u>4-1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>X</u>		<u>5225</u>	<u>5225</u>	<u>200-400 sks</u>	<u>Rule 15.01</u>
Tubing	<u>1-1/2</u>	<u>CN-55</u>	<u>2.75</u>	<u>X</u>					Depths set
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.)

(For execution by natural persons)

NAME: _____
 By _____
 Its _____ Date _____

 (Signature) Date: _____

 (Signature) Date: _____

**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.

AFFIDAVIT OF PERSONAL SERVICE ON ^{COAL}~~SURFACE~~ OWNER

STATE OF WEST VIRGINIA,
COUNTY OF KANAWHA:

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form IV-2(A) Form IV-3(A) Form IV-4(A)
- (2) Application on Form IV-2(B) Form IV-3(B) Form IV-4(B)
- (3) Plat showing the well location on Form IV-6, and
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well No. CNGD 418 located in PLEASANT District, BARBOUR County, West Virginia, upon the person or organization named--

ROYAL LAND CO.

--by delivering the same in WASHINGTON County, State of PENNSYLVANIA on the 3rd day of APRIL, 1984 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

- [] Handing it to him / her / or, because he / she refused to take it when I offered it, by leaving it in his / her presence.
- [] Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

- [] Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

- [] Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

- [] Handing it to the corporation's employee / officer / director / attorney in fact named MICHAEL A. DILLON.

[Signature]
(Signature of person executing service)

Taken, subscribed and sworn before me this 18th day of May, 1984
My commission expires August 19, 1990

[Signature]
Notary Public

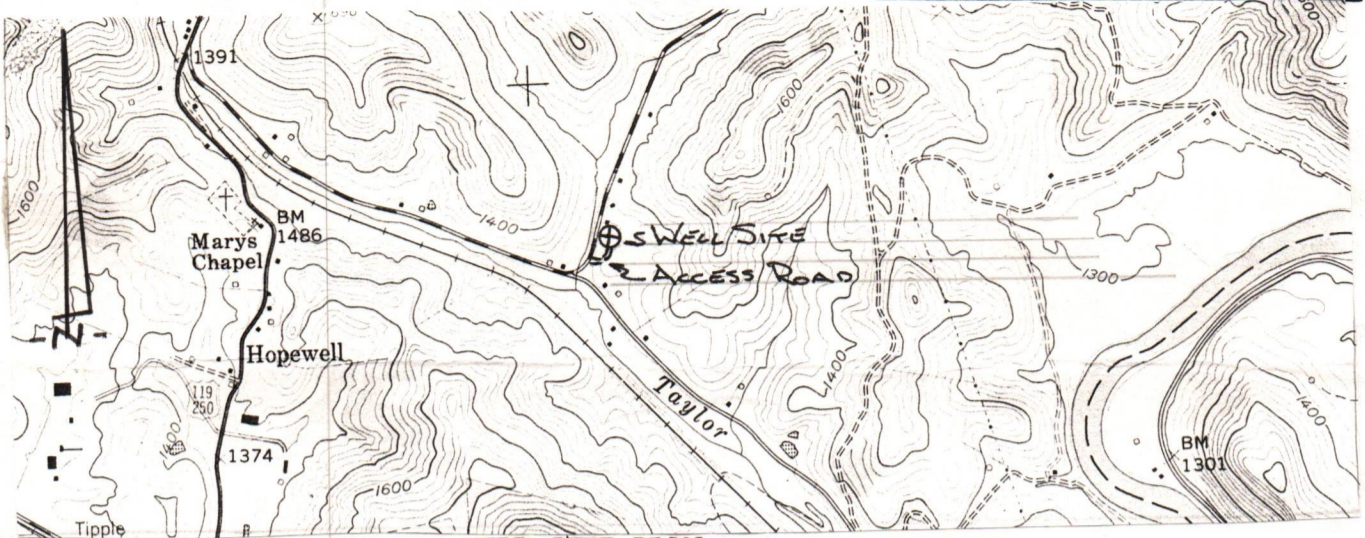
(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Philippi 7.5' (1976)

LEGEND

Well Site ⊕

Access Road ———

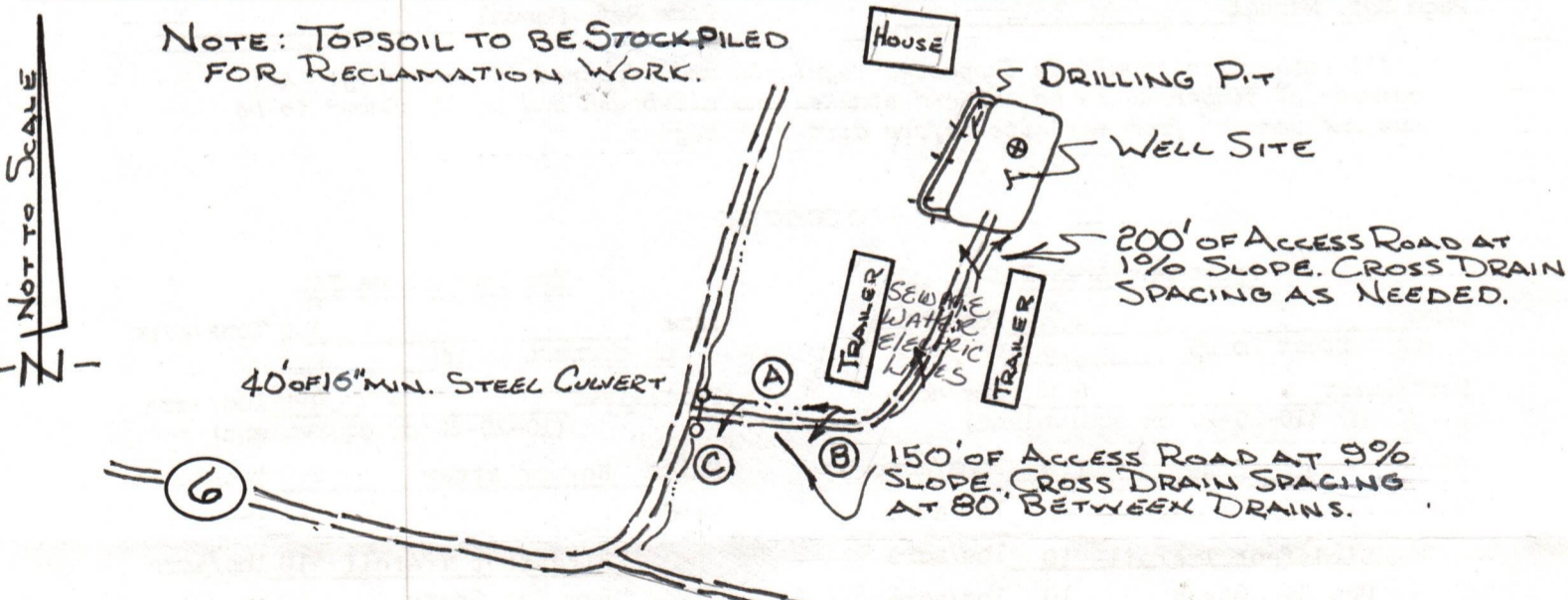


WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, well site, 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 —x—x—	Wet spot ⊕
Planned fence —/—/—	Building ■
Stream ~~~~~	Drain pipe —○→○→
Open ditch ———→	Waterway ←≡≡≡≡



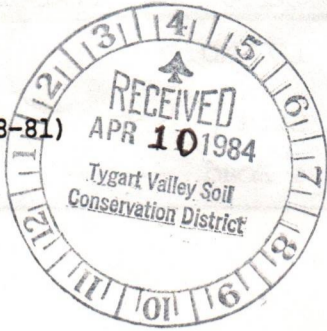
Comments: Access to the well site will be gained by constructing approximately 350 feet of new access road, beginning at a junction point in the Barbour County Route 6. The access road will be sloped at 2-3% towards the open ditch. All outlets of drainage structures and ditches will be to stable areas. The well location will be located in a flat cleared area. All brush and timber will be removed from the area to be disturbed prior to any earth moving activities. The road and well site will be brought to desired grade with erosion control structures being installed in conjunction with the grading. Natural vegetation (filter strip) will remain undisturbed in areas between construction and natural water courses.



DATE April 6, 1984
WELL NO. CNGD 418 Rev.
API NO. 47 - 001 - 2043-Rev.

State of West Virginia
Department of Mines
Oil and Gas Division

IV-9
(Rev 8-81)



CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME C.N.G. Development Company Gary A. Nicholas
One Park Ridge Center DESIGNATED AGENT Crosswind Corporate Park
Address Pittsburgh, PA 15219 Address Route 2
Bridgeport, WV 26330
Telephone 412-429-2390 Telephone 304-623-8134
LANDOWNER Richard L. Keen SOIL CONS. DISTRICT Tygart Valley

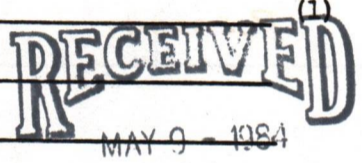
Revegetation to be carried out by Gary A. Nicholas (Agent)
This plan has been reviewed by Tygart Valley SCD. All corrections
and additions become a part of this plan: 4/16/84
(Date)
Jean Freeman
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Drainage Ditch (A)
Spacing Along access road
Inside road cuts
Page Ref. Manual 2-12 to 2-14
Structure Cross Drains (B)
Spacing As noted on sketch
Page Ref. Manual 2-1 to 2-6
Structure Culvert (C)
Spacing 16" Min. Steel Road
Page Ref. Manual 2-7 to 2-11

Structure _____ (1)
Material _____
Page Ref. Manual _____
Structure OIL & GAS DIVISION (2)
Material DEPT. OF MINES
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.

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

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

COAL OPERATOR
AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

STATE OF WEST VIRGINIA,
COUNTY OF KANAWHA :

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form IV-2(A) / Form IV-3(A) / Form IV-4(A) /
- (2) Application on Form IV-2(B) / Form IV-3(B) / Form IV-4(B) /
- (3) Plat showing the well location on Form IV-6, and
- (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well)

--all with respect to operator's Well No. CNG.D 418 located in PLEASANT District, BARBOUR County, West Virginia, upon the person or organization named--

KITT ENERGY CORP.

--by delivering the same in WASHINGTON County, State of PENNSYLVANIA on the 3rd day of APRIL, 1984 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

- Handing it to him / her / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.
- Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

- Handing it to , a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

- Handing it to the general partner, named , or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

- Handing it to the corporation's employee / officer / director / attorney in fact / named FRANK MILLER.

[Signature]
(Signature of person executing service)

Taken, subscribed and sworn before me this 18 day of May, 1984.
My commission expires August 19, 1990.

[Signature]
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)



1) Date: March 27, 19 84
 2) Operator's Well No. 418
 3) API Well No. 47 - 001 - 2043
 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: 1348.23 Watershed: Taylor Drain
 District: Pleasant County: Barbour Quadrangle: Philippi
 6) WELL OPERATOR CNG Development Company
 Address c/o Paul 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 / 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, 5225 feet
 13) Approximate strata depths: Fresh, 170, 285-92 feet; salt, _____ feet.
 14) Approximate coal seam depths: 165-70, 225-28, 285-92 Is coal being mined in the area? Yes No

RECEIVED
 APR 2 - 1984
 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		
Conductor									Kinds
Fresh water	11-3/4	H-40	42	X		30	30	To surface	By Rule 15.05
Coal						300 to 850	300 to 850		Sizes
Intermediate	8-5/8	X-42	23	X		1650	1650	To surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X		5225	5225	200-400 sks	Depths set Rule 15.01
Tubing	1-1/2	CN-55	2.75	X					Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-001-2043

May 2, 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 May 2, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>ls</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>001624</u>
----------------------	------------------	-----------------	-------------------	--------------------

[Signature]
 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

4) WELL LOCATION: District: _____ County: _____ Quadrangle: _____
 Elevation: _____
 B (H) Gas Production: _____
 Underground (cross): _____
 Deep: _____
 Shallow: _____

5) WELL OPERATOR: Address: _____
 Designated Agent: Address: _____

6) DRILLING CONTRACTOR: Name: _____ Address: _____

7) OIL & GAS INSPECTOR TO BE NOTIFIED: Name: _____ Address: _____

RECEIVED
APR 2 - 1984

DEPT. OF MINES
OIL & GAS DIVISION

10) PROPOSED WELL WORK: Drill: _____ deeper: _____
 Plug off old formation: _____
 Perform new formation: _____
 Other physical change in well (specify): _____

11) GEOLOGICAL TARGET FORMATION: _____

12) Estimated depth of completed well: _____ feet
 13) Approximate true depth: _____ feet
 14) Approximate coal seam depth: _____ feet
 Is coal being mined in the area? Yes _____

Casing or tubing type	Size	Casing	Well	New	Lead	SPECIFIC INTERVALS		GENERAL INTERVALS	PACKERS
						Top	Bottom		
Conductor									
Production									
Intermediate									
Coal									
Intermediate									
Production									

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		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

Brand	Model	Serial	Date	Inspector	Remarks

1) Date: _____, 19____
2) Operator's Well No. _____
3) API Well No. 47 _____
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 _____
Address _____

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR _____
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
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.

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

Gary A. Nicholas
this 15 day of May, 1984.
My commission expires 07/11, 1993.

Mary Ellen Clifflitt
Notary Public, Harrison County,
State of West Virginia

WELL

OPERATOR CNG Development Company

By Gary A. Nicholas
Its Manager, Southern Operations
Address Crosswind Corporate Park
Rt. 2, Box 698, Bridgeport, WV 26330
Telephone (304) 623-8842

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.

I N F O R M A T I O N S U P P L I E D U N D E R C O D E § 22-4-11(d)

I N L I E U O F F I L I N G L E A S E (S) A N D O T H E R C O N T I N U I N G C O N T R A C T (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

1) Date: March 27, 19 84
2) Operator's Well No. 418
3) API Well No. 47-001-2048
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 Richard L. Keene
Address Route 3, Box 189
Phillipi, WV 26416

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR _____
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Hillman Coal Company
Address 1900 Grant Building
Pittsburgh, PA 15219

Name Republic Steel Corporation
Address 455 Race Track Rd., P.O. Box 500
Kittanning
Seam Meadow Lands, PA 15347

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.

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 lease 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 of my County and State by

James Frink
on 27 day of March, 1984.
My commission expires 5/25, 1987.

Yvonne T. Green
Notary Public, Allegheny County,
State of Pennsylvania

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

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

RECEIVED
APR 2 - 1984
OIL & GAS DIVISION
DEPT. OF MINES

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.
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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>
Hugh R. Mitchell, etal	Consolidated Gas Supply Corporation	1/8	68	351

418
STATE OF WEST VIRGINIA

COUNTY OF Barbour

On this, the 6th day of April, 1984,

the undersigned, RICHARD L. KEENE & ESTHER L. KEENE, owners of 16.4 acres of land situate in Pleasant District, Barbour County, which is subject to Oil and Gas Lease dated October 14, 1970 made by Hugh R. Mitchell, et al to Consolidated Gas Supply Corporation, said lease being recorded in public records of Barbour County, in Book 68, at Page 351 do hereby approve of the proposed well location of CNG Development Company. Said location as presently staked is approximately 130 feet from our house.

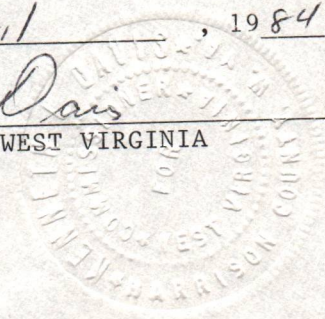
Richard L. Keene

Esther L. Keene

RECEIVED
MAY 9 - 1984
OIL & GAS DIVISION
DEPT. OF MINES

Sworn to and subscribed before me this 6th day of April, 1984.

Kenneth L. Davis
COMMISSIONER FOR WEST VIRGINIA



LEGEND

Well Site ⊕

Access Road ———

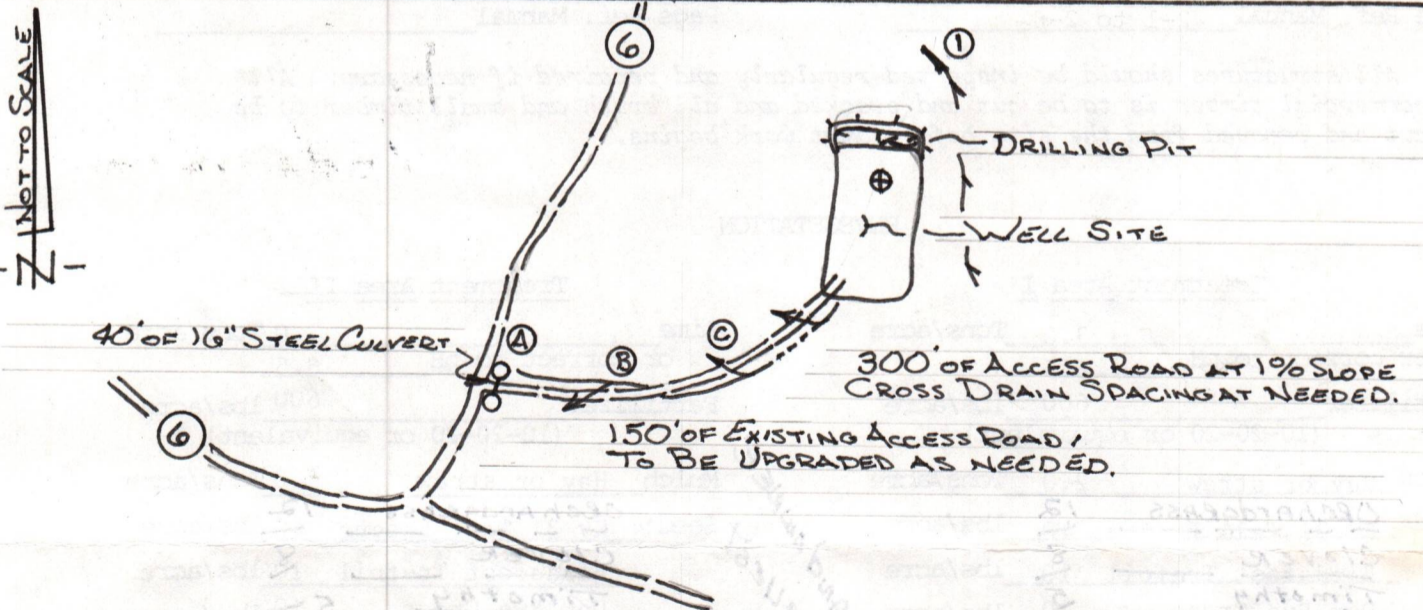


WELL SITE PLAN

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

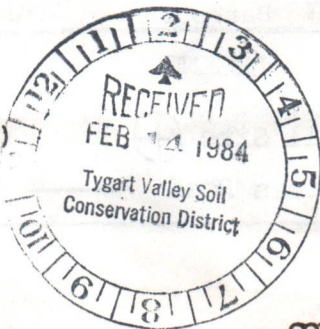
LEGEND

Property boundary ————	Diversion // // // // //
Road = = = = =	Spring ○ →
Existing fence — x — x —	Wet spot ☉
Planned fence / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe — ○ — ○ — ○ —
Open ditch — — — — —	Waterway < = = = =



Comments: Access to the well site will be gained by constructing approximately 300 feet of new access road and upgrading as needed 150' of existing road, beginning at a junction point in the Barbour County Route 6. The access road will be sloped at 2-3% towards the open ditch. All outlets of drainage structures and ditches will be to stable areas. The well location will be located in a flat cleared area. All brush and timber will be removed from the area to be disturbed prior to any earth moving activities. The road and well site will be brought to desired grade with erosion control structures being installed in conjunction with the grading. Natural vegetation (filter strip) will remain undisturbed in areas between construction and natural water courses. Under most conditions, the preceding plan will be followed; however, due to lease restrictions, surface owner request and weather conditions, etc., the plan may be altered. Subsequently, the proper erosion and sediment control measures will be installed.

IV-9
(Rev 8-81)



DATE February 10, 1984

WELL NO. CNGD 418

API NO. 47 - 001 - 2043

State of West Virginia
Department of Mines
Oil and Gas Division

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 Richard L. Keen
Revegetation to be carried out by Gary A. Nicholas

SOIL CONS. DISTRICT Tygart Valley
(Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan:

2/20/84
(Date)
Jean Freeman
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Culvert (A)
Spacing 16" Steel Road Culvert
Page Ref. Manual 2-7 to 2-11

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

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

Structure (2)
Material
Page Ref. Manual

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

Structure OIL & GAS DIVISION
Material DEPT. OF MINES
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

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* Orchardgrass 12 lbs/acre
Ky 31 Tall Fescue 40 lbs/acre
Clover 8 lbs/acre
Birdsfoot Trefoil 10 lbs/acre
Timothy 10 lbs/acre

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* Orchardgrass 12 lbs/acre
Ky 31 Tall Fescue 40 lbs/acre
Clover 8 lbs/acre
Birdsfoot Trefoil 10 lbs/acre
Timothy 5 lbs/acre

Landowner Request

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

[Signature]

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.

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

ALLEGHENY PERFORATED; 1st State Haverty Formation - 5083 - 5103; 10 holes (.39)
 2nd State, 2nd Riley - 3926 - 3938; 10 holes (.39)
 3rd Stage, 1st Riley - 3722 - 3726; 8 holes (.39)
 4th Stage, Speechley/Warren - 2832 - 2847; 10 holes (.30)
 2534 - 2536; 3 holes (.39)

Halliburton Fractured (1st Stage) 750 gals MOD 202 Acid, 40,000# - 20/40 Sand, 674 BBL Fluid
 (2nd Stage) 500 gals MOD 202 Acid, 50,000# - 20/40 Sand, 652 BBL Fluid
 (3rd Stage) 500 gals MOD 202 Acid, 36,000# - 20/40 Sand, 551 BBL Fluid
 (4th Stage) 750 gals MOD 202 Acid ± 1000 gals Enwar Mix, 50,000# 20/40 Sand,
 780 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
KB - GL			0	10	Water;
Soil			10	15	
Sd & Sh			15	715	1/2" stream water @ 45'
Sd, Sh & RR			715	910	1" stream @ 170'
Sand			910	1035	1" stream @ 265'
Sd, Sh & RR			1035	1125	1" stream @ 1600'
Lime			1125	1245	
Injun & Sd			1245	1370	
Sd & Sh			1370	1575	
Gantz			1575	1640	
Sd & Sh			1640	1850	
Sh & RR			1850	2120	
Sd, Sh & RR			2120	2290	
Sd & Sh			2290	3030	
Balltown			3030	3060	
Sd, Sh			3060	4090	
Brown Sand			4090	4105	
Sd & Sh			4105	4240	
Sand Ash			4240	4490	
Sand			4490	4560	
Sd & Sh			4560	5070	
Haverty			5070	5100	
Sd & Sh			5100	5365	

See Attached Sheet For Log Tops

(Attach separate sheets as necessary)

CNG Development Company
 Well Operator
 By: [Signature]
 Date: July 23, 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 those encountered in the drilling of a well."



RECEIVED JUL 30 1984

State of West Virginia Department of Mines Oil and Gas Division

Date July 23, 1984 Operator's Well No. CNGD 1237 Farm Hugh R. Mitchell API No. 47 - 001 - 2043

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 / Underground Storage / Deep / Shallow x /) LOCATION: Elevation: 1348.23 Watershed Taylor Drain District: Pleasant County Barbour Quadrangle Philippi

COMPANY CNG Development Company ADDRESS P. O. Box 15746, Pittsburgh, PA 15275 DESIGNATED AGENT Gary A. Nicholas ADDRESS Rt. 2 Box 698, Bridgeport, WV 26330 SURFACE OWNER Richard L. Keene ADDRESS Rt. 3 Philippi, WV 26416 MINERAL RIGHTS OWNER H. R. Mitchell ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Phillip Forest Festival Terr. Tracy ADDRESS Apt. 24, Elkins, WV 26241 PERMIT ISSUED 5/25/84 DRILLING COMMENCED 6/12/84 DRILLING COMPLETED 6/18/84

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 1/2, and Liners used.

GEOLOGICAL TARGET FORMATION Haverty Depth 5225 feet Depth of completed well 5365 feet Rotary x / Cable Tools Water strata depth: Fresh 170 feet; Salt 265 feet Coal seam depths: 1600 feet Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Haverty Pay zone depth 5083 - 5103 feet Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow 256 Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure 1500 psig (surface measurement) after 7 hours shut in (If applicable due to multiple completion--)

(Continue on reverse side)

Bar 2043

CNGD Well No. 1237
H. R. Mitchell
Barbour County, WV
API No. 47-001-2043

ELECTRIC LOG TOPS

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>
345 Big Lime	1145	1247
365 Big Injun	1247	1360
395 Berea	1522	
Gantz		1646
50'	1654	1730
30'	1784	1810
419 Gordon Stray/Gordon	1855	1950
4th	1976	2065
5th	2076	2166
Warren	2506	2540
432 Speechley	2816	2852
Balltown	2924	3116
Bradford	3258	3372
434 Riley	3720	3943
435 Benson	4155	4176
4 Benson "F"	4190	4220
1st Elk	4362	4447
2nd Elk	4530	
437 Haverty	5080	5110

RECEIVED

JUL 30 1984

OIL & GAS DIVISION
DEPT. OF MINES

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

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JUN 12 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 001-2043

Oil or Gas Well _____
(KIND)

Company <u>C.N.G. Development</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer
Address _____	16			
Farm <u>Richard Heene</u>	13			
Well No. <u>418</u>	10			Size of _____
District <u>Sherrats</u> County <u>Barbour</u>	8 1/4			
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used _____			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES FEET _____ INCHES			
	_____ FEET _____ INCHES FEET _____ INCHES			

Drillers' Names _____

Remarks: Building location

6-4-84
DATE

Phillip L. Long & Russ Bell
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

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

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

INSPECTOR'S WELL REPORT

Permit No. 001-2043

Oil or Gas Well _____
(KIND)

Company <u>CNE Development</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Richard L. Keene</u>	16			
Well No. <u>418</u>	13			Size of _____
District <u>Pleasants</u> County <u>Barbour</u>	10			
Drilling commenced <u>6/7/84</u>	8 1/4	<u>16 1/4</u>	<u>16 1/4</u>	<u>400 (H)</u>
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names J & J Rig #21

Remarks:

6/8/84

DATE

Richard Keene 501
DISTRICT WELL INSPECTOR

**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

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

RECEIVED

JUN 13 1984

OIL & GAS DIVISION
INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 001-2043

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>CNG</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>Richard Richard Keene</u>	13			
Well No. <u>#418</u>	10			Size of _____
District <u>Pleasants</u> County <u>001</u>	<u>6 7/8</u>	<u>1641.35</u>	<u>1641.35</u> <u>(400-H)</u>	Depth set _____
Drilling commenced <u>6/6/84</u>	6 5/8			
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names S.W. JACK Rig # 21

Remarks: 6/10/84 - Bit stuck @ 1860
6/7 - 6/8 - 6/9 - 6/10

Between two houses,
very close - -

DATE

James H. Hall 501
DISTRICT WELL INSPECTOR

Form 26
2/16/82

RECEIVED
JUN 13 1984
OIL & GAS DIVISION

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

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

RECEIVED
JUN 14 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2043-12

Oil or Gas Well _____
(KIND)

Company <u>C.N.G.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Keene</u>	16			
Well No. <u>418</u>	13			Size of _____
District _____ County _____	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names JACK RIG #21

Remarks: Stuck @ 1860 - shot off 275' of
Drill Collars, Cemented to TOP - will
Skid Rig 10'

6/12/84

DATE

[Signature]
DISTRICT WELL INSPECTOR

**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

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

RECEIVED
JUN 13 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

001-
Permit No. 2043-R

Oil or Gas Well _____
(KIND)

Company CNG	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm Mitchell	16			Kind of Packer _____
Well No. #418	13			
District _____ County 001	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names S.W. JACIR Rig #21

Remarks: Started 2nd Hole -

6/13/84

DATE

Beall-501

DISTRICT WELL INSPECTOR

**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

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

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JUN 25 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2043

Oil or Gas Well _____
(KIND)

Company <u>C.N.C.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Mitchell</u>	16			Kind of Packer _____
Well No. <u>#418</u>	13			
District _____ County <u>001</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names JACIE #21

Remarks: Preparing to trace - (spring above well filling the drilling ponds - hauling water away and diverting flow from spring)

6/21/84
DATE

R.G. Bear
DISTRICT WELL INSPECTOR

Form 26
2/16/82

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Well No. _____

Permit No. _____

ADDRESS _____

COMPANY _____

DISTRICT _____

COUNTY _____

Filling Material Used _____

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

Drill

Rem

Drillers' Names _____

Remarks:

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

DISTRICT WELL INSPECTOR

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

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AUG 22 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well _____
(KIND)

Permit No. 001-2043-R

Company CNG -
 Address _____
 Farm Mitchell
 Well No. #418
 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 _____
8 1/4			
6 3/8			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

Cont
Drillers' Names GARY MILLER

Remarks: ROUGH GRADING done, pits filled.

8/20/84
DATE

RC Beader 501
DISTRICT WELL INSPECTOR

2/16/82

RECEIVED
AUG 3 1984

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Well No. _____

Permit 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 _____

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

RECEIVED
SEP 18 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-2043

Oil or Gas Well _____
(KIND)

Company <u>CNG</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer
Address _____	16			
Farm <u>Mitchell</u>	13			
Well No. <u>418</u>	10			Size of _____
District _____ County <u>001</u>	8 1/4			
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used _____			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Rough graded

9/14/84

DATE

R.G. Brace

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



RECEIVED
MAR 11 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
September 12, 1984

COMPANY CNG Development Company
P. O. Box 15746
Pittsburgh, Pennsylvania 15275

PERMIT NO 001-2043
FARM & WELL NO Richard Keene #1237
DIST. & COUNTY Pleasant/Barbour

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

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

SIGNED *Dan R. Elli*
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.

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

March 12, 1985

DATE

TMS/nw

SEP 27 1984

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: Aug. 24, 19 84

AGENCY USE ONLY

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

WELL DETERMINATION FILE NUMBER

840904-103-001-2043

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: [Signature]

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 Build

AGENCY USE ONLY

APPROVED

OCT -2 1984

Determination Date

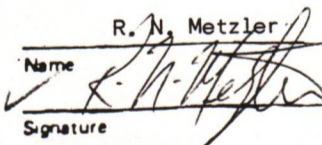
RECEIVED

SEP - 4 1984

OIL & GAS DIV.
DEPT. OF MINES

Date Received

**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 - 02043 -			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	102 Section of NGPA	4 Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5103 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.)	Pleasant 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.)	Hugh R. Mitchell			CNGD #1237
(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			Buyer Code
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated total annual production from the well:	9 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 3.797	_____	_____	_____
9.0 Person responsible for this application:	R. N. Metzler Name  Signature 10/03/84 Date Application is Completed			Manager Reserves Title 412-787-4092 Phone Number

Agency Use Only
Date Received by Juris. Agency
Date Received by FERC **OCT - 9 1984**

FERC-121 (8-82)

Are there any records not reasonably available to you which may contain information relevant to a determination of eligibility? Yes ___ No X. If yes, identify such records and indicate their location, if known:

WILLIAM H. WOODS
1234
1234

STATE OF MISSISSIPPI
DEPARTMENT OF MINES, OIL AND GAS DIVISION

WELL IDENTIFICATION FORM

WELL NUMBER: 123456
WELL SECTION (including category):

OPERATOR: GARY A. WOODS
WELL DEVELOPMENT COMPANY
C/O WOODS DEVELOPMENT
123456

WELL LOCATION: 123456
WELL DEPTH: 123456
WELL TYPE: 123456
WELL STATUS: 123456

WELL NAME: 123456
WELL TYPE: 123456
WELL STATUS: 123456

The well owner hereby certifies that the information furnished herein is true and correct to the best of his knowledge and belief.

WELL IDENTIFICATION NUMBER: 123456
WELL DEVELOPMENT COMPANY: 123456

All of the above reports were obtained from the following sources:

WELL IDENTIFICATION NUMBER: 123456
WELL DEVELOPMENT COMPANY: 123456

OCT 31 1984

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: October 3, 19 84

AGENCY USE ONLY

Applicant's Name: CNG Development Company

WELL DETERMINATION FILE NUMBER

Address: One Park Ridge Center

841009 -102 -001 - 2043

P.O. Box 15746

Pittsburgh, PA 15244

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

(Street or P.O. Box)

Crosswind Corporate Park

(City) (State) (Zip Code)

Route 2 Box 698

Bridgeport, WV 26330

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

Signature: (Print) R. N. Metzler

(Title)

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
- x 102-4 New Onshore Reservoir

108 Stripper Well Natural Gas

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

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 Geopressured Brine
- 107-2 Coal Seams
- 107-3 Devonian Shale
- 107-5 Production enhancement
- 107-6 New Tight Formation
- 107-7 Recompletion Tight Formation

AGENCY USE ONLY

*Qualified for
3rd etc only*

QUALIFIED

RECEIVED

OCT - 9 1984

OIL & GAS DIV.
DEPT. OF MINES

Date Received _____

Determination Date _____

Are you aware of any other information which would tend to be inconsistent with the information specified above?
Yes No . If yes, indicate the type and source of the information:

- 1) Was natural gas produced from the reservoir in commercial quantities prior to April 20, 1977? Yes
No .
- 2) Was the reservoir penetrated by an old well from which oil or gas was produced in commercial quantities from any other reservoir? Yes No .
- 3) If the answer to 2) is "yes," could natural gas have been produced in commercial quantities prior to April 20, 1977, from any old well so indicated? Yes No .
- 4) If the gas is to be produced through an old well, were suitable production and gathering facilities available on April 20, 1977? Yes No .
- 5) If the answer to 3) or 4) is "yes," attach a separate sheet explaining why you believe the well, for which determination is sought, can be qualified as a new onshore reservoir well and include any information which would support your conclusion.

AFFIDAVIT

I, R. N. Metzler, having been first sworn according to law, state that I have caused to be made a diligent search of those records hereinbefore indicated in the manner herein described, that the information contained in this document is true and accurate and that on the basis of the records and examinations hereinbefore described, and to the best of my information, knowledge and belief, the well for which this determination is sought is a well producing from a new onshore reservoir.

R. N. Metzler

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

I, Yvonne T. Green, a Notary Public in and for the state and county aforesaid, do certify that Robert N. Metzler, whose name is signed to the writing above, bearing date the 3rd day of October, 19 84, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 3rd day of October, 19 84.

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

[NOTARIAL SEAL]

Yvonne T. Green
Notary Public

* * * * *

BOTTOM HOLE PRESSURE DATA

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

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

BHP = 1,428#
BHP = P-1 + P-1 (e GL 53.34 T-1)

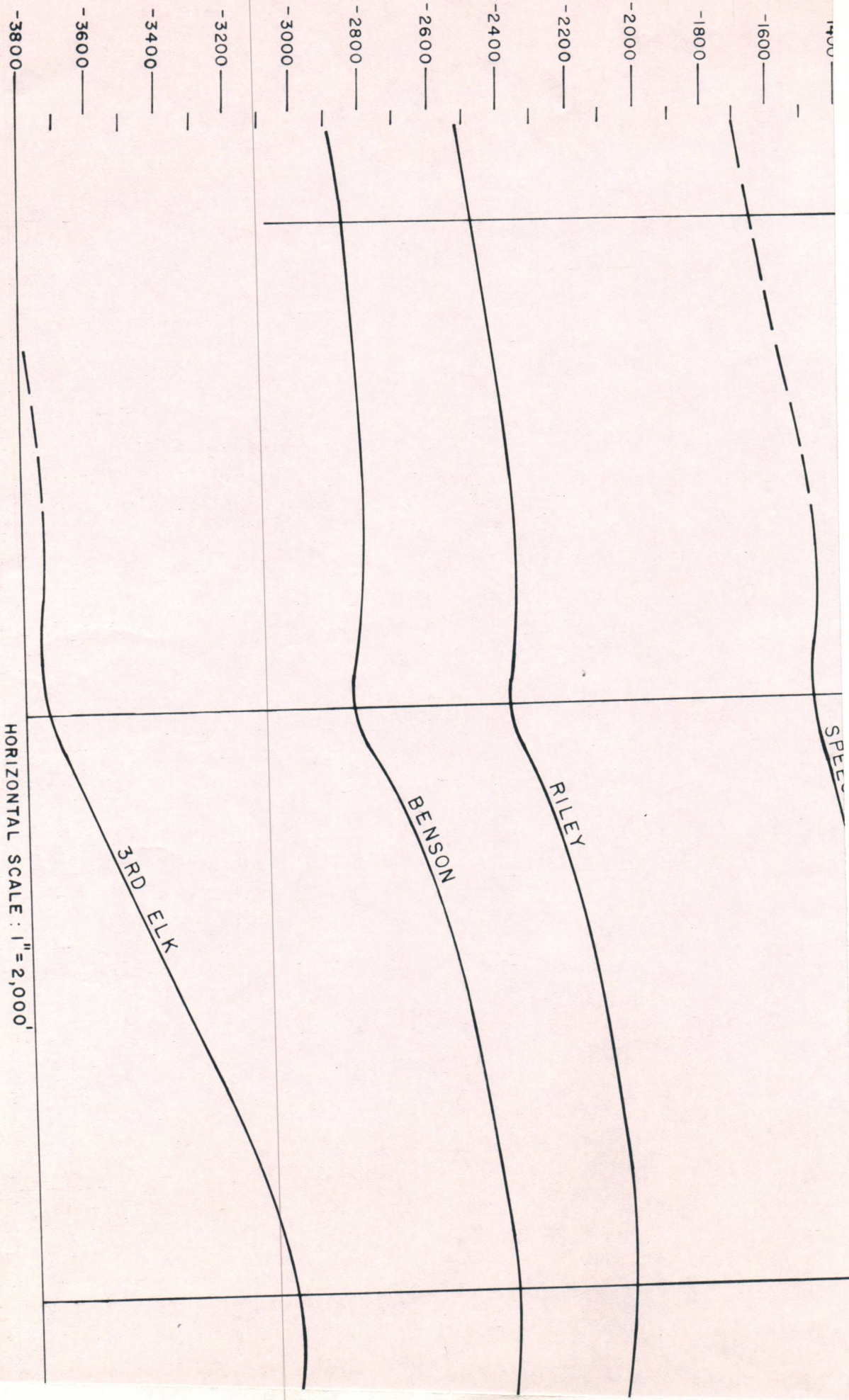
WELLS THAT ARE WITHIN A 2.5 MILE RADIUS OF 1237

PERMIT NO.	SPUD DATE	TD	DISTANCE FROM WELL (FT.)	COUNTY	STATE	OPERATOR	WELL ID
333	12/1966	4463	2875	BARBOUR	W VA	KIDD BARRON	00011
10998	/	4341	5719	BARBOUR	W VA	CONSOL GAS SUPPLY	00045
10968	04/1968	4254	3650	BARBOUR	W VA	CONSOL GAS SUPPLY	00048
10971	04/1968	4314	6279	BARBOUR	W VA	CONSOL GAS SUPPLY	00049
10847	08/1966	4471	11262	BARBOUR	W VA	CONSOL GAS SUPPLY	00056
	01/1964	4322	1441	BARBOUR	W VA	HOPE NAT GAS	00089
554	08/1970	4178	5286	BARBOUR	W VA	CONSOL GAS SUPPLY	04040
559	06/1971	3839	7177	BARBOUR	W VA	CONSOLIDATED GAS SU	04041
561	10/1971	3895	7132	BARBOUR	W VA	CONSOL GAS SUPPLY	04047
598	07/1972	4606	7494	BARBOUR	W VA	CONSOLIDATED GAS SU	04131
661	12/1973	3960	11474	BARBOUR	W VA	J & J ENTERPRISES	04198
672	06/1974	4661	12867	BARBOUR	W VA	CONSOL GAS SUPPLY	20672
685	10/1974	4190	8504	BARBOUR	W VA	CONSOL GAS SUPPLY	20685
686	10/1974	4437	7473	BARBOUR	W VA	CONSOLIDATED GAS SU	20686
	12/1974	4699	3742	BARBOUR	W VA	CONSOL GAS SUPPLY	20687
717	06/1974	4206	4034	BARBOUR	W VA	PATRICK PET	20717
723	07/1975	3872	11663	BARBOUR	W VA	PATRICK PET	20723
724	07/1975	2480	8793	BARBOUR	W VA	PATRICK PET	20724
724	09/1978	4400	8793	BARBOUR	W VA	PATRICK PET	20724
771	09/1976	4211	1913	BARBOUR	W VA	BERRY ENERGY	20771
	07/1976	4210	13148	BARBOUR	W VA	PETROLEUM DEVELOPME	20777
790	12/1976	4300	12875	BARBOUR	W VA	J & J ENTERPRISES	20790
798	10/1976	4012	8721	BARBOUR	W VA	CONSOL GAS SUPPLY	20798
800	12/1976	3890	6250	BARBOUR	W VA	ALLEGHENY LAND & MIN	20800
810	11/1976	4025	9168	BARBOUR	W VA	CONSOL GAS SUPPLY	20810
811	12/1976	3961	9441	BARBOUR	W VA	CONSOL GAS SUPPLY	20811
839	03/1977	4137	5467	BARBOUR	W VA	J & J ENTERPRISES	20839
852	04/1977	4233	11158	BARBOUR	W VA	ALLEGHENY LAND & MI	20852
862	06/1977	4227	9638	BARBOUR	W VA	ALLEGHENY LAND & MI	20862
872	09/1977	4518	12347	BARBOUR	W VA	J & J ENTERPRISES	20872
873	09/1977	4265	10163	BARBOUR	W VA	J & J ENTERPRISES	20873
887	09/1977	4465	9936	BARBOUR	W VA	J & J ENTERPRISES	20887
888	10/1977	4452	7594	BARBOUR	W VA	J & J ENTERPRISES	20888
897	09/1977	4383	3056	BARBOUR	W VA	CONSOL GAS SUPPLY	20897
904	10/1977	4316	4980	BARBOUR	W VA	OIL DISCOVERIES	20904
907	06/1978	4321	7371	BARBOUR	W VA	OIL DISCOVERIES	20907
946	02/1978	4332	1871	BARBOUR	W VA	CONSOL GAS SUPPLY	20946
956	06/1978	4353	1056	BARBOUR	W VA	CONSOL GAS SUPPLY	20956
967	06/1978	4559	11455	BARBOUR	W VA	CONSOL GAS SUPPLY	20967
974	08/1978	4383	10616	BARBOUR	W VA	J & J ENTERPRISES	20974
1021	07/1978	4385	6552	BARBOUR	W VA	PET DEVELOPMENT	21021
1024	10/1978	4509	10854	BARBOUR	W VA	PET DEVELOPMENT	21024
1025	09/1978	4367	8446	BARBOUR	W VA	PET DEVELOPMENT	21025
1029	02/1979	3920	11106	BARBOUR	W VA	J & J ENTERPRISES	21029
1032	08/1978	4594	11337	BARBOUR	W VA	PET DEVELOPMENT	21032
1041	09/1978	4579	10706	BARBOUR	W VA	PET DEVELOPMENT	21041
1042	09/1978	4675	7217	BARBOUR	W VA	PET DEVELOPMENT	21042
1045	09/1978	4516	8439	BARBOUR	W VA	PET DEVELOPMENT	21045
1053	02/1979	3969	10764	BARBOUR	W VA	J & J ENTERPRISES	21053
1054	09/1978	4635	12784	BARBOUR	W VA	PET DEVELOPMENT	21054

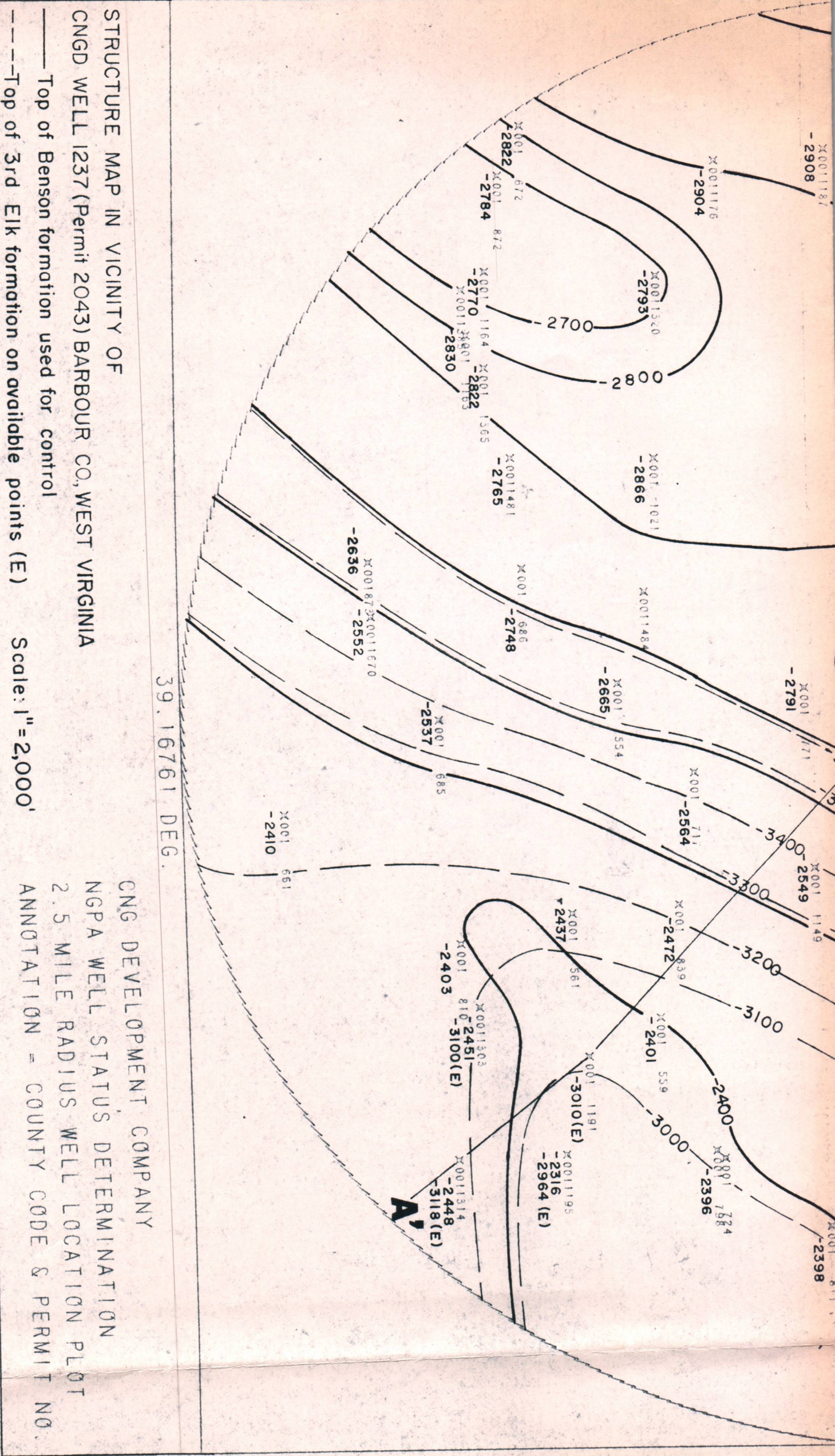
WELLS THAT ARE WITHIN A 2.5 MILE RADIUS OF 1237 (CONT.)

PERMIT NO.	SPUD DATE	TD	DISTANCE FROM WELL (FT.)	COUNTY	STATE	OPERATOR	WELL ID
1128	04/1979	4248	11478	BARBOUR	W VA	PET DEVELOPMENT	21128
1140	05/1979	1051	4559	BARBOUR	W VA	PETROLEUM DEV	21140
1149	06/1979	4255	3341	BARBOUR	W VA	J & J ENTERPRISES	21149
1156	05/1979	4559	12342	BARBOUR	W VA	UNION DRLG	21156
1159	05/1979	4434	4463	BARBOUR	W VA	PET DEVELOPMENT	21159
1163	06/1979	4566	10585	BARBOUR	W VA	MAYLE JAMES	21163
1164	06/1979	4444	11148	BARBOUR	W VA	MAYLE JAMES	21164
1176	08/1979	4578	10755	BARBOUR	W VA	PETROLEUM DEV	21176
1182	11/1979	5369	12921	BARBOUR	W VA	J & J ENTERPRISES	21182
1183	11/1979	4959	10965	BARBOUR	W VA	J & J ENTERPRISES	21183
1186	09/1979	4519	12934	BARBOUR	W VA	PETROLEUM DEV	21186
1187	09/1979	4420	10507	BARBOUR	W VA	PETROLEUM DEV	21187
1191	09/1979	5267	8566	BARBOUR	W VA	PETROLEUM DEV	21191
1195	10/1979	5483	10185	BARBOUR	W VA	PETROLEUM DEV	21195
1303	04/1980	5017	9475	BARBOUR	W VA	PETROLEUM DEV	21303
1314	04/1980	4887	11555	BARBOUR	W VA	PETROLEUM DEV	21314
1320	05/1980	4484	9242	BARBOUR	W VA	UNION DRLG	21320
1365	10/1980	4518	9945	BARBOUR	W VA	J & J ENTERPRISES	21365
1385	10/1980	4518	11206	BARBOUR	W VA	MAYLE JAMES	21385
1441	01/1981	5282	11803	BARBOUR	W VA	STALNAKER GENE	21441
1457	01/1981	5083	11762	BARBOUR	W VA	STONEMALL GAS	21457
1481	03/1981	4480	8583	BARBOUR	W VA	UNION DRLG	21481
1484	02/1981	5402	5257	BARBOUR	W VA	STONEMALL GAS	21484
1670	01/1982	5398	9890	BARBOUR	W VA	J & J ENTERPRISES	21670
1673	01/1982	5295	12671	BARBOUR	W VA	J & J ENTERPRISES	21673
82	12/1966	4275	4746	TAYLOR	W VA	FEDERAL O&G	00007

CHOPR SECTION A-2, FROM STRUCTURAL
CIVIL DEVELOPMENT COMPANY



HORIZONTAL SCALE: 1" = 2,000'

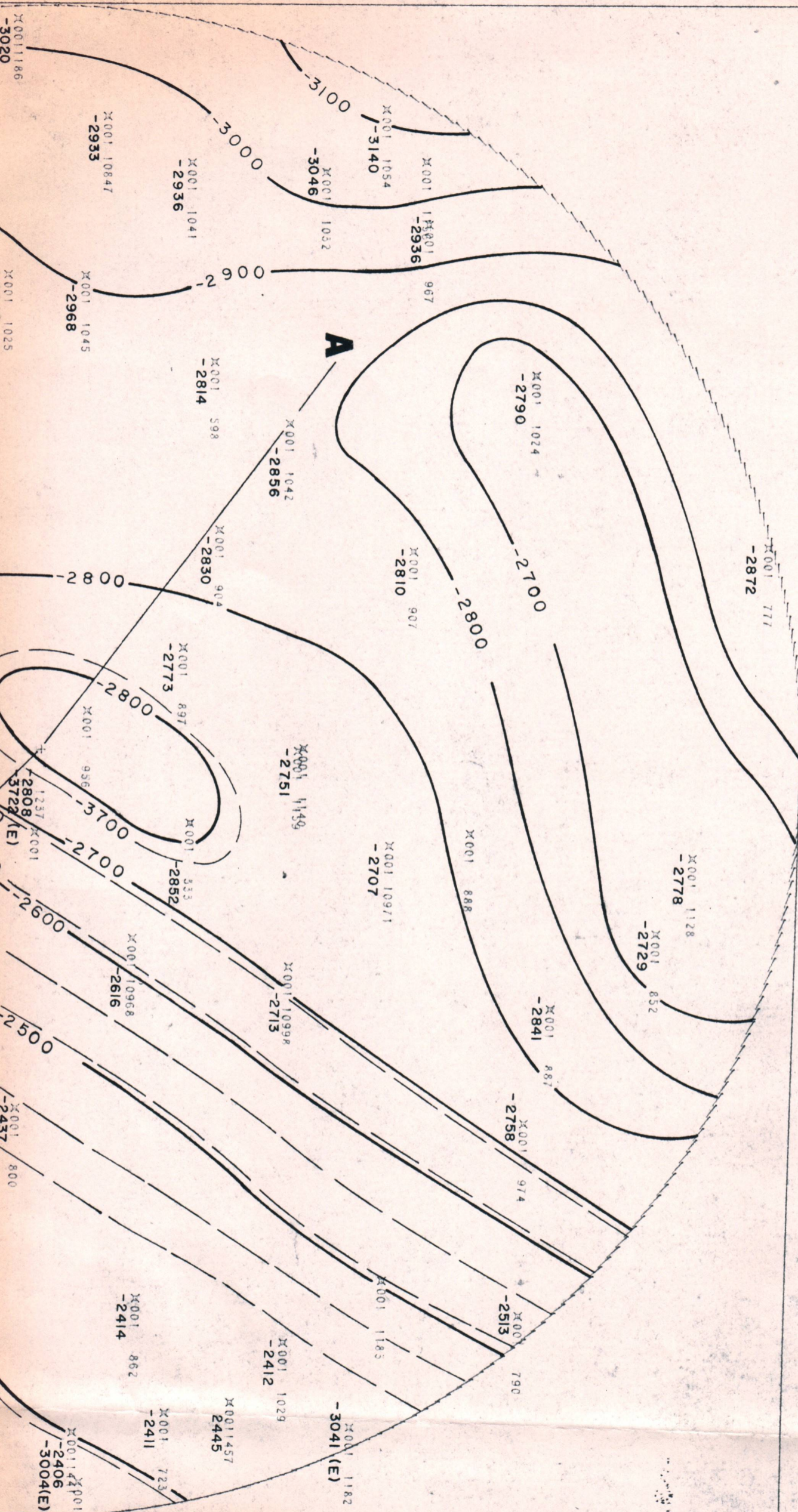


STRUCTURE MAP IN VICINITY OF
 CNGD WELL 1237 (Permit 2043) BARBOUR CO., WEST VIRGINIA

Scale: 1" = 2,000'

CNG DEVELOPMENT COMPANY
 NGPA WELL STATUS DETERMINATION
 2.5 MILE RADIUS WELL LOCATION PLOT
 ANNOTATION = COUNTY CODE & PERMIT NO.

0.08518 DEG.



39.24047 DEG.

9920 DEG.

Pricing Calculation for Well

Formation	Sg Ft/Ac in M	Acreage Factor	Pay Thickness	Porosity	Gas Saturation	Pressure Factor	Recovery Factor	% of Production
WARREN	= 43.56	X 40	X 3	X .09	X .63	X $\frac{1500-50}{14.73}$	X .85	= 24,799
SPEECHLEY	= 43.56	X 40	X 15	X .08	X .65	X 98.44	X .85	= 113,719
RILEY	= 43.56	X 40	X 4	X .06	X .57	X 98.44	X .85	= 19,945
RILEY	= 43.56	X 40	X 3	X .08	X .53	X 98.44	X .85	= 18,545
RILEY	= 43.56	X 40	X 3	X .06	X .42	X 98.44	X .85	= 11,022
3 RD ELK	= 43.56	X 40	X 2	X .06	X .50	X 98.44	X .85	= 8,748
3 RD ELK	= 43.56	X 40	X 5	X .04	X .20	X 98.44	X .85	= 5,832
	= 43.56	X	X	X	X	X	X .85	=

NGPA
103
939

NGPA
1024
79

202,610



CNG DEVELOPMENT COMPANY
ONE PARK RIDGE CENTER • P.O. BOX 15746 • PITTSBURGH, PENNSYLVANIA 15244 • (412) 787-3550

October 3, 1984

RECEIVED
OCT -9 1984

OIL & GAS DIV.
DEPT. OF MINES

Lonnie Carpenter
Office of Oil & Gas
Charleston, WV 25311

Dear Mr. Carpenter:

According to our records the twenty-nine marker wells within 2½ mile radius of CNG Development Company Well #1237 (permit # 2043), Barbour County, WV did not produce gas from the 3rd Elk formation. Therefore, 7% of the total commingled production assigned to the 3rd Elk formation in well #1237 should qualify for NGPA Section 102, category 4 (New Reservoir) pricing.

Please call if you need additional information.

Respectfully submitted,

Robert N. Metzler
Manager Reserves

RNM/col

TABULATION OF MARKER WELLS indicate that TOTAL depth of ALL does NOT penetrate 3rd ELK formation at 5083'. Therefore should qualify as Section 102-4.

10950'

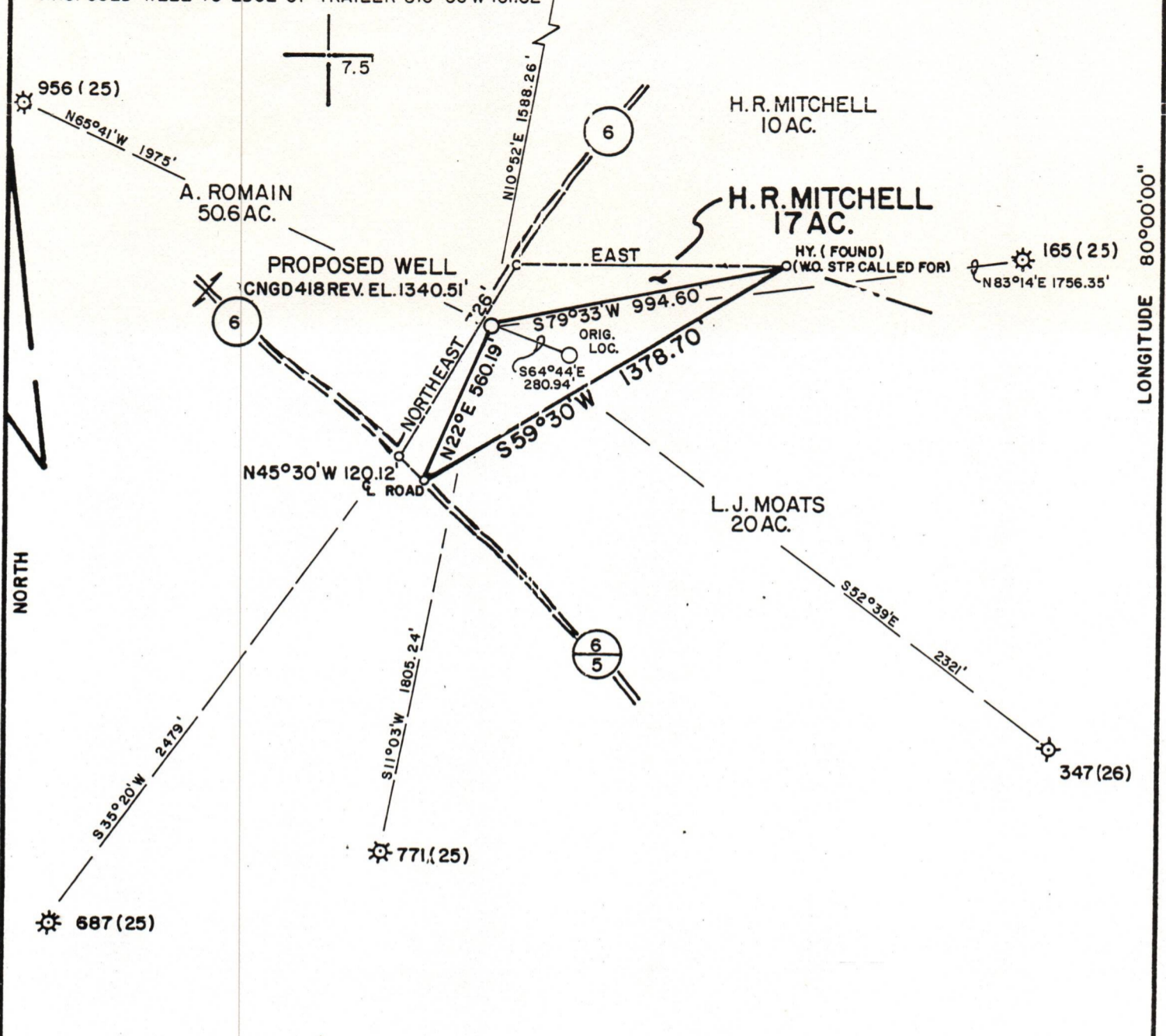
REFERENCE TIE LINES

PROPOSED WELL TO EDGE OF HOUSE N17°14'E 138.66'
PROPOSED WELL TO EDGE OF TRAILER S16°36'W 161.02'

PROPOSED WELL
CNGD 412

LATITUDE 39°12'30"

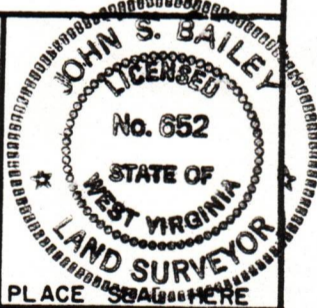
LONGITUDE 80°00'00"



PREPARED BY MSES CONSULTANTS

FILE NO. MSES 84-310
 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



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



Department of Mines
 Oil & Gas Division

DATE FEBRUARY 23, 19 84
 OPERATOR'S WELL NO. CNGD 418 REV.
 API WELL NO. 47 - 001 - 2043-REV.
 STATE COUNTY PERMIT

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X)
 LOCATION: ELEVATION 1340.51' WATE SHED _____ TAYLOR DRAIN _____
 DISTRICT PLEASANT COUNTY BARBOUR
 QUADRANGLE PHILIPPI
 SURFACE OWNER RICHARD L. KEEN ET UX ACREAGE 16.4
 OIL & GAS ROYALTY OWNER H.R. MITCHELL LEASE ACREAGE 126
 LEASE NO. 70639
 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 BENSON ESTIMATED DEPTH 4400'
 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