

FILE COPY
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FEB 15 1985

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



1) Date: January 30, 19 85
 2) Operator's Well No. 1278
 3) API Well No. 47 - 033 - 3170
 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: 1223 Watershed: Two Lick Creek
 District: Union County: Harrison Quadrangle: Big Isaac
- 6) WELL OPERATOR CNG Development Company 7) DESIGNATED AGENT Gary Nicholas
 Address c/o Paul W. 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 Stephen Casey Name Sam Jack Drilling Co.
 Address Rt. 2, Box 232-D Address P.O. Box 48
Jane Lew, WV 26378 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, 5250 feet
 13) Approximate strata depths: Fresh, - feet; salt, - feet.
 14) Approximate coal seam depths: - Is coal being mined in the area? Yes / No
- 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>1-3/4</u>	<u>H-40</u>	<u>42</u>	<input checked="" type="checkbox"/>		<u>40</u>	<u>40</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>	<input checked="" type="checkbox"/>		<u>1350</u>	<u>1350</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>	<input checked="" type="checkbox"/>		<u>5250</u>	<u>5250</u>	<u>200-400</u>	Depths set
Tubing	<u>1-1/2</u>	<u>CN-55</u>	<u>2.75</u>	<input checked="" type="checkbox"/>					<u>By Rule 15.01</u>
Liners									Perforations:
									Top Bottom

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-033-3170 Date March 12, 19 85

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 March 11, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>28</u>	<u>MH</u>	<u>MH</u>	<u>MD</u>	<u>6099</u>

Margaret J. Dasu
 Administrator, Office of Oil and Gas



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OIL & GAS DIV.
DEPT. OF MINES

OFFICE USE ONLY

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

1. WELL OPERATOR: CNG Development Company
 2. ADDRESS: c/o Paul W. Gatter, P.O. Box 15246, Pittsburgh, PA 15244
 3. NAME: Stephen Gatter
 4. ADDRESS: Rt. 2, Box 289-B, Buckhannon, WV 26201
 5. PROPOSED WELL WORK: [Blank]
 6. PERMIT MODIFICATIONS AND CONDITIONS (IF ANY): [Blank]

DATE	DESCRIPTION	BY	INITIALS
1-27-85	To Surface	By Rule 15.05	
2-5-85	To Surface	By Rule 15.05	

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: _____



1) Date: January 30, 19 85
 2) Operator's Well No. 1278
 3) API Well No. 47 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1223 Watershed: Two Lick Creek
 District: Union County: Harrison Quadrangle: Big Isaac
- 6) WELL OPERATOR CNG Development Company 7) DESIGNATED AGENT Gary Nicholas
 Address c/o Paul W. 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:
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 Address Rt. 2, Box 232-D Address P.O. Box 48
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- 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, Alexander
 12) Estimated depth of completed well, 5250 feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____

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>1-3/4</u>	<u>H-40</u>	<u>42</u>	<u>X</u>		<u>40</u>			By Rule 15.05
Coal									Sizes
Intermediate	<u>8-5/8</u>	<u>X-42</u>	<u>23</u>	<u>X</u>		<u>1350</u>	<u>1350</u>		By Rule 15.05
Production	<u>4-1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>X</u>		<u>5250</u>	<u>5250</u>		Depths set
Tubing	<u>1-1/2</u>	<u>CN-55</u>	<u>2.75</u>	<u>X</u>					By Rule 15.01
Liners									Perforations:
									Top Bottom

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 X / 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: Jan 31, 19 85

By Michael A. Eddy
 Its Manager of Properties
Eastern Associated Coal Corp.

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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book	Page
Mary Thash et al	Consolidated Gas Supply	1/8	1062	354

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OFFICE OF OIL & GAS DIV.



1) Date: January 30, 19 85
2) Operator's Well No. 1278
3) API Well No. 47-033-3170
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 Shelton J. Workman
Address Rt. 1
Lost Creek, Wv 26385
- (ii) Name Kent Wyne
Address Rt. 2
Jane Lew, WV 26378
- (iii) Name Selma W. Randolph
Address Rt. 5, Davisson Run
Clarksburg, WV 26301

5(i) COAL OPERATOR
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD
Name See Attached Sheet
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
Paul W. Garrett

this 28 day of January, 19 85
My commission expires 5/25, 19 87

Yvonne T. Green
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

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

OIL & GAS DIV.
DEPT. OF MINES

JAN 15 1985

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CNGD Well No. 1278
Mary Thrash
Harrison County, WV

COAL OWNERS

SEAMS

Eastern Associated Coal
c/o Michael D. Eddy, Jr.
One PPG Place
Pittsburgh, PA 15222

All Except Waynesburg Seam

Shelton J. Workman
Rt. 1
Lost Creek, WV 26385

Waynesburg Seam

Kent Wyne
Rt. 2
Jane Lew, WV 26378

Waynesburg Seam

Selma W. Randolph
Rt. 5, Davisson Run
Clarksburg, WV 26301

Waynesburg Seam

RECEIVED
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OIL & GAS DIV.
DEPT. OF MINES

**APPLICATION
WV General NPDES Permit for Oil & Gas
Drilling PIE Waste Discharge**

Permit No. _____
033-3170

Harrison

1) **APPLICATION (To Be Completed By Company)**

- Company Name J & J Enterprises
Mailing Address P.O. Box 48, Buckhannon, W.V.
Telephone 472-9403 Well Name CNG1278
- Name of stream that may be discharged to: _____
A tributary of: _____
- Treatment and method of pit disposal most likely to be utilized (method not necessarily restricted to this):
land application Harrison Co.
- Name of person supervising discharge: Charles T. Krushansky
Telephone 291-5960 Date Approved _____

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JUN 27 1985

OIL & GAS DIVISION
DEPT. OF MINES

Charles T. Krushansky 5-20-85
Signature Date

2) **NOTIFICATION (To Be Completed By DWR)**

- Initial Company contact: (Approximately 7 days prior to discharge)
Date 5-28-85 Individual V. Leon
Proposed discharge date 5-30-85
Type of disposal method selected LAND APP
Volume of waste 100,000 Discharge rate 100 GPM CFS
Time projected for discharge 2 DAYS DAYS
Receiving Stream flow rate N/A CFS
Objection _____ No Objection
- Final Company contact: (48 hours required notice)
Date 5-28-85 Individual V. Leon
Final discharge date 5-30-85
Objection _____ No Objection

INSPECTION (To Be Completed By DWR)

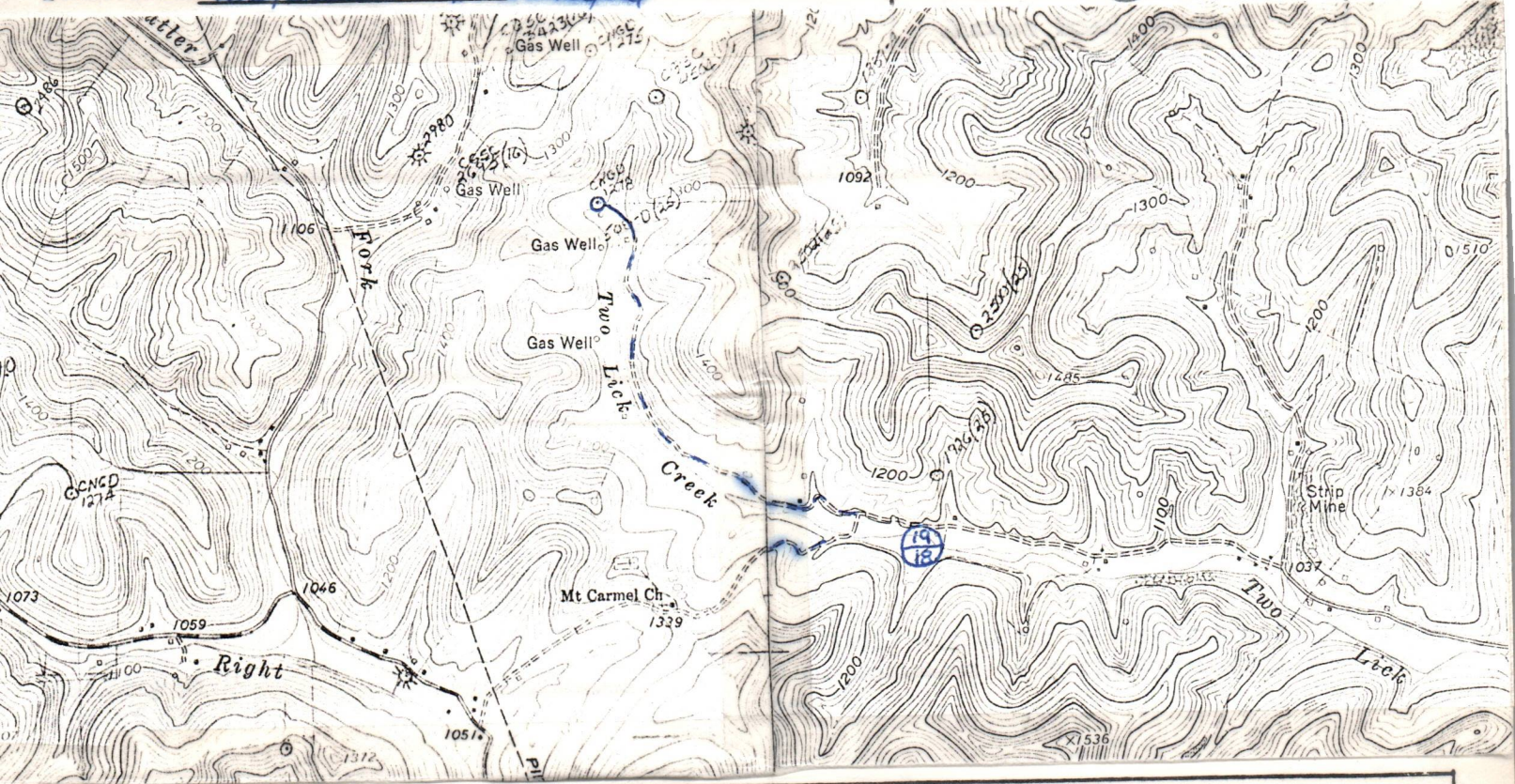
- 208 Practices - Acceptable Not Acceptable _____
Comments: _____
- Compliance with general permit interim guidelines: Acceptable Not Acceptable _____
Comments: _____
- Division of Water Resources Action Taken: _____
Action Recommended: _____
- Parameters (Prior to discharge (if any) at discharge):
pH 10.0 Total Pb _____ TOC _____
Chloride _____ TSS _____ Conductivity _____
Total Fe 5.0 Total Cu _____
5-29-85

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

QUADRANGLE *Big Lake + West Millad*

LEGEND

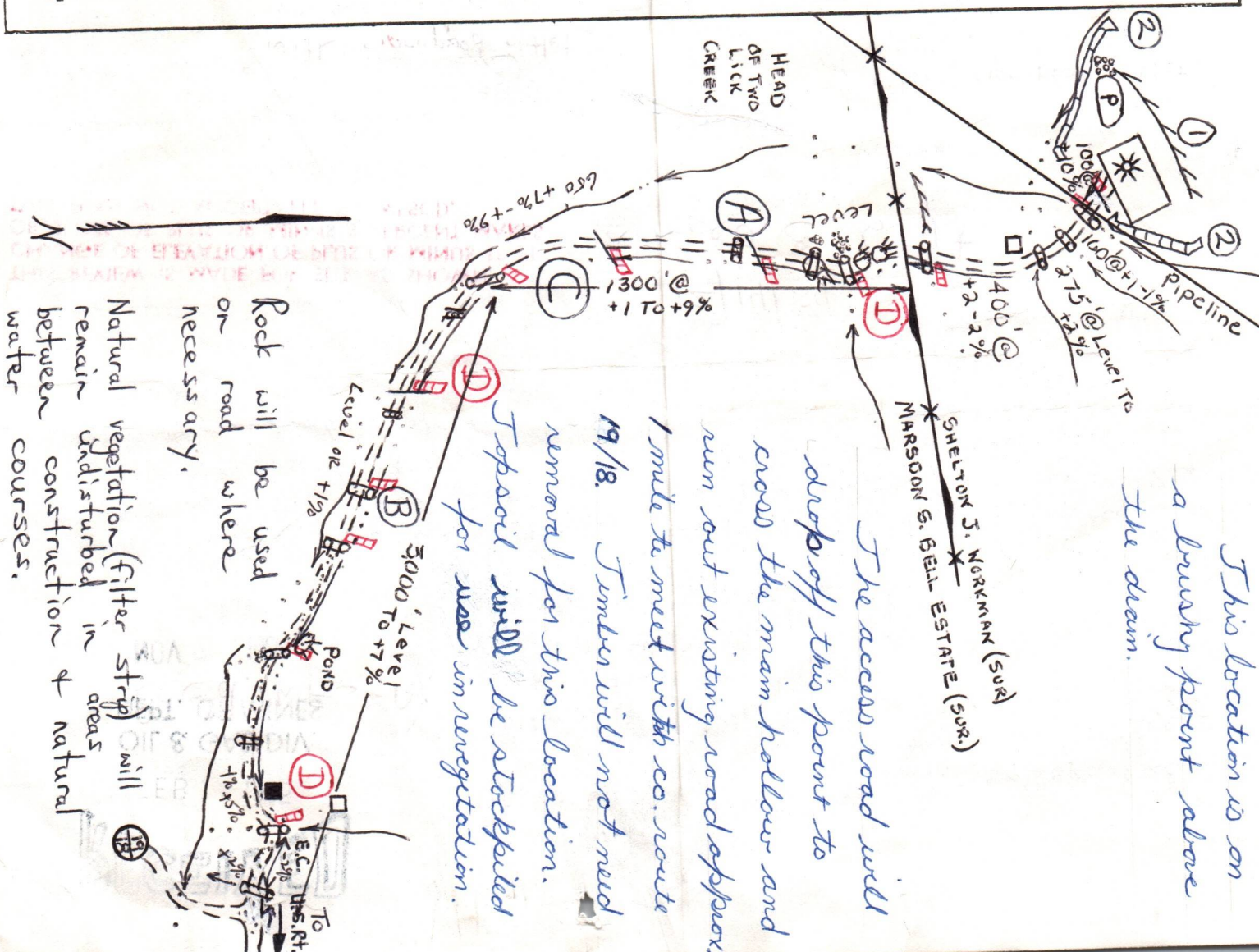
Well Site ⊕



LEGEND

- Property boundary ————
- Road = = = = =
- Existing fence — x — x —
- Planned fence — / — / —
- Stream ~ ~ ~ ~ ~
- Open ditch — ···· — ···· —

- Diversion ————
- Spring ⊕
- Wet spot ⊕
- Building ■
- Drain pipe — ○ — ○ —
- Waterway ————



Natural vegetation (filter strip) will remain undisturbed in areas between construction & natural water courses.

Rock will be used on road where necessary.

This location is on a brushy point above the stream.

The access road will drop off this point to cross the main hollow and run out existing road approx. 1 mile to meet with so. route 19/18. Timber will not need removal for this location.

Topsoil will be stockpiled for use in revegetation.

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

- 1. Show to whom, date and address of delivery.
- 2. Restricted Delivery.

3. Article Addressed to:
*Mrs. Selma Sh. Randolph
 Rt 5, Harrison Run
 Clarksburg, WV 26301*

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	<i>P580639048</i>

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
 X *Selma Sh. Randolph*

6. Signature - Agent
 X

7. Date of Delivery
FEB 12 1985

8. Addressee's Address (ONLY if requested and fee paid)

CARRIED 1978

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

SENDER: Complete items 1, 2, 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

- 1. Show to whom, date and address of delivery.
- 2. Restricted Delivery.

3. Article Addressed to:
*Mr. Shelton J. Shorman
 Rt 1
 Lost Creek, WV 26385*

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	<i>P580639036</i>

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
 X

6. Signature - Agent
 X *Shelton J. Shorman*

7. Date of Delivery
2/11/85

8. Addressee's Address (ONLY if requested and fee paid)

CARRIED 1978

DOMESTIC RETURN RECEIPT

PS Form 3811, July 1983 447-845

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- 1. Show to whom, date and address of delivery.
- 2. Restricted Delivery.

3. Article Addressed to:
*Mr. Kent Thyme
 P.O. # 199
 Janeau, WV 26378*

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	<i>P580639047</i>

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
 X *Kent Thyme*

6. Signature - Agent
 X

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

CARRIED 1978

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- 1. Show to whom, date and address of delivery.
- 2. Restricted Delivery.

3. Article Addressed to:
*Eastern Associated Coal
 c/o Michael R. Eddy, Jr.
 One PPK Place
 Pittsburgh, Pa 15222*

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail	<i>P580639039</i>

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature - Addressee
 X *Donna*

6. Signature - Agent
 X

7. Date of Delivery
JAN 27 1985

8. Addressee's Address (ONLY if requested and fee paid)

CARRIED 1978

DOMESTIC RETURN RECEIPT



1871

1871

1871

1871

1871

1871

1871

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

Superior Wireline Perforated Alexander 5020-5030; 10 holes .39
 Benson 4672 - 4678; 10 holes .39
 Balltown & Speechley 3341 - 3610; 11 holes .39
 Halliburton 75Q Foam Frac Alexander - Break 2800, 4 pumps, Avg Rate (BPM) 16,
 Avg Pres. (psi) 3350, 750 gal 15% HCL, 40,000# 20/40 Sand, Max. Conc. (#/gal) 3,
 Total Fluid (BBL) 517, ISIP (w/foam) 2800, Total Nitrogen (SCF) 560,000.
 Benson - Break 2800, 4 pumps, Avg Rate (BPM) 16, Avg Pres (psi) 3100, 750 BBL 15% HCL,
 55,000# 20/40 Sand, Max Conc (#/gal) 3, Total Fluid (BBL) 620, ISIP (psi) 2500 w/foam
 Total Nitrogen (SCF) 620,000
 Balltown & Speechley - Break 2500, 4 pumps, Avg Rate (BPM) 20, Avg psi 2600, 750 gal 15% HCL
 50,000# 20/40 Sand, Max Conc (#/gal) 3, Total Fluid (BBL) 640, ISIP (w/water) 1400,
 5 min 1300, Total Nitrogen (SCF) 480,000

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay & Shale			0	15	
Sand, Shale & RR			15	1715	
L. Lime			1715	1735	
Shale			1735	1755	
B. Lime			1755	1860	
Injun			1860	1890	
Sand, Shale & RR			1890	5250	
<u>LOG TOPS</u>					
B. Lime/B. Injun			1758	1923	
Gantz			2114	2172	
Gord. Stray/Gordon			2326	2458	
4th			2473	2493	
5th/L. 5th			2636	2696	
U. Speechley/Speechley			3207	3352	
Balltown			3464	3614	
Bradford			4000	4154	
Riley			4346	4578	
Benson			4667	4682	
Alexander			4988	5116	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY

Well Operator

By: Gary A. [Signature]

Date: May 24, 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)

RECEIVED
JUN 13 1985

State of West Virginia
Department of Mines
Oil and Gas Division

Date May 24, 1985
Operator's
Well No. CNGD WN 1278
Farm Thrash
API No. 47 - 033 - 3170

OIL & GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1223 Watershed Two Lick Creek
District: Union County Harrison Quadrangle Big Isaac

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 Shelton J. Workman

ADDRESS Route 1
Lost Creek, WV 26385

MINERAL RIGHTS OWNER Mary Thrash, heirs

ADDRESS 612 Milford Street
Clarksburg, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK

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

PERMIT ISSUED March 12, 1985

DRILLING COMMENCED April 29, 1985

DRILLING COMPLETED May 3, 1985

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1351	1351	To Surf
7			
5 1/2			
4 1/2	5237	5237	510-50/50
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5250 feet

Depth of completed well 5250 feet Rotary x / Cable Tools

Water strata depth: Fresh 50 feet; Salt feet

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

OPEN FLOW DATA
Producing formation Alexander Benson Balltown & Speechley Pay zone depth 5020 - 5030
4672 - 4678
3341 - 3610 feet

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

Final open flow 539 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1200 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)

HARRISON 3170

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

RECEIVED

MAY 1 - 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 33-3170

Oil or Gas Well _____
(KIND)

Company	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
<u>C N G Devel.</u>	Size			
Address _____	16			Kind of Packer _____
Farm <u>S. Workman</u>	13			
Well No. <u>1278</u>	10			Size of _____
District <u>Union</u> County <u>Harr.</u>	8 1/4			
Drilling commenced <u>4-26-85</u>	6 3/8			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 SWJ 15

Remarks:

4-26-85
DATE

Steve Casey
DISTRICT WELL INSPECTOR

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

RECEIVED

MAY 3 - 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 33-3170

Oil or Gas Well _____
(KIND)

Company C. N. G. Devel.

Address _____

Farm Woshman

Well No. 1278

District Union County Harr.

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 50 feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT Surface FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names SWJ 15

Remarks: 8 5/8 1351' 325 st. Halliburton

4-30-85
DATE

Steve Casey
DISTRICT WELL INSPECTOR

18-Jun-85

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: WORKMAN, SHELTON, ETAL Well: 1278

Permit No. 47- 33-3170 (3-12-85)
County: HARRISON

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	-----	-----
25.04	Prepared before drilling to prevent waste	-----	-----
25.03	High pressure drilling	-----	-----
16.01	Required permits at wellsite	-----	-----
15.03	Adequate Fresh Water 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	-----	-----
1/	Well Records on Site	-----	-----
1/	Well Records Filed	-----	-----
7.05	Identification Markings	-----	-----

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

SIGNED Steve Cassey
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. B.
Administrator

October 3, 1985
Date

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

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 033 - 03170 -						
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	RECEIVED Category Code					
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5,030 feet	JUN 24 1985 OIL & GAS DIV. DEPT. OF MINES					
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		Seller Code				
	Pittsburgh Street	PA State	15244 Zip Code				
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Union District Field Name						
	Harrison County	WV 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.)	Thrash		CNGD #1278				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)							
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Undetermined Name Buyer Code						
(b) Date of the contract:	Mo. Day Yr.						
(c) Estimated total annual production from the well:	20 Million Cubic Feet						
		(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]			
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	3.498	-----	-----			
9.0 Person responsible for this application:	R. N. Metzler Name Manager Reserves <i>R. N. Metzler</i> Signature Title 6/19/85 Date Application is Completed 412-787-4092 Phone Number						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Agency Use Only</td> </tr> <tr> <td style="text-align: center;">Date Received by Juris. Agency JUN 24 1985</td> </tr> <tr> <td style="text-align: center;">Date Received by FERC</td> </tr> </table>					Agency Use Only	Date Received by Juris. Agency JUN 24 1985	Date Received by FERC
Agency Use Only							
Date Received by Juris. Agency JUN 24 1985							
Date Received by FERC							

JUL 15 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: June 19, 1985

10110

AGENCY USE ONLY

Applicant's Name: CNG Development Company

WELL DETERMINATION FILE NUMBER

Address: One Park Ridge Center
P.O. Box 15746
Pittsburgh, PA 15244
Attn: Carl G. Mourovic

850624-1030-033-3170

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

P 629

Designated Agent: Gary A. Nicholas
CNG Development Company
Address: 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
(Print)

Manager of Reserves
(Title)

Signature: [Signature]

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

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

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

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

- 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
- x 103 New Onshore Production Well

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

AGENCY USE ONLY

RECEIVED

JUN 24 1985

OIL & GAS DIV.
DEPT. OF MINES

QUALIFIED

Date Received

Determination Date

[NOTARIAL SEAL]

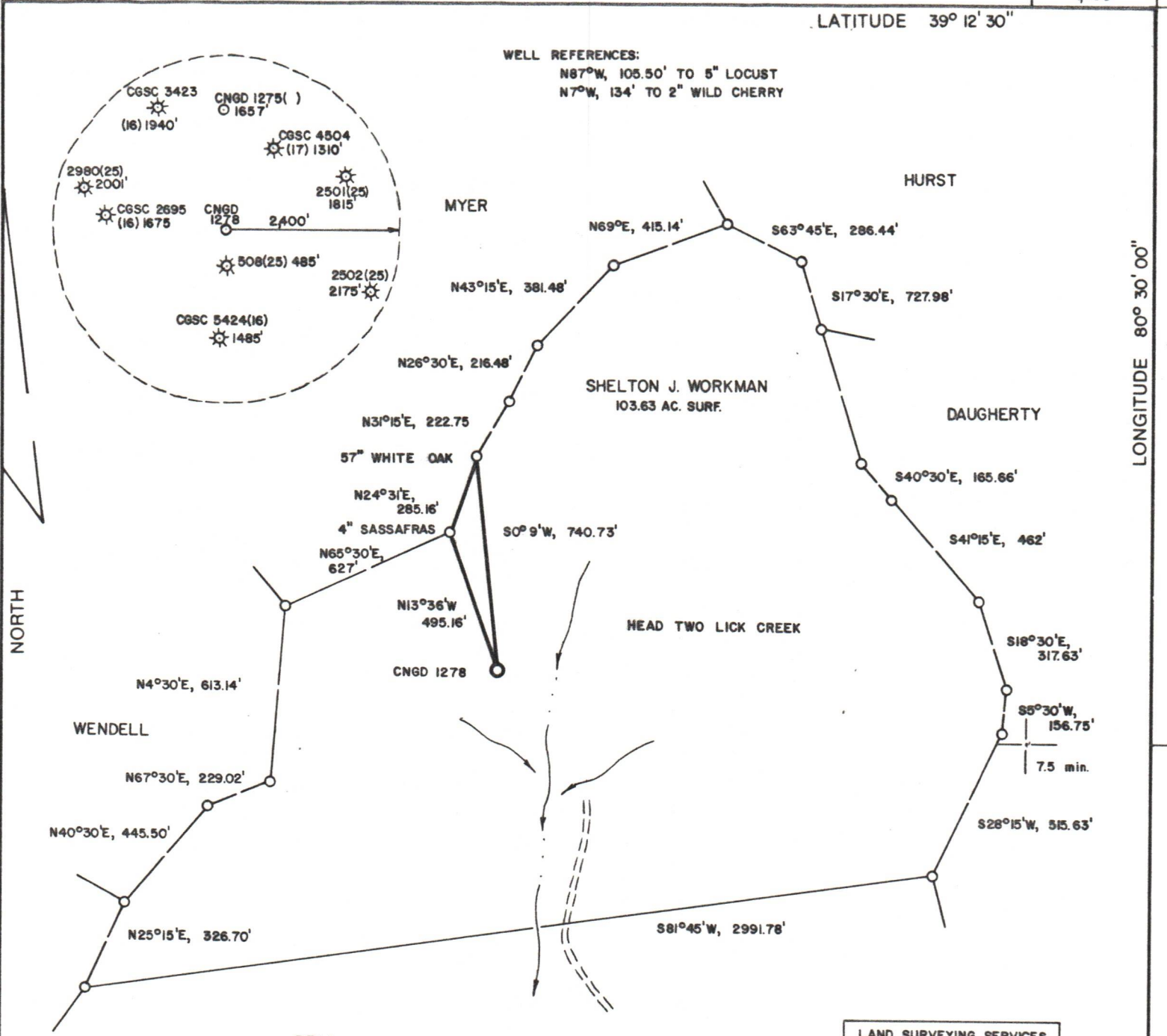
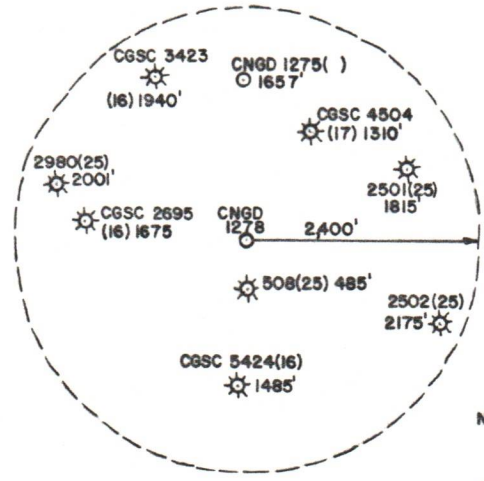
Notary Public

MTN 3-11-85

1,750

LATITUDE 39° 12' 30"

WELL REFERENCES:
 N87°W, 105.50' TO 5" LOCUST
 N7°W, 134' TO 2" WILD CHERRY

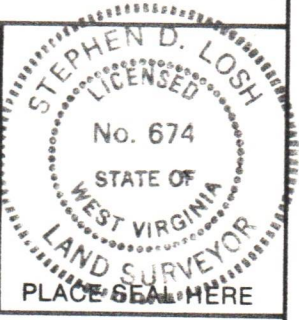


LAND SURVEYING SERVICES
 1412 NORTH 18 TH ST.
 CLARKSBURG, WV 26301
 PHONE: 304-623-1214

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION TOP KNOB 3375' NW OF LOCATION ELEVATION 1423'

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. NO. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE NOVEMBER 10, 19 84
 OPERATOR'S WELL NO. CNGD 1278
 API WELL NO. 47-033-3170
 STATE 47 COUNTY 033 PERMIT 3170

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

LOCATION: ELEVATION 1223' WATER SHED TWO LICK CREEK
 DISTRICT _____ UNION _____ COUNTY HARRISON
 QUADRANGLE BIG ISAAC 7.5 min.

SURFACE OWNER SHELTON J. WORKMAN ACREAGE 103.63
 OIL & GAS ROYALTY OWNER MARY THRASH, HEIRS LEASE ACREAGE 107.
 LEASE NO. 91360

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 ALEXANDER ESTIMATED DEPTH 5250'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS 1 PARK RIDGE CENTER ADDRESS ROUTE 2, BOX 698
PITTSBURGH, PA. 15244 BRIDGEPORT, WV 26330

COUNTY NAME
 PERMIT

209 1/3/84