



1) Date: April 1, 19 85  
 2) Operator's Well No. 1734  
 3) API Well No. 47 - 033-3194  
 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: 1108.8 Watershed: Gnatty Creek  
 District: Elk County: Harrison Quadrangle: Brownton, WV
- 6) WELL OPERATOR CNG Development Company 1010  
 Address c/o Paul W. Garrett, P.O. Box 15746  
Pittsburgh, PA 15244
- 7) DESIGNATED AGENT Gary Nicholas  
 Address Crosswind Corporate Park  
Rt. 2, Box 698, Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Stephen Casey  
 Address Rt. 2, Box 232-D  
Jane Lew, WV 26378
- 9) DRILLING CONTRACTOR:  
 Name Sam Jack Drilling Co.  
 Address P.O. Box 48  
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, 5th Sand  
 12) Estimated depth of completed well, 2580 feet  
 13) Approximate trata depths: Fresh, 640, 1080 feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: 230 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	1-3/4	H-40	42	X		40	40	To Surface	By Rule 15.05
Coal									Sizes
Intermediate	8-5/8	X-42	23	x		1150	1150	To Surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X		2580	2580	200-400	Depths set
Tubing	1-1/2	CN-55	2.75	x					By Rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-033-3194 Date April 29, 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 April 29, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>28</u>	Agent: <u>SW</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>7581</u>
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Margaret J. Dasse  
 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

RECEIVED  
 APR 10 1985  
 DEPT. OF MINES  
 OIL & GAS DIVISION





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
OFFICE USE ONLY

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

1) WELL LOCATION  
2) WELL OPERATOR  
3) WELL INSPECTOR TO BE NOTIFIED  
4) PROPOSED WELL WORK  
5) GEOLOGICAL TARGET FORMATION  
6) CASING AND TUBING PROGRAM

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: \_\_\_\_\_

128	W&W	1/11/2011	1281
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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</u>	<u>Page</u>
Harriet M. Jarvis	Hope Natural Gas	1/8	833	431
	Consolidated Gas Supply Corporation	1/8	1030	143

1974 Modified





1) Date: April 1, 1985  
 2) Operator's Well No. 1734  
 3) API Well No. 47-033-3194  
 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

5 (i) COAL OPERATOR

(i) Name David Tholl  
 Address Rt. 2, Box 209  
Lost Creek, WV 26385

Address \_\_\_\_\_

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

(ii) Name \_\_\_\_\_  
 Address \_\_\_\_\_

Name David Tholl  
 Address Rt. 2, Box 209  
Lost Creek, WV 26385

(iii) 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

Paul W. Garrett

this 1 day of April, 1985.

My commission expires 12/19, 1988.

Paul J. Morrison

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

OIL & GAS DIVISION  
 DEPT. OF MINES

APR 10 1985

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1) APPLICATION (To Be Completed By Company)

1. Company Name J & J Enterprises  
 Mailing Address P.O. Box 48, Buckhannon, W.V.  
 Telephone 472-9403 Well Name CNG1734

2. Name of stream that may be discharged to: \_\_\_\_\_  
 A tributary of: \_\_\_\_\_

3. Treatment and method of pit disposal most likely to be utilized (method not necessarily restricted to this):  
land application Harrison Co.

4. Name of person supervising discharge: Charles T. Krushansky  
 Telephone 291-5960 Date Approved \_\_\_\_\_

5. By completing and submitting this application I agree to adhere to the guidance and provisions of the interim experimental general permit system. I understand that participation in the program does not prohibit enforcement action for violation of the terms of this general permit or some other applicable law on regulation.

RECEIVED  
 JUN 27 1985

Charles T. Krushansky 5-20-85  
 Signature Date

OIL & GAS DIVISION  
 DEPT. OF MINES

2) NOTIFICATION (To Be Completed By DWR)

1. Initial Company contact: (Approximately 7 days prior to discharge)  
 Date 6-3-85 Individual V. Leon  
 Proposed discharge date 6-8-85  
 Type of disposal method selected Landfill  
 Volume of waste 120,000 Discharge rate 100 GPM CFS  
 Time projected for discharge 2 DAYS DAYS  
 Receiving Stream flow rate N/A CFS

Objection \_\_\_\_\_ No Objection

2. Final Company contact: (48 hours required notice)  
 Date 6-3-85 Individual V. Leon  
 Final discharge date 6-8-85  
 Objection \_\_\_\_\_ No Objection

INSPECTION (To Be Completed By DWR)

1. 208 Practices - Acceptable  Not Acceptable \_\_\_\_\_  
 Comments: \_\_\_\_\_

2. Compliance with general permit interim guidelines: Acceptable  Not Acceptable \_\_\_\_\_  
 Comments: Good Access Road, Road Ditches, Diversion Ditch  
Good Bottom land for hard PVP, FAIR

3. Division of Water Resources Action Taken: None  
 Action Recommend: None

4. Parameters (Prior to discharge (if any) at discharge):  
 pH 10.0 Total-Pb \_\_\_\_\_ TOC \_\_\_\_\_  
 Chloride \_\_\_\_\_ TSS \_\_\_\_\_ Conductivity \_\_\_\_\_  
 Total Fe 2.0 Total Cu \_\_\_\_\_

Em. Perkins 6-7-85



FARM Harriet M. Jenkins

DISTRICT

Elk

COUNTY

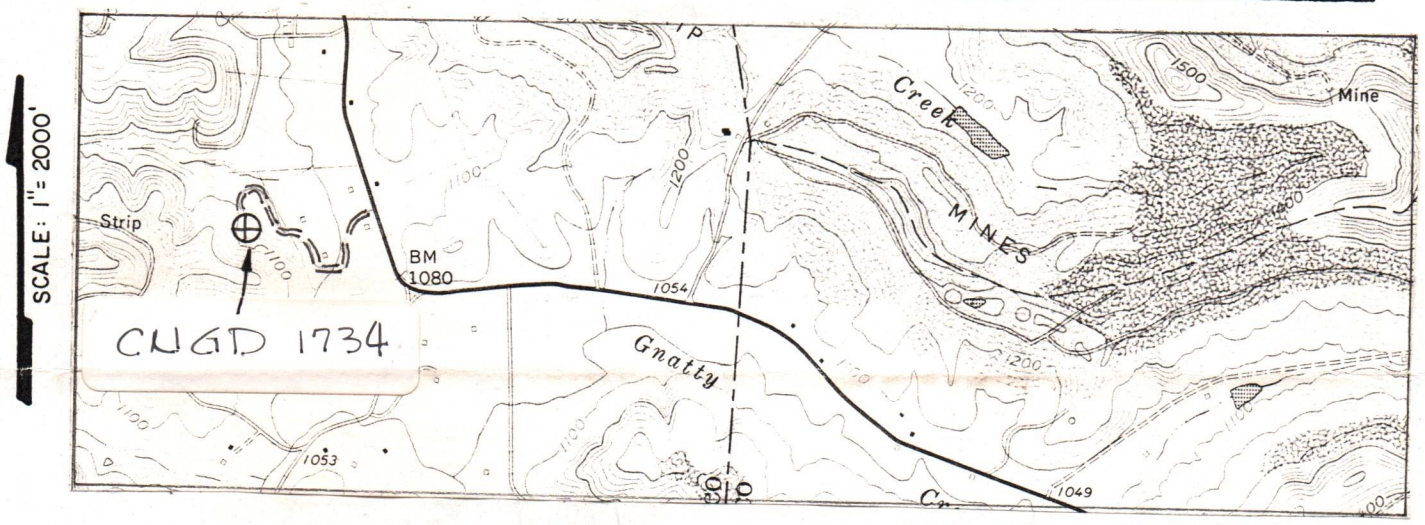
Harrison

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Brownton 7.5

**LEGEND**

Well Site ⊕

Access Road ===



**WELL SITE PLAN**

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

**LEGEND**

Property boundary ————

Road = = = = =

Existing fence — x — x —

Planned fence — / — / —

Stream ~ ~ ~ ~ ~

Open ditch — ···· — ···· — ···· —

Diversion // // // // //

Spring ○ →

Wet spot ☉

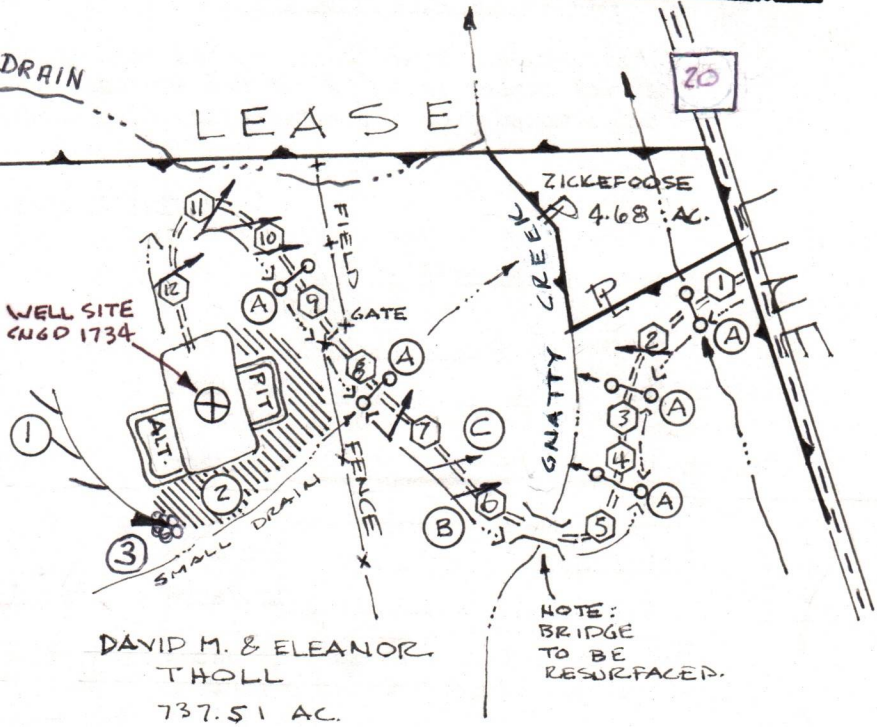
Building ■

Drain pipe — ○ — ○ — ○ —

Waterway ≡ ≡ ≡ ≡ ≡

NO SCALE

LOAD	GRADE	CROSS DRAIN SPACING	
1	50'	5 0%	AS NEEDED
2	500'	4 0%	135'
3	300'	1 0%	AS NEEDED
4	150'	4 0%	135'
5	200'	1 0%	AS NEEDED
6	300'	1 0%	"
7	300'	2 0%	250'
8	150'	1 0%	AS NEEDED
9	300'	0 to 1 0%	"
10	200'	3 0%	135'
11	125'	15 0%	60'
12	250'	1 0%	AS NEEDED



Comments: Access to the well site will be gained by upgrading and constructing approximately 2825' of access road beginning at an intersection point in W. Va. St. Rt. 20. The access road will be sloped 2-3% towards the open ditch. All outlets of drainage structures and ditches will be in a stable area. All brush and timber will be removed from the area to be disturbed prior to any earth moving activities. Topsoil will be stockpiled for use in reclaiming. The road and well site will be brought to desired grade with erosion control structures being installed in conjunction with the grading. All cuts will be 2:1 slope or less. Natural vegetation (filter strip) will remain undisturbed in areas between construction & natural water courses. Place staked hay bales in ditch line for sediment control.



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APR 10 1985

State of West Virginia

DATE January 17, 1985

WELL NO. CNGD 1734

API NO. 47 - 033 - 3194

OIL & GAS DIVISION  
DEPT. OF MINES

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  
LANDOWNER David Tholl

DESIGNATED AGENT Gary A. Nicholas  
Address Route 2, Box 698  
Bridgeport, WV 26330  
Telephone (304) 623-8840  
SOIL CONS. DISTRICT West Fork

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

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

2/13/85  
(Date)

Kenneth E Knight  
(SCD Agent)

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

ACCESS ROAD

LOCATION

Structure Steel Road Culvert (15" I.D. Min) (A)  
At natural drains  
Spacing according to O&G Manual  
with riprapped outlet  
Page Ref. Manual 2-7 to 2-11

Structure Diversion Ditch (1)  
Material Earth  
Page Ref. Manual 2-12 to 2-15

Structure Drainage Ditch (B)  
Along access road  
Spacing inside road cuts  
Page Ref. Manual 2-12 to 2-15

Structure Filter Strip (2)  
Material Natural Vegetation  
Page Ref. Manual 2-16 to 2-17

Structure Cross Drain (C)  
Spacing As noted on sketch  
with riprapped outlet  
Page Ref. Manual 2-1 to 2-4

Structure Rip Rap (3)  
Material Rock  
Page Ref. Manual N/A

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 according to soil test to 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

Lime according to soil test to 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

Note:

Note:

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

S&K RRC

PLAN PREPARED BY MSES Consultants, Inc.

ADDRESS 609 West Main Street  
Clarksburg, WV 26301

PHONE NO. 304-624-9700 or  
304-842-3325 (24-hour)

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

Note: If access road and/or location is in a meadow, then seed with the following: Orchard grass - 10 lbs/ac, Red clover - 12 lbs/ac, Alsike clover - 4 lbs/ac. If not, then seed with ab mixture.



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.

CN&D 1734

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

3. Article Addressed to:  
 Mr David Tholl  
 Route 2 Box 209  
 Lost Creek, WV 26385

4. Type of Service:	Article Number
<input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail	<input checked="" type="checkbox"/> Insured <input type="checkbox"/> COD P153527266

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee  
 X *Clarence H. Tholl*

6. Signature - Agent  
 X

7. Date of Delivery  
 APR 8 1985

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

DOMESTIC RETURN RECEIPT

RECEIVED

APR 10 1985

OIL & GAS DIVISION  
DEPT. OF MINES



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

Allegheny Nuclear ran CCl & Perf. 5th Sand 2324 - 32; 5 holes .39  
 Lower 5th Sand 2363 - 74, 7 holes .39  
 Halliburton Water Frac 5th Sand & Lower 5th Sand - Gel 20# premixed, Break 2950,  
 Break rate (bpm) 25, Avg psi 3250, Max psi 3600, Avg rate (bpm) 23, 25,000# 20/40,  
 22,000# 10/20 Sand, SL Fluid (bbl) 532, Total Fluid (bbl) 687, ISIP 2040,  
 4 min (psi) 1900, FDP-323 (parafin inhibitor) 180#

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Top Fill			0	5	Damp @ 15' 1-1/2" stream water @95'
Clay			5	15	
DK Shale			15	18	
Sand & Shale			18	225	
Coal			225	228	
Sand, Shale & RR			228	1380	
Shale & Lime & RR			1380	1450	
Big Lime & Injun			1450	1598	
Sand & Shale			1598	2600	
<u>LOG TOPS</u>					
B. Lime/B. Injun			1436	1612	
Berea/Gantz A			1774	1876	
50'			1884	1963	
30'			1988	2050	
Gordon St./Gordon			2066	2158	
4th/4th A			2180	2562	
5th			2320	2344	
Lower 5th			2362	2392	
Bayard			2400	2432	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY  
 Well Operator  
 By: *Gary A. ...*  
 Date: May 31, 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 ... encountered in the drilling of a well."



IV-35  
(Rev 8-81)

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JUL 10 1985  
OIL & GAS DIV.  
DEPT. OF MINES



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date May 31, 1985  
Operator's  
Well No. CNGD WN 1734  
Farm H M Jenkins  
API No. 47 - 033 - 3194

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: 1108.8 Watershed Gnatty Creek  
District: Elk County Harrison Quadrangle Brownton, WV

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 David Tholl  
ADDRESS Rt 2 Box 209  
Lost Creek, WV 26385  
MINERAL RIGHTS OWNER Harriett M. Jarvis, hrs  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_  
Stephen Casey ADDRESS Rt. 2 Box 232-D  
Jane Lew, WV 26378  
PERMIT ISSUED 4-29-85  
DRILLING COMMENCED 5-14-85  
DRILLING COMPLETED 5-17-85  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1185	1185	To Surf.
7			
5 1/2			
4 1/2	2491	2491	250
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Fifth Sand Depth 3000 feet  
Depth of completed well 2600 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 95 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: 225 - 228 Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation 5th Sand Pay zone depth 2324 - 32  
Lower 5th Sand Pay zone depth 2363 - 74 feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 103 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure 50 psig (surface measurement) after 1 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)



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

RECEIVED

MAY 21 1985

INSPECTOR'S WELL REPORT OIL & GAS DIVISION

DEPT. OF MINES

Oil or Gas Well  
(KIND)

Permit No. 33-3194

Company CN G Devel.  
 Address \_\_\_\_\_  
 Farm D Tholl  
 Well No. 1734  
 District CLK County \_\_\_\_\_  
 Drilling commenced 5-15-85  
 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 15 feet 95 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 8 5/8 SIZE 1178' No. FT. 2775 Date 5/31/85  
 NAME OF SERVICE COMPANY Halliburton  
 COAL WAS ENCOUNTERED AT 225 FEET 36 INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names SWJ 1

Remarks: drat 2163

5-17-85  
DATE

Steve Casey  
DISTRICT WELL INSPECTOR







STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

FINAL INSPECTION REQUEST

INSPECTOR'S COMPLIANCE REPORT

RECL. - CHAS.  
 30 SEP 1985 11:21



Permit No. 33-3194 County Harro.  
 Company CNG Develop Farm D Tholl  
 Inspector \_\_\_\_\_ Well No. 1734  
 Date \_\_\_\_\_

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to starting Work	_____	_____
25.04	Prepared before Drilling to prevent waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strength	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to prevent Waste	_____	_____
23.03	Reclaimed Drilling Site	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No surface or underground Pollution	_____	_____
7.03	Identification Markings	_____	_____

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: Steve Casey  
 DATE: 9-24-85





STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 DIVISION OF OIL AND GAS  
 1615 Washington Street, East  
 Charleston, West Virginia 25311  
 Telephone: 348-3500

ARCH A. MOORE, JR.  
 Governor

October 3, 1985

CNG Development Company  
 Post Office Box 15746  
 Pittsburgh, Pennsylvania 15244

In Re: Permit No: 47-033-3194  
 Farm: David Tholl  
 Well NO: 1734  
 District: ELk  
 County: Harrison  
 Issued: 4-29-85

Gentlemen:

The FINAL INSPECTION REPORT for the above captioned well has been received in this office. ONLY the Column checked below applies:

     The well designated by the above captioned permit number has been released under your Blanket Bond.

     Please return the enclosed cancelled single bond which covered the well designated by the above captioned permit number to the surety company that executed said bond in your behalf, in order that they may give you credit on their records.

XXXX Your well record was received and reclamation requirements approved. In accordance with Chapter 22B, Article 1, Section 26, the above captioned well will remain under bond coverage for life of the well.

     PERMIT CANCELLED - NEVER DRILLED

Respectively,

Theodore M. Streit

TMS/nw



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

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 033 - 03194 -				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA		Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	2374 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.) (b) For OCS wells:	Elk District Field Name Harrison WV County State				
(c) Name and identification number of this well: (35 letters and digits maximum.)	H. M. Jenkins		CNGD #1734		
(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.) (b) Date of the contract:	Undetermined Name Buyer Code				
(c) Estimated total annual production from the well:	4 Million Cubic Feet				
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	3 . 4 98			
9.0 Person responsible for this application:	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px;"> <p align="center">Agency Use Only</p> <p>Date Received by Juris. Agency <b>JUN - 6 1985</b></p> <p>Date Received by FERC</p> </div> <div style="text-align: center;"> <p><i>R. N. Metzler</i> Name <u>R. N. Metzler</u> Manager Reserves Signature 6/3/85 Date Application is Completed</p> </div> <div style="text-align: right;"> <p>Title  412-787-4092 Phone Number</p> </div> </div>				



COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: June 3, 19 85

10110

AGENCY USE ONLY

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

Gas Purchaser Contract No. N/A  
Date of Contract N/A  
(Month, day and year)

First Purchaser: undetermined 629  
Address: (Street or P.O. Box)  
(City) (State) (Zip Code)

FERC Seller Code

WELL DETERMINATION FILE NUMBER  
**850606-103°-033-3194**  
Use Above File Number on all  
Communications Relating to This Well

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

FERC Buyer Code

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

Name: Robert N. Metzler (Print) Manager of Reserves (Title)  
Signature: [Signature] (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
  - 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 Geopressured Brine
  - 107-2 Coal Seams
  - 107-3 Devonian Shale
  - 107-5 Production enhancement
  - 107-6 New Tight Formation
  - 107-7 Recompletion Tight Formation

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

AGENCY USE ONLY

QUALIFIED

RECEIVED

JUN - 6 1985

OIL & GAS DIV.  
DEPT. OF MINES

JUN - 6 1985

Date Received

JUN 28 1985  
Determination Date



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

Date June 3, 19 85  
Operator's Well No. 1734  
API Well No. 47 - 033 - 03194  
State County Permit

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL  
NGPA Section 103

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

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

LOCATION: Elevation 1109'  
Watershed Gnatty Creek  
District Elk County Harrison Brown ton  
Gas Purchase Contract No. N/A  
Meter Chart Code N/A  
Date of Contract N/A

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

\* \* \* \* \*

Date surface drilling was begun: 5/14/85

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

BHP = 562#  
BHP = P<sub>-1</sub> + P<sub>-1</sub> (e GL 53.34 T<sub>-1</sub>)

AFFIDAVIT

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

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

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

I, Carl G. Mourovic, a Notary Public in and for the state and county aforesaid, do certify that R. N. Metzler, whose name is signed to the writing above, bearing date the 3rd day of June, 1986, has acknowledged the same before me, in my county aforesaid.

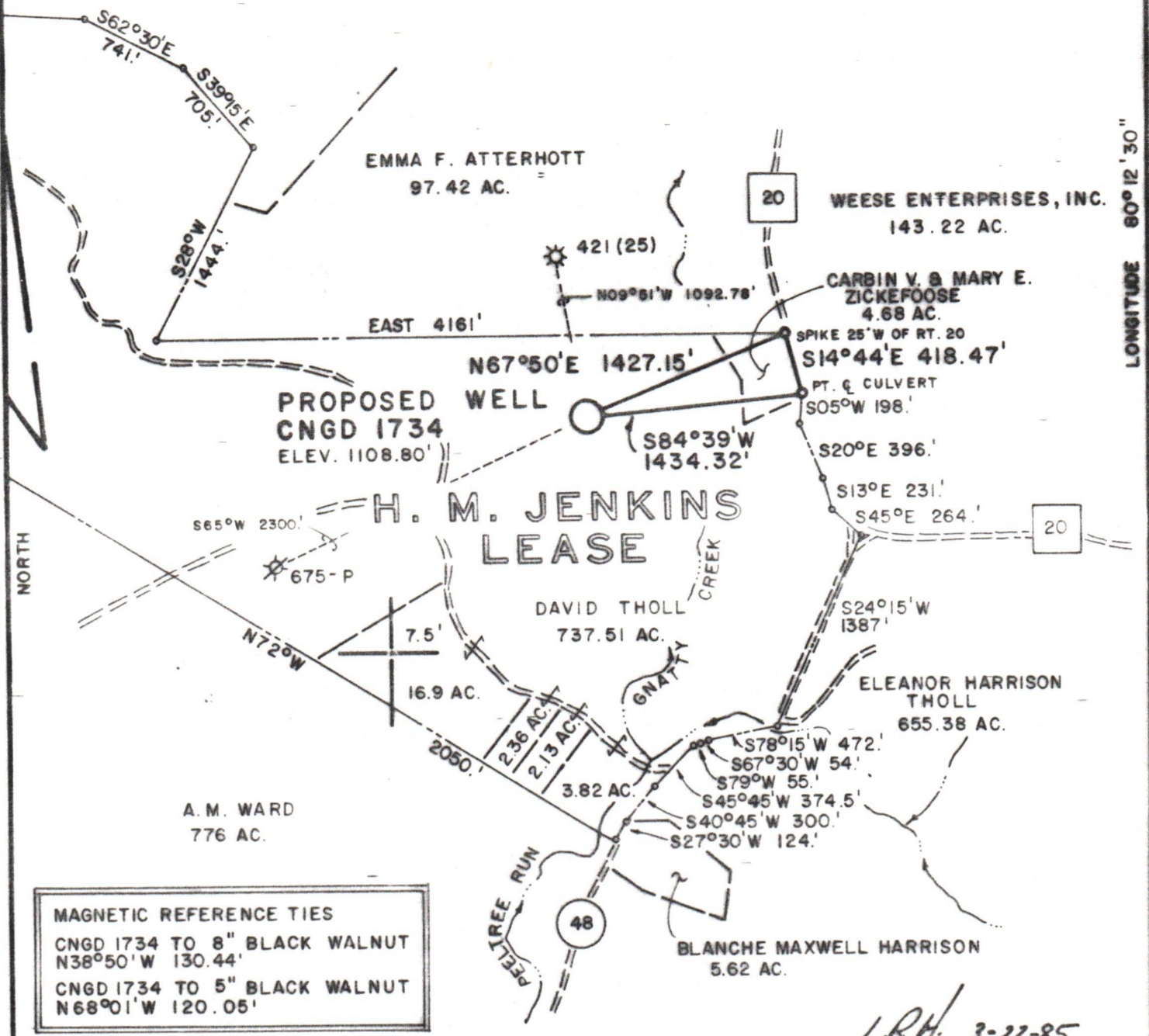
Given under my hand and official seal this 3rd day of June, 1985.

My term of office expires on the 19th day of December, 1988.

[NOTARIAL SEAL]

Carl G. Mourovic  
Notary Public



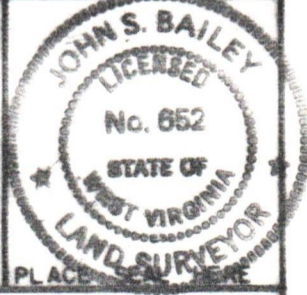


**MAGNETIC REFERENCE TIES**  
 CNGD 1734 TO 8" BLACK WALNUT  
 N38°50'W 130.44'  
 CNGD 1734 TO 5" BLACK WALNUT  
 N68°01'W 120.05'

*L.R.H. 3-22-85*

FILE NO. MSES 85-616  
 DRAWN BY SARC  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY PART IN 200  
 PROVEN SOURCE OF ELEVATION BM 1850 SE OF LOCA. ELEV. 1080.'

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) *J.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 JANUARY 30 19 85  
 OPERATOR'S WELL NO. CNGD 1734  
 API WELL NO. 47-033-3194  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X)  
 LOCATION: ELEVATION 1108.80' WATER SHED GNATTY CREEK  
 DISTRICT ELK COUNTY HARRISON  
 QUADRANGLE BROWNTON, WV 7.5'  
 SURFACE OWNER DAVID THOLL ACREAGE 737.51  
 OIL & GAS ROYALTY OWNER HARRIETT M. JARVIS HEIRS LEASE ACREAGE 1545 ±  
 LEASE NO. 69284  
 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 FIFTH SAND ESTIMATED DEPTH 3000'  
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS  
 ADDRESS ONE PARK RIDGE CENTER PITTSBURGH, PA 15244 ADDRESS RT. 2, BOX 698 BRIDGEPORT, WV 26330

033-3194