

10, 130' LATITUDE 39°17'30"

*Janie 5/9/89*  
*5/27/94*

WELL REFERENCES:  
N28°15'E, 161' TO 2" MICKORY  
N53°15'E, 158' TO 4" SUGAR

C. WELLINGS  
p/o LEASE

B. H. SCHWARTZMAN (SUR.)  
LEWIS MAXWEL HRS. (O&G)  
132.79 ac. of 1600 ac.

TIE LINES:  
A' - N13°42'W, 96.23'  
B' - N77°15'E, 188.47'  
C' - S50°W, 210.20'

R. MAXWELL  
p/o LEASE

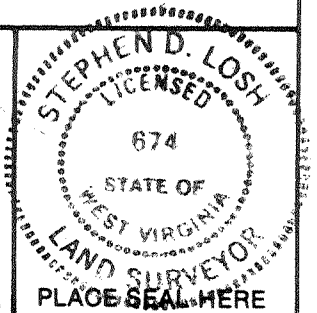
LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018

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

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 400'  
MINIMUM DEGREE OF  
ACCURACY 1 in 200  
PROVEN SOURCE OF  
ELEVATION RD. INTER. 2450' N.W.  
OF LOCATION ELEV. 1008'

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 REGU-  
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
MENT OF ENERGY.  
(SIGNED) *Stephen D. Losh*

R.P.E. \_\_\_\_\_ L.L.S. 674  
STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE APRIL 10, 19 89  
OPERATOR'S WELL NO. 3623  
API WELL NO.

47 - 017 - 3719 - W  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
LOCATION: ELEVATION 1312' WATER SHED MEATHOUSE FORK  
DISTRICT NEW MILTON COUNTY DODDRIDGE  
QUADRANGLE SMITHBURG 7.5 min. *Centerpoint SW*

SURFACE OWNER BEATRICE H. SCHWARTZMAN ACREAGE 132.79  
OIL & GAS ROYALTY OWNER LEWIS MAXWELL HEIRS LEASE ACREAGE 1600  
LEASE NO. OXY F/I

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) *Speckley, Fullerton*

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION ALEXANDER *Product* ESTIMATED DEPTH 5520'  
WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT RODNEY J. BIGGS  
ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698  
PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

LONGITUDE 80°42'30"

JONES

COUNTY NAME DODD

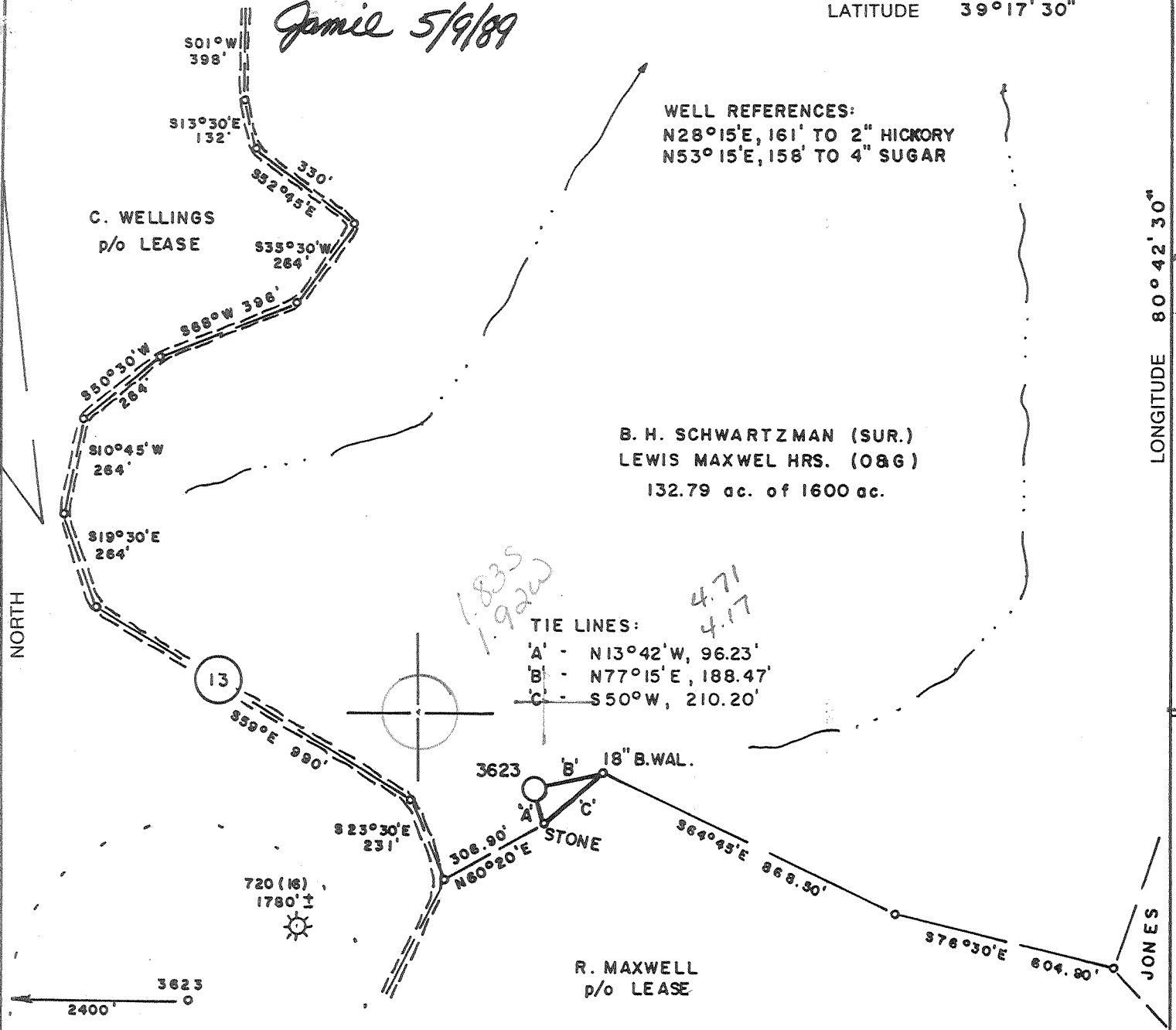
PERMIT 3719

NORTH

0 - 1/4" = 100'

PT. HALL 486/3

*Jamie 5/9/89*



WELL REFERENCES:  
 N28°15'E, 161' TO 2" HICKORY  
 N53°15'E, 158' TO 4" SUGAR

B. H. SCHWARTZMAN (SUR.)  
 LEWIS MAXWEL HRS. (O&G)  
 132.79 ac. of 1600 ac.

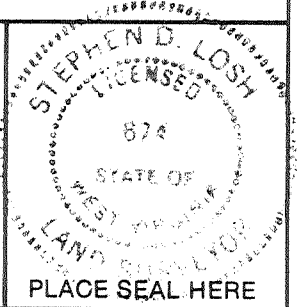
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 B' - N77°15'E, 188.47'  
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LAND SURVEYING SERVICES  
 21 CEDAR LANE  
 BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018

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FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION RD. INTER. 2450' N.W. OF LOCATION ELEV. - 1008'

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 ENERGY.  
 (SIGNED) *[Signature]*  
 R.P.E. \_\_\_\_\_ L.L.S. 674  
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE APRIL 10, 19 89  
 OPERATOR'S WELL NO. 3623  
 API WELL NO. 47-017-3719

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1312' WATER SHED MEATHOUSE FORK  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE SMITHBURG 7.5 min. 611 0227 Centerpoints(W)  
 SURFACE OWNER BEATRICE H. SCHWARTZMAN ACREAGE 132.79  
 OIL & GAS ROYALTY OWNER LEWIS MAXWELL HEIRS LEASE ACREAGE 1600  
 LEASE NO. OXY F/I  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5520'  
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT RODNEY J. BIGGS  
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698  
 PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

MAY 22 1989

6-6 Smithton-Flint-Sedalia (099)

FORM WW-6  
 H.T. HALL 48673

COUNTY NAME  
 PERMIT

RECEIVED  
SEP 29 1989

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: SCHWARTZMAN, BEATRICE Operator Well No.: CNGD 3623

LOCATION: Elevation: 1312.00 Quadrangle: SMITHBURG

District: NEW MILTON County: DODDRIDGE  
Latitude: 9770 Feet South of 39 Deg. 17Min. 30 Sec.  
Longitude 10130 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: CNG DEVELOPMENT CO., A DE  
P. O. BOX 15746  
PITTSBURGH, PA 15244-0000

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD  
Permit Issued: 05/18/89  
Well work Commenced: 08/26/89  
Well work Completed: 8/31/89  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary  Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 5543'  
Fresh water depths (ft) 70', 308'

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 90 - 93,

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	196	196	To Surf.
8 5/8"	1687	1687	To Surf.
4 1/2"	5438	5438	350 sks
1 1/2"	5259	5259	----

OPEN FLOW DATA

Producing formation Alexander Benson Pay zone depth (ft) 5330-5252  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow 4992-4997 Bbl/d  
9/18/89 Final open flow 660 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 730 psig (surface pressure) after 24 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Rodney J. Biggs, Manager  
For: CNG DEVELOPMENT CO., A DELAWARE CORP.

By: Rod Biggs  
Date: September 19, 1989

OCT 6 1989

Perforated Alexander 5330 - 5333 (3 holes); 5316 - 5322 (6 holes);  
 5300 - 5306 (6 holes); 5280 - 5288 (8 holes); 5261 - 5264 (3 holes);  
 5252 - 5256 (3 holes); Total 29 holes, .39 HSC  
 Foam Frac Alexander with Foam (70Q) - Break 1950, Avg TPSI 3281, Avg.  
 Rate 20 BPM, HHP used 1206, ISI 1200, used 500 gals 15% HCL, 5000# 80/100,  
 105,000# 20/40, 780,003 SCFN2  
 Perforated Benson 4992 - 4997, 18 holes, .39 HSC  
 Foam Frac Benson (70Q) - Break 3200, Avg TPSI 3031, Avg Rate 20 BPM,  
 HHP used 1062, ISI 1200, used 500 gals 15% HCL, 5000# 80/100 Sand,  
 60,000# 20/40 Sand, 617,500 SCFN2.

Clay	0	3	1" stream water at 70'
Sd, Sh & RR	3	90	1" stream water at 308'
Coal	90	93	
Sd, Sh & RR	93	1902	Coal 90 - 93
L. Lime	1902	1915	
Sd & Sh	1915	1945	
B. Lime	1945	2027	
SD & Sh	2027	2031	
Injun	2031	2105	
Sd, Sh & RR	2105	4981	
Benson	4981	4990	
SD & Sh	4990	5543	

LOG TOPS

Big Lime	1942	2014
Big Injun	2014	2106
Weir	2256	2346
Berea	2470	2476
Gordon Gp.	2650	2830
Warren	3310	3370
U. Speechley	3389	3516
Balltown	4018	4236
Bradford	4490	4603
Riley	4760	4930
Benson	4990	5050
Leopold	5100	5190
Alexander	5238	5340

**RECEIVED**  
 SEP 29 1989

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY



- 1) Date: 5-5-94
- 2) Operator's well number  
CNGP 3623W
- 3) API Well No: 47 - 17 - 03719 -W  
State - County - Permit

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- |  |  |
|--|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Beatrice Schwartzman</u><br/>Address <u>2520 30th St., N. W.</u><br/><u>Washington, D.C. 20008</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:<br/>Name _____<br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration<br/>Name <u>Robert L. Holland, JR., Agent</u><br/>Address <u>Lewis Maxwell Heirs</u><br/><u>105 HighSt., P.O.Box 425, West Union, WV 26456</u><br/>Name _____<br/>Address _____</p> <p>(c) Coal Lessee with Declaration<br/>Name _____<br/>Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u><br/>Address <u>Rt. 2, Box 135</u><br/><u>Salem, WV 26426</u><br/>Telephone (304)- <u>782-1043</u></p>  |  |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

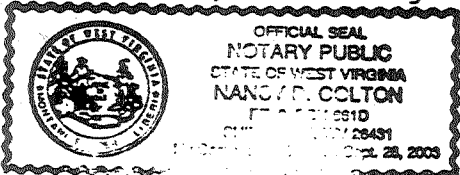
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator CNG Producing Company  
 By: Rodney J. Biggs  
 Its: Designated Agent - District Manager, Production  
 Address Rt. 2, Box 698, Crosswind Corp. Park  
Bridgeport, WV 26330  
 Telephone (304) 623-8840

Subscribed and sworn before me this 5<sup>th</sup> day of May, 1994

Nancy D. Colton Nancy D. Colton Notary Public  
My commission expires 09-26-2003



State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: SCHWARTZMAN, BEATRICE Operator Well No.: CNGP 3623

LOCATION: Elevation: 1,312.00 Quadrangle: SMITHBURG

District: NEW MILTON County: DODDRIDGE  
Latitude: 9770 Feet South of 39 Deg. 17Min. 30 Sec.  
Longitude 10130 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: CNG PRODUCING COMPANY  
ROUTE 2, BOX 698  
BRIDGEPORT, WV 26330-0698

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD  
Permit Issued: 05/27/94  
Well work Commenced: 07/08/94  
Well work Completed: 07/21/94

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary Cable Rig  
Total Depth (feet) \_\_\_\_\_  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? \_\_\_\_\_  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Re-Ran 1 1/2" tbgs.	5258.95'	5258.95'	

OPEN FLOW DATA

Producing formation Balltown, Speechley Pay zone depth (ft) 3310-3446  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow \* 169 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 440# psig (surface pressure) after 12 Hours

\* Commingle with existing production.  
Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

*Rodney J. Biggs*  
For: CNG PRODUCING COMPANY

By: Rodney J. Biggs, District Manager, Production  
Date: 07/25/94

AUG 15 1994

*NR 7-26-94*

06/30/94 - Pulled 1 1/2" Tbg.

07/08/94 - Halliburton perforated and Noweco Water Fraced as follows:

	1st Stage	2nd Stage
Formation	Balltown	Speechley
Perfs.	4089-4101, 30 holes	3310-3446, 31 holes
Plugs Set	4111	3456
Total Fluid	339	705
Total Sand	12,000	37,000
Total Acid	500	500
Ave. Rate	31	25
Ave. PPress	2,500	2,300
Broke Form.	1,780	1,500
Max. Sand	1-2	1-3
Frac Grad.	.70	.68

Turned Well in Line - 07/21/94



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: CNG DEVELOPMENT COMPANY 10110, C, C/O
- 2) Operator's Well Number: CNGD 3623 3) Elevation: 1312
- 4) Well type: (a) Oil  or Gas  /  
(b) If Gas: Production  / Underground Storage   
Deep  Shallow
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5520 feet
- 7) Approximate fresh water strata depths: 525, 625, 150
- 8) Approximate salt water depths: none 1480-1590'
- 9) Approximate coal seam depths: none Possible coal Blosson @ 990'
- 10) Does land contain coal seams tributary to active mine? Yes  / No
- 11) Proposed Well Work: Drill new well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water	11-3/4	H-40	42	200	200	To Surface
Coal						To surface
Intermediate	8-5/8	X-42	23	1675	1675	38CSR18-11.2.2 & 38CSR18-11.3
Production	4-1/2	J-55	10.5	5520	5520	200-400 sks 38CSR18-11.1
Tubing	1-1/2	CN-55	2.75	5420	5420	
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

RECEIVED  
MAY 03 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket Sure. Agent

(Type)

883P

024120

**RECEIVED**  
MAY 03 1989

Date: April 24, 1989  
Operator's well number  
CNGD 3623  
API Well No: 47 - 017 - 3719  
State - County - Permit

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name Beatrice Schwartzman  
Address 2520 30th St., NW  
Washington, D.C. 20008  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Mike Underwood  
Address Route 2, Box 135  
Salem, WV 26426  
Telephone (304)- 782-1043

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Robert L. Holland, Jr. Agent  
Address Lewis Maxwell Heits  
105 High St., P.O. Box 425, West Union, WV 26456  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator CNG Development Company  
By: [Signature]  
Its: Supervisor Purchasing/Production Services  
Address One Park Ridge Center, P. O. Box 15746  
Pittsburgh, PA 15244  
Telephone (412) 787-4117

Subscribed and sworn before me this 24 day of April, 1989

My commission expires 5/21/90

NOTARIAL SEAL  
SHERAL MERRICH, NOTARY PUBLIC  
FINDLAY TOWNSHIP, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES MAY 21, 1990