

11600'

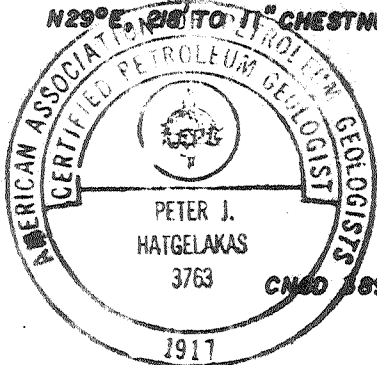
LATITUDE 39°17'30"

LONGITUDE 80°42'30"

Janie 1/26/90
4/6/94

WELL REFERENCES:

S75°E, 125' TO 4" HICKORY
N29°E, 218' TO 11" CHESTNUT OAK



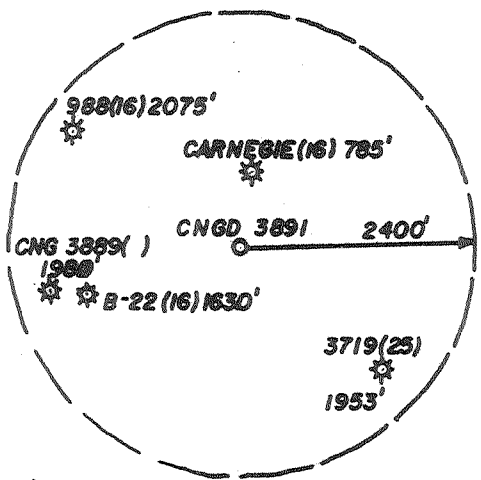
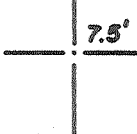
CHARLES WELLINGS
652.84 AC.

FOLLOWS ROAD E

B. SCHWARTZMAN
132.79 AC

N50°19'W
2056.55'

S44°27'E
2029.45'



18" BL. WALNUT

STONE
N50°E, 210.44'
N60°20'E, 306.90'

S64°45'E, 868.50'
S76°30'E, 604.90'

ROBERT MAXWELL
872.83 AC.

4.495
4.41W

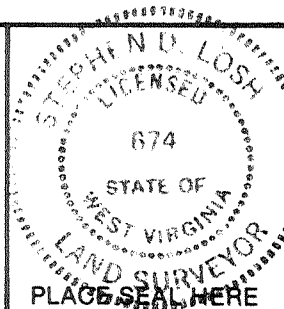
LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION TOP OF KNOB 67' SW AT ELEV. 1285'

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. NO. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE DECEMBER 13, 19 89
OPERATOR'S WELL NO. CNG 3891
API WELL NO. _____

47 - 017 - 3786 - F
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1281.5' WATER SHED BLUESTONE CREEK

DISTRICT WEST UNION COUNTY DODDRIDGE

QUADRANGLE SMITHBURG 7.5' *Centerport SW*

SURFACE OWNER CHARLES WELLINGS ACREAGE 652.84

OIL & GAS ROYALTY OWNER LEWIS MAXWELL HRS. LEASE ACREAGE 1562.

LEASE NO. OXY F/1

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 5515'

WELL OPERATOR CNG Producing Co. DESIGNATED AGENT RODNEY J. BIGGS

ADDRESS Rt. 2, Box 698 ADDRESS RT. 2, BOX 698

Bridgeport, WVa. 26330-0698 BRIDGEPORT, WV 26330

COUNTY NAME DODD
PERMIT 3786

FORM WW-6
HT. HALL 68673

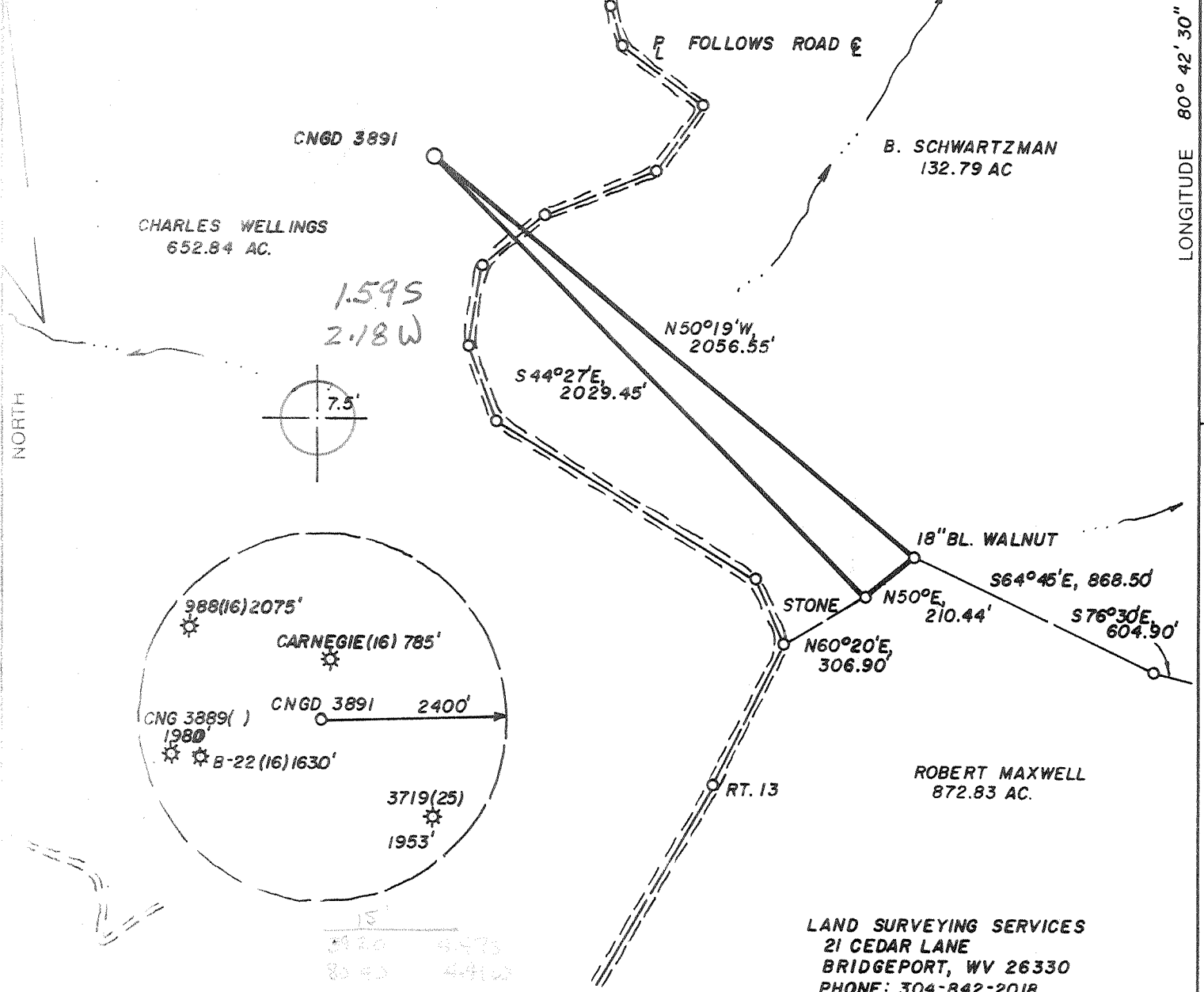
Janie 1/26/90

11600'

LATITUDE 39°17'30"

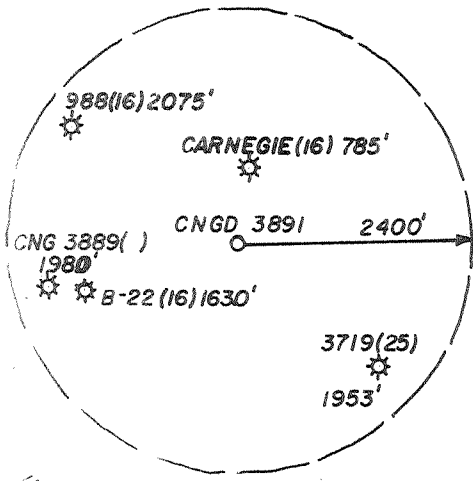
WELL REFERENCES:

- S75°E, 125' TO 4" HICKORY
- N29°E, 218' TO 11" CHESTNUT OAK



LONGITUDE 80° 42' 30" 8480'

NORTH



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" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 67' SW
AT ELEV. 1285'

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. NO. 674
STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE DECEMBER 13, 19 89
 OPERATOR'S WELL NO. CNGD 3891
 API WELL NO. _____

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
 LOCATION: ELEVATION 1281.5' WATER SHED BLUESTONE CREEK
 DISTRICT WEST UNION 8 COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG 7.5'
 SURFACE OWNER CHARLES WELLINGS ACREAGE 652.84
 OIL & GAS ROYALTY OWNER LEWIS MAXWELL HRS. LEASE ACREAGE 1562.
 LEASE NO. OXY F/1

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 5515'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT RODNEY J. BIGGS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
PITTSBURGH, PA 15244 0142 BRIDGEPORT, WV 26330

FEB 09 1990

66 Smithton - Flint - Sedalia (1999)

COUNTY NAME PERMIT

017-3786-Frac
Issued 4/7/94
Page of
Expires 4/7/96

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

- 1) Well Operator: ¹⁴⁶ CNG Producing Company 10110 (8) 611
- 2) Operator's Well Number: CNGP 3891 3) Elevation: 1281.5
- Well type: (a) Oil ___ / or Gas X /
- (b) If Gas: Production ___ / Underground Storage ___ /
Deep ___ / Shallow ___
- Proposed Target Formation(s): Gordon, Speechley ⁴³²
- Proposed Total Depth: _____ feet
- Approximate fresh water strata depths: _____
- Approximate salt water depths: _____
- Approximate coal seam depths: _____
- Does land contain coal seams tributary to active mine? Yes ___ / No ___
- Proposed Well Work: Squeeze cement to cover intervals, Perforate & Frac proposed zone, clean well up, commingle with existing production.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water						
Coal						
Intermediate						
Production						
Tubing						
Liners						

[Handwritten signature]
4/5/94

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

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

01209
9

1) Date: March 16, 1994
2) Operator's well number
CNGP 3891
3) API Well No: 47 - 17 - 03786-F
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>Charles Wellings</u>
Address <u>New Milton Star Rt. Box 2</u>
<u>West Union, WV 26456</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name <u>Robert L. Holland Jr., Agent</u>
Address <u>105 High St. P.O.Box 425</u>
<u>West Union, WV 26456</u></p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name _____
Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u>
Address <u>Rt. 2, Box 135</u>
<u>Salem, WV 26426</u>
Telephone (304)-<u>782-1043</u></p> | |

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

X 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:

- X 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
Address Crosswind Corp. Park, Rt. 2, Box 698
Bridgeport, WV 26330
Telephone (304) 623-8840

Subscribed and sworn before me this 16th day of March, 1994

Nancy D. Colton Notary Public
My commission expires September 26, 2003

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

Well Operator's Report of Well Work

Farm name: WELLINGS, CHARLES Operator Well No.: CNGP 3891

LOCATION: Elevation: 1,281.50 Quadrangle: SMITHBURG

District: WEST UNION County: DODDRIDGE
Latitude: 8480 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 11600 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: 04/07/94
Well work Commenced: 05/18/94
Well work Completed: 06/02/94
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" Tbg.	5262'	5262'	

OPEN FLOW DATA

Producing formation Speechley, Gordon Pay zone depth (ft) 2708-2716 3364-3481
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow *-800 MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 230 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.

For: CNG PRODUCING COMPANY
By: Rodney J. Biggs, District Manager - Production
Date: 06/02/94

JUN 11 1994
JUN 11 1994
6

Halliburton Perforated Speechley 3364-3481, 29 holes.

Newsco Water Frac: Gordon 2708-2716, 25 holes

	<u>1st Stage</u>	<u>2nd Stage</u>
Formation	Speechley	Gordon
Plug	3490 B.P.	2726 F.P.
Total Fluid	519	485
Total Acid	500	500
Sand	43K	28K
Ave. Rate	29	28
Ave. Press	1680	2170
Max. Sand	4	3
Brk. Form.	2000	2650
Frac. Grade	.73	.86

Well Turned Back in Line 06/02/94

JUN 11 1994

RECEIVED
Division of Energy

MAY 0 2 90

Permitting
Oil and Gas Section

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

Well Operator's Report of Well Work

Farm name: WELLINGS, CHARLES Operator Well No.: CNGD 3891

LOCATION: Elevation: 1281.50 Quadrangle: SMITHBURG

District: WESTUNION County: DODDRIDGE
Latitude: 8480 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 11600 Feet West of 80 Deg. 42 Min. 30 Sec.

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

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD
Permit Issued: 02/07/90
Well work Commenced: 03/27/90
Well work Completed: 04/05/90
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5546'
Fresh water depths (ft) 50'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	175	175	To Surf.
8 5/8"	1721	1721	To Surf.
4 1/2"	5517	5517	250 sks
1 1/2"	5264	5264	----

Salt water depths (ft) Damp @ 1220',
Damp @ 1350', Damp @ 1510'
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 600 - 604

OPEN FLOW DATA

Alexander 5343 - 5289
Benson 5002 - 5008

Producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
4/16/90 Final open flow 712 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 150 psig (surface pressure) after 1 Hours
1125 24

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.

MAY 0 4 1990

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

By: Rod Biggs
Date: April 17, 1990

RECEIVED
 DATE: 10/10/00
 TIME: 10:30 AM
 BY: [Signature]

Perforate Alexander 5339 - 5343, 4 shots; 5321 - 5324, 3 shots; 5308 - 5312, 4 shots; 5289 - 5297, 10 shots; total 21 holes, .39 HSC
 Foam Frac (70Q) Alexander - Break 1600, Avg TPSI 2858, Avg Rate 20 BPM, HHP used 937, ISI 3150, Max Sand Conc. 4#/gal, Used 500 gals 15% HCL, 5000# 80/100 Sand, 60,500# 20/40 Sand, 698,000 SCFN₂.

Perforated Benson Sand 5002 - 5008, 18 holes, .39 HSC
 Foam Frac (70Q) Benson - Break 1600, Avg TPSI 2986, Avg Rate 20 BPM, HHP used 812, ISI 1450, Max Sand Conc. 5#/gal, used 500 gals 15% HCL, 5000# 80/100 Sand, 60,000# 20/40 Sand, 542,000 SCFN₂

Sd, Sh & RR	0	600	Coal 600 - 604
Coal	600	604	1/4" water @ 50'
Sd, Sh & RR	604	1950	Damp @ 1220'
Lime/Injun	1950	2110	Damp @ 1350'
Sd, Sh, RR	2110	5546	Damp @ 1510'

LOG TOPS

Big Lime	1960	2050
Big Injun	2050	2116
Weir	2270	2360
Berea	2470	2486
Gordon Gp.	2690	2716
Warren	3336	3390
U. Speechley	3400	3486
Balltown	4110	4130
Bradford	4510	4596
Riley	4830	4893
Benson	5000	5036
Leopold	5140	5152
Alexander	5250	5344

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

017 5/86
Issued 2/7/90
Expires 2/7/92
610

- 1) Well Operator: CNG DEVELOPMENT COMPANY 10110 (8) 610
- 2) Operator's Well Number: CNGD 3891 3) Elevation: 1281.5
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5515 feet
- 7) Approximate fresh water strata depths: 781, 810, 1241
- 8) Approximate salt water depths: n/a
- 9) Approximate coal seam depths: 606
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 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	1700	1700	38CSR1811.2.2 & 38CSR181.3
Production	4 1/2	J-55	10.5	5515	5515	200-400 sks 38CSR18-11.1
Tubing	1 1/2	CN-55	2.75	5300	5300	
Liners						

RECEIVED
JAN 22 1990

PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

039308
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
Plat WW-9 WW-2B Bond \$50 Security Agent
(Type)

[Stamp]
JAN 22 1990
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: January 12, 1990
Operator's well number
CNGD 3891
API Well No: 47 - 017 - 3786
State - County - Permit

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 Charles Wellings
Address New Milton Star Route, Box 2
West Union, WV 26456
(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 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
X 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)
X 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 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 12 day of January, 1990

[Signature]
My commission expires _____

Notarial Seal
Barbara A. Schaub, Notary Public
Fidelity Twp., Allegheny County
My Commission Expires June 14, 1993

Notary Public