



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 3637' NW OF LOC. AT ELEV. 1245'

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) _____
 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 FEB. 27, 19 90
 OPERATOR'S WELL NO. CNGD 3958
 API WELL NO. 47 - 017 - 3808
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1002' WATER SHED RALPHS RUN
 DISTRICT MCCLELLAN 5 COUNTY DODDRIDGE
 QUADRANGLE CENTER POINT 7.5'

SURFACE OWNER CHARLES F. TETRICK ACREAGE 131.34
 OIL & GAS ROYALTY OWNER BENTON SWEENEY HRS. LEASE ACREAGE 137.50
 LEASE NO. DV 31146

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BENSON ESTIMATED DEPTH 5160'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT RODNEY J. BIGGS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
G-C PITTSBURGH, PA 15244 Smithlog-Flint-Sedalia (099) BRIDGEPORT WV 26330

COUNTY NAME
 PERMIT

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

Well Operator's Report of Well Work

Farm name: TETRICK, CHAS. & SHIRLEY Operator Well No.: CNGD 3958

LOCATION: Elevation: 1002.00 Quadrangle: CENTER POINT

District: MCCLELLAN County: DODDRIDGE
Latitude: 14970 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 8435 Feet West of 80 Deg. 40 Min. 0 Sec.

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

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD
Permit Issued: 04/16/90
Well work Commenced: 11/07/90
Well work Completed: 11/13/90
Verbal Plugging
Permission granted on:
Rotary x Cable _____ Rig
Total Depth (feet) 5343'
Fresh water depths (ft) 35', 289'

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 149-152;

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	137	137	To Surf.
8 5/8"	1683	1683	To Surf.
4 1/2"	5312	5312	200 sks
1 1/2"	5035	5035	-----

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5055-5062
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
11/29/90 Final open flow 421 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1450 psig (surface pressure) after 72 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.

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

By: Rodney J. Biggs
Date: December 4, 1990

Perforate Benson 5055 - 5062, 20 holes, .39 HSC
 Water Frac Benson - Break 1900#, Ave HHP 1870, Ave Rate 30 BPM, Ave Pres. 2543#,
 Max Tr Psi 3350#, Total Fluid 868 bbl, SL Fluid 485 bbl, ISIP 1950#, 5 min 1600#.
 Total Acid 750 gal 15% HCL, Total Sand 5,000# 80/100, 65,000# 20/40, Max Conc. 6#.
 BHTP 3829#

Fill	0	2	1/2" stream water @ 35'
Sd, Sh & RR	2	149	1" stream water @ 289'
Coal	149	152	
Sd, Sh & RR	152	1896	
L. Lime	1896	1917	
Shale	1917	1939	
Big Lime	1939	2066	
Injun Sand	2066	2154	
Sd & Sh	2154	5343	

LOG TOPS

Little Lime	1937	2051
Big Lime/Big Injun	2052	2154
Weir Sd	2315	2429
Berea	2496	2521
Gordon	2644	2755
4th	2874	2888
Warren Sd	3554	3419
Speechly	3693	3762
Bradford Sd	4516	4630
Riley	4863	4994
Benson	5055	5096

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

Issued 4/16/90
Expires 4/16/92

Rec. 9/30/90

- 1) Well Operator: CNG DEVELOPMENT COMPANY 10110 (5) 286
- 2) Operator's Well Number: CNGD 3958 3) Elevation: 1002
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Benson 425
- 6) Proposed Total Depth: 5160 feet
- 7) Approximate fresh water strata depths: 288, 431
- 8) Approximate salt water depths: n/a
- 9) Approximate coal seam depths: 125, 375
- 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	Fill-up (cu. ft.)
Conductor						
Fresh Water	11 3/4	H-40	42	120	120 <i>CTS</i>	To surface
Coal						To surface
Intermediate	8 5/8	X-42	23	1450	1450 <i>CTS</i>	38CSR1811.2.2 & 38CSR1811.3
Production	4 1/2	J-55	10.5	5160	5160	200-400 sks 38CSR18-11.1
Tubing	1 1/2	CN-55	2.75			
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

RECEIVED
 MAR 30 1990

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY
 WPCP

Fee(s) paid: *[initials]* Well Work Permit *[initials]* Reclamation Fund *[initials]*
[initials] Plat *[initials]* WW-9 *[initials]* WW-2B *[initials]* Bond Blanket *[initials]* Agent *[initials]*
 (Type)

1342

RECEIVED
MAR 30 1990

Date: March 20, 1990
Operator's well number
CNGD 3958
API Well No: 47 - 017 - 3808
State - County - Permit - _____

DIVISION OF OIL & GAS ³⁾
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 Charles & Shirley Tetrick
 Address 4198 Zenobia Road
Wakenan, OH 44889
 (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 Arby Gaspell
 Address CP Star Route
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 20 day of March, 1990

My commission expires _____

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

Notary Public