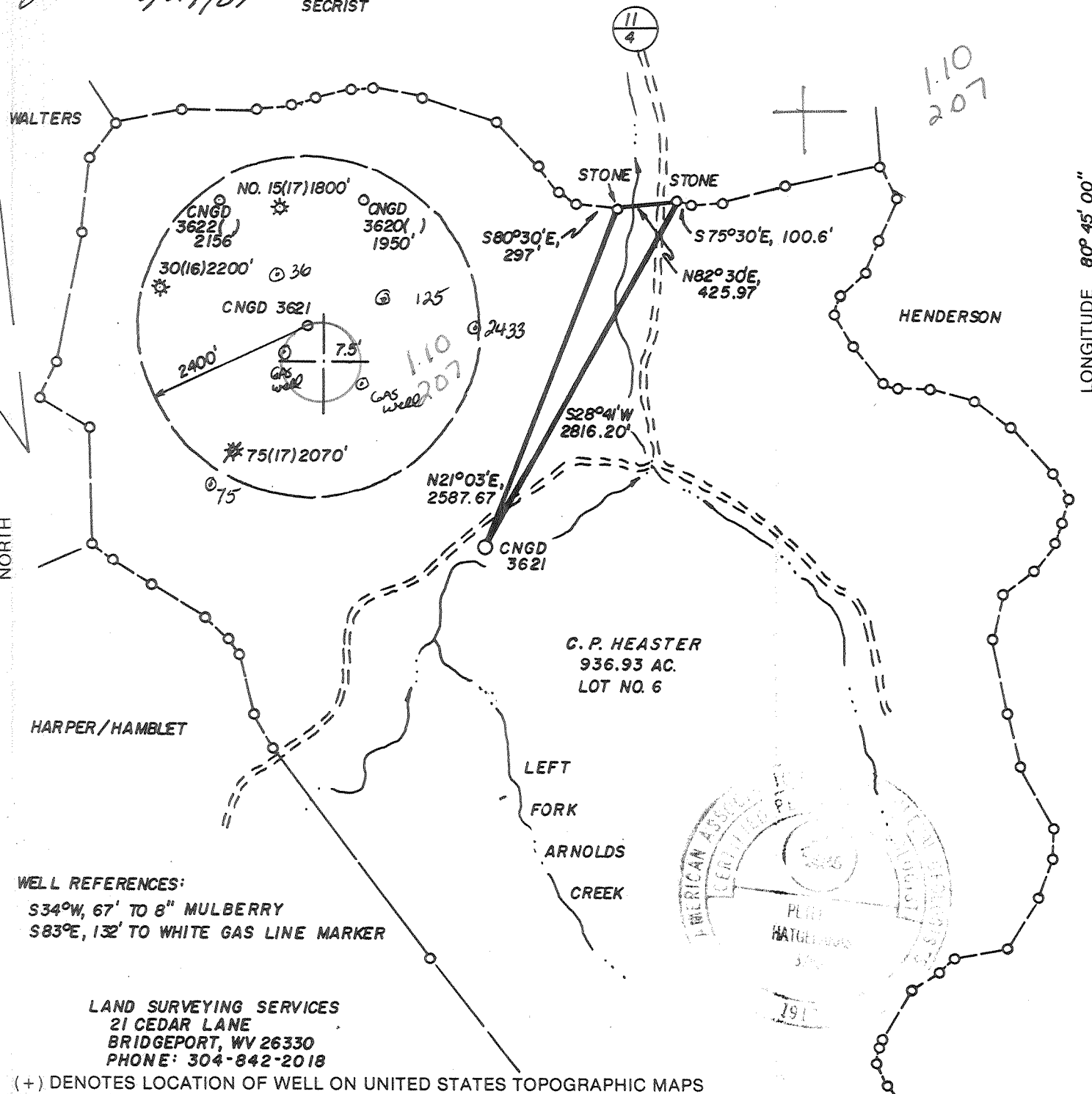


Jamie 6/24/89

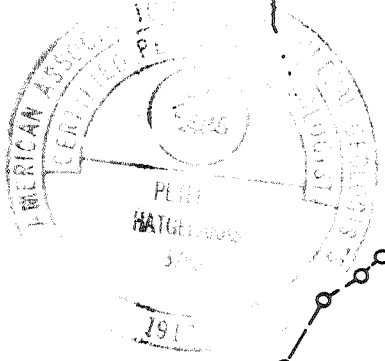
SECRET



WELL REFERENCES:
 S34°W, 67' TO 8" MULBERRY
 S83°E, 132' TO WHITE GAS LINE MARKER

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" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 4720' NE. OF LOC. AT ELEV. 1314'

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE MAY 1, 19 89
 OPERATOR'S WELL NO. CNGD 3621
 API WELL NO. 47-017-3733
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 889' WATERSHED LEFT FORK OF ARNOLDS CREEK
 DISTRICT WEST UNION 9 COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5' 526 0583 Holbrook NE

SURFACE OWNER CHARLES P. HEASTER ACREAGE 936.93
 OIL & GAS ROYALTY OWNER LEWIS MAXWELL HRS. LEASE ACREAGE 1600
 LEASE NO. _____

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 5050'

WELL OPERATOR CNG DEVELOPMENT CO. DESIGNATED AGENT RODNEY J. BIGGS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
PITTSBURGH PA 15244 142 BRIDGEPORT, WV 26330

COUNTY NAME
 PERMIT

6-6 Straight Fork-Bluestone Creek (133)

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: HEASTER, CHARLES & PATSY Operator Well No.: CNGD 3621

LOCATION: Elevation: 889.00 Quadrangle: OXFORD

District: WESTUNION County: DODDRIDGE
Latitude: 5915 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude: 11025 Feet West of 80 Deg. 45 Min. 0 Sec.

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

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD
Permit Issued: 07/03/89
Well work Commenced: 08/17/89
Well work Completed: 08/24/89
Verbal Plugging
Permission granted on:
Rotary Cable _____ Rig
Total Depth (feet) 5200'
Fresh water depths (ft) 10', 69', 240',
730', 1050'
Salt water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	178	178	To Surf.
8 5/8"	759	759	To Surf.
4 1/2"	5069	5069	450 sks
1 1/2"	4862	4862	-----

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 167-170, 720-723

OPEN FLOW DATA

Producing formation Alexander Pay zone depth (ft) 4872-4910
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
9/8/89 Final open flow 880 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 975 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.

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

By: Rodney J. Biggs
Date: September 12, 1989

OCT 6 1989

Perforated Alexander 4904 - 4910 (6 holes), 4898 - 4900 (2 holes), 4889 - 4893 (4 holes),
 4872 - 4882 (10 holes) .39 HSC
 Foam Frac (70Q) Alexander - Break 1830, Avg TPSI 2743, Avg Rate 20 BPM, HHP used 1008,
 ISI 1520, Used 500 gals 15% HCL, 5000# 80/100 Sand, 120,000# 20/40 Sand, 702,280 SCFN₂
 BHTP 3125, Max Sand Conc. 6#/gal.

Sd, Sh & RR	0	167	2" stream H ₂ O @ 10'
Coal	167	170	3" stream at 69'
Sd, Sh & RR	170	720	1 1/2" stream at 240'
Coal	720	723	2" stream at 730'
Sd, Sh & RR	723	1552	1/4" stream water at 1050'
Big Lime	1552	1647	
Shale	1647	1659	Coal at 167 - 170
Injun	1659	1700	720 - 723
Sd, Sh & RR	1700	5200	

LOG TOPS

Warren	2928	2978
U. Speechley	2996	3084
Speechley	3280	3520
Balltown	3590	3770
Riley	4420	4530
Benson	4585	4646
Alexander	4839	4930

Page 0

Issued 7/3/89 Expires 7/3/91

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

- 1) Well Operator: CNG DEVELOPMENT COMPANY 10110 (8) 525
- 2) Operator's Well Number: CNGD 3621 3) Elevation: 889
- 4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5050 feet
- 7) Approximate fresh water strata depths: Alexander
- 8) Approximate salt water depths: none
- 9) Approximate coal seam depths: none
- 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	1250	1250	38CSR1811.2.2 & 38CSR1811.3
Production	4 1/2	J-55	10.5	5050	5050	200-400 sks 38CSR18-11.1
Tubing	1 1/2	CN-55	2.75	4950	4950	
Liners						

9060

PACKERS : Kind
 Sizes
 Depths set

RECEIVED
JUN 15 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 Ave Agent
 (Type)

030456
15

RECEIVED
JUN 15 1989

Date: June 8, 1989
Operator's well number CNGD 3621
API Well No: 47 - 017 - 3733
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 Charles P. & Patsy J. Heaster
Address P. O. Box 112
West Union, WV 26456
 - (b) Name Michael P. & Keiko A. Heaster
Address c/o P. O. Box 112
West Union, WV 26456
 - (c) Name Clarence B. & Dawn E. Conner
Address ~~c/o P. O. Box 112~~ 104 James St
West Union, WV 26456
- 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
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304)- 782-1043

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 8 day of June, 1989

Barbara L. Randall
My commission expires _____

NOTARIAL SEAL
BARBARA L. RANDALL, NOTARY PUBLIC
FINDLAY TOWNSHIP, ALLEGHENY COUNTY
MY COMMISSION EXPIRES APRIL 5, 1993
Notary Public