

*Janice Co/16/89*

LATITUDE 39° 15' 00"

S39°43'W, 503.91'

S54°19'W, 415.78'

S82°30'W, 218.01'

S51°14'W, 881.23'

S3°42'E, 1355.42'

N58°19'E, 351.02'

RAIL FENCE AND POST CORNER S.79°49'W, 1118.90'

N64°31'E, 883.16'

R.R. SPIKE & 1" BLACK OAK

S59°05'E, 354.35'

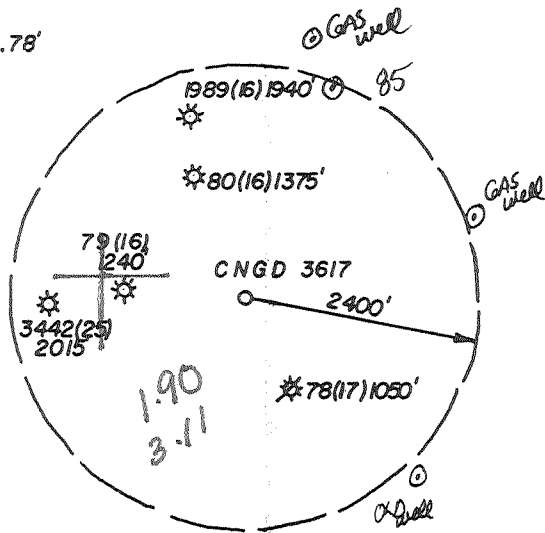
S32°58'E, 791.57'

S63°55'E, 273.41'

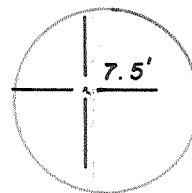
S65°35'E, 751.30' NUTTER

S42°32'E, 1365.07'

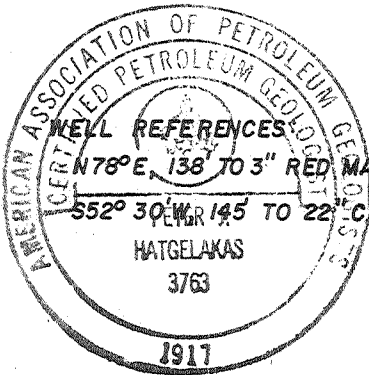
HAESSLY HARDWOOD LUMBER SALES, CO.



LUCY E. HARPER & MARY H. HAMBLET  
885.20 AC.  
LOT NO. 7



*1.905  
0.970*



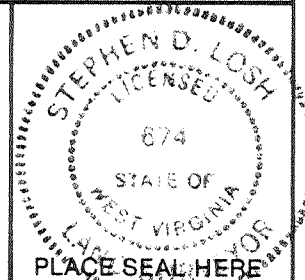
LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018

(+) 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 3375' NW OF LOCATION AT ELEV. 1362'

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 APRIL 17, 19 89  
OPERATOR'S WELL NO. CNGD 3617  
API WELL NO. 47-017-3728  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1313' WATERSHED LEFT FORK OF ARNOLDS CREEK  
DISTRICT WEST UNION 8 COUNTY DODDRIDGE  
QUADRANGLE OXFORD 7.5' 526 058 3 Holbrook NE  
SURFACE OWNER LUCY E. HARPER, ET AL. ACREAGE 885.20  
OIL & GAS ROYALTY OWNER LEWIS MAXWELL, HRS. LEASE ACREAGE 1600.

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 5500'  
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

JUN 30 1989

*6-6 Straight Fork - Bluestone Creek (133)*

COUNTY NAME PERMIT

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

DEC 13 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: HAMBLETT, MARY HARPER Operator Well No.: CNGD 3617

LOCATION: Elevation: 1313.00 Quadrangle: OXFORD

District: WESTUNION County: DODDRIDGE  
Latitude: 10080 Feet South of 39 Deg. 15Min. 0 Sec.  
Longitude 4720 Feet West of 80 Deg. 47 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: 06/28/89  
Well work Commenced: 11/1/89  
Well work Completed: 11/10/89  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary x Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5606  
Fresh water depths (ft) 50'

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

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	213	213	
8 5/8	1686	1686	To Surf.
4 1/2	5576	5576	800 sks
1 1/2	5270	5270	-----

OPEN FLOW DATA

Producing formation Alexander Pay zone depth (ft) 5308-5316  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow 5288-5302 Bbl/d  
11/27/89 Final open flow 1210 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1250 psig (surface pressure) after 48 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: Rodney Biggs  
Date: November 30, 1989

DEC 22 1989

Perforated Alexander 5308 - 5316 (8 holes), 5288 - 5302 (14 holes) .39 HSC  
 Foam Frac Alexander - Break 1700#, Avg. TPSI 2476, Avg Rate 20 BPM, HHP used 910,  
 ISIP 1200, 5 min 999, Max Sand Conc. 6#/gal, used 500 gals 15% HCL, 5000# 80/100,  
 120,000# 20/40 and 812,000 SCFN<sub>2</sub>

Sd, Sh & RR	0	1960	1/2" stream water at 50'
Little Lime	1960	1990	
Sd & Shale	1990	1997	
Big Lime	1997	2082	
Injun	2082	2166	
Sd & Shale	2166	5606	

LOG TOPS

Big Lime	1994	2087
Big Injun	2087	2145
Weir	2300	2418
Berea	2500	2508
Warren	3370	3428
U. Speechley	3437	3564
Speechley	3730	3970
Balltown	4316	4490
Bradford Base	4650	
Riley	4774	4950
Benson	5000	5036
Alexander	5254	5336

**RECEIVED**  
 DEC 13 1989

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

25

47-017-3728

STATE OF WEST VIRGINIA Issued 6/28/89 Expires 6/28/91  
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 3617 3) Elevation: 1313
- 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: 5500 feet
- 7) Approximate fresh water strata depths: 156,531,631
- 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	Fill-up (cu. ft.)
Conductor						
Fresh Water	11 3/4	H-40	42	250	250	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	5500	5500	200-400 sks 38CSR18-11.1
Tubing	1 1/2	CN-55	2.75	5400	5400	
Liners						

8978

PACKERS : Kind             
          Sizes             
          Depths set           

**RECEIVED**  
JUN 09 1989

For Division of Oil and Gas Use Only

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

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

**RECEIVED**  
JUN 09 1989

- 1) Date: May 30, 1989
- 2) Operator's well number CNGD 3617
- 3) API Well No: 47 - 017 - 3728  
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 Mary Harper Hamblett  
Address 15 N. Wirt St.  
Leesburg, VA 22075
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name Robert L. Holland, Jr. Agent  
Address Lewis Maxwell Heirs  
105 High St., P.O. Box 425, West Union, WV  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
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 30 day of May, 1989

My commission expires 5/21/90

NOTARIAL SEAL  
SHEILA L. MURICH, NOTARY PUBLIC  
FINDLAY TOWNSHIP, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES MAY 21, 1990  
Notary Public  
Member, Pennsylvania Association of Notaries