

39.20
39°17'30"

10.225
10,225'

80°45'00"
LONGITUDE 9986

WELL REFERENCES:
N42°30'E, 190' TO 14" SUGAR
S70°30' W, 169' TO 8" POPLAR

WOLFE

PIERCE

SCHNEID

JAMES A. GAIN
55 AC.

ST. PILE

ST. PILE

PIERCE

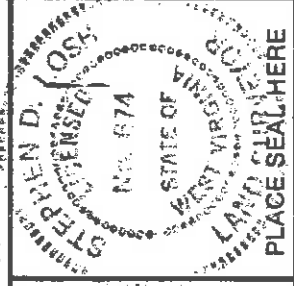
GAIN

LAND SURVEYING SERVICES
1412 N. 18TH ST.
CLARKSBURG, WV 26301
PHONE: 304-623-1214

(+) 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 TOP OF KNOB 1400' N.
OF LOCATION ELEV. - 1352'

I THE UNDERSIGNED, HEREBY CERTIFY THAT
THIS PLAN 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. _____ I.L.S. 674
STEPHEN D. LOSH



PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE APRIL 24, 1986
OPERATOR'S WELL NO. 2571
API WELL NO. _____

STATE COUNTY PERMIT
47 017 3504

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

LOCATION: ELEVATION 1093' WATER SHED LEFT FORK
DISTRICT WEST UNION 8 COUNTY DODDRIDGE

SURFACE OWNER JAMES A. GAIN ACREAGE 55 OF 71
OIL & GAS ROYALTY OWNER JAMES P. GAIN LEASE ACREAGE 200
LEASE NO. 13767

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 5350' *6-6 Straight Fork - Bluestone Creek (133)*
WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
ADDRESS ONE PARK RIDGE CENTER 147 ADDRESS RT. 2, BOX 698
PITTSBURGH, PA 15224 BRIDGEPORT, WV 26330

COUNTY NAME

PERMIT

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SEP 22 1986



DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date September 11, 1986
Operator's Well No. 2571
Farm Gaines, James
API No. 47 - 017 - 3504

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1093 Watershed Left Fork
District: West Union County Doddridge Quadrangle West Union

COMPANY CNG Development Company
ADDRESS P. O. Box 15746
Pittsburgh, PA 15244
DESIGNATED AGENT Gary A. Nicholas
ADDRESS Rt. 2 Box 698
Bridgport, WV 26330
SURFACE OWNER James A. Gain
ADDRESS Route 1
West Union, WV 26456
MINERAL RIGHTS OWNER James A. Gain
ADDRESS Route 1
West Union, WV 26456
OIL AND GAS INSPECTOR FOR THIS WORK
Mike Underwood Rt. 2, Box 114
Address Salem, WV 26426
PERMIT ISSUED June 16, 1986
DRILLING COMMENCED Aug. 19, 1986
DRILLING COMPLETED Aug. 24, 1986

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	220	220	To Surf.
9 5/8			
8 5/8	1561	1561	To Surf.
7			
5 1/2			
4 1/2	5346	5346	775 sks
3			
2 1-1/2	5118	5118	-----
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5350 feet
Depth of completed well 5368 feet Rotary / Cable Tools
Water strata depth: Fresh 390 feet; Salt
Coal seam depths: 520 - 524 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5175-5138 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 919 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 150 psig (surface measurement) after 1 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

SEP 29 1986

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

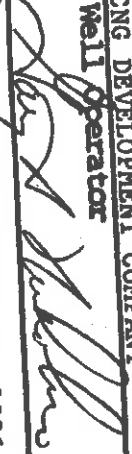
Perf. Alexander 5175 - 5178, 7 holes; 5158 - 5163, 9 holes; 5138 - 5148, 18 holes, .39 HSC

Foam Frac (70Q) Alexander - Breakdown 1650, Bailout with 50 Perf Balls @ 3500# 17 BPM
AVG TPSI 3000, Avg Rate 25 BPM, HHP used 1414, ISI 1500, 5 min 1350, used 500 gals
15% HCL & 10,000# 80/100 Sand & 135,000# 20/40 Sand and 840,000 SCFN₂, 7# Max Sand Conc.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale & RR			0	520	Coal 520 - 524
Coal			520	524	
Sand, Shale & RR			524	1857	1/4" stream water @ 40'
Lime			1857	1910	
Lime & Injun Sand			1910	1999	
Sand, Shale & RR			1999	5368	TD
<u>ELECTRIC LOG TOPS</u>					
Big Lime			1848	1898	
Big Injun			1898	1996	
Greenbrier Unconf.			1996	--	
Weir			2146	2252	
Berea			2354	2358	
Gordon			2564	2595	
Bayard			2862	2882	
Warren			3237	3265	
Speechley			3780	3796	
Balltown			4002	4030	
Bradford			4410	4450	
Riley			4776	4798	
Benson			4858	4907	
Leopold			4990	5004	
Alexander			5114	5191	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator
By: 
Date: September 11, 1986

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including sand, encountered in the drilling of a well."



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MAY 20 1986

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

- 4) WELL TYPE: A Oil Gas B (If "Gas", Production Undergrnd storage Deep Shallow
 Elevation: 1093 Watershed: Left Fork
 District: West Union County: Doddridge Quadrangle: West Union
 5) LOCATION: 670
 6) WELL OPERATOR: Development Co. CODE: 1010 7) DESIGNATED AGENT: Gary Nicholas
 Address: Paul W. Garrett, P.O. Box 15746 Address: Crosswind Corporate Park
 Pittsburgh, PA 15244 Rt. 2, Box 698, Bridgeport, WV 26330
 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name: Mike Underwood
 Address: Route 2, Box 114 P.O. Box 48
 Salem, WV 26426 Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill deeper Plug off old formation Perforate new formation Stimulate

Other physical change in well (specify):

11) GEOLOGICAL TARGET FORMATION: Alexander

12) Estimated depth of completed well, 5350 feet

13) Approximate true depths: Fresh, 4288 feet; salt, 4130 feet.

14) Approximate coal seam depths: 0252 feet; Is coal being mined in the area? Yes No

15) CASING AND TUBING PROGRAM Permit # 3104

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	For drilling	Left in well		
Conductor							
Fresh water	1-3/4	H-40	42	X		To surface	By Rule 15-05
Coal							
Intermediate	8-5/8	X-42	23	X	1550	To surface	By Rule 15-05
Production	4-1/2	J-55	10.5	X	5350	200 - 400	Depths set
Tubing	1-1/2	CN-55	2.75	X			By Rule 15-01
Lin...							Perforations:
							Top
							Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3504

Date June 16 1986

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires June 16, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <i>AS</i>	Flat: <i>AS</i>	Casing Fee: <i>13997</i>	WPCP Fee: <i>AS</i>	S&E Fee: <i>AS</i>	Other: <i>AS</i>
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NOTE: Keep one copy of this permit posted at the drilling location.

Paul Johnston
Director, Division of Oil and Gas
See the reverse side of the APPLICANT'S COPY for instructions to the well operator.
Margaret J. Shan

JUL 21 1993
Permitting
Office of Oil & Gas

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

Well Operator's Report of Well Work

Farm name: GAIN, JAMES A. Operator Well No.: CNGP 2571W

LOCATION: Elevation: 1,093.00 Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE
Latitude: 9980 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 10225 Feet West of 80 Deg. 45 Min. Sec.

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

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD
Permit Issued: 06/22/93
Well work Commenced: 06/30/93
Well work Completed: 07/06/93
Verbal Plugging
Permission granted on: _____ Rig
Rotary Cable _____
Total Depth (feet) _____
Fresh water depths (ft) NA

Salt water depths (ft) NA

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

OPEN FLOW DATA

Balltown
Speechley

Producing formation Gordon

Gas: Initial open flow NA MCF/d Oil: Initial open flow NA Bbl/
Final open flow *1.342 MMCF/d Final open flow NA Bbl/
Time of open flow between initial and final tests _____ Hour
Static rock Pressure 655 psig (surface pressure) after 84 Hour

Second producing formation _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/
Final open flow _____ MCF/d Final open flow _____ Bbl/
Time of open flow between initial and final tests _____ Hour
Static rock Pressure _____ psig (surface pressure) after _____ Hour

Turn Back in Line 7/6/93

3780-3786
3215-3370
2566-2594

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

*Commingled production

For: CNG PRODUCING COMPANY
Rodney J. Biggs, Manager

Reviewed IMG
Recorded _____

BY: [Signature]
Date: July 15, 1993

JUL 30 1993

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
NO ADDITIONAL CASING RAN			
REMOVED TUBING AND DID NOT RERUN			

Perforated Balltown 3780-3786, 18 holes, .39" HSC
 Speechley 3215-3370, 23 holes, .39" HSC
 Gordon 2566-2594, 25 holes, .39" HSC

Frac - 25# Gel

Breakdown	1820	1980	2970
Ave. HHP	2000	1700	2860
Ave. Rate	27	25	26
Ave. Pres.	3000	2760	1800
Max. Tr. Pres.	3400	3100	2900
Total Acid	500	500	500
Total Sand	33000	45000	25000
Total Fluid	599	639	387
S.L. Fluid	335	459	264
ISIP	1500	1100	2050
5-min	1250	1000	1700
Total N2	59500	59500	51600
Max Sand Conc.	3#/gal	3#/gal	3#/gal

DP -424

DP1-439

TD 5322

18321

06/13/93

017-3504-Frac
Issued 06/22/93
Page of
Expires 06/22/95

FORM WW-2B

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

1) Well Operator: CNG Producing Company / 0/10 (8) 670
2) Operator's Well Number: CNGP 2571W 3) Elevation: 1093'

Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage
Deep / Shallow

17381

Proposed Target Formation(s): Balltown/Speechley/Gordon

Proposed Total Depth: 3787/3372/2596 feet

Approximate fresh water strata depths: _____

8) Approximate salt water depths: _____

9) Approximate coal seam depths: _____

10) Does land contain coal seams tributary to active mine? Yes No

11) Proposed Well Work: Lay down tubing. Set Frac Plug below the intervals. Perf and Frac Zones. Clean well up. Drill plugs out. Run Tubing. Commingle production.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	13-10"			220	220	To Surface
Fresh Water						
Coal						
Intermediate	8 5/8"			1561	1561	To Surface
Production	4 1/2"			5346	5346	775 sks.
Tubing	1 1/2"			5118	5118	---
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

008010
Fee(s) paid: WV-9 Well Work Permit Reclamation Fund WPCP
Plat WV-2B Bond Justin Blumfeld Agent

For Division of Oil and Gas Use Only

1) Date: 5-11-93
2) Operator's well number
CNGP 2571W
3) API Well No: 47 - 017 - 3504-FRAC
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name James A. Gain 5) (a) Coal Operator:
Address Route 1 Name _____
West Union, WV 26456 Address _____
(b) Name _____ (b) Coal Owner(s) with Declaration
Address See attached Name _____
Address _____ Address _____
(c) Name _____ Name _____
Address _____ Address _____

6) Inspector Mike Underwood (c) Coal Lessee with Declaration
Address Rt. 2, Box 135 Name _____
Salem, WV 26426 Address _____
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 Producing Company
By: Rodney J. Biggs *[Signature]*
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 11th day of May, 1993

Nancy D. Colton Notary Public
My commission expires September 26, 1993

017-3504

CNGP WELL NO. 2571W

COAL OWNER(S) WITH DECLARATION ON RECORD

James A. Gain
Rt. 1
West Union, WV 26456

Louie Barker
c/o James A. Gain
Route 1
West Union, WV 26456

Harrison Ritchie Oil & Gas Co.
c/o Union National Bank
Trust Department
P. O. Box 2330
Clarksburg, WV 26301

Nellie Stuart and
Arnold Stuart (son)
1219-162 Burham Drive
San Marcos, CA 92069

Heirs of George Gain
c/o Madelyn Willis
404 Court Street
West Union, WV 26456

