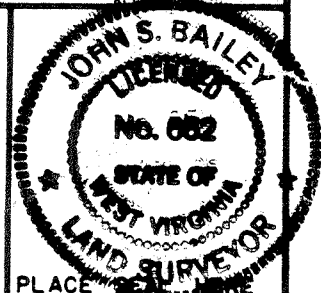


FILE NO. MSES84-524
 DRAWN BY PJD
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION INT. CO. RTS. 9 & 9/9
850' SW OF LOC. - EL. 1562'

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 MINES.
 (SIGNED) John S. Bailey
 R.P.E. _____ L.L.S. 652



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



Department of Mines
 Oil & Gas Division

DATE OCTOBER 10, 1984
 OPERATOR'S WELL NO. CNGD 1389
 API WELL NO. 47-091-0462
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS", PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X)
 LOCATION: ELEVATION 1628.9' WATER SHED SCAB RUN
 DISTRICT KNOTTSVILLE COUNTY TAYLOR
 QUADRANGLE THORNTON 6357.5' 1958 (1976) 415'SW
 SURFACE OWNER CHARLES N. & BETTY J. GOUGH 122 ACRES 68
 OIL & GAS ROYALTY OWNER CHARLES N. & BETTY J. GOUGH LEASE ACREAGE 65
 LEASE NO. 75684
 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 HAVERTY ESTIMATED DEPTH 5690'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
PITTSBURGH, PA 15219 BRIDGEPORT, WV 26330

FEB 11 1985

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



Well Operator's Report of Well Work

Farm name: Charles Gough

Operator Well No.: CNGP 1389W

LOCATION: Elevation: 1628.9'

Quadrangle: Thornton 7.5'

District: Knottsville
Latitude:
Longitude

County: Taylor
39 Deg. 20' 00"
79 Deg. 57' 30"

Company: CNG PRODUCING CO., A DEL. CORP.
1450 POYDRAS ST.
NEW ORLEANS, LA 70112

Agent: RODNEY J. BIGGS

Inspector:
Permit Issued:
Well work Commenced: 04-13-94
Well work Completed: 04-26-94
Verbal Plugging
Permission granted on: _____
Rotary _____ Cable _____ Rig
Total Depth (feet) 5587'
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.
No Additional casing ran in well.			

OPEN FLOW DATA

Producing formation Keener Pay zone depth (ft) 1634 - 1644'
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow * 335 MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 385 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 CO. A DELAWARE CORP.
By: Rodney J. Biggs, District Manager - Production
Date: 05-17-94

MAY 20 1994 MAY 22 1994

5-18-94

PERFORATED KEENER, 20 shots, 1634 - 1644

WATER FRAC:

Total Fluid	460 bbls	25# gel
Total Sand	5,000 80/100	35,000 20/40
Total Acid	750 gal.	15%
Ave. Rate	21 BPM	
Ave. Press	1660#	
Max. Sand	4 ppg	
Frac Grade	1.2	
Br. Form.	2400	ISIP - 1270

TURN WELL BACK IN LINE 04-26-94

18785-



IV-35
(Rev

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APR 5 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date March 14, 1985
Operator's
Well No. CNGD WN 1389
Farm Charles Gough
API No. 47 - 091 - 0462

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1628.9 Watershed Scab Run
District: Knottsville County Taylor Quadrangle Thornton 7.5' 1958

COMPANY CNG Development Company
ADDRESS P.O.Box 15746, Pittsburgh, PA 15244
DESIGNATED AGENT Gary A. Nicholas
ADDRESS Rt. 2 Box 698, Bridgeport, WV 26330
SURFACE OWNER Charles N. & Betty J. Gough
ADDRESS Rt. 2 Box 140, Keyser, WV 26726
MINERAL RIGHTS OWNER Charles N. & Betty J. Gough
ADDRESS Rt. 2 Box 140, Keyser, WV 26726
OIL AND GAS INSPECTOR FOR THIS WORK
Donald Ellis ADDRESS 2604 Crab Apple Lane Fairmont, WV 26554
PERMIT ISSUED 2-5-85
DRILLING COMMENCED 2-12-85
DRILLING COMPLETED 2-20-85

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	967	967	To Surf
7			
5 1/2			
4 1/2	5718	5718	760 sks
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Haverty Depth 5690 feet

Depth of completed well 5861 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 800 feet; Salt _____ feet

Coal seam depths: 228 - 230
715 - 720 Is coal being mined in the area? No
780 - 785

OPEN FLOW DATA
Producing formation Haverty Pay zone depth 5534 - 5539
3rd Elk 5182 - 5277
Benson 4479 - 4482 feet
Gas: Initial open flow Riley Mcf/d Oil: Initial open flow 4163 - 4250 Bbl/d
Final open flow 1163 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 400 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

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

Perfco ran Corrlog & CBL, Perforated Haverty 1st Stage 5534-5539; 12 holes (.39) 2-1/8" strip gun Halliburton Foam Frac (50Q) Haverty Sand - Break 3150, Avg. TPSI 3800, Avg. Rate 16 BPM, ISI 2950. Used 500 gals MOD 202 + 35,000# 20/40 Sand + 338,000 SCFN2, 3# Max Sand Conc.. Perfco Perf. 3rd Elk 5275-5277, 3 holes, 5235-5237, 2 holes, 5207-5211, 3 holes, 5182-5184, 2 holes (.39) HSC Select Fire. Halliburton Foam Frac (50Q) 3rd Elk Sand - Break 3800, Avg. TPSI 3800, Avg. Rate 16 BPM, ISI 2900, used 500 gals MOD 202 + 35,000# 20/40 Sand + 390,000 SCFN2. 2# max Sand Conc. Perfco Perf. Benson 4479-4482 10 holes, (.39) HSC Halliburton Foam Frac (75Q) Benson Sand - Break 3800, Avg. TPSI 3750, Avg. Rate 16 BPM, ISI 2700, used 500 gals MOD 202 + 40,000# 20/40 Sand + 480,000 SCFN2, 3# Max Sand Conc. Perfco Perf. Riley 4242-4250, 7 holes, 4163-4165, 2 holes (.39) HSC Select Fire. Halliburton Foam Frac (75Q) Riley Sand - Break 1900, Avg. TPSI 3100, Avg. Rate 20 BPM, ISI 1700, used 500 gals MOD 202 + 40,000# 20/40 Sand + 370,000 SCFN2.

WELL LOG

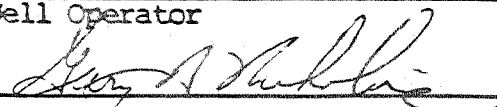
FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	5	Coal 228 - 230 780 - 785
Sand & Shale			5	228	
Coal			228	230	
Sand & Shale			230	780	
Coal			780	785	
Sand & Shale			785	1275	
Lime & Shale			1275	1305	
Big Lime			1305	1355	
Red Rock			1355	1370	
Big Injun			1370	1450	
Sand & Shale			1450	5861	
<u>LOG TOPS</u>					
See Attached Sheet					

(Attach separate sheets as necessary)

CNG Development Company

Well Operator

By:



Date: March 14, 1985

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 coal, encountered in the drilling of a well."

CNGD WELL NO. 1389

FARM NAME Charles Gough

API NO. 47-091-0462

LOG TOPS

B.LIME/B. INJ.	1510	1704
POCONO	1798	1838
GANTZ/GANTZ A	1982	2040
50'	2098	2127
GORD. ST/GORD.	2242	2378
4TH/4TH A	2390	2496
5TH/L. 5TH	2506	2633
SPEECHLEY	3239	3280
BALLTOWN	3400	3540
BRADFORD	3714	3820
RILEY	4144	4343
BENSON	4474	4483
1ST ELK	4710	4760
2ND ELK	4860	5102
3RD ELK	5113	5292
4TH ELK	5362	5462
HAVERTY	5516	5610

TD. 5861

Branner @ TD

APR 15 1985

APR 15 1985

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 Division of
 Environmental Protection

FORM WW-2B

MAR 08 94

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

Office of Oil & ~~Gas~~ WELL WORK PERMIT APPLICATION

091-0462-W

Issued 03/24/94

Page of

Expires 03/24/96

18785

Well Operator: CNG Producing Company ¹⁴⁶ (6) 638

Operator's Well Number: CNGP 1389 3) Elevation: 1628.9

Well type: (a) Oil or Gas

(b) If Gas: Production Underground Storage
 Deep Shallow

Proposed Target Formation(s): Keener Sand ³⁵⁵

- 6) Proposed Total Depth: 1632 feet *original TD. 5861* *original formation*
- 7) Approximate fresh water strata depths: Behind Casing *Horvath*
- 8) Approximate salt water depths: Behind Casing *3rd Elk*
- 9) Approximate coal seam depths: Behind Casing *Duncan*
- 10) Does land contain coal seams tributary to active mine? Yes No *Riley*
- 11) Proposed Well Work: Squeeze Cement to Cover Keener Interval
- Perforate and Frac Zone. Clean Well up and Commingle Production
- 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	40		
Coal						
Intermediate	8 5/8"	X-42	23	969	969	To Surf.
Production	4 1/2"	J-55	10.5	5718	5718	760 sks.
Tubing						
Liners						

Expanding from well records

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)

01201
 7

51

Office of Oil & Gas

1) Date: February 23, 1994
2) Operator's well number CNGP 1389
3) API Well No: 47 - 091 - 0462 - w
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>Mr. & Mrs. Charles N. Gough</u>
Address <u>Rt. 2, Box 140</u>
<u>Keyser, WV 26726</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</p> <p>Name <u>Eastern Associated Coal Corp.</u>
Address <u>800 Laidley Tower</u>
<u>P.O. Box 1233, Charleston, WV 25324</u></p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____
Address _____</p> |
| <p>6) Inspector <u>Phillip Tracy</u>
Address <u>Rt. 2, Box 37-A</u>
<u>Montrose, WV 26283</u>
Telephone (304)- <u>636-8798</u></p> | |

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
_____ 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)
- _____ 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.

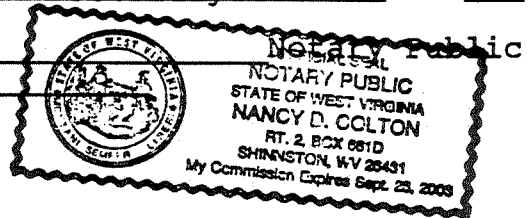
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, 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: [Signature]
Its: Designated Agent
Address Rt. 2 Box 698
Bridgeport, WV 26330
Telephone (304) 623-8840

Subscribed and sworn before me this 23 day of February, 19 94

Nancy D. Colton
My commission expires September 26, 2003



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7-83



1) Date: December 20, 19 84
2) Operator's Well No. 1389
3) API Well No. 47 - 091 - 0462
State County Permit

JAN - 7 1985

OIL & GAS DIV.
DEPT. OF MINES

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

- 4) WELL TYPE: A Oil _____ / Gas X /
B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1628.9' Watershed: Scab Run
District: Knottsville County: Taylor Quadrangle: Thornton 7.5' 1958
- 6) WELL OPERATOR CNG Development Company
Address c/o Paul W. Garrett, P.O. Box 15746
Pittsburgh, PA 15244 10110
- 7) DESIGNATED AGENT Mr. Gary Nicholas
Address Crosswind Corporate Park
Rt. 2, Box 698, Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mr. Donald Ellis
Address 2604 Crab Apple Lane
Fairmont, WV 26554
- 9) DRILLING CONTRACTOR:
Name Sam Jack Drilling Company
Address P.O. Box 48
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
Plug off old formation _____ / Perforate new formation _____
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Haverty
- 12) Estimated depth of completed well, 5690 feet
- 13) Approximate trata depths: Fresh, 135, 180, 300 feet; salt, _____ feet.
- 14) Approximate coal seam depths: 130, 205, 280, 565, Is coal being mined in the area? Yes _____ / No X /
- 15) CASING AND TUBING PROGRAM 870

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.			For drilling	Left in well		
Conductor	11-3/4	H-40	42	X					Kinds
Fresh water	11-3/4	H-40	42	X		40	40	To Surface	By Rule 15.05
Coal									Sizes
Intermediate	8-5/8	X-42	23	X		950	950	To Surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X		5690	5690	200-400 sks	Depths set
Tubing	1-1/2	CN-55	2.75	X					By Rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-091-0462

February 5, 19 85
Date

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 February 5, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>28</u>	Agent: <u>MW</u>	Plat: <u>MN</u>	Casing: <u>MW</u>	Fee: <u>006-053</u>
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Margaret J. Hass
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File