

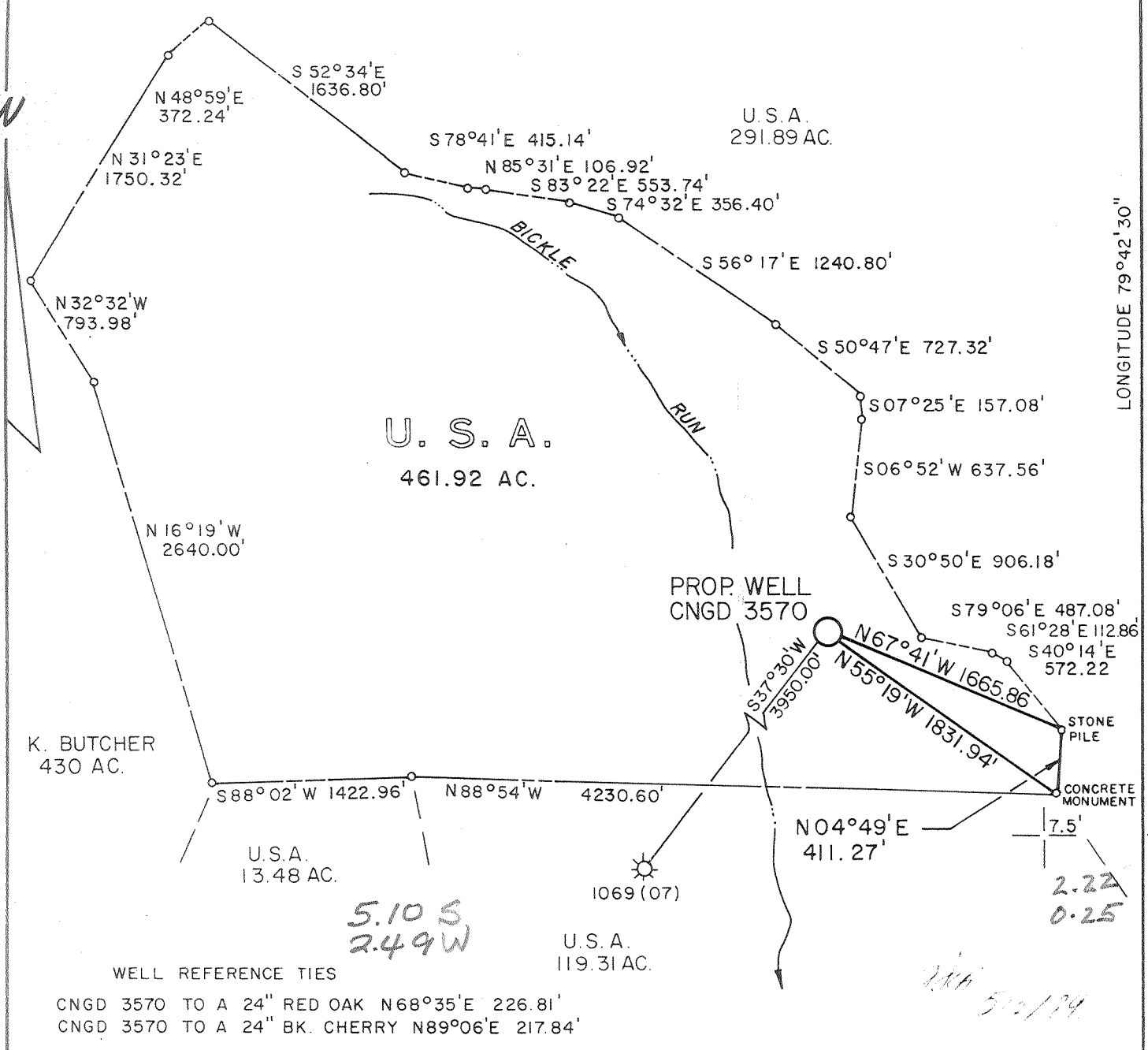
1,325'

(---) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

LATITUDE 38°57'30"

LONGITUDE 79°42'30"

11,725'



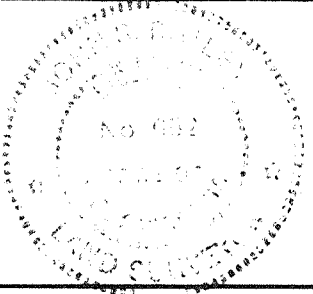
WELL REFERENCE TIES

CNGD 3570 TO A 24" RED OAK N68°35'E 226.81'
CNGD 3570 TO A 24" BK. CHERRY N89°06'E 217.84'

MSES consultants, inc.
 FILE NO. MSES 89-886
 DRAWN BY JSB/VSH
 SCALE 1" = 1000'
 MIN. DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION:
ROAD INTERSECTION SE OF PROP.
 LOCATION ELEV. 2897'

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) J. S. Bailey
 R.P.E. _____ L.L.S. 652



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE FEBRUARY 15, 19 89
 OPERATOR'S WELL NO. CNGD 3570
 API WELL NO. 47 - 083 - 1097
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2863.70' WATERSHED BICKLE RUN OF SHAVERS FORK
 DISTRICT BEVERLY COUNTY RANDOLPH
 QUADRANGLE BOWDEN 7.5' Horton NW NEAREST TOWN BOWDEN
 SURFACE OWNER U.S.A. ACREAGE 461.92
 OIL & GAS ROYALTY OWNER J.M. COBERLY LEASE ACREAGE 458.68
 LEASE NO. DV 25670

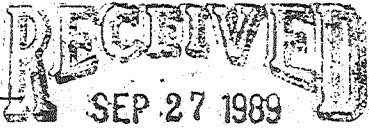
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG **OCT 6 1989**

TARGET FORMATION ORISKANY ESTIMATED DEPTH 7650'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT RODNEY J. BIGGS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS CROSSWIND CORPORATE PARK
P.O. BOX 15746 ROUTE 2 BOX 698
PITTSBURGH, PA. 15244 BRIDGEPORT, WV 26330

FORM IV - 6

138334

6-6 Bowden (376)



Page 1 of
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: May 10, 1989
2) Operator's well number
CNGD 3570
3) API Well No: 47 - 083 - 1097
State - County - Permit

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 Forest Supervisor
Address Monongahela National Forest
200 Sycamore Street, ~~XXXXXX~~, Elkins, WV
(b) Name 26241
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name _____
Address _____
- (b) Coal Owner(s) with Declaration
Name Jerry M. & Mary C. Coberly
Address 6840 Holter Road
Middletown, MD 21769
Name _____
Address _____
- 6) Inspector Phillip Tracy
Address Rt. 2, Box 37-A
Montrose, WV 26283
Telephone (304)- 636-8798
- (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:

- X 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 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 10 day of May, 1989

[Signature]
My commission expires 5/21/90

NOTARIAL SEAL
SHEILA L. MURICH, NOTARY PUBLIC
FINDLAY TOWNSHIP, ALLEGHENY COUNTY
MY COMMISSION EXPIRES MAY 21, 1990

WR-35
RECEIVED
MAR 26 1990

27-Sep-89
API # 47- 83-01097

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

DIVISION OF OIL & GAS Well Operator's Report of Well Work
DEPARTMENT OF ENERGY

Farm name: MONONGAHELA NAT'L FOREST Operator Well No.: CNGD 3570

LOCATION: Elevation: 2863.00 Quadrangle: BOWDEN

District: BEVERLY County: RANDOLPH
Latitude: 11725 Feet South of 38 Deg. 57Min. 30 Sec.
Longitude 1325 Feet West of 79 Deg. 42 Min. 30 Sec.

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

Agent: RODNEY J. BIGGS

Inspector: PHILLIP TRACY
Permit Issued: 09/27/89
Well work Commenced: 10/21/89
Well work Completed: 11/06/89
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 7674
Fresh water depths (ft) 165'

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.
13 3/8	40	40	To Surf.
9 5/8	2154	2154	To Surf.
5 1/2	7629	7629	250 sks
2 3/8	7408	7408	----

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 7474-7503
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 5.061 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 2450 psig (surface pressure) after 24 Hours

Second producing formation Chert Pay zone depth (ft) 7191-7256 KB
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 2.0M MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1200 psig (surface pressure) after 1 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 DEL. CORP.

By: Rod Biggs
Date: March 15, 1990

APR 06 1990

Perforated Oriskany 7474 - 7484, 30 shots; 7490 - 7503, 65 shots.
 Broke Formation @ 3200#. Pump Acid with 4000 gal 15% HCL and 386 bbl of water,
 pumped 986 bbl 40# X-link, 10 ton CO₂, Total Sand 52 sks 80/100, 616 sks 20/40.
 Ave Rate 21 BPM, Ave Pres 4016, Ave HHP 2104.

Red Clay	0	10	1" stream water @ 165'
Sand	10	35	
B. Lime	35	425	
SD & Sh	425	7674	

Perforated Chert 7191 - 7256, 84 shots, .49 HSC

Acid Job - Breakdown 3050#, Pumped 8000 gal 28% Acid, Ave. Pres. 1500# on Tubing,
 3000# on Annulus, Max. Pres. 1900# Tubing, 3600# Annulus, ISIP 1750#

LOG TOPS

Tully	6058	7035
U. Marcellus	7035	7072
Purcell	7072	7125
L. Marcellus	7125	7150
Onondaga	7150	7179
Huntersville Chert	7179	7312
Needmore Shale	7312	7351
Oriskany	7351	7530
Helderberg	7530	

RECEIVED
 MAR 26 1990

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY