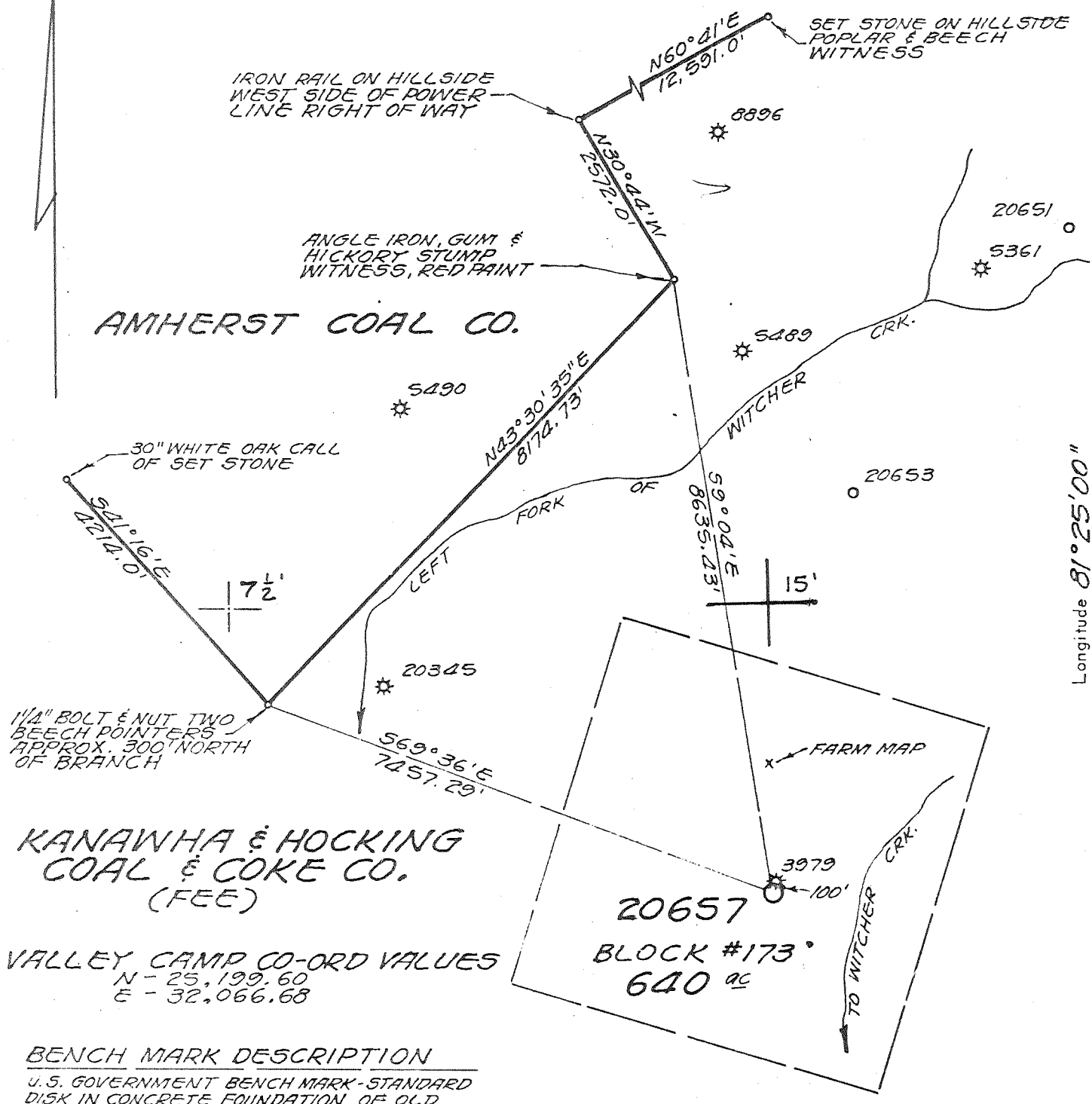


70
June 5/19/88

11,950'
Latitude 38°17'30"

53

9,600'
Longitude 81°25'00"



VALLEY CAMP CO-ORD VALUES
 N - 25,199.60
 E - 32,066.68

BENCH MARK DESCRIPTION
 U.S. GOVERNMENT BENCH MARK - STANDARD
 DISK IN CONCRETE FOUNDATION OF OLD
 BUILDING 35' SOUTH OF MINE ENTRANCE
 LEFT FORK OF WITCHER CREEK
 ELEVATION 902.0'

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA
 Minimum degree of accuracy is one part in 200

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

Signed [Signature]
 REG. LAND SURVEYOR #16236 E (PA.)
 BOX 1273 CHARLESTON, W.VA.

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W.VA.
 Farm KANAWHA & HOCKING COAL & COKE CO.
 Lease 9279 Acres 14,128
 Well Farm No. _____ Ser. No. 20657
 Elevation - Spirit Level 1372.22'
 Quadrangle QUICK, W.VA. 7 1/2 CLENDENIN 15'
 Township or District CABIN CREEK
 County KANAWHA
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LAT. 38°15'55" LONG. 81°27'30"
 File No. 70-53 Dwg. No. _____
 Date 6-3-80 Scale 1" = 2000'

FORM 1495 CE 4 CSD (REV. 11-78)
 COLUMBIA GAS SYSTEM
 COLUMBIA GAS TRANSMISSION CORPORATION
 WELL LOCATION MAP
 STATE OF WEST VIRGINIA
 (+) Denotes Values of Well On United States Topographic Maps
 039-3645 - P
 Scale 15' 7-1/2'
 MAY 20 1988
 7225' TUSCARORA

IRON RAIL ON HILLSIDE
WEST SIDE OF POWER
LINE RIGHT OF WAY

SET STONE ON HILLSIDE
POPULAR & BEECH
WITNESS

ANGLE IRON, GUM &
HICKORY STUMP
WITNESS, RED PAINT

AMHERST COAL CO.

OBIS 75' loc 15'
39°17'30" 1.75s 4.63s
81°25' 2.16w 2.16w

30" WHITE OAK CALL
OF SET STONE

1/4" BOLT & NUT TWO
BEECH POINTERS
APPROX. 300' NORTH
OF BRANCH

**KANAWHA & HOCKING
COAL & COKE CO.
(FEE)**

VALLEY CAMP CO-ORD VALUES
N - 25,199.60
E - 32,066.68

BENCH MARK DESCRIPTION

U.S. GOVERNMENT BENCH MARK - STANDARD
DISK IN CONCRETE FOUNDATION OF OLD
BUILDING 35' SOUTH OF MINE ENTRANCE
LEFT FORK OF WITCHER CREEK
ELEVATION 902.0'

"I, the undersigned, hereby certify that this map is correct to the best of my knowl-
edge and belief and shows all the information required by the rules and regulations
of the oil and gas section of the mining laws of WEST VIRGINIA
Minimum degree of accuracy is one part in 200

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

Signed [Signature]
REG. LAND SURVEYOR #16236 E (PA.)
BOX 1273 CHARLESTON, W.VA.

Company COLUMBIA GAS TRANS. CORP.
Address BOX 1273 CHARLESTON, W.VA.
Farm KANAWHA & HOCKING COAL & COKE CO.
Lease 9279 Acres 10.128
Well Farm No. _____ Ser. No. 20657
Elevation - Spirit Level 1372.22'
Quadrangle QUICK, W.VA. 7 1/2' CLendenin 15' SW
Township or District CABIN CREEK
County KANAWHA
Sec., Lot, Qr. _____ T _____ R _____
Coordinates LAT. 38°15'55" LONG. 81°27'30"
File No. 70-53 Dwg. No. _____
Date 6-3-80 Scale 1" = 2000'

FORM 1485 CE & CSO
(REV. 11-78)

COLUMBIA GAS SYSTEM
COLUMBIA GAS TRANSMISSION CORPORATION
WELL LOCATION MAP
STATE OF WEST VIRGINIA

(+) Denotes Values of Well On
United States Topographic Maps

039-3645
Scale 15' 7-1/2'

7225' TUSCARORA



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

FEB 18 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Quadrangle Quick

Permit No. 47-039-3645

Rotary X Oil _____
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Columbia Gas Trans. Corp.
Address P. O. Box 1273, Charleston, W. Va.
Farm Kan. & Hocking Coal & Coke Acres 14, 128
Location (waters) Witcher Ck.
Well No. 20657 Elev. 1372.22
District Cabin Ck. County Kanawha
The surface of tract is owned in fee by _____
Kanawha & Hocking Coal & Coke
Address 700 Westgate Tower, Cleveland, Ohio
Mineral rights are owned by Same
Address _____
Drilling Commenced 11/29/80
Drilling Completed 1/20/81
Initial open flow - cu. ft. _____ bbls.
Final production 1,180,000 ft. per day _____ bbls.
Well open 6 hrs. before test 1440 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	643'	643'	475 sks.
9 5/8	2585'	2585'	750 sks.
8 5/8			
7	5690	3250	200 sks.
5 1/2			
4 1/2 - 5851	7223	7223	170 sks.
3			
2 - 5982	7124	7124	Set on Packer
Liners Used			

Well treatment details:

Attach copy of cementing record.

580 BBL 30# Versa Gel System; 1000 gal. 15% HF Acid treated @ Avg. 4300 psig @ 2 ppg 20/40 sd. (total sand 28,200#)

Coal was encountered at 330 Feet _____ Inches
Fresh water _____ Feet _____ Salt Water 1240 Feet _____
Producing Sand Clinton Depth 7198 7098?

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	19		
Sand & SH			19	330		
Coal			330	333		
SD & SH			333	623		
Coal			623	628		
SD & SH			628	960		
Sand			960	984		
SD & SH			984	1179		
Salt SD			1179	1617		Wet @ 1240'
Shale & SD			1617	1793		
Mason			1793	1850		
Little Lime			1850	1960		
Pencil Cave			1960	1970		
Big Lime			1970	2150		
Injun			2150	2183		
Shale			2183	2195		
Weir			2195	2240		
SD & SH			2240	2288		

(over)

* Indicates Electric Log tops in the remarks section.

OVER →

MAR 01 1982

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
2nd Weir			2288	2392		
SD & SH			2392	2560		
Berea			2560	2570		
Shale			2570	5560		
Ondndaga Lime			5560	5660		
Oriskany			5660	5700	Show of gas	
Lime & Dol.			5700	6328		
Newburg			6328	6346		
Dol.			6346	6600		
Keefer			6600	6640		
Rose Hill			6640	7018		
Tuscarora			7018	7098		
Juniata			7098	7196		
<u>Shale</u>			7196	7245	T.D.	

Date 2-4, 19 82

APPROVED _____, Owner

By SS Freund
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

AUG 18 1980

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE August 18, 1980

Surface Owner Kanawha & Hocking Coal & Coke

Company Columbia Gas Transmission Corporation

Address 700 Westgate Tower, Cleveland, OH

Address P. O. Box 1273, Charleston, WV

Mineral Owner Same as above

Farm Kanawha & Hocking Coal & Coke 14,128

Address

Location (waters) Witcherd Creek

Coal Owner Same as above

Well No. 20657 Elevation 1372.22'

Address

District Cabin Creek County Kanawha

Coal Operator Valley Camp Coal Co.

Quadrangle Quick

Address 2971 Dupone Ave., Shrewsbury, WV

PERMIT MUST BE POSTED AT THE WELL SITE

Operations being in accordance with Chapter 22, the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5-5-81.

INSPECTOR TO BE NOTIFIED Martin Nichols
ADDRESS P. O. Box 554, Clendenin, WV
PHONE 548-6993

[Signature]
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 1-1 1943 by Kanawha & Hocking Coal & Coke made to United Fuel Gas Company and recorded on the --- day of --- 19-- in Kanawha County, Book 95 Page 65

X NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address --- day --- before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours,
(Sign Name) *[Signature]*
Well Operator
P. O. Box 1273
Street
Charleston
City or Town
West Virginia
State

Address of Well Operator

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-039-3645

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 5, Section 12-b and will carry out the specified requirements."

Signed by *[Signature]*
Manager, Drilling

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME Larry Friend
 ADDRESS _____ ADDRESS P. O. Box 610, Clendenin, WV
 TELEPHONE _____ TELEPHONE 965-3317
 ESTIMATED DEPTH OF COMPLETED WELL: 7225' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Tuscarora
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT.
20 - 16	60'		
13 - X 3/8	650'		To surface
9 - 5/8	2650'		To surface
8 - 5/8			To surface
7	5600'		
5 1/2			
4 1/2	7225'		
3			
2			Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? Yes BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

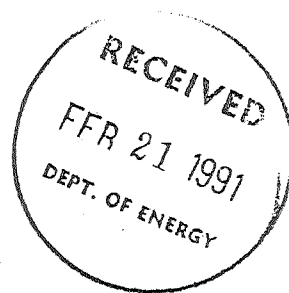
The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title



AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Coal Operator or Owner

Columbia Natural Resources, Inc.

Name of Well Operator

Address

P. O. Box 6070, Charleston, WV 25362

Complete Address

Coal Operator or Owner

February 19 19 91

WELL AND LOCATION

Address

Cabin Creek District

Lease or Property Owner

Kanawha County

Address

WELL NO. 20657

Kanawha & Hocking Coal & Coke Co. Farm

STATE INSPECTOR SUPERVISING PLUGGING Carlos Hively

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Kanawha

ss:

R. Schindler

and L. L. Friend

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Columbia Natural Resources, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 2nd day of June 19 88, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
Set Plug & Packer @ 7130'	Permanent Plug @ 7130'			
7060'	Cut tbg., circ. hole w/gel			
7060'-5060'	Cement plug 200'			
4400'	Cut 4-1/2" csg.	2-3/8"	7060'	
3700'	Perf. 4 holes in 7" csg.		4400'	
	Run 2-3/8" tbg. w/2-3/8X7" packer			
4450'-4300'	Spot Latex cement plug			
3700'-3200'	Cir. hole w/cement behind 7"			
3700'-3200'	Cement plug in 7" - 500'			
2490'-2390'	Cement plug - 100'			
2200'-1900'	Cement plug - 300'			
800'- 700'	Cement plug - 100'			
	6% Gel between all cmt. plugs			
Coal Seams				
(Name)				
(Name)				
(Name)				
(Name)				
		Description of Monument		
		Vented monument 700'-36" above surface.		

3/1/91

and that the work of plugging and filling said well was completed on the 8th day of June, 19 88.

And further deponents saith not.

Sworn to and subscribed before me this 19 day of February, 19 91.

L. L. Friend
Stephen M. ...
Notary Public

My commission expires: May 25, 1998

Permit No. 039-3645-P