

Latitude  $38^{\circ}17'30''$   
 (15')  $38^{\circ}20'$

SET STONE ON HILLSIDE  
 POPLAR & BEECH WITNESS

FARM MAP  
 N60°41'E  
 12,591.0'

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

AMHERST COAL CO.

ANGLE IRON, GUM  
 & HICKORY STUMP  
 POINTERS, RED PAINT

5490

N43°30'35"E  
 8174.73'

30" WHITE OAK  
 CALL OF SET STONE

S41°16'E  
 2,212.0'

N70°13'E  
 8620.74'

20325

1/4" BOLT & NUT, 2 BEECH  
 POINTERS APPROX. 300'  
 NORTH OF BRANCH

KANAWHA & HOCKING  
 COAL & COKE CO.  
 (FEE)

BLOCK #157  
 640 AC

VALLEY CAMP CO-ORD VALUES  
 N - 30,722.90  
 E - 33,207.51

**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  
 ELEV. 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

12/21/81

Signed: *[Signature]*  
 REG. LAND SURVEYOR N° 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 AC  
 Well Farm No. \_\_\_\_\_ Ser. No. 20653  
 Elevation - Spirit Level 1381.46'  
 Quadrangle QUICK, W. VA. 7 1/2 CLENDENIN 15  
 Township or District CABIN CREEK  
 County KANAWHA  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates LAT. 38°16'48" LONG. 81°27'15"  
 File No. 70-53 Dwg. No. \_\_\_\_\_  
 Date 5-30-80 Scale 1" = 2000'

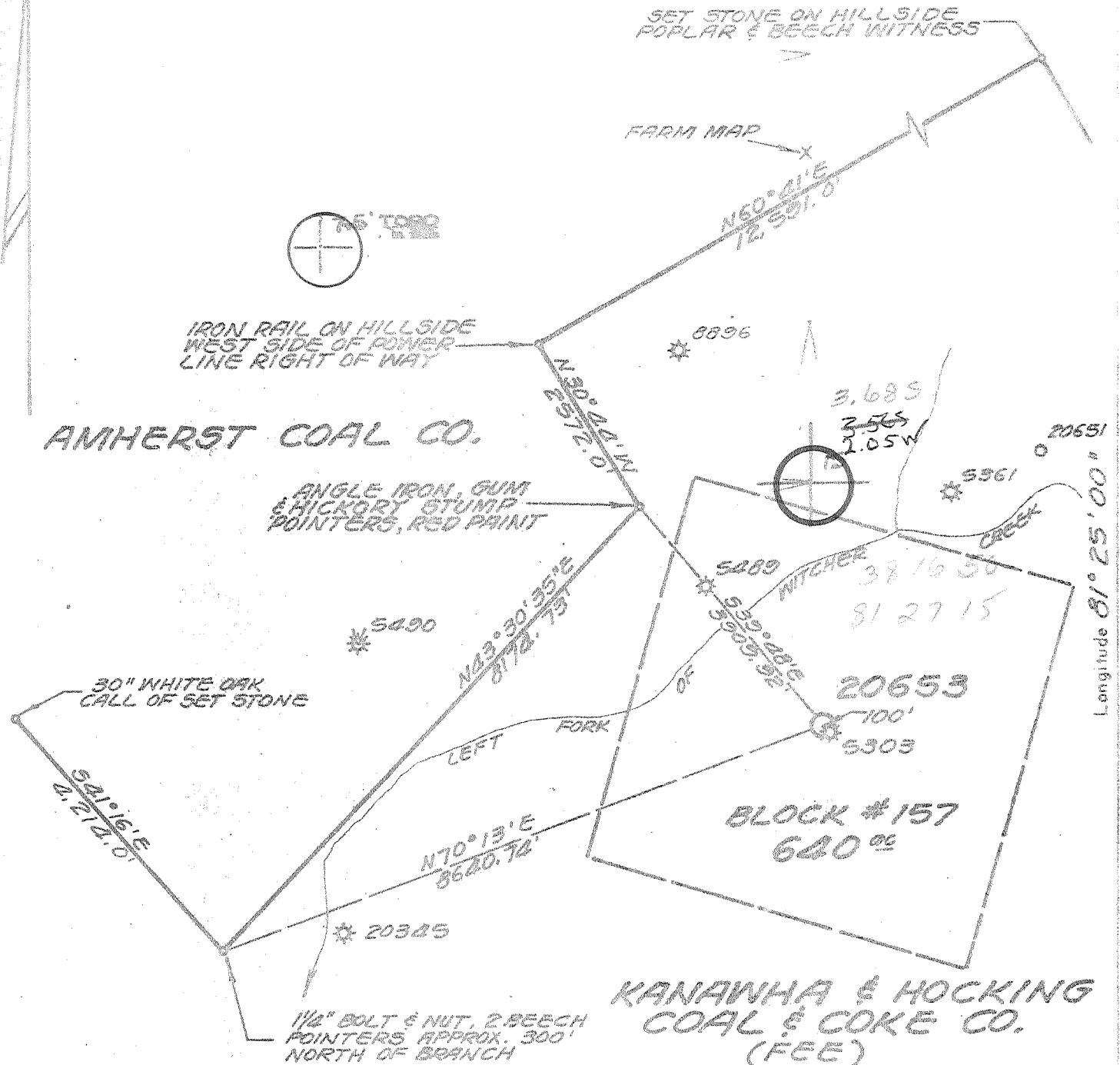
FORM 1495 CE 4 CSD  
 (REV. 11-78)

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

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

**039-3646 - P**  
 Scale 15'  7-1/2'

7300 TUSCARORA  
 JAN 27 1982



**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 ELEV. 902.0'

**VALLEY CAMP CO-ORD VALUES**

N - 30,722.90  
E - 33,207.51

"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 No 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 12.128 ac  
 Well Farm No. \_\_\_\_\_ Ser. No. 20653  
 Elevation - Spirit Level 1381.06'  
 Quadrangle QUICK, W. VA. TO CLENDENIN 15' SW  
 Township or District CABIN CREEK  
 County KANAWHA  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates LAT. 38°16'08" LONG. 81°27'15"  
 File No. 70-53 Dwg. No. \_\_\_\_\_  
 Date 5-30-80 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  
 039-3646  
 Scale 15'  7-1/2'   
 7300 TUSCARORA SEP 6 1980

DEEPWELL 6-0

CAMPBELL CR (MALDEN)  
Indian Creek Pool (258)

214



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Quick  
Permit No. 47-039-3646

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company Columbia Gas Trans. Corp.  
Address P. O. Box 1273, Charleston, W. V.  
Farm Kan. & Hocking Coal & Coke Acres 14,128  
Location (waters) Witchers Ck.  
Well No. 20653 Elev. 1381.46  
District Cabin Ck. County Kanawha  
The surface of tract is owned in fee by \_\_\_\_\_  
Kan. & Hocking Coal & Coke  
Address 700 Westgate Tower, Cleveland, Oh.  
Mineral rights are owned by Same  
Address \_\_\_\_\_  
Drilling Commenced 1/24/81  
Drilling Completed 3/10/81  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production Show of Gas cu. ft. per day \_\_\_\_\_ bbls.  
Well open 24 hrs. before test 460 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond.			
13-10" 13"	545	545	375 sks.
9 5/8	2565	2565	825 sks.
8 5/8			
7	5689	3160	200 sks.
5 1/2			
4 1/2	7111	1580	160 sks.
3			
2			
Liners Used			

Well treatment details:  
1000 gal. mud acid - 870 bbl treatment

Attach copy of cementing record.

567 sks. 20-40 sd.  
40# gel system (cross-linked); screened-out @ 5000 psig

Coal was encountered at 248 Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water 1180 Feet \_\_\_\_\_  
Producing Sand Clinton Depth 7075-7185

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
SD & SH			0	248		
Coal			248	254		
SD & SH			254	412		
Coal			412	418		
SD & SH			418	565		
Sh & Lime			565	750		
Sand			750	1141		
Salt Sand			1141	1230	Salt Water @ 1180'	
SH			1230	1285		
Salt Sand			1285	1498		
SH & SD			1498	1750		
Maxon			1750	1890		
Lime			1890	2520		
Berea			2520	2550		
Shale			2550	5480		
Lime - <u>ONONDAGA?</u>			5480	5581		
Onondaga			5581	5644		
SH			5644	6301		
Newburg			6301	6338		

**RECEIVED**  
JAN 12 1982  
OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

(over)

\* Indicates Electric Log tops in the remarks section.

JAN 27 1982

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
SD & SH			6338	6644		
Sand - <i>KEEPER</i>			6644	6698		
Rosehill SH			6698	7075		
<u>Clinton SD</u>			7075	7185		
Shale			7185	7240		Gas Show @ 7112
TD			7240			

Date Jan 7, 1982

APPROVED J. J. Freund, Owner

By Senior Engineer  
(Title)

300 P.S. MAIL



RECEIVED

AUG 18 1980

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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  
Address 700 Westgate Tower, Cleveland, OH  
Mineral Owner Same as above  
Address \_\_\_\_\_  
Coal Owner Same as above  
Address \_\_\_\_\_  
Coal Operator Valley Camp Coal Co.  
Address 2971 Dupont Ave., Shrewsbury, WV

Company Columbia Gas Transmission Corp.  
Address P. O. Box 1273, Charleston, WV  
Farm Kanawha & Hocking Coal & Coke 14,128  
Location (waters) Left Fork of Witchers Creek  
Well No. 20653 Elevation 1381.46  
District Cabin Creek County Kanawha  
Quadrangle Quick

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of 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 19 43 by Kanawha & Hocking Coal & Coke to United Fuel Gas Company and recorded on the --- day of --- 19---, in Kanawha County, Book 95 Page 65

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

Address  
of  
Well Operator

Very truly yours,  
(Sign Name) [Signature]  
Well Operator  
P. O. Box 1273  
Street  
Charleston  
City or Town  
West Virginia 25325  
State

\*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

47-039-3646

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by [Signature]  
Manager, Drilling

[Handwritten mark]

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: 7300' 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 PUT UP OR SACKS - CUBIC FT.
20 - 16	60'		
13 - <del>XX</del> 3/8	650'		To surface
9 - 5/8	2650'		To surface
8 - 5/8			To surface
7	5650'		
5 1/2			
4 1/2	7300'		
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

