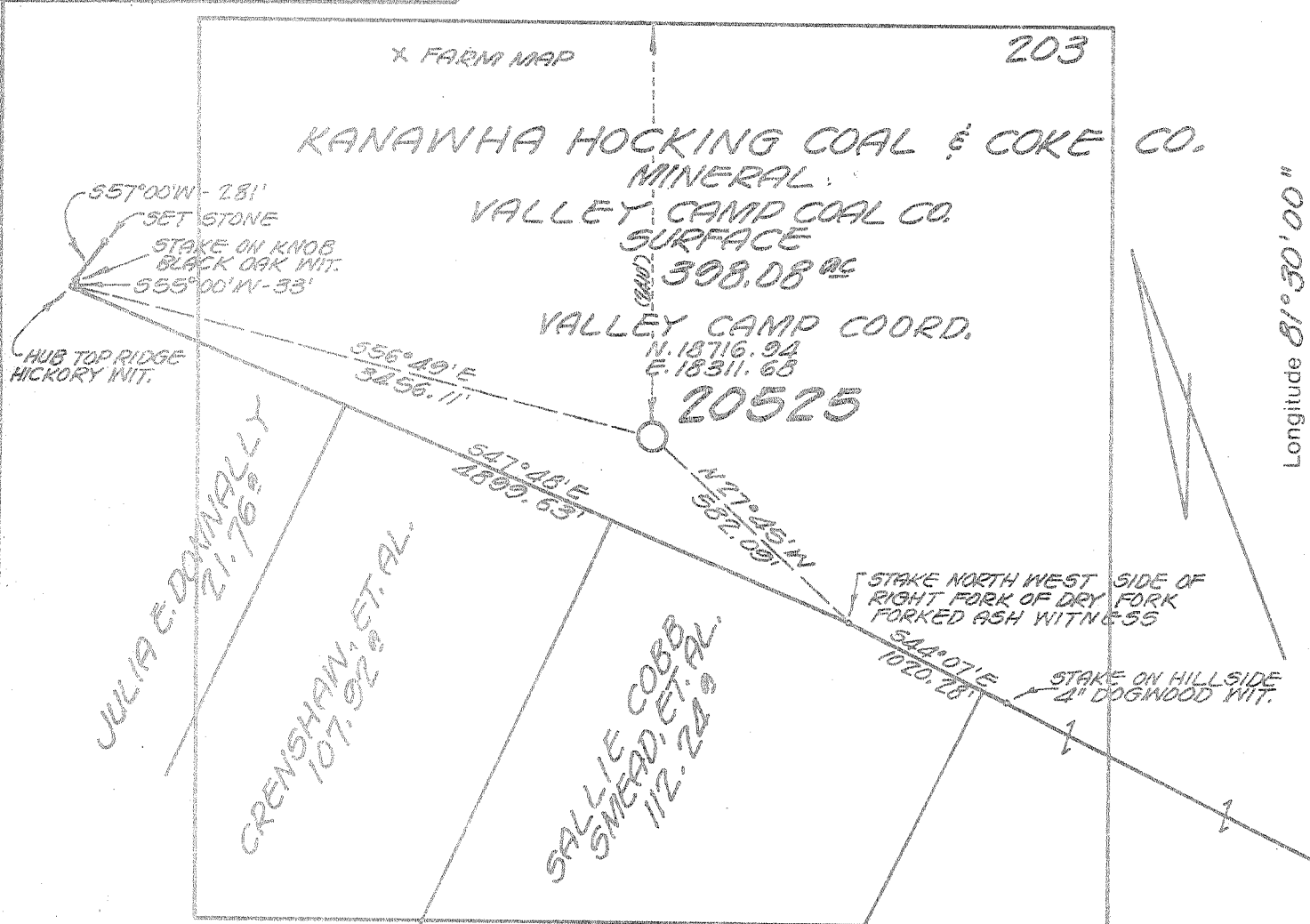


Latitude $38^{\circ}15'00''$

S 018
W 036

0.175
0.34 W



Longitude $81^{\circ}30'00''$

BENCH MARK DESCRIPTION

U.S.G.B.M. STANDARD TABLET STAMPED
8 JUS 1956 700 2.6 MILES N.E. JUNCTION
OF WITCHER CREEK ROAD & U.S. 60 & 21
AT JUNCTION OF LEFT & RIGHT FORK
OF WITCHER CREEK.

COAL NOTE

OWNED & OPERATED BY VALLEY
CAMP COAL COMPANY (NOT OPERATED
AT LOCATION SITE).

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

"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

ENGR. REG. NO 2330
BOX 1273 CHARLESTON, W.VA.

Signed *[Signature]*

Company COLUMBIA GAS TRANS CORP.
Address BOX 1273 CHARLESTON, W.VA.
Farm KANAWHA & HOCKING COAL & COKE CO.
Lease 9279 Acres 12128
Well Farm No. 108 Ser. No. 20525
Elevation - Spirit Level 1422.61' NE
Quadrangle BELLE 7 1/2 PEYTONA 15'
Township or District CABIN CREEK
County KANAWHA
Sec., Lot, Qr. _____ T _____ R _____
Coordinates LAT. 38°12'50" LONG. 81°30'23"
File No. 68-51 Dwg. No. _____
Date 3-31-77 Scale 1" = 1000'

WELL LOCATION MAP

STATE OF WEST VIRGINIA

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

47-039-3404

Scale 15' 7 1/2'

Deep Well
6-6 Indian Creek (358)

MAY 23 1974



RECEIVED

FEB 23 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Cable Tools
Storage

WELL RECORD

Quadrangle.....

Permit No. 47-039-3404

Oil or Gas Well Gas (KIND)

Company Columbia Gas Transmission Corp.
Address P.O. Box 1273 Charleston, WV 25304
Farm Kanawha Hacking Coal & Coke Acres 14,128
Location (waters) Witcher Creek
Well No. 20525 Elev. 1422.61
District Cabin Creek County Kanawha
The surface of tract is owned in fee by Valley Camp Coal Co.
Address Shrewsbury, WV 25184
Mineral rights are owned by Kanawha Hacking Coal & Coke
Address Cleveland, Ohio 44100

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"	120.70	120.70	
9-5/8"	2468	2468	Size of
8 7/8"	5630	5630	
6 1/2"			Depth set
5 3/16"			
4 1/2"	7062	7062	
3"			Perf. top 7022
2"			Perf. bottom 7036
Liners Used			Perf. top
			Perf. bottom

Drilling commenced May 19, 1979
Drilling completed June 22, 1979
Date Shot From To
With

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) 3000 gallons Hydrofluoric Acid & 1470 gallons of water
WELL FRACTURED (DETAILS) 23,000# of 20/40 Sand, 667 bbl. of Fluid, 115,000 cu.ft. Nitrogen

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags) See Attached Record
Name of Service Co. Halliburton Services
COAL WAS ENCOUNTERED AT 490 FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 15% Side Static - 18 MMCF
ROCK PRESSURE AFTER TREATMENT 1680 HOURS 6
Fresh Water Feet Salt Water 1060 - 1675 Feet
Producing Sand Clinton Depth 7022 - 7036

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand Rock			0	125			
Sand			125	160			
Shale			160	490			
Coal			490	495			
Sand			495	1060			
Salt Sand			1060	1675			
Maxon			1675	1725			
Red Rock			1725	1830			
Little Lime			1830	1870			
Big Lime			1870	2118			
Injun Sand			2118	2200			
Weir			2200	2488			
Berca			2488	2492			
Shale			2492	5465			
Lime			5465	5548			
Sand			5548	6366			
Shale			6366	6884			
Lime			6884	6894			
Shale			6894	6968			
Clinton			6968	7059			

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's 108-5-
Well No. -20525

API Well No. 47 - 039 - 340
State County Permi

WELL TYPE: Oil / Gas X /
(If "Gas", Production / Underground storage / Deep X / Shallow /)
LOCATION: Elevation: 1422.61 Watershed: Witcher Creek
District: Cabin Creek County: Kanawha Quadrangle: Belle

WELL OPERATOR Columbia Gas Transmission Corp.
Address P. O. Box 1273
Charleston, WV 25325

DESIGNATED AGENT J. R. Henning
Address P. O. Box 1273
Charleston, WV 25325

OIL & GAS ROYALTY OWNER Kanawha Hocking Coal & Coke
Address 700 Westgate Tower
Cleveland, Ohio 44100
Acreage

COAL OPERATOR Unoperated
Address

SURFACE OWNER Valley Camp Coal Company
Address 2971 Dupont Avenue, East
Shrewsbury, WV 25184
Acreage

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name Kanawha Hocking Coal & Coke
Address 700 Westgate Tower
Cleveland, Ohio 44100

FIELD SALE (IF MADE) TO:
Name
Address

Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Martin Nichols
Address P. O. Box 554
Clendenin, WV 25045

COAL LESSEE WITH DECLARATION ON RECORD:
Name Valley Camp Coal Company
Address 2971 Dupont Avenue, East
Shrewsbury, WV 25184

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated April 24, 1972, to the undersigned well operator from

[If said deed, lease, or other contract has been recorded:]

Recorded on , 19 , in the office of the Clerk of the County Commission of Kanawha County, West Virginia, in Deed Book 20 at page 311. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /

APR 30 1979 Other physical change in well (specify)

OIL & GAS DIVISION
DEPT. OF MINES

planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

COLUMBIA GAS TRANSMISSION CORPORATION
Well Operator

BLANKET BOND

By J. R. Henning
Its Director, Exploration & Development

[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Ray Resources Corp.

Address 630 Commerce Square
Charleston, WV 25301

GEOLOGICAL TARGET FORMATION, Clinton

Estimated depth of completed well, 6920 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, _____ feet; salt, _____ feet:

Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	20"			X		30'		To surface	Kinds
Fresh water	13-3/8	H-40	48#	X		160'		To surface	
Coal	9-5/8	H-40	32.3#	X		2490'		To surface	Sizes
Intermediate	7"	N-80	23#	X		5420'			
Production	4-1/2	C-75	13.5#	X		6920'			Depths set
Tubing	2-3/8	J-55	4.6#	X		6920'			
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 1-9-80.

[Signature]
Deputy Director of Oil & Gas Division

The following matter must be completed by the coal operator and by any other owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____

By _____

Its _____