

■ COAL OWNED BY VALLEY CAMP COAL CO  
NOT OPERATED AT LOCATION SITE  
X FARM MAP

REVISION: 7/19/83  
REVISION: 9/28/82  
REVISION: 3/5/82

FILE NO 68-51  
DRAWING NO 20527  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1 PART IN 200'  
PROVEN SOURCE OF ELEVATION U.S. GOVT B.M. NEAR MO DRY BR EL. 610'

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: Lloyd C. Hart  
R.P.E. \_\_\_\_\_ L.L.S. 99



(-) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-B  
(1878) LAT: 38° 13' 53"  
LONG: 81° 30' 29"



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

DATE 2-23-10-82  
OPERATOR'S WELL NO. 20527  
API WELL NO. 47-039-3978-P  
STATE COUNTY PERMIT

WELL TYPE OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION ELEVATION 770' WATERSHED WITCHER CREEK  
DISTRICT CABIN CREEK COUNTY KANAWHA  
QUADRANGLE BELLE, W VA  
SURFACE OWNER KANAWHA & HOCKING C & C CO. ACREAGE 10, 120  
OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 640 AC. UNIT  
LEASE NO 9279  
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   
TARGET FORMATION TUSCARORA ESTIMATED DEPTH 6955'  
WELL OPERATOR COL GAS TRANS CORP DESIGNATED AGENT JR WEEKLEY  
ADDRESS CHARLESTON W VA ADDRESS SAME  
251 S. 12TH

MAY 7 1984

DEEP WELL



2300'

9-23-82 68

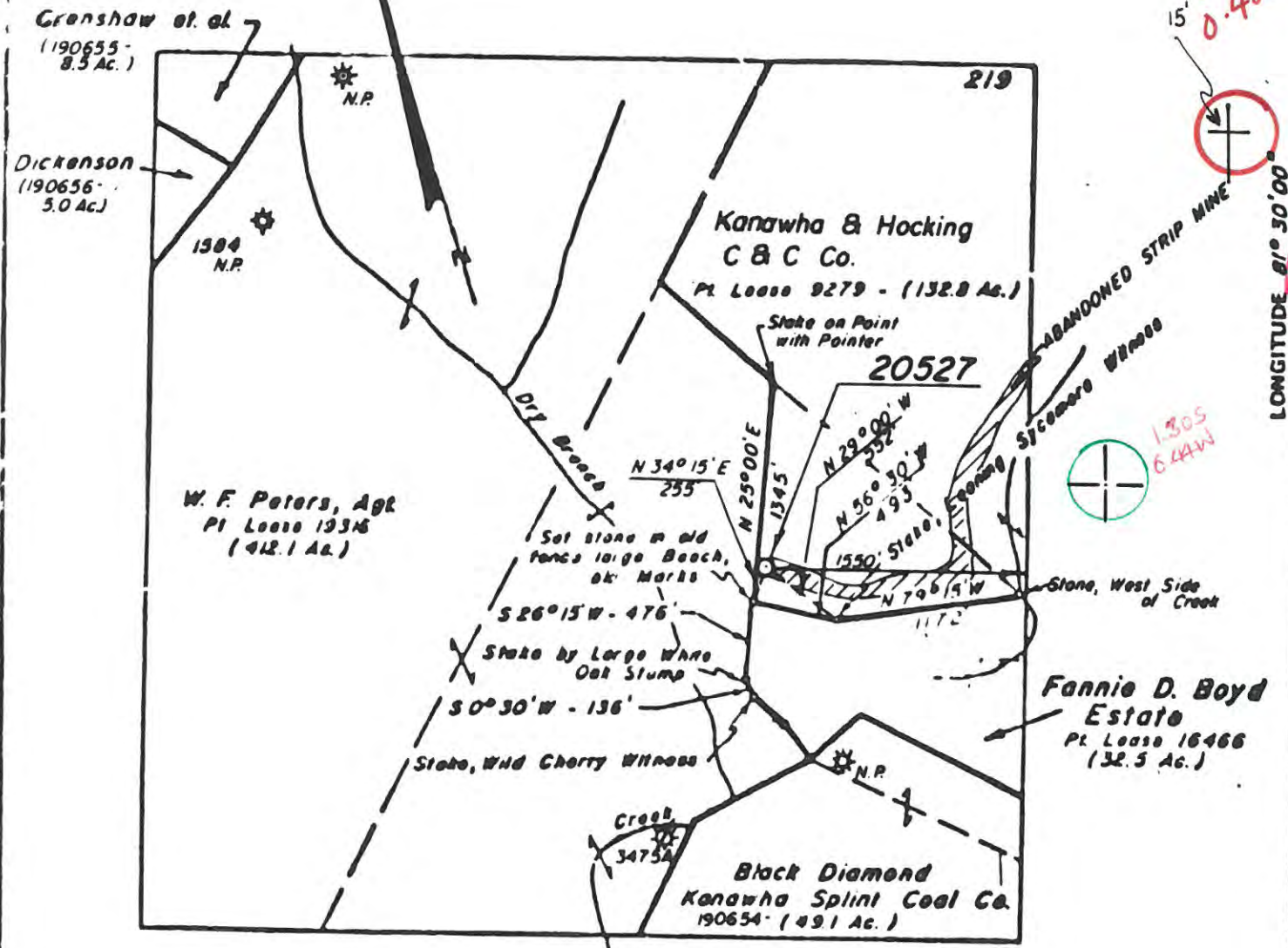
Plot of Card 68

LATITUDE 38° 15' 00"

1.305  
0.42W  
15'

LONGITUDE 81° 30' 00"

51



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 FORM IV-B  
 (878) LAT: 38° 13' 53"  
 LONG: 81° 30' 29"



DATE 2-23 19 82  
 OPERATOR'S WELL NO. 20527  
 API WELL NO. 47-039-3978  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION ELEVATION 770' WATERSHED WITCHER CREEK  
 DISTRICT CABIN CREEK COUNTY KANAWHA  
 QUADRANGLE BELLE, W VA Peytona 15' NE  
 SURFACE OWNER KANAWHA & HOCKING C & C CO. ACREAGE 14, 120  
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 640 AC. UNIT  
 LEASE NO. 9279  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPEN  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 TUSCARORA ESTIMATED DEPTH 6999'  
 WELL OPERATOR COL GAS TRANS CORP DESIGNATED AGENT JR WEEKLEY  
 ADDRESS CHARLESTON W VA ADDRESS SAME

DEEP WELL G-6 Indian Creek (858)



RECEIVED

APR 2 1 1984

OIL & GAS DIVISION  
DEPT. OF MINES



IV-35  
(Rev 8-81)

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 4/16/84  
Operator's  
Well No. 20527  
Farm Kan Hocking  
API No. 47 - 039 - 3978

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 \_\_\_ /)

LOCATION: Elevation: 770' Watershed Witcher Creek  
District: Cabin Creek County Kanawha Quadrangle Belle

COMPANY Columbia Gas Transmission Corp.  
ADDRESS P. O. Box 1273, Charleston, WV  
DESIGNATED AGENT J. L. Weekley  
ADDRESS P. O. Box 1273, Charleston, WV  
SURFACE OWNER Kanawha Hocking Coal & Coke  
ADDRESS -  
MINERAL RIGHTS OWNER Kan. Hocking Coal & Coke  
ADDRESS -  
OIL AND GAS INSPECTOR FOR THIS WORK Jerry  
Holcomb ADDRESS Hamlin, WV  
PERMIT ISSUED 8/23/83  
DRILLING COMMENCED 9/7/83  
DRILLING COMPLETED 10/2/83  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON \_\_\_\_\_

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20- <del>26</del> Cond.	30'	30'	To surface 45 cu. ft.
13-10"	404'	404'	Surface 398' cu.ft
9 5/8	2054	2054	Surface 925 cu. ft
8 5/8			
7	5130	Liner 3254	4647'-5147' 175 cu. ft
5 1/2			
4 1/2	6472	6472	5480-5000 164 cu.ft.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Clinton Depth 6490 feet  
Depth of completed well 6522 feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 25' feet; Salt 595 feet  
Coal seam depths: - Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA

Producing formation Clinton Pay zone depth 6495 feet  
Gas: Initial open flow 28 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 185 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure 1540 psig (surface measurement) after 72 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

MAY 7 1984

(Continue on reverse side)

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

Open Hole Completion; Acidized with 2000 gal. MSR Acid with 6% HF Acid

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Undiff sand/shale/coal			0	720	
Salt Sand			720	930	
Maxon Sand			1110	1170	
Greenbrier Ls			1310	1560	
Injun Sand			1560	1600	
Weir Sand			1830	1860	
Berea Sand			2000	2060	
D. Shale			2060	4900	
Onandaga Ls			4900	4980	
Oriskany SS			4980	5050	
Helderberg Ls			5050	5240	
Tonoloway Ls			5240	5340	
Salina Fn			5340	5580	H <sub>2</sub> S
Wills Ck. Ls			5580	5730	
Williamsport SS			5730	5760	H <sub>2</sub> O
Lockport Pol			5760	5880	
Niagara Ls			5880	5950	
Keefer SS			5950	6000	
Rose Hill Shale			6000	6400	
Tuscarora SS			6400	6530	H <sub>2</sub> O
				TD	

(Attach separate sheets as necessary)

Well Operator  
 By: *J. Weekly*  
 Date: *4-19-84*

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 those encountered in the drilling of a well."





1) Date: August 12, 1983  
 2) Operator's Well No. 20527  
 3) API Well No. 47 - 039 - 3978  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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 X / Shallow \_\_\_\_\_ /)
- 5) LOCATION: Elevation: 770' Watershed: Witcher Creek  
 District: Cabin Creek County: Kanawha Quadrangle: Belle
- 6) WELL OPERATOR Columbia Gas Trans. Corp. 7) DESIGNATED AGENT J. L. Weekley  
 Address P. O. Box 1273 Address P. O. Box 1273  
Charleston, WV 25325 Charleston, WV 25325
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Craig Duckworth Name Ray Resources  
 Address P. O. Box 454 Address 2101 E. Wash. St.  
Mt. Lookout, WV Charleston, WV
- 10) PROPOSED WELL WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Tuscarora
- 12) Estimated depth of completed well, 6460' feet  
 13) Approximate strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_

15) 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		
Conductor	20"			X		60'	60'	To surface Kinds
Fresh water	13-3/8"			X		400'	400'	To surface By Rule 15-05
Coal	9-5/8"			X		1950'	1950'	To surface Sizes
Intermediate	7"			X		5100'		
Production	4-1/2"			X		6460'	140 Skgs	Depths set OR AS REQ by Rule 15-01
Tubing								Perforations:
Liners								Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-039-3978 Date August 23 1983

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 August 23, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <b>BLANKET BOND</b>	Agent:	Plat:	Casing:	Fee: <u>4000</u> <u>25.75</u>
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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.



FORM WR-38  
(Affidavit of Plugging)

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS WELLS DIVISION



AFFIDAVIT OF PLUGGING AND FILLING WELL  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, 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.

Kanawha Valley Bank - Fannie Boyd Estate  
Coal Operator or Owner  
Charleston, WV 25326  
Address

Columbia Gas Transmission Corporation  
Name of Well Operator

P. O. Box 1273, Charleston, WV 25325  
Complete Address

March 17 19 87

Coal Operator or Owner  
Address

WELL AND LOCATION  
Cabin Creek District

Lease or Property Owner  
Address

Kanawha County

WELL NO. 20527  
Address Fannie Boyd Estate Farm

STATE INSPECTOR SUPERVISING PLUGGING Jerry Holcomb

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Kanawha ss:

Michael Friend and Robert Schindler

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 Gas Transmission Corp., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 4th day of May, 19 84, 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
6522' - 6322'	Cement			
6322' - 4900'	Gel			
4900' - 4895'		Mechanical Plug		
4895' - 4695'	Cement w/latex			4910' of 4 1/2"
4695' - 1950'	Gel			
1950' - 1750'	Cement			
1750' - 750'	Gel			
750' - 650'	Cement			
650' - 250'	Gel			
250'		Bridge Plug Cement		
250' - 0				
Coal Seams				
(Name)				
(Name)				
(Name)				
(Name)				
Description of Monument				
30" of 7" casing with inscription				

and that the work of plugging and filling said well was completed on the 17th day of May, 19 84.  
And further deponents saith not.

Michael Friend  
R.E. Schindler  
Sworn to and subscribed before me this 26th day of March, 19 87.  
Larry J. Powell  
Notary Public

My commission expires: August 13, 1989  
Permit No. 47-039-3978 APR 13 1987

