

COAL NOTE
 COAL LEASED TO MARRONBONE DEVELOPMENT CORP. NOT OPERATED.

BENCH MARK DESCRIPTION
 STANDARD U.S.G.S. DISK SET VERTICALLY IN SOUTHWEST FACE OF LARGE EMBEDDED BOULDER 120' EAST OF & 3' HIGHER THAN E JUNCTION OF ROAD AT MOUTH OF NESSER BRANCH OF ANTLEY BRANCH. STAMPED 118 FWP 1959 786. ELEVATION: 786.03'

REVISED 8-22-77

"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

5/1/79
 ENGR. REG. NO. 2330
 BOX 1273 CHARLESTON, W.VA.

Signed *Adrian S. [Signature]*

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W.VA.
 Farm HUNTINGTON REALTY CORP.
 Lease T-181213 Acres 6450
 Well Farm No. _____ Ser. No. 20500-T
 Elevation - Spirit Level 1092.54'
 Quadrange WILSONDALE, Naugatuck 15
 Township or District KERMIT
 County MINGO
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LAT: 37°53'01" LONG: 82°15'45"
 File No. 26-27 Dwg. No. _____
 Date 8-22-77 Scale 1"=400'

WELL LOCATION MAP
 STATE OF WEST VIRGINIA
 (+) Denotes Values Of Well On United States Topographic Maps
MING-879-P
 Scale 15' 7 1/2'
47-059

2000' West River



MAILED

JUN - 7 1979

B-1

OIL & GAS DIVISION
 STATE OF WEST VIRGINIA
 DEPT. OF MINES
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

- Rotary
 Spudder
 Cable Tools
 Storage

Quadrangle Wilsondale

Permit No. Ming-879

WELL RECORD

Oil or Gas Well Gas
 (KIND)

Company <u>Columbia Gas Transmission Corporation</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>P. O. Box 1273 - Charleston, WV</u>	Size			
Farm <u>Huntington Realty Co.</u> Acres <u>1450</u>	16			Kind of Packer.....
Location (waters) <u>Marrowbone Creek</u>	13 3/8	636'	636'	Size of.....
Well No. <u>20500-T</u> Elev. <u>1022.54'</u>	16 9 5/8	2576'	2576'	Depth set.....
District <u>Kermit</u> County <u>Mingo</u>	6 7/8	5892'	3277'	
The surface of tract is owned in fee by <u>Huntington Realty Co. 8 3/4</u>	5 3/16			Perf. top <u>See</u>
Address <u>625 6th Avenue</u>	4 1/2	8812'	2942'	Perf. bottom <u>Attached</u>
Address <u>Huntington, WV</u>	3			Perf. top <u>Sheet</u>
Mineral rights are owned by.....	2			Perf. bottom.....
Address.....	Liners Used			
Drilling commenced <u>July 15, 1978 - Oct. 30 '78 (DD)</u>				
Drilling completed <u>Aug. 26, 1978 - Nov. 9, '78 (DD)</u>				
Date Shot..... From..... To.....				
With.....				
Open Flow /10ths Water in..... Inch	Attach copy of cementing record.			
/10ths Merc. in..... Inch	CASING CEMENTED <u>9 5/8</u> SIZE <u>2576</u> No. Ft. <u>7-31-78</u> Date			
Volume..... Cu. Ft.	Amount of cement used (bags) <u>9-5/8-650-sks; 7"-425-cu. ft</u>			
Rock Pressure..... lbs..... hrs.	Name of Service Co. <u>Dowell</u>			
Oil..... bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT <u>10</u> FEET..... INCHES			
WELL ACIDIZED (DETAILS).....	<u>21.5</u> FEET..... INCHES..... FEET..... INCHES			
WELL FRACTURED (DETAILS) <u>See Attached Sheet</u> FEET..... INCHES..... FEET..... INCHES			
RESULT AFTER TREATMENT (Initial open Flow or bbls.) <u>Plug and Abandon</u>				
ROCK PRESSURE AFTER TREATMENT <u>-0-</u> HOURS.....				
Fresh Water..... Feet..... Salt Water..... Feet.....				
Producing Sand <u>None</u> Depth.....				

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	10			
Coal			10	24			
Sand/Shale			24	35			
Sand			35	61			
Shale			61	101			
Sand			101	215			
Coal			215	218			
Sand			218	245			
Shale			245	262			
Sand			262	392			
Shale			392	670			
Sand			670	865	Oil & Gas	773'	
Sand/Shale			865	912			
Sand			912	1160	Water	1160'	
Sand/Shale			1160	1358			
Sand			1358	1576			
Shale			1576	1628			
B. Lime			1628	1812			
Keener			1812	1852			
Injun			1852	1862			
Shale			1862	2460			
Berea			2460	2602			
Shale			2602	3848			
Corniferous			3848	4574			
Shale			4574	4928			
Clinton			4928	5056			
Martinsburg			5056	5850			
Trenton			5850	7524			
Wells Creek			7524	7808	Show of Gas @	8045'	

Formation	Color	Hard or Soft	Top ¹³	Bottom	Oil, Gas or Water	Depth Found	Remarks
Beekmantown T.D.			7808	8108	Water @	8060'	
Beekmantown			8108	8578	Gas Shows from Mud Loggers Unit		
Rose Run			8578	8608	@		
Copper Ridge			8608	8833	8130-32		
Drill Deeper	T.D. @		8833		8158		
					8256		
					8268		
					8282		
					8290		
					8298		
					8308		
					8312		
					8322		
					8353		
					8375		
					8385		
					8395		
					8558		
					8578-82		
					8602		
					8610		
					8698		
					8704-08		
					8750-62		
					8782		

Date June 5, 19 29
 APPROVED [Signature], Owner
 By [Signature]
 (Title)

RECEIVED

JUN - 7 1979

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STIMULATIONSCOPPER RIDGE

- 12-11-78 - Perforated from 8770-8780 (8 holes) OIL & GAS DIVISION
Spotted 500 gallons of 15% Acid. DEPT. OF MINES
Displaced Acid and over displaced with 8 bbls water.
- 1-11-79 Acidized with 2000 gallons of 28% Acid; flushed with
2000 gallons water.
- 1-15-79 13 day shut-in pressure - 1550 psig
6 hour Open Flow - 30 MCF

ROSE RUN

- 1-18-79 Perforated from 8580-8590 (21 holes)
8596-8598 (9 holes)
8599-8601 (13 holes)
Acid breakdown with 500 gallons of 15% Acid and 500 gallons
of 28% Acid and 4 bbls water.
- 1-30-79 Water fractured with 2100 gallons of 15% Acid, 22,134 total
gallons, 55 gallons of F-78, 500 lbs. of J-160, 15,000# 80/100
sand, and 12,500# 20/40 sand.
NO GAS

BEERMANTOWN

- 3-9-79 Perforated from 8498-8500 (8 holes)
8530-8532 (8 holes)
- 3-12-79 Acid breakdown with 12 bbls. of 28% Acid, 24 bbls. of
15% Acid, and 24 bbls. of water.
- 3-20-79 Perforated from 8378-8389 (7 holes)
8391-8395 (5 holes)
8416-8422 (7 holes)
Acid breakdown with 12 bbls. of 28% Acid and 24 bbls. water.
- 4-11-79 Cross-link gelled H₂O fractured with
2000 gallons of 28% Acid
31,820 total gallons
50 gallons of F-75
200# of J-266
1250# of J-345 NO GAS
40 gallons of J-318
99# of J-218
90# of L-10
30,000# 80/100 sand
14,900# 20/40 sand

Please Note - This Rig given Citation By
 D.N. Reviewer - officers on 4-12-79
 Steam Pollution after Last FPM.
 FORM IV-26 (Reverse) - Include To Report Well
 [08-78] *110 gpm pollutants*

Verbal permission given Dept. of Mines Decision.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 Date: 5-2-1979
 Operator's Well No. 20500+
 API Well No. -7-059-0879P
 State County Permit

INSPECTOR'S WELL REPORT
 ON
 PLUGGING

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection ___ / Waste Disposal ___
 (If "Gas", Production ___ / Underground storage ___ / Deep Shallow ___)
 LOCATION: Elevation: 1092 Watershed: Munroe / Big River
 District: Kanawha County: Mingo Quadrangle: Wallensboro
 WELL OPERATOR Columbia Gas DESIGNATED AGENT Joe Campbell
 Address Charleston, W.Va Address Charleston, W.Va
 PLUGGING CONTRACTOR Appalachian Drilling Co. SERVICE COMPANIES (NAMES ONLY)
 Address Charleston, W.Va Dowell
McCaulough

PERMITTED WORK: Plug and abandon Clean out and replug ___

PLUGGING MATERIALS

Type of Cement	Other Materials	Depth	Thickness	Thickness
Col Seal			8680 - 8670	10'
	gell		8670 - 8550	120'
Col Seal			8550 - 8540	10'
	gell		8540 - 5915	2535'
col Seal			5915 - 5910	10'

Total Dept @ Plot 8804 - Rowe *Sheet*

Bridge Plugs Used--Type and Depth
8680 Baker
8550 Baker
8450 Baker, 5915 Baker

VENT PIPE

MISCELLANEOUS MATERIALS

CASING LOST 338' of 4 1/2"

TYPE OF RIG:

Owner: Well Op'r ___ / Contractor
 Rig time: 2 days plus ___ hours on plugging!

DATES OF INSPECTOR'S PREVIOUS VISITS TO WELL 11-14-78 Status of Comp. of Dry.

DATE OF INSPECTOR'S LATEST VISIT TO WELL 5-2-79

INSPECTOR'S AND OTHER REMARKS:

4 1/2" casing freepointed @ 5870' this sets pulling
4 1/2" casing. Plan on setting plug where 9" casing well freepointed &
falling with grit up to 9 1/2" setting bridge and cut 30' up into 9"
gelling up to 150' of surface & cementing 150 - Surface.

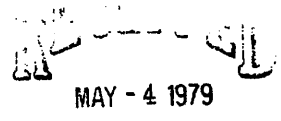
9 1/2" casing cemented to surface when down,

Found all work & plugging procedure good this date.

NOTE: This form is used for both a daily inspection record and the inspector's final report after the completion of the permitted work.

[Signature]
 District Oil and Gas Inspector

Rodney Ray Columbia, Foreman/Eng.



OIL & GAS DIVISION
 DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

RECORDED

JUN - 7 1979

AFFIDAVIT OF PLUGGING AND FILLING WELL OIL & GAS DIVISION
DEPT. OF MINES

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. ONE COPY MAILED TO THE DEPARTMENT. 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.

Huntington Realty Company <small>COAL OPERATOR OR OWNER</small>	Columbia Gas Transmission Corp. <small>NAME OF WELL OPERATOR</small>
652 6th Avenue - Huntington, WV <small>ADDRESS</small>	P.O. Box 1273 - Charleston, W. Va. <small>COMPLETE ADDRESS</small>
Marrowbone Dev. Company <small>COAL OPERATOR OR OWNER</small>	May 9, 1979 <small>WELL AND LOCATION</small>
P. O. Box 445 - Kermit, WV 25674 <small>ADDRESS</small>	Kermit District
Huntington Realty Company <small>LEASE OR PROPERTY OWNER</small>	Mingo County
652 6th Avenue - Huntington, WV <small>ADDRESS</small>	Well No. 20500 T
	Huntington Realty Company Farm

STATE INSPECTOR SUPERVISING PLUGGING Arthur St. Clair

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Mingo } ss:

Rodney Ray and
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 1st day of May, 1979, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSS PULLED	CSS LEFT IN
	SEE ATTACHED SHEET			
COAL BEAMS (NAME) 10-24' (NAME) 215-218' (NAME) (NAME)			DESCRIPTION OF MONUMENT 30" Riser staving - 5-7-79, Ming-879, Columbia Gas Transmission Corporation	

and that the work of plugging and filling said well was completed on the 7th day of May, 1979. And further deponents saith not.

Rodney G Ray

Sworn to and subscribed before me this 21th day of May, 1979.

Luella J Hedrick
Notary Public.

My commission expires:
June 6, 1987

Permit No. Ming-879-P
47-059-0879-P