## HARMAN-9-18

API No. 45-027	7-20428-00-03		Rep. No	
			MQ File No. B	
Operator COLUME	BIA GAS TRANS			X
Farm PITTS	TON COMPANY			
Co. Well No. 20	)227			
County BUCHANAN	1	Ouadr	angle HARMAN-	75'
Location (UTM)				
(Lat. and Long.				
				PALACHIAN PLATEAUS
Elev. (specify) INITIAL FLOW -				DEVONIAN
	abandoned DE	ECEMBER 14, 1981	,	DEVONTAN
Gas Shows 4877			7-	
Gas Pays 4758	s' to 4777'			
				EA
				SISSIPPIAN
Treatment: 75 Q	FOAM FRACTUR	RED BEREA WITH 5		MUD ACID, 796
				SAND, 22,000
		341,000 SCF N2		
Initial Product				
	1.0			
Oil shows				
Water FW				
		at	at _	
Coal	Sale 11			
Plat X	Plotted x	Completion	Report x	
Samples X	Interval Sh	eet X		
Sample Interval	0 - 4800			
Remarks				
Geophysical Log				
20.10.10			u_setSt.blustrib	

		Datum			
Formation To	р	(Subsea)	Thick	ness	
			7		
		-			
	-	-	-		
		-			
		-			
An arrival display and the same		-	*************		
	-	-			
			-		
			-	<u> </u>	
autorius vivin de de la companya de					
erstanta en la reconstrucción de la reconstrucción			40.005.44		
arks					
				ale p	
				Ne (4)	
erences _					
			11 3100 131		
		***************************************			
				1.	
enged to Open Edde: Comple	tion	MADCH 14	1002		
eased to Open File: Comple	CION _	MARCH 14,	1982		
	ples	YES			

## Commonwealth of Virginia DEPARTMENT OF LABOR AND INDUSTRY Division of Mines Big Stone Gap, Virginia

XXXXXXXXX

NOTICE OF INTENTION TO DRILL XXXXXX GAS WELL XXXXXXXX

(One copy of this report and three identical copies of a plat or map, on a scale not smaller than 400 feet to the inch, and showing information required by Section 45-114, Code of Virginia, 1950, must be submitted to the Division of Mines, and copies sent by registered mail to all persons defined in above law, prior to obtaining a permit to drill.)

O: DIVISION OF MINES	Charleston, W. Va.
BIG STONE GAP, VIRGINIA	Place
	May 11, , 19 81
entlemen:	Date
The undergland property to head as	good as a more the Atlanta on to obtained
The undersigned proposes to begin as a rom the Division of Mines, to drill, xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	
or wxxxxx gas on the Pittston Company	
he Prater District of Buch	
ee title thereto, or as the case may be, un	ston Company to Columbia Gas Trans.
nd recorded on the day of	
ffice of the County Clerk for said County	
The proposed location of the well, as	shown on the attached plat or map, is
feet	Latitude
bout 12,200 South	Strated and an artist and a strategy of the st
feet	Longitude
3,200 West of	82012' 30"
xaadabaax	
It is proposed to drill this well to	a depth of about 4750 feet. Samples
will be systleb	To for eventueries by a member of the
r cuttings therefrom xxxixixxxxx be availab	le for examination by a member of the
A-DD of All Williams Construction	will
taff of the Virginia Geological Survey.	Cuttings be furnished the
urvey.	
A plat or map, in triplicate, on a sc	ale not smaller than 400 foot to the
nch, showing the proposed location of the	
ection 45-114, Code of Virginia, 1950, is	attached hereto. Copies of the plat and
otice of intention to drill, redrill or de	
ent to all interested persons as required ollows (List names and mail address of eac	
pace is required):	n. ose back of sheet if additional
	. 0/207
. The Pittston Company, Dante, Virgin	
· Harman Mining Company, Harman, Virg	inia 24618
6.	Yawa han ya wasan
	Very truly yours,
Signature of officer or certifying party:	1
1811	Columbia Gas Transmission Corporation
Name	Drilling Company or Operator
	P. O. Box 1273
	The second secon
Director, Exploration & Development	Street Address
	Charleston, W. Va. 25325
Director, Exploration & Development	



# COMONWEALTH OF VIRCOITA. DIVISION OF MINES AND QUARRIES DEPARTMENT OF LABOR AND INDUSTRY

BIG STONE GAP, VIRGINIA

## XXXXXXXXX

#### 

(Required by Section 45-115, Code of Virginia, 1950. To be accompanied by Permit fee of twenty-five dollars and bond and surety therefor, as specified by Section cited. To be submitted in duplicate, one copy to be returned to applicant after action by Division of Mines and Quarries.)

TO: DIVISION OF MINES AND QUARRIES	Charleston, W, Va.
BIG STONE GAP, VIRGINIA	Place May 11, 1981
	Date
Gentlemen:	
	or a Permit to drill, кажжий кхюжий окрежк (strike
out two) a well for cilixon gas on the Pittston C	Company Farm, comprising 28,810
acres, in the Prater Dist	trict of Buchanan County, Virginia,
naving the fee title thereto, or as the case may be	
19 70 made by <u>The Pittston Company</u> to <u>Columbia Gas Transmission Corporation</u>	and recorded on the
day of, 19 in the office	ce of the County Clerk for the said County in
Book 195 page 198	
	n a location plat or map submitted to the Division
of Mines and Quarries, by the undersigned, togeth	
NAMENAX a Well for CHAXXX Gas (Form 2) on the	11th day of May , 19 81 .
The proposed well will be known as Well No.	of Columbia Gas Transmission Cor
(company, etc.) It is proposed to drill this well to	
	feet distant from the nearest property or
lease line; about feet distant from the	
words not applicable); and/or about 3100 fe	
producing, oxxappkiedkfox (strike out words not app	plicable) with gas (strike out words not
applicable) well.	on H. C. Dostal Manay Onday in the amount
of twenty-five (\$25.00), payable to the Treasurer	or U. S. Postal Money Order, in the amount
a Well for Oil or Gas, as required by Section 45-1	
A DIEGO CONTRACTOR MANAGEMENT DE MINISTER	ce with the provisions of Chapter 8. Title 45.
	ce with the provisions of Chapter 8, Title 45, ant of \$ 9,000.00 is submitted herewith of
Code of Virginia, 1950, for this well, in the amou (give status of) Policy No. 907352	
Code of Virginia, 1950, for this well, in the amou (give status of) Policy No. 907352	unt of \$9,000.00 is submitted herewith of
Code of Virginia, 1950, for this well, in the amou (give status of) Policy No. 907352  Correspondence regarding this well should be	oe addressed to Mr. J. R. Henning,
Code of Virginia, 1950, for this well, in the amou (give status of) Policy No. 907352	oe addressed to Mr. J. R. Henning,
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Code of Virginia, 1950, for this well, in the amou (give status of) Policy No. 907352  Correspondence regarding this well should be P. O. Box 1273, Charleston, W. Va.	tent of \$ 9,000.00 is submitted herewith of the addressed to Mr. J. R. Henning,  Very truly yours,  Columbia Gas Transmission Corporation
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Gas Well

Volume \_

Initial open flow, gas:

(To be filled in by Division of Mines)

### COMMONWEALTH OF VIRGINIA

DEPARTMENT OF LABOR AND INDUSTRY

DIVISION OF MINES

(To be filled in by Division of Mines)

BUCHANAN	
County	

County

BIG STONE GAP, VIRGINIA

Well No. 20827

/10ths. Water in\_

/10ths. Mercury in \_

lbs.

inch.

inch.

hrs.

Permit No. 428

HARMAN Quadrangle

District

DEEPENED OIL AND GAS WELL COMPLETION REPORT ABANDONMENT

County Code 027

BU-205

(This report and a copy of electrical log, if made, must be submitted to the Division of Mines within 30 days after abandonment or completion of well, as required by Section 45.113. Code of Viccinia 1950.)

Well Classification DEVELOPMENT

		abandonment or co 45-113, Code of Vi			by Section		
Company	Columbia Gas	Transmission Corp	).		. 0. Box 1273 leston, WV	H	
Form Pitt	tston Coal Co	mpany	-		8,810.88		
County Buc		mparry		District Pr			
Well No. (Co		27		Elevation (g	round surface)_	1923.42	ft
	, , ,						
Location:	on location pl graphic map of		filed with	the Division	of Mines or sh	own on qua	drangle topo-
4600	feet	Northeast	of	outh of Cinc	dy Fork of Gr	eenbrier C	reekand
8390	feet	Northwest	_ of _ Mo	outh of Deel	l Branch of G	reenbrier	Creek
	ract is owned in Dante, VA 24	fee simple by Pitts	ton Coal				
		Pittston Coal	Company				
	Dante, VA 24		o o mponi				
		bia Gas Transmissi	on Corpo				
		mber 12, 1981			ctor Ray Res	ources	
Drilling com	pleted Nove	mber 23, 1981	A	Address 500 (	Commerce Sq.	- Charlest	on, WV
Well abando	ned at	n <u>December 14, 1</u> feet on			: Reason _	2	
Well plugged	on		, 19	Affidavit filed	l		, 19
Commenced	producing on _			, 18	)		
					, [bc]		
				-			
		*				ure	psi;
						р	sarrels per day.
							miles per day.
		feet to			(1)	foot to	feet.
Oil pays at				On shows at			
	(9)	teet to			121	feet to	feet
		feet to			(2)		feet.
	(3)	feet to feet to	feet.		(3)(4)	_ feet to	feet.

Gaged\_

Mcf.; Rock Pressure

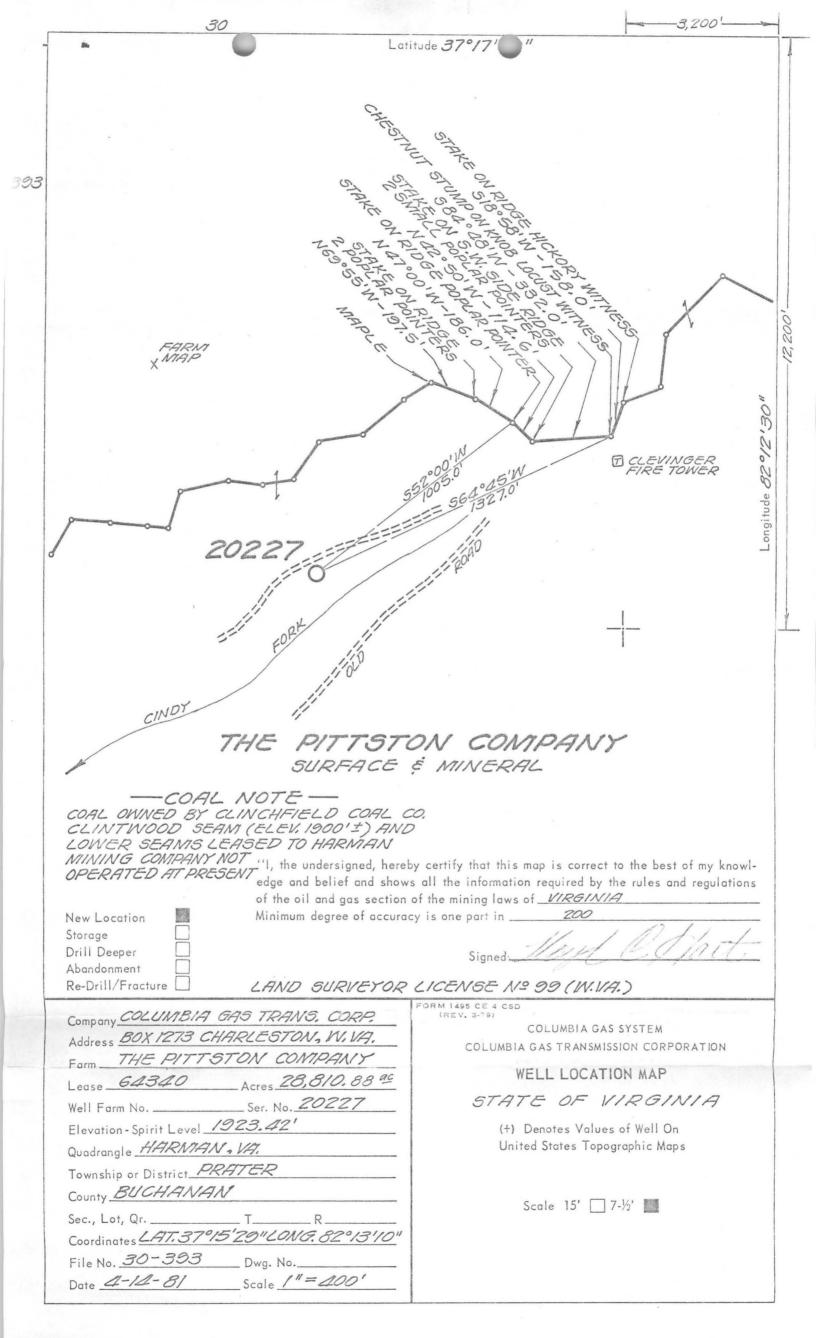
Stimulation treatin	n Record _75 ng fluid; 30,	Q Foam fracture 000# 80/100 san	ed Berea with 50 od, 22,000# 20/4	0 gallons M 0 sand; and	ud Acid; 7	96 bbls t	otal
Breakdowr Average In	Pressure	N/A 7.44 (Water)	psi; Avera	ge Injection Pro			psi
							P
Final Open	oflow12	37	Mcf.; Rock Press	sure	685	lbs	72 hrs
Gas pays a	$(1) = \frac{4758}{2}$	feet to47	feet. Gas				feet.
		feet to					feet.
Main produ		feet to		(4)		feet to	feet.
main produ	action <u>4758</u>	feet to47	1eet.	(5)		feet to	feet.
Fresh wate	r at (1)	feet,	GPM; (2)	feet,	_GPM; (3)	feet,	GPM.
Salt water Coal: from	at (1)feet	inches to	feet; (3)feet	inches: fro	eet; (4)fee	fee	et.
			eet inche				iches to
	C	ASING AND TUBING			PACKERS OR	BRIDGE PLU	GS
Size	USED IN DRILLING	LEFT IN WELL	PERFORATE	KIND	SIZE		SET AT
(inch)	(feet)	(feet)	(feet) to (feet)				
13 3/8 8 5/8	32.50 2215.76	32.50 2215.76					
4 1/2	4844.15	4844.15	4758-4777				
						NERS	
				SIZE	USED IN DRILLING	LEFT IN WELL	PERFORATED
				(inch)	(ft.)	(ft.)	(ft. to ft.)
						1.	
Casing			32 feet to _				
			2216 feet to _ 4855 feet to _		Date 11-19-		
Remarks: (			obs, depths, dates;				
			×				
			ination by a membe				
Will be furn	nished the Virgin	nia Geological Surve	ey upon request	$\frac{\text{Yes}}{\text{(No)}}$	, if sacks for s	same are fu	nished by the
Survey			(Yes) (No)	,			
		r not made(cl					
		or will	be submitted on or	by			, 19
To operate	or requests that	information given	herein and log or le	ogs be kept co	onfidential for	a period o	of ninety days
after comp	letion of the we	ll covered by this re	eport Yes	(Yes) -(No)			

## LOG

Furnished by \_\_\_\_\_ Date \_\_\_\_

Compiled by J. L. Osbourn Date 1-21-82

Sand & Shale			(feet)	(feet)	OIL, GAS WATER DEPTHS SHUT DOWN FISHING, ETC.
		0	145	145	
Sand		145	175	30	
Sand & Shale		175	275	100	
Sand		275	310	35	
Shale		310	340	30	
Sand	, , , , ,	340	396	56	
Shale		396	542	146	
Sand		542	572	30	
Sand & Shale		572	743	171	
Sand & Share		743		37	
			780		
Shale		780	920	140	
Sand S Shala		920	940	20	
Sand & Shale		940	1073	133	
Sand		1073	1138	65	
Shale		1138	1180	42	
Sand /		1180	1203	23	
Shale		1203	1258	55	
Sand		1258	1268	10	
Shale		1268	1357	89	
Sand & Shale		1357	1463	106	
Sand		1463	1633	170	
Sand & Shale		1633	1810	177	
Sand		1810	1880	70	
Shale		1880	2014	134	
Sand		2014	2173	159	
Sand & Shale		2173	2252	79	
Shale		2252	2346	94	
Sand & Shale		2346	2542	196	
Shale		2542	2766	224	
Sand & Shale		2766	3054	288	
Sand		3054	3106	52	
Shale		3106	3130	24	
Sand		3130	3154	24	4
Sand & Shale		3154	3262	108	
Maxon		3262	3413	151	
Sand & Shale		3413	3583	170	
L. Lime		3583	3637	54	
Shale		3637	3646	9	
B. Lime		3646	4115	469	
Shaly Sand		4115	4324	209	
Shale		4324	4730	406	
Coffee Shale		4730	4747	17	
Berea		4747	4836	89	
Shale		4836	4877	41	Gas Check @ T.
5					94 Mcf
			4877		T.D.
			-100		
*					
3					



## VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

#### INTERVAL SHEET

Page 1 of 2

Well Repository No.: W- 6713

Date rec'd:

Date Processed:

Sample Interval: from 0 to: 4800

PROPERTY: Pittston Co. Well #20227

Number of samples: 311

COMPANY: Columbia Gas Transmission Corp.

Total Depth: 4877

COUNTY: Buchanan

Oil or Gas: X Water: Exploratory:

From-To	From-To	From-To	From-To	From-To
$\begin{array}{cccc} 0 & - & 30 \\ 30 & - & 60 \\ 60 & - & 90 \\ 90 & - & 120 \\ 120 & - & 150 \end{array}$	1030 - 1060	2080 - 2110	2600 - 2610	2950 - 2960
	1060 - 1090	2110 - 2140	2610 - 2620	2960 - 2970
	1090 - 1120	2140 - 2170	2620 - 2630	2970 - 2980
	1120 - 1150	2170 - 2200	2630 - 2640	2980 - 2990
	1150 - 1180	2200 - 2230	2640 - 2650	2990 - 3000
150 - 180	1180 - 1210	2230 - 2240	2650 - 2660	3000 - 3010
180 - 210	1210 - 1240	2240 - 2250	2660 - 2670	3010 - 3020
210 - 240	1240 - 1270	2250 - 2260	2670 - 2680	3020 - 3030
240 - 270	1270 - 1300	2260 - 2270	2680 - 2690	3030 - 3040
270 - 300	1300 - 1330	2270 - 2280	2690 - 2700	3040 - 3050
300 - 330	1330 - 1360	2280 - 2290	2700 - 2710	3050 - 3060
330 - 360	1360 - 1390	2290 - 2300	2710 - 2720	3060 - 3070
360 - 390	1390 - 1430	2300 - 2310	2720 - 2730	3070 - 3080
390 - 420	1430 - 1460	2310 - 2320	2730 - 2740	3080 - 3090
420 - 450	1460 - 1490	2320 - 2330	2740 - 2750	3090 - 3100
450 - 480 480 - 510 510 - 540 540 - 570 570 - 600	1490 - 1520 1520 - 1550 1550 - 1580 1580 - 1610 1610 - 1640	- 2420 - 2430 2430 - 2440 2440 - 2450	2750 - 2760 2760 - 2770 2770 - 2780 2780 - 2790 2790 - 2800	3100 - 3110 3110 - 3120 3120 - 3130 3130 - 3140 3140 - 3150
600 _ 630	1640 - 1670	2450 - 2460	2800 - 2810	3150 - 3160
630 _ 660	1670 - 1700	2460 - 2470	2810 - 2820	3160 - 3170
660 _ 690	1700 - 1730	-	2820 - 2830	3170 - 3180
690 _ 720	1730 - 1760	2480 - 2490	2830 - 2840	3180 - 3190
720 _ 750	1760 - 1790	2490 - 2500	2840 - 2850	3190 - 3200
750 - 780	1790 - 1820	2500 - 2510	2850 - 2860	3200 - 3210
780 - 810	1820 - 1850	2510 - 2520	2860 - 2870	3210 - 3220
810 - 840	1850 - 1880	2520 - 2530	2870 - 2880	3220 - 3230
840 - 870	1880 - 1910	2530 - 2540	2880 - 2890	3230 - 3240
870 - 900	1910 - 1940	2540 - 2550	2890 - 2900	3240 - 3250
- 1004 - 1007 1007 - 1010 1010 - 1030	1940 - 1970 1970 - 2000 2000 - 2030 2030 - 2060	2550 - 2560 2560 - 2570 2570 - 2580 2580 - 2590 2590 - 2600	2900 - 2910 2910 - 2920 - 2930 - 2940 2940 - 2950	3250 - 3260 3260 - 3270 3270 - 3280 3280 - 3290 3290 - 3300

## VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

## INTERVAL SHEET Continued

Page	2	of	2				Well Repository No.:	w- 6713
Fr	om-	Го		From-To	From-	To	From-To	From-To
3300 3310 3320 3330 3340	)	3310 3320 3330 3340 3350		3700 - 3710 3710 - 3720 3720 - 3730 3730 - 3740 3740 - 3750	4100 - 4110 - 4120 - 4130 - 4140 -	4120 4130	4500 - 4510 4510 - 4520 4520 - 4530 4530 - 4540 4540 - 4550	
3350 3360 3370 3380 3390	-	3360 3370 3380 3390 3400		3750 - 3760 3760 - 3770 3770 - 3780 3780 - 3790 3790 - 3800	4150 - 4160 - 4170 - 4180 - 4190 -	4170 4180 4190	4550 - 4560 4560 - 4570 4570 - 4580 4580 - 4590 4590 - 4600	
3400 3410 3420 3430 3440	) _ ) _ ) _	3410 3420 3430 3440 3450		3800 <b>-</b> 3810 3810 <b>-</b> 3820 3820 <b>-</b> 3830 3830 <b>-</b> 3840 3840 <b>-</b> 3850	4200 - 4210 - 4220 - 4230 - 4240 -	4210 4220 4230 4240 4250	4600 - 4610 4610 - 4620 - -	=
3450 3460 3470 3480 3490	-	3490		3850	4250 - 4260 - 4270 - 4280 - 4290 -	4270 4280		
3500 3510 3520 3530 3540	-	3510 3520 3530 3540 3550		3900	4300 - 4310 - 4320 - 4330 - 4340 -	4330 4340	4720 - 4730 4730 - 4740 - 4750 - 4760 4760 - 4770	=======================================
3550 3560 3570 3580 3590	-	3560 3570 3580 3590 3600		3950 _ 3960 3960 _ 3970 3970 _ 3980 3980 _ 3990 3990 _ 4000	4350 - 4360 - 4370 - 4380 - 4390 -	4370	4780 - 4790 4790 - 4800 -	= = = = = = = = = = = = = = = = = = = =
3600 3610 3620 3630 3640	) -	3610 3620 3630 3640 3650		4000	4400 - 4410 - 4420 - 4430 - 4440 -	4410 4420 4430 4440 4450	- - - - -	- - - -
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