

LATITUDE 38° 20' 00"

FARM MAP

X

20526

BIG THOMPSON HOLLOW

POINT LICK FORK

SCALE: 1" = 2000'

CONCRETE MONUMENT

CONCRETE MONUMENTS

STAKE & LOW GAP, 3 DOGWOOD WITNESSES.

5435

5436

124

AMHERST COAL COMPANY (SURFACE & MINERAL)

20526

9206

COAL NOTE

COAL AT LOCATION SITE HAS BEEN MINED OUT BY AMHERST COAL CO. NOW LEASED TO PRATT MINING CO. FOR SURFACE & AUGER MINING OPERATIONS.

REVISION 3-13-81

FILE NO. 70-55
DRAWING NO. 20526
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION U.S. GOV'T B.M. BRASS
DISC. No. 256 SKS. ELEV. 793'

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) R.P.E. L.L.S. 99

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6
(878) LAT: 38° 18' 50"
LONG: 81° 27' 33"



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

DATE 4-11-1977
OPERATOR'S WELL NO. 20526
API WELL NO. 47-039-3762
STATE COUNTY PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1462.38' WATER SHED BIG THOMPSON HOLLOW
DISTRICT MALDEN COUNTY KANAWHA
QUADRANGLE QUICK Clendenin SW 15'
SURFACE OWNER SAME ACREAGE 5,000
OIL & GAS ROYALTY OWNER AMHERST COAL COMPANY LEASE ACREAGE 5,000
LEASE NO. 1021
PROPOSED WORK: DRILL X 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 CLINTON ESTIMATED DEPTH 7150'
WELL OPERATOR COL GAS TRANS. CORP. DESIGNATED AGENT J. R. HENNING
ADDRESS CHARLESTON W. VA. 25325 ADDRESS SAME
P.O. BOX 1273 DEEP WELL 6-6 Indian Creek Pool (358)

AUG 17 1981

RECEIVED

JUN 15 1984



IV-35 OIL & GAS DIVISION (Rev 8-81) DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date June 12, 1984 Operator's Well No. 20526 Farm Amherst Coal Company API No. 47 - 039 - 03762

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 X / Shallow /)

LOCATION: Elevation: 1462.38 Watershed Big Thompson Hollow District: Malden County Kanawha Quadrangle Quick

COMPANY Columbia Gas Transmission Corporation ADDRESS P. O. Box 1273, Charleston, WV 25325 DESIGNATED AGENT James L. Weekley ADDRESS Same SURFACE OWNER Amherst Coal Company ADDRESS Port Amherst, Charleston, WV 25306 MINERAL RIGHTS OWNER Same ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Martin Nichols ADDRESS P. O. Box 554 Clendenin, WV

PERMIT ISSUED 7-30-81 DRILLING COMMENCED 5-11-82 DRILLING COMPLETED 6-1-82

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED CN

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-1/2 Cond., 13-1/2, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 3/8, and Liners used.

GEOLOGICAL TARGET FORMATION Tuscarora Depth 7100 feet Depth of completed well 7066 feet Rotary X / Cable Tools Water strata depth: Fresh feet; Salt feet Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Tuscarora Pay zone depth 7028-7038 feet Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow 3200 Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure 1530 psig (surface measurement) after 72 hours shut in (If applicable due to multiple completion--)

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

Fractured Tuscarora 7-19-82 from 7028-7038' with 2000 gallons HF acid and 8800# 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale & Redrock			0	1140	
Salt Sand			1140	1510	
Big Lime			1800	2040	
Berea			2600	2620	
Onondaga			5420	5520	
Oriskany			5520	5540	
Helderberg			5540	6140	
Salina			6140	6290	
Williamsport			6290	6312	
McKenzie			6312	6510	
Rose Hill			6510	6800	
Tuscarora			6950	7056	
LTD				7071	

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation

Well Operator

By:

Date:

June 12, 1984

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 coal, encountered in the drilling of a well."



(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) \_\_\_\_\_

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Tuscarora

Estimated depth of completed well 7100 feet. Rotary X / Cable tools      /

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

Approximate coal seam depths:       
Is coal being mined in this area: Yes      / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS Cubic ft.	PACKERS	
	Size	Grade	Weight per ft	New	Used	For Drill-ling			Left in Well
Conductor	20"			X		30'	30'	To surface	Kinds
Fresh water	13-3/8"			X		160'	160'	To surface	
Coal	9-5/8"			X		2550'	2550'	To surface	Sizes
Intermed.	7"			X		5630'			
Production Tubing	4-1/2"			X		7100'			Depths set
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,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling, renewed. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 1-6-83

BY [Signature]

[Signature]

The following waiver must be completed by the coal operator and by any coal 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:

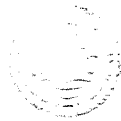
W A I V E R

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 coal operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date:     , 19     .

By: \_\_\_\_\_

Its: \_\_\_\_\_



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

JUL 28 1981

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 July 27, 1981

Surface Owner Ambrose Coal Co.

Company Columbia Gas Transmission Corp.

Address Box 100, Ambrose, West Virginia 26050

Address Box 100, Box 1978, Charleston, W. Va.

Mineral Owner Same as above

Farm Ambrose Coal Co. Acres 620

Address \_\_\_\_\_

Location (county) Lincoln

Coal Owner Same as above

Well No. 10515 Elevation 1142.83

Address \_\_\_\_\_

District Yule County Marshall

Coal Operator Beart Mining Co.

Quadrangle Quick

THIS PERMIT MUST BE POSTED AT THE WELL SITE No. 10515

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 3-31-82.

INSPECTOR TO BE NOTIFIED Martin Nichols

ADDRESS P. O. Box 571, Clendenen, WV

PHONE 548-4000

J. G. Haggerty  
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 6-1 1980 by \_\_\_\_\_ made to \_\_\_\_\_ and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 1980 in \_\_\_\_\_ County, Book \_\_\_\_\_ Page \_\_\_\_\_

NEW WELL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 8, 1939.

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 operators 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 owners 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

Box 100, Box 1978  
Street  
Charleston  
City or Town  
West Virginia 26315  
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, it shall be deemed that the department has deemed it issue to the well operator a permit reflecting the filing of such plat that no objections have been made by the coal operators or found therein by the department and that the same is approved and the well operator authorized to proceed.

47-039-3762

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 6, Section 12-6 and will carry out the specified requirements."

Signed by [Signature]  
Manager, Drilling

ORIGINAL FILED

THIS IS AN ESTIMATE ONLY  
 ADDITIONAL INFORMATION WILL BE SUBMITTED ON CG-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 519-7615  
 ESTIMATED DEPTH OF COMPLETED WELL: 7,000 ROTARY \_\_\_\_\_ 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	DEPTH OF WELL	CEMENT SET UP OR SACKS - (CUBIC FT.)
13-1/4"	30'	<u>30</u>	To surface
13-10X9/8"	160'	<u>160</u>	To surface
9-5/8"	2550'	<u>2550</u>	To surface
8-5/8"			
7"	5620'		<u>into 9 5/8"</u>
5"			
4"	7100'		<u>into 7"</u>
3"			Part Top
2"			Part Bottom
1 1/2"			Part Top
1"			Part Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF CG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF CG - 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 CG - 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 CG - 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 as long as providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_