

Latitude  $38^{\circ}27'30''$   
 (15')  $38^{\circ}30'$   
 Stake on hillside. Small beech & dogwood pointers.

W. B. Young, et al.

W. A. McCorkle

Iron Pin. Black oak & chestnut oak pointers painted.

X Farm map

~~532 S~~  
~~221 W~~

Falling Rock Producing Company

$12069$   
 $N16^{\circ}E-148'$

IRON PIPE BETWEEN 2 HICKORIES

1716'  
 $N56^{\circ}45'E$   
 Fallen chestnut & 8" hickory pointer - blue paint.

F41235

F1090

7090

55.35  
 W 3.02

Correct 15' location

Topo  $7\frac{1}{2}'$

(15')  $81^{\circ}20'$   
 Longitude  $81^{\circ}22'30''$

Bench Mark Description  
 U.S.G.S. standard disk 230 SKS 1956.  
 63' S.W. of C of bridge for road over  
 3 Mile Fork of Blue Creek in S.E. abutment  
 of R.R. bridge. Elevation: 635.76'

7064  
 Stake. Red oak & chestnut oak pointers.

"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 Adrian E. Anderson

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

Company COLUMBIA GAS TRANSMISSION CORP.  
 Address BOX 1273 CHARLESTON, W. VA.  
 Farm W. A. McCorkle  
 Lease 4832 Acres 338  
 Well Farm No. \_\_\_\_\_ Ser. No. 12069  
 Elevation - Spirit Level 1013.93 NC  
 Quadrangle BLUE CREEK, CLENDENIN 15'  
 Township or District BIG SANDY  
 County KANAWHA  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates LAT.  $38^{\circ}25'21''$  LONG.  $81^{\circ}23'21''$   
 File No. 74-63 Dwg. No. \_\_\_\_\_  
 Date 7-6-77 Scale 1"=400'

**WELL LOCATION MAP  
 WEST VIRGINIA**

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

KAN-2787

Scale 15'   $7\frac{1}{2}'$

47-039

OCT 5 1977

9-0 Blue Creek (218) Near Well

RECORDED

JAN 2 1978

OIL & GAS DIVISION  
DEPT. OF MINES



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

Form OG-10

Quadrangle Blue Creek  
Permit No. Kan-2787

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company Columbia Gas Transmission Corp.  
Address P. O. Box 610, Clendenin, WV  
Farm W. A. McCorkle Acres 338  
Location (waters) Blue Creek  
Well No. 12069 Elev. 1014'  
District Elk County Kanawha  
The surface of tract is owned in fee by Eliza M. Smith Etal 3/4  
Address 29 Norwood Rd-Chas  
Mineral rights are owned by Same as Surface  
Address \_\_\_\_\_  
Drilling commenced 8-27-77  
Drilling completed 9-10-77  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"	120'	120'	Size of
10 3/8"	2061'	2061'	
7"	5340'	5340'	Depth set
5 3/16			
4 1/2			
3			Perf. top
2 3/8"	5376'	5376'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow 10ths Water in \_\_\_\_\_ Inch  
10ths Merc. in \_\_\_\_\_ Inch  
Volume 18.5 MM Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) 1000 gals. on 10-26-77  
WELL FRACTURED (DETAILS) using 1082 bbls. & 40,000# 20-40 mesh

Attach copy of cementing record.  
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
Amount of cement used (bags) \_\_\_\_\_  
Name of Service Co. \_\_\_\_\_  
COAL WAS ENCOUNTERED AT 250 FEET \_\_\_\_\_ INCHES  
FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 18.5 MMCF  
ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_ HOURS  
Fresh Water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet 950' to 1350'  
Producing Sand Oriskany Depth 5378' to 5400'

STORAGE

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
White Sand			0	250			
Coal			250	260			
Sand			260	390			
Shale			390	950			
Salt Sand			950	1350			
Shale			1350	1803			
Big Lime			1803	1935			
Conjun			1935	2010			
Shale			2010	5260			
Coniferous			5260	5378			
Oriskany			5378	5400			
Shale			5400	5405			

5260  
1014  
-4246

5378



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

AUG 26 1977

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.

DATE August 26, 1977

Surface Owner Eliza M. Smith et al Company Columbia Gas Trans. Corp.  
 Address 29 Norwood Rd., Charleston, W. Va. Address P.O. Box 1273, Charleston, W. Va.  
 Mineral Owner Eliza M. Smith et al Farm W. A. MacCorkle Acres 338  
 Address 29 Norwood Rd., Charleston, W. Va. Location (waters) Falling Rock Creek  
 Coal Owner Same as above Well No. 12069 Elevation 1013.93  
 Address \_\_\_\_\_ District Big Sandy County Kanawha  
 Coal Operator Not Operated Quadrangle Blue Creek  
 Address \_\_\_\_\_

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 12-26-77.

INSPECTOR

TO BE NOTIFIED Mr. Martin Nichols

ADDRESS P.O. Box 554, Clendenin, W. Va. 25045

PHONE 548-6993

Robert Wood  
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 May 4 1950 by Monroe Company made to United Fuel Gas Co. and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Kanawha County, Book 123 Page 193

NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
 \_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

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 operator 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 operators 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)

Reuben J. Shala  
Well Operator

Manager, Drilling  
P.O. Box 1273  
Street

Charleston  
City or Town

West Virginia 25325  
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, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

KAN-2787

PERMIT NUMBER

47-093

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 2-b and will carry out the specified requirements."

Signed by Reuben J. Shala  
Manager, Drilling

*Shala*

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO  DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME Mr. Larry Friend  
 ADDRESS \_\_\_\_\_ ADDRESS P.O. Box 610, Clendenin, W. Va.  
 TELEPHONE \_\_\_\_\_ TELEPHONE (304) 965-3317  
 ESTIMATED DEPTH OF COMPLETED WELL: 5450' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE  DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16X	20'		To Surface
13 - 10X 3/8	250'		To Surface
9 - 5/8	2100'		To Surface
8 - 5/8			
7	5350'		
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. 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 OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

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

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title