

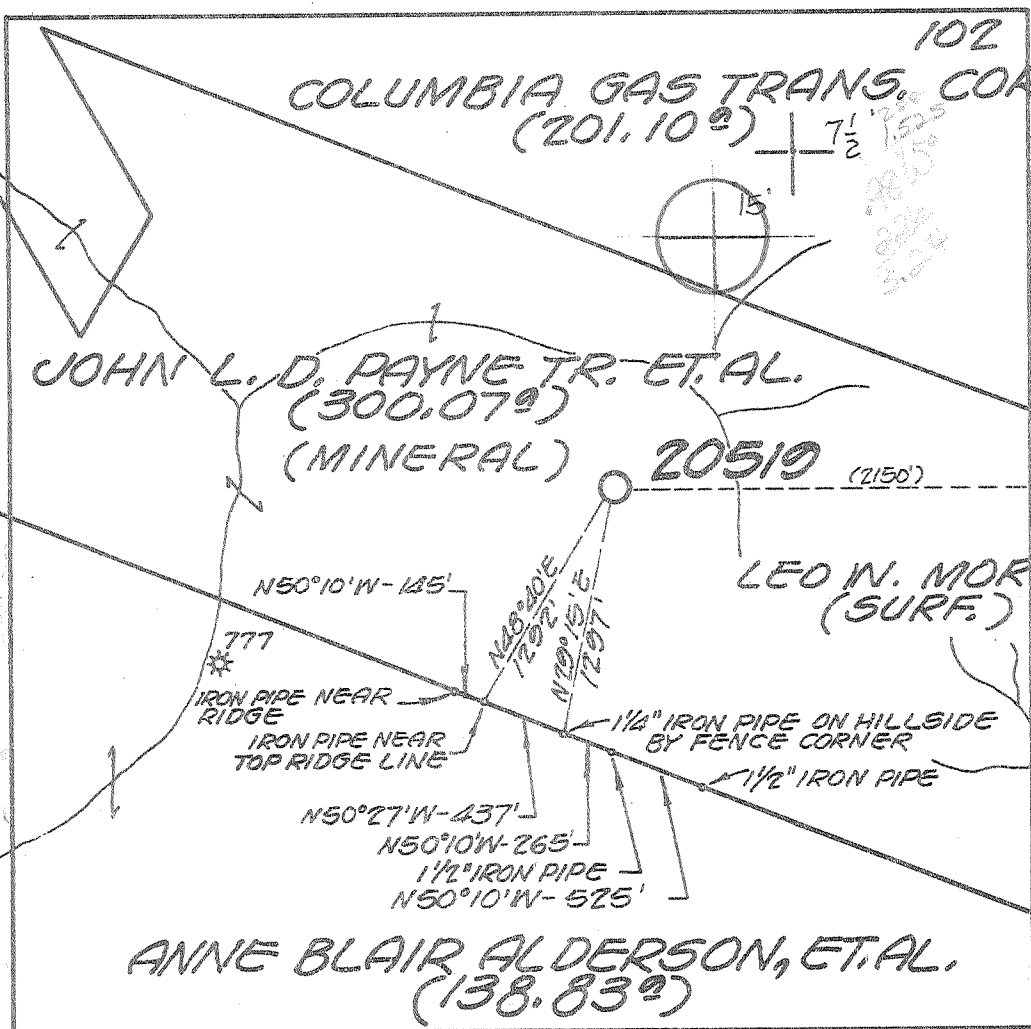
102

Latitude 38°22'30"  
(15') 38°25'

20519

SCALE 1" = 2000'

0615 7.5' Lic 15'  
38°22'30" 1.54 4.425 4.40 S  
81°32'30" .95W 3.21W 3.00 W  
24



(15') 81°30'  
Longitude 81°32'30"

FARM MAP

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

"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 Signed *William S. ...*  
BOX 1273 CHARLESTON, W. VA.

Company COLUMBIA GAS TRANS. CORP.  
Address BOX 1273 CHARLESTON, W. VA.  
Farm JOHN L. D. PAYNE TR. ET. AL.  
Lease 68811 LEO MORRIS Acres 640 (MERGER)  
Well Farm No. 4 Ser. No. 20519  
Elevation - Spirit Level 1085.62'  
Quadrangle CHARLESTON EAST 7 1/2  
Township or District CHARLESTON  
County KANAWHA  
Sec., Lot, Qr. T R  
Coordinates LONG. 81°33'35" LAT. 38°21'10"  
File No. 64-59 Dwg. No.   
Date 3-8-77 Scale 1" = 1000'

**WELL LOCATION MAP**  
**STATE OF WEST VIRGINIA**

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

47-039-3373

Scale 15'  7 1/2'

JAN 25 1979

to Indian Creek DEEP WELL (358)



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OCT 16 1979

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

OIL & GAS DIVISION   
 DEPT. OF MINES   
 Cable Tools   
 Storage

Quadrangle.....

Permit No. 47-039-3373

WELL RECORD

Oil or Gas Well  Gas (KIND)

Company Columbia Gas Trans. Corp.  
 Address 1700 McCorkle Ave. Charleston, WV  
 Farm John L. D. Payne Acres 640  
 Location (waters) Baker's Fork  
 Well No. 20519 Elev. 1085'  
 District Malden County Kanawha  
 The surface of tract is owned in fee by Leo Morris  
 Address.....  
 Mineral rights are owned by John L. D. Payne  
 Address.....  
 Drilling commenced 4-17-79  
 Drilling completed 5-12-79  
 Date Shot From To  
 With.....  
 Open Flow /10ths Water in..... Inch  
 /10ths Merc. in..... Inch  
 Volume..... Cu. Ft.  
 Rock Pressure..... lbs..... hrs.  
 Oil..... bbls., 1st 24 hrs.  
 WELL ACIDIZED (DETAILS).....  
 WELL FRACTURED (DETAILS) 836 BBL Using 10,000#

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer.....
16			Size of.....
13 3/8	133	133	Depth set.....
10			Perf. top.....
9-5/8	2336	2336	Perf. bottom.....
7	5204	3062	Perf. top.....
5 3/16			Perf. bottom.....
4 1/2	6690	1706	
3			
2 3/8	6591	6591	
Liners Used	7"	7"	
	4 1/2"	4 1/2"	

Attach copy of cementing record.  
 CASING CEMENTED 13-3/8 SIZE 133 No. Ft. 4-20-79 Date  
 Amount of cement used (bags) 150 Class-A  
 Name of Service Co. Halliburton Services  
 COAL WAS ENCOUNTERED AT 190 FEET INCHES  
 309 FEET INCHES FEET INCHES  
 321 FEET INCHES FEET INCHES  
 WELL FRACTURED (DETAILS) 836 BBL Using 10,000# 80/100 Sand & 25,000# 20/40 Sand

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 1.4 MMCF  
 ROCK PRESSURE AFTER TREATMENT 1705 HOURS 24  
 Fresh Water Feet Salt Water Feet  
 Producing Sand Tuscarora Depth 6630 - 6650 - acc'g to Ed Rothman Columbia, 1/20/78

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	190			
Coal			190	193			
Sand			193	309			
Coal			309	312			
Shale			312	321			
Coal			321	327			
Sand			327	1150			
Shale			1150	1200			
Salt Sand			1200	1567			
Shale		whoa?	1567	1598			
Lime			1598	1630			
Big Lime			1630	1790			
Injun Sand			1790	1810			
Shale			1810	2059			
Weir Sand			2059	2106			
Shale			2106	2290			
Berea			2290	2310			
Shale			2310	5023			
Lime			5023	5898			
Newburg			5898	5926			
McKenzie Sand			5926	6160			
Rose Hill			6160	6610			
Clinton Sd			6610	6650			
Juniata			6650	6690 TD			

NOV 6 1979



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

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DEC 26 1978

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

Surface Owner Leo Morris  
Address \_\_\_\_\_  
Mineral Owner John L. D. Payne  
Address Suite 1280, One Valley Square, Chas., WV  
Coal Owner Same as above  
Address \_\_\_\_\_  
Coal Operator Unoperated  
Address \_\_\_\_\_

DATE December 20, 1978  
Company Columbia Gas Transmission Corp.  
Address P. O. Box 1273, Charleston, WV  
Farm John L. D. Payne #4 Acres 640  
Location (waters) Hanson Br. Bakers Fork  
Well No. 43-20519 Elevation 1085.62'  
District Malden County Kanawha  
Quadrangle Charleston East

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 4-27-79.

INSPECTOR  
TO BE NOTIFIED Martin Nichols  
ADDRESS P. O. Box 554, Clendenin, WV  
PHONE 548-6993

Robert R. [Signature]  
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 December 11, 1972 by John L. D. Payne made to Columbia Gas Trans. Corp. and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_ in Kanawha County, Book 188 Page 367

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) [Signature]  
Director, <sup>Well Operator</sup> Exploration & Development  
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

47-039-3373

PERMIT NUMBER

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-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 965-3317 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 6750' \_\_\_\_\_ ROTARY   X   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	LEFT IN WELL	CEMENT (CU FT. OR SACKS - CUBIC FT.)
20 - XX	30'		Cement to Surface
13 - XX 3/8	160'		Cement to Surface
9 - 5/8	2340'		Cement to Surface
8 - 5/8			
7	5200'		
5 1/2			
4 1/2	6750'		Cement back to 4900'
3			Perf. Top
2 3/8	6750'		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.

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DEC 29 1978

OIL & GAS DIVISION  
DEPT. OF MINES

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