

Fracture Before 6/5/29   
 New Location   
 Drill Deeper   
 Redrill   
 Abandonment

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 Paragraph 6 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.  
 The accuracy of this survey is within the limits and as prescribed in Paragraph 6 by the Oil and Gas Division of the Department of Mines Regulations.

Company COLUMBIA GAS TRANS. CORP  
 Address CHARLESTON, W. VA.  
 Farm ELIZABETH J. LIVELY  
 Tract \_\_\_\_\_ Acres 00 Lease No. 170941  
 Well (Farm) No. 1 Serial No. 20052-7  
 Elevation (Spirit Level) 2193.48  
 Quadrangle ALDERSON Wc  
 County MONROE District INDLE CREEK  
 Engineer William E. Huffman  
 Engineer's Registration No. 2350  
 File No. 112-9 Drawing No. \_\_\_\_\_  
 Date 3-6-74 Scale 1" = 400'

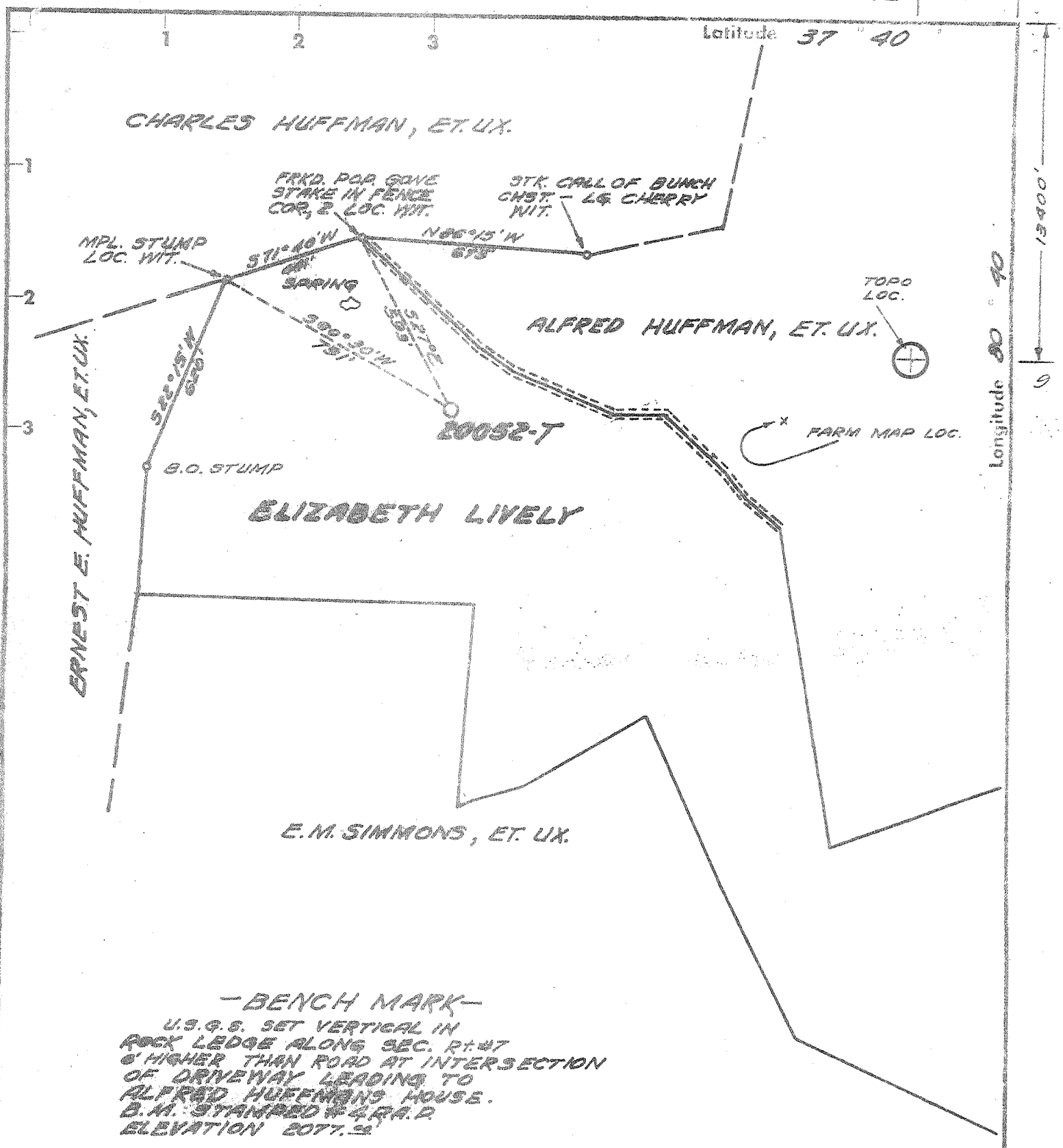
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. Monroe-7

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch spaces on border line of original tracing.

47-063

2850' Beres, 1-0



**- BENCH MARK -**  
 U.S.G.S. SET VERTICAL IN  
 ROCK LEDGE ALONG SEC. 21-47  
 6' HIGHER THAN ROAD AT INTERSECTION  
 OF DRIVEWAY LEADING TO  
 ALFRED HUFFMAN'S HOUSE.  
 B.M. STAMPED 44 R.A.D.  
 ELEVATION 2077.50'

- Fracture Before 6/5/29
- ~~New Location~~
- Drill Deeper
- Redrill
- Abandonment

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 Paragraph 6 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.  
 The accuracy of this survey is within the limits and as prescribed in Paragraph 6 by the Oil and Gas Division of the Department of Mines Regulations.

Company COLUMBIA GAS TRANS. CORP.  
 Address CHARLESTON, W. VA.  
 Farm ELIZABETH J. LIVELY  
 Tract \_\_\_\_\_ Acres 80 Lease No. 170941  
 Well (Farm) No. 1 Serial No. 20052-T  
 Elevation (Spirit Level) 2193.48  
 Quadrangle ALDERSON WC  
 County MONROE District WOLF CREEK  
 Engineer Alfred E. Huffman  
 Engineer's Registration No. 2330  
 File No. 112-9 Drawing No. \_\_\_\_\_  
 Date 3-6-74 Scale 1" = 400'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. Monroe-7-P

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-063

2850' Betred.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

1312 Rotary   
Spudder   
Cable Tools   
Storage

DRY

Quadrangle Monroe  
Permit No. MON-7

WELL RECORD

Oil or Gas Well  (GAS)

Company Columbia Gas Trans. Corp.  
Address Charleston, W. Va. 25325  
Farm Elizabeth J. Lively Acres 80  
Location (waters) Greenbrier River  
Well No. 20052-T Elev. 2193.48'  
District Wolf Creek County Monroe  
The surface of tract is owned in fee by Elizabeth J. Lively  
Address Alderson, W. Va.  
Mineral rights are owned by Elizabeth J. Lively  
Address Alderson, W. Va.  
Drilling commenced May 16, 1974  
Drilling completed May 25, 1974  
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 \_\_\_\_\_  
WELL FRACTURED \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13 3/8"	29'	29'	Size of
10 9-5/8"	1301'	1301'	Depth set
8 1/4"			Perf. top
6 5/8"			Perf. bottom
5 3/16"			Perf. top
3"			Perf. bottom
2"			
Liners Used			
	13-3/8"	29'	
	9-5/8"	1301'	
CASING CEMENTED No. Ft. <u>5-20-74</u> Date			
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
_____ FEET _____ INCHES _____ FEET _____ INCHES			
_____ FEET _____ INCHES _____ FEET _____ INCHES			

RESULT AFTER TREATMENT NOT TREATED \* WELL PLUGGED AND ABANDONED  
ROCK PRESSURE AFTER TREATMENT  
Fresh Water 400 Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
urf. Clay			0	10			
nd			10	22			
d Shale			22	24			
nd			24	60			
nd & Shale			60	117			
nd			117	140			
ndy Shale			140	202			
nd			202	264			
ale			264	276			
nd			276	285			
nd & Shale			285	456	3" Water @ 400'		
ale			456	466			
me & Shale			466	565			
ale			565	598			
me & Shale			598	829			
ale			829	847			
co			847	882			
ile			882	1035			
co			1035	2384			
d Shale			2384	2494			
me & Shale			2494	2565			
ack Shale			2565	2603			
nd			2603	2741			
aly Sand			2741	2970	Wet at 2800' -Stiff foam		
nd (Weir)			2970	3049			
nd & Shale	<u>Polono</u>		3049	3500'			
tal Depth			3500'				

(over)



RECEIVED

MAY 2 1974

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE April 30, 1974

Surface Owner Elizabeth J. Lively

Company Columbia Gas Transmission Corporation

Address Route 8, Alderson, West Va. 24910

Address P.O.Box 1273, Charleston, WV 25325

Mineral Owner Elizabeth J. Lively

Farm Elizabeth J. Lively Acres 80

Address Route 8, Alderson, West Va. 24910

Location (waters) Reel Creek Greenbrier Creek River

Coal Owner Same as above

Well No. 20052-T Elevation 2193.48

Address (Not Leased)

District Wolf Creek County Monroe

Coal Operator Not operated

Quadrangle Alderson

Address \_\_\_\_\_

INSPECTOR TO BE NOTIFIED Arthur St. Clair  
Box 157 PH: 732-7245  
Brenton  
WV. 24818

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 9-3-74

*Robert T. Bell*

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 August 23 19 73 by Elizabeth J. Lively made to Columbia Gas Transmission Corp and recorded on the 31st day of August 19 73 in Monroe County, Book 437 Page 259

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 30th day April 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, W. Va. 26505  
AC 304-296-4461

Address  
of  
Well Operator

Very truly yours, COLUMBIA GAS TRANSMISSION CORPORATION

(Sign Name) *W. H. Manning*  
Director, Well Exploration & Development

Post Office 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.

Monroe-7 PERMIT NUMBER  
47-063

BLANKET BOARD

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 Lohmann-Johnson Drilling Company, Inc. NAME W. H. Chapman  
 ADDRESS Suite 814 Commerce Square, Chas., WV ADDRESS P.O. Box 610, Clendenin, WV 25045  
 TELEPHONE (304)343-0185 25301 TELEPHONE (304)965-3317  
 ESTIMATED DEPTH OF COMPLETED WELL: 2,850' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Berea  
 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 - 16			
13 - <del>2</del> 3/8	30'	30'	Surface
9 - 5/8	550'	550'	Surface
8 - 5/8			
7	2,300'	2,300'	300'
5 1/2			
4 1/2	2,850'	2,850'	600'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS -- FEET -- SALT WATER  FEET 1210, 1545, 1850  
 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