

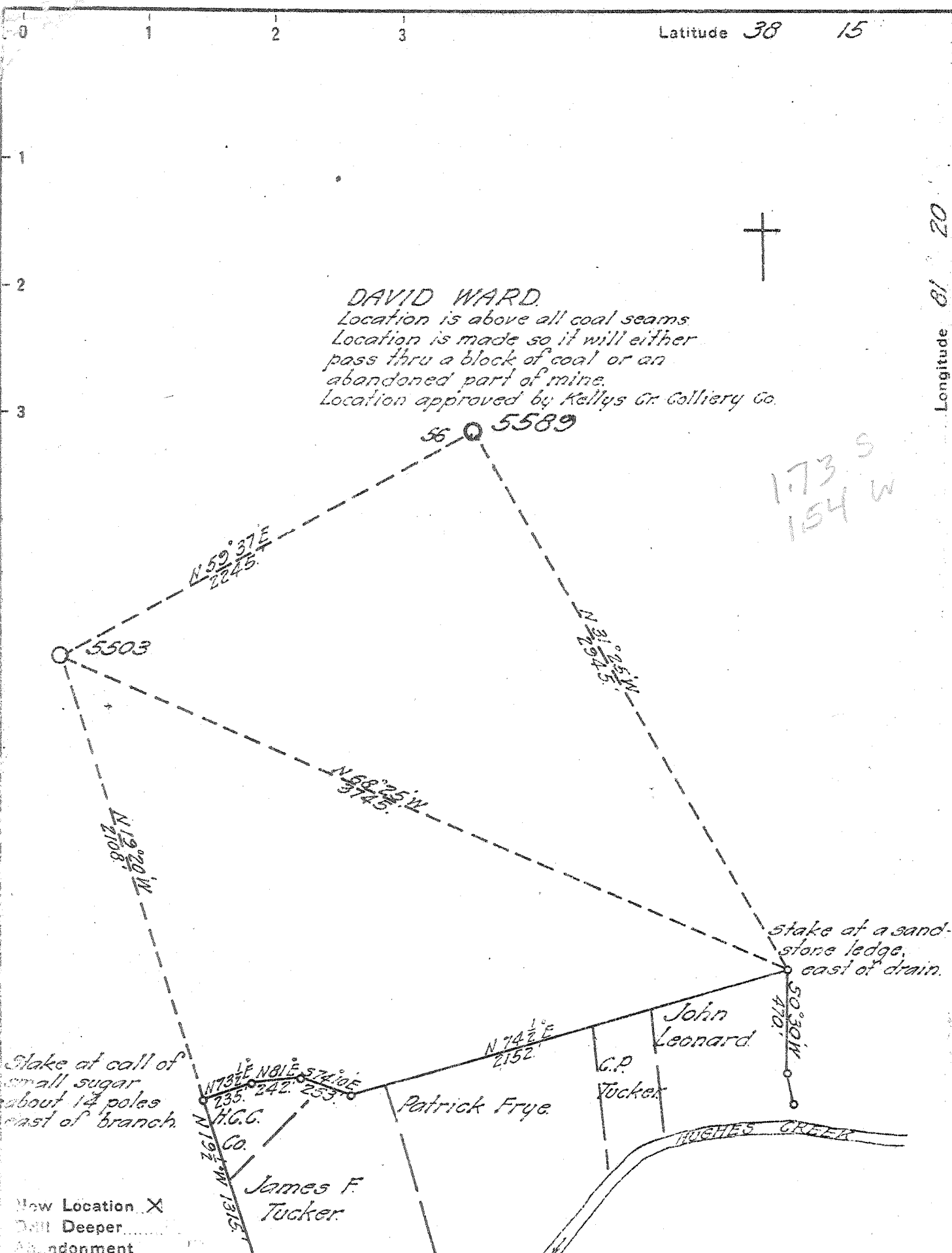
Company UNITED FUEL GAS CO.
 Address CHARLESTON W. VA., 25325
 Farm DAVID WARD
 Tract _____ Acres 8000 Lease No. 25660
 Well (Farm) No. 56 Serial No. 5589
 Elevation (Spirit Level) 1450 BAR. 1545.39
 Quadrangle MONTGOMERY
 County KANAWHA District CABIN CREEK
 Engineer M. A. Cunningham
 Engineer's Registration No. 659
 File No. 76-49 Drawing No. _____
 Date Jan 22 1945 Scale 1" = 600'

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

WELL LOCATION MAP
 FILE NO. KAN-1194-Frac.

+ 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.



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6-0 242

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Kan 1194
Montgomery Quad.
Company
Address
Farm
Location
Well No.
Surface
Mineral

United Fuel Gas Co.
P.O. Box 1273, Charleston, 25, W.Va.
David Ward Acres 8000
Hughes Creek
5589 Kanawha County
Cabin Creek
David Struss Ward et al
% Cottage Queens Garden Co.
Queens Village, N.Y.

Gas Well
CASING & TUBING

	10 $\frac{1}{2}$	816	816
	8 5/8	1815	Fld.
	7	2353	2353
		Coal at 370'	36"
		410' 72"	

Commenced 3-10-47
Completed 5-14-47
Date shot 5-19-47 Depth 2630 to 2680
with 500# E.L. 409 and 100# Gel.
Rock Pressure 300 lbs. 48 hrs.
Fresh Water 260' 1 BFH
Salt Water 1660' H.F.

Clay	0	10	Berea Shells	2990	2993
Mountain Sand	10	50	Slate	2993	2997
Black Slate	50	95	Total Depth		2997
Sand	95	140	Gas 2525 Big Lime		
Slate	140	165	Gas 2643-2650 Weir		
Sand	165	210			
Slate	210	250			
Sand	250	295			
Slate & Shells	295	370			
Coal	370	373			
Lime	373	410			
Coal	410	416			
Slate	416	480			
Lime	480	505			
Sand	505	575			
Slate & Shells	575	780			
Lime	780	815			
Slate & Shells	815	1079			
Sand	1079	1330			
Slate	1330	1355			
Sand	1355	1460			
Slate	1460	1495			
Sand	1495	1695			
Slate	1695	1720			
Lime	1720	1750			
Slate	1750	1775			
Lime	1775	1825			
Sand	1825	1875			
Slate & Shells	1875	1925			
Red Rock	1925	1935			
Lime Shells	1935	1960			
Red Rock	1960	1980			
Lime	1980	2005			
Red Rock	2005	2010			
Lime	2010	2050			
Slate	2050	2054			
Sand	2054	2105			
Red Rock	2105	2110			
Slate & Shells	2110	2185			
Lime	2185	2228			
Slate Break	2228	2231			
Maxon Sand	2231	2265			
Lime	2265	2300			
Slate & Shells	2300	2327			
Lime Little	2327	2347			
Pencil Cave	2347	2350			
Big Lime	2350	2535			
Injun Sand	2535	2590			
Slate	2590	2610			
Weir Shells	2610	2630			
Weir Sand	2630	2670			
Slate & Shells	2670	2985			
Brown Shale	2985	2990			



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
MAY 9 1973

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 May 4, 1973

Surface Owner <u>---</u>	Company <u>Columbia Gas Transmission Corporation</u>
Address <u>---</u>	Address <u>P. O. Box 1273</u>
Mineral Owner <u>David S. Ward, et al</u>	Farm <u>David Ward #56</u> Acres <u>8,000</u>
Address <u>30 Nassau Drive, Great Neck, N. Y. 11021</u>	Location (waters) <u>Buffalo Fork of Hughes Creek</u>
Coal Owner <u>Cannelton Coal Co.</u>	Well No. <u>5589</u> Elevation <u>1565.39' G. 1450 -Bar.</u>
Address <u>Montgomery, WV 25136</u>	District <u>Cabin Creek</u> County <u>Kanawha</u>
Coal Operator <u>Cannelton Coal Co.</u>	Quadrangle <u>Montgomery</u>
Address <u>Same as above</u>	

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 fracturing. This permit shall expire if operations have not commenced by 9-10-73.

Robert L. Todd
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Fred Burdette
Box 190-Cicerone Rt. 984-9263
Sissonville, WV. PH:

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 January 1 1916 by Charles W. Ward, et al made to Cabin Creek Gas Co. and recorded on the 7th day of Sept. 1916, in Kanawha County, Book 31 Page 122

NEW WELL DRILL DEEPER REDRILL X 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 4th day May before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, Columbia Gas Transmission Corp.

(Sign Name) [Signature]
Well Operator
Director, Exploration & Development
P. O. Box 1273
Street
Charleston
City or Town
West Virginia 25325
State

Address
of
Well Operator

*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

**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 W. H. Chapman
 ADDRESS _____ ADDRESS P. O. Box 610, Clendenin, WV 25045
 TELEPHONE _____ TELEPHONE 965-3317
 ESTIMATED DEPTH OF COMPLETED WELL: 2997 ROTARY _____ CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: _____
 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			
20 - 10	818'	818'	None
9 - 5/8			
8 - 5/8	1822'		
7	2353'	2353'	None
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 260 FEET SALT WATER 1660 FEET
 APPROXIMATE COAL DEPTHS 370-73; 410-16
 IS COAL BEING MINED IN THE AREA? Yes BY WHOM? Cannelton Coal Co.

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