

- 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 5 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 5 by the Oil and Gas Division of the Department of Mines Regulations.

Company COLUMBIA GAS TRANSMISSION CORP
 Address CHARLESTON, WEST VIRGINIA
 Farm KING LAND COMPANY
 Tract _____ Acres 5.245 Lease No. 1592
 Well (Farm) No. _____ Serial No. 9789
 Elevation (Spirit Level) 1242.32'
 Quadrangle CLENDENIN, WEST VIRGINIA NC
 County KANAWHA District BIG SANDY
 Engineer Adrian E. Halghman
 Engineer's Registration No. 2330
 File No. 76-65 Drawing No. _____
 Date NOV. 10, 1972 Scale 1" = 800'

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

WELL LOCATION MAP
 FILE NO. 76-2605-PP

+ 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.

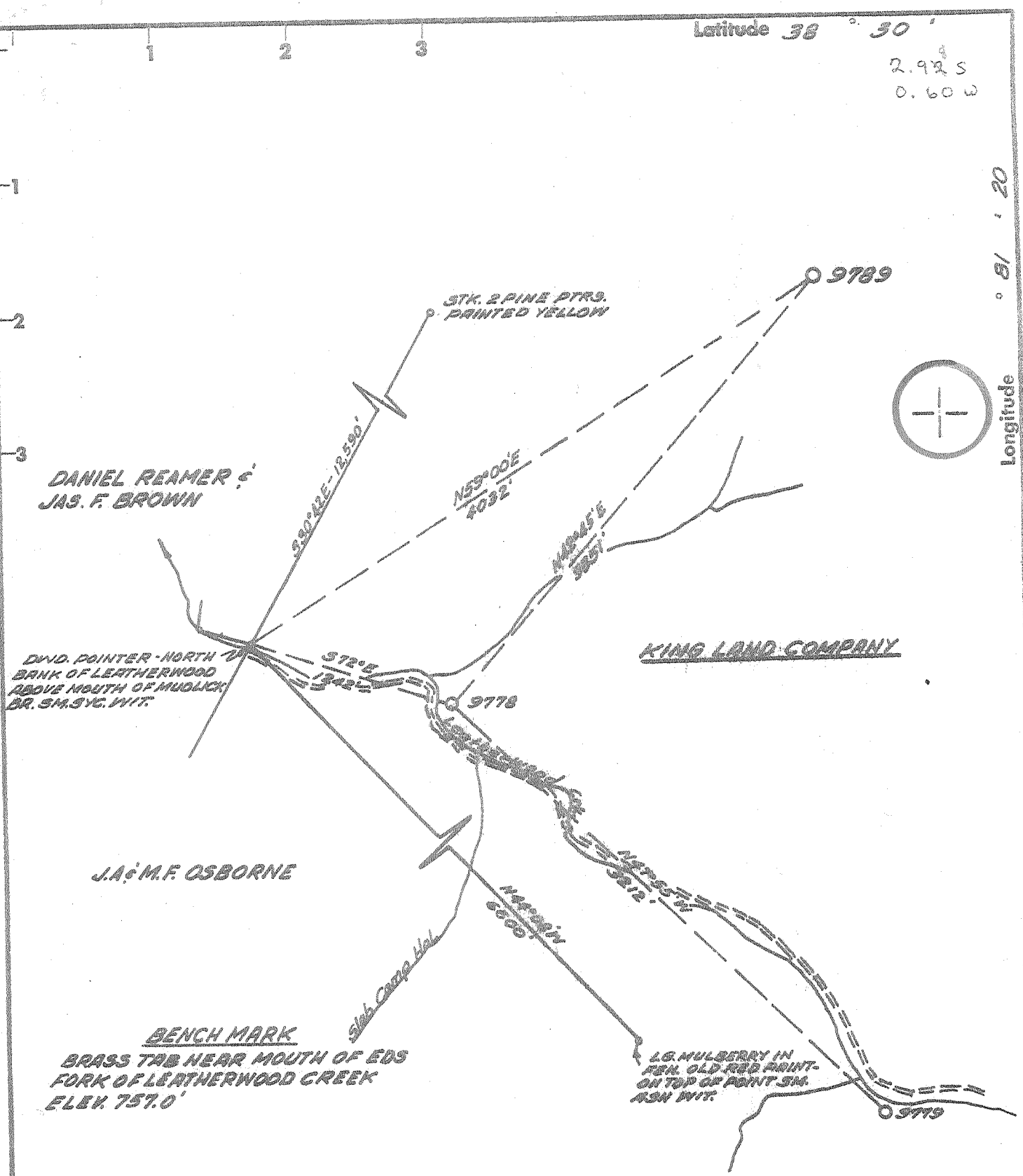
See well

JAN 31 1973

Latitude 38° 30'

2.925
0.60 W

Longitude 81° 20'



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Company COLUMBIA GAS TRANSMISSION CORP
 Address CHARLESTON, WEST VIRGINIA
 Farm KING LAND COMPANY
 Tract _____ Acres 5,245 Lease No. 4592
 Well (Farm) No. _____ Serial No. 9789
 Elevation (Spirit Level) 1242.32'
 Quadrangle CLENDENIN, WEST VIRGINIA NC
 County KANAWHA District BIG SANDY
 Engineer William E. Waldman
 Engineer's Registration No. 2330
 File No. 76-65 Drawing No. _____
 Date NOV. 10, 1972 Scale 1" = 800'

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

WELL LOCATION MAP
FILE NO. 76-65-2605

+ 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.

6-6 Clendenin (220)

Deep Well (orisk) JAN 3 1973
Kam 2605



RECEIVED

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

Rotary
Spudder
Cable Tools
Storage

Quadrangle Clendenin
Permit No. KAN-2605 - P.P.

WELL RECORD

Oil or Gas Well Gas (KIND)
C. NO. LL

Company Columbia Gas Transmission Corporation
Address Charleston, West Virginia
Farm King Land Company Acres 5245
Location (waters) Left Fork Of Leatherwood Creek
Well No. 9789 Elev. 1242.32'
District Big Sandy County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced January 10, 1973
Drilling completed January 20, 1973
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 32 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) 800 bbls water 400 sks 20/40 sand 500 gals. Mud Acid Treating 33,500 ga

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16. 13"	30'	30'	Kind of Packer
13. 9"	224'	224'	
10. 7"	2356'	2356'	Size of
8 1/4. 4"	5448'	5448'	
6 5/8.			Depth set
5 3/16.			
4 1/2.			
3.			Perf. top
2.			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED 7" SIZE 2333 No. Ft. _____ Date _____
Amount of cement used (bags) 345
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 119 MCF
ROCK PRESSURE AFTER TREATMENT 980# HOURS 48
Fresh Water _____ Feet _____ Salt Water 1700 Feet _____
Producing Sand Brown Shale Depth 4400

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock			0	40			
Shale			40	60			
Sand			60	75			
Sandy Shale			75	150			
Red Rock			150	210			
Sand			210	250			
Sandy Shale			250	305			
Sand			305	440			
Sandy Shale			440	460			
Sandy Shale			460	1405			
Sand			1405	1725			
Red Rock			1725	1735			
Sandy Shale			1735	1860			
Lime			1860	1965			
Big Lime			1965	2055			
Red Sandy Shale			2055	2080			
Gray Sand			2080	2120			
Injun Sand			2120	2205			
Weir			2205	2275			
Shale - <u>Brown Sh.</u>			2275	5652			
Lime - <u>Onondaga</u>			5652	5800			
Oriskany			5800	5812			
Plugged Back To				4400			

Logs Ran:
Gamma Ray
Density
Temperature

KAN:2605

5652
1242
2410



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
DEC 21 1972

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE December 18, 1972

Surface Owner Holly Land Co.

Company Columbia Gas Transmission Corp.

Address Kanawha Valley Bank, Trustee
for Marion S. Swartz, et al

Address P O Box 1273, Charleston, WV 25326

Mineral Owner Kanawha Valley Bank, Trustee
for Marion S. Swartz, et al

Farm The King Land Co. Acres 5245

Address P O Box 1793, Charleston, WV 25326

Location (waters) Leatherwood Creek

Coal Owner Kanawha Valley Bank, Trustee
for Marion S. Swartz, et al

Well No. 9789 Elevation 1242.32'

Address P O Box 1793, Charleston, WV 25326

District Big Sandy County Kanawha

Coal Operator Not Operated

Quadrangle Clendenin, W. Va.

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 4/22/73.

Mr. Fred
INSPECTOR TO BE NOTIFIED Burdette
Box 190 PH: 984-9263
Cyceon Pt.
Lissonville
W.Va. 25185

Robert T. [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 June 4 1906 by The King Land Company made to South Penn Oil Company and recorded on the 20th day of July 1906 in Kanawha County, Book 14-1/2 Page 183

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.

Very truly yours, Columbia Gas Transmission Corp.

(Sign Name) [Signature]
Well Operator
Supt. Civil Engr. Dept.
P. O. Box 1273

Address Charleston
of Charleston
Well Operator 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-2605 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 Walter Chapman
 ADDRESS _____ ADDRESS P O Box 610, Clendenin, WV 25051
 TELEPHONE _____ TELEPHONE 965-3317
 ESTIMATED DEPTH OF COMPLETED WELL: 5620' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Dev. Shale
 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 FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	30'	30'	To Surface
9 - 5/8	850'	850'	To Surface
8 - 5/8			
7	2300'	2300'	
5 1/2			
4 1/2	5620'	5620'	
3			
2			Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS -- FEET -- SALT WATER 1390 FEET 1545
 APPROXIMATE COAL DEPTHS 513, 652, 712
 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