

0655 7.5 loc 15'
 38° 30' 1.705 1.705
 81° 17' 30" 1.950 4.210 sd

- BENCH MARK -
 U.S.G.S. #N-12 Standard
 Disc in steps at Glendenin
 Grade School. Elev. 630.61'

Fracture
 Before 6/5/29
 New location
 Drill Deeper
 Redrill
 Abandonment 9/19/73

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.

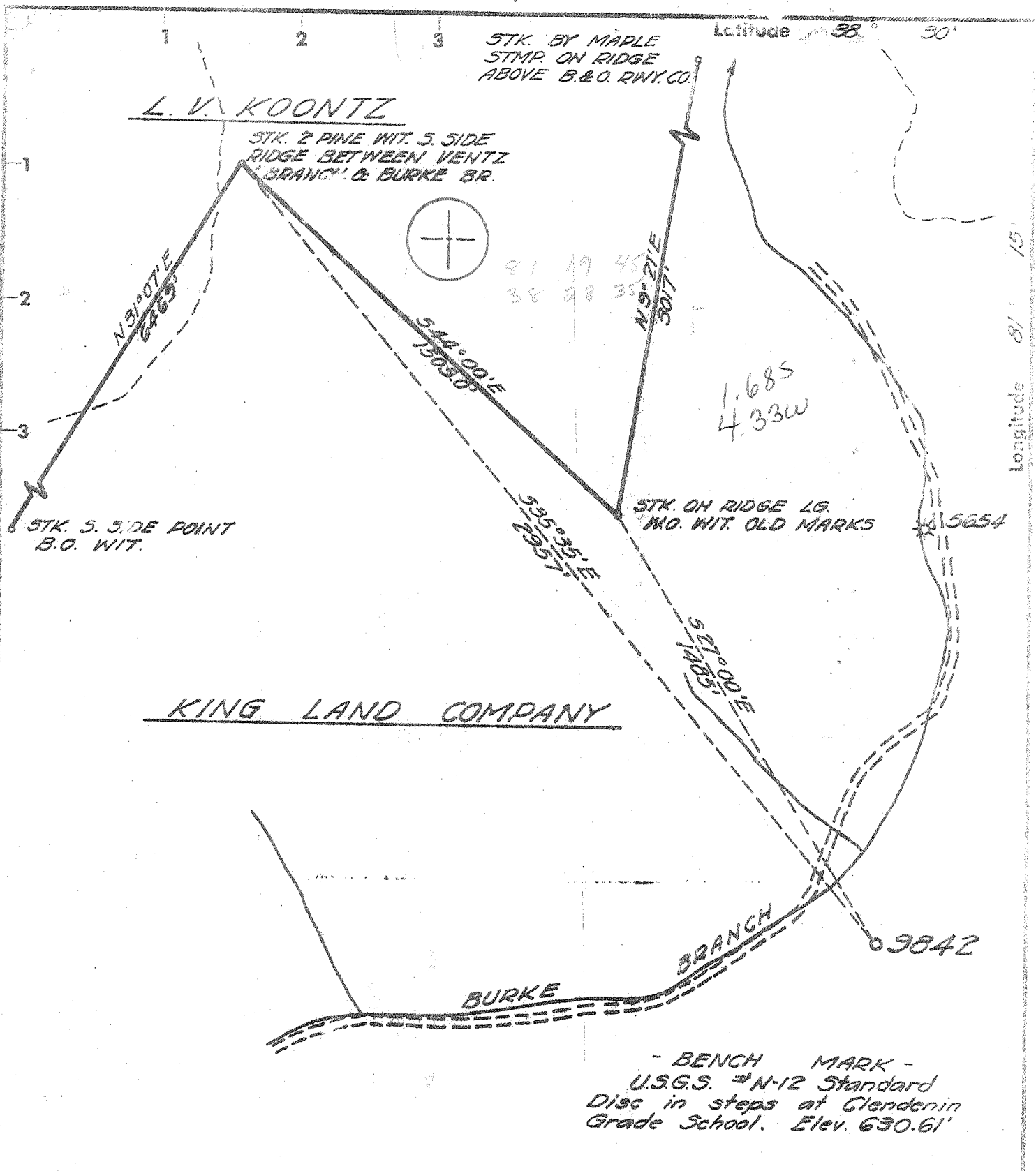
COLUMBIA GAS TRANSMISSION CORP.
 Company
 Address CHARLESTON, W. VA.
 Farm KING LAND COMPANY
 Tract _____ Acres 3245 Lease No. 4592
 Well (Farm) No. _____ Serial No. 9842
 Elevation (Spirit Level) 755.44' NE
 Quadrangle GLENDENIN, W. VA.
 County KANAWHA District BIG SANDY
 Engineer Arthur E. [Signature]
 Engineer's Registration No. 2330
 File No. 78-67 Drawing No. _____
 Date SEPT. 12, 1973 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. Kan-2665-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. 47-039

Deep Well



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

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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.

COLUMBIA GAS TRANSMISSION CORP.
 Company
 Address CHARLESTON, W. VA.
 Farm KING LAND COMPANY
 Tract _____ Acres 5245 Lease No. 4392
 Well (Farm) No. _____ Serial No. 9842
 Elevation (Spirit Level) 755.44' N 9
 Quadrangle GLENDENIN, W. VA.
 County KANAWHA District BIG SANDY
 Engineer William E. [Signature]
 Engineer's Registration No. 2330
 File No. 78-67 Drawing No. _____
 Date SEPT. 12, 1973 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. 78-2665

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle *Kanawha 2665*
Permit No. *47-035*

WELL RECORD

Oil or Gas Well *gas show*
(KIND)

Company	Columbia Gas Transmission Corporation	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address	Charleston, West Virginia	Size			
Farm	King Land Company Acres 5245	16			Kind of Packer
Location (waters)	Burke Branch (Elk River)	13	30	30	Cemented
Well No	9842 Elev. 755	10			Size of
District	Big Sandy County Kanawha	8 1/4 9-5/8"	308	308	Cemented
The surface of tract is owned in fee by King Land Co.		6 3/4 7"	1830	1830	Cemented
Charleston Nat'l. Bank Address Charleston, W. Va.		5-7/16 5 1/2"	4713	4713	Depth set
Mineral rights are owned by Columbia Gas Corp.		4 1/2			
Address Charleston, W. Va.		3			Perf. top
Drilling commenced	December 5, 1973	2			Perf. bottom
Drilling completed	December 14, 1973	Liners Used			Perf. top
Date Shot	From - To -				Perf. bottom

Open Flow	/10ths Water in	Inch	Attach copy of cementing record		
	/10ths Merc. in	Inch	13-3/8" 30'	15 bags	
Volume		Cu. Ft.	CASING CEMENTED 9-5/8" SIZE 308'	No. Ft 105	cu. ft.
Rock Pressure	lbs.	hrs.	Amount of cement used (bags) 7" 1810'	188	cu. ft.
Oil	bbls., 1st 24 hrs		5 1/2" 1213'	75	bags
WELL ACIDIZED (DETAILS)			Name of Service Co. Dowell & Halliburton		
WELL FRACTURED (DETAILS)			COAL WAS ENCOUNTERED AT 150 FEET		INCHES
			FEET INCHES FEET INCHES		
			FEET INCHES FEET INCHES		

Attempted stiff foam frac -- couldn't pump into formation.

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 15,000 cu. ft. *Gas show*

ROCK PRESSURE AFTER TREATMENT - HOURS -

Fresh Water Yes Feet 50' Salt Water Yes Feet 1080'

Producing Sand Brown Shale Depth 1810' - 5169'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand				150	Fresh water	30'	
Coal			150	151			
Sand			151	322			
White Sand			322	350			
Shale			350	500			
Sand & Shale			500	940			
White Shale			940	995			
Gray Shale			995	1080			
White Sand			1080	1350	Salt Water	1080'	
Sandy Shale			1350	1360			
Little Lime			1360	1390			
Big Lime			1390	1530			
Injun			1530	1560			
Shale Sand			1560	1610			
Red Rock			1610	1620			
Sandy Shale			1620	1650			
Weir Sand			1650	1790			
Sandy Shale			1790	1810			
Shale			1810	5169			
Onodaga			5169	5200 T.D.			



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 5 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 October 3, 1973

Surface Owner King Land Company

Company Columbia Gas Transmission Corp.

Address Kanawha Valley Bank, Trustee for

Address P. O. Box 1273, Chas., W. Va. 25325

Mineral Owner Marion S. Swartz, et al

Farm King Land Company Acres 5245

Address P. O. Box 1793, Chas., W. Va. 25326

Location (waters) Burke Branch of Elk River

Coal Owner Same as above

Well No. 9842 Elevation 755.44'

Address _____

District Big Sandy County Kanawha

Coal Operator Not operated

Quadrangle Clendenin

Address _____

INSPECTOR TO BE NOTIFIED Mr. Fred Burdette
Box 190 PH: 984-9263

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 9-9-74.

[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 April 25 1919 by The King Land Company made to Col. Gas Transmission Corp. and recorded on the 6th day of May 1919, in Kanawha County, Book 36 Page 294

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 3rd day October 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 and Development

Address P. O. Box 1273
of _____ Street
Well Operator Charleston
City or Town
W. Va. 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-2665 PERMIT NUMBER

47-039

[Signature]

