

BLACK BAND COAL & COKE CO.
5171⁹/₈ Tract
Coal not operated.

FRACTURE 3/16/78
PART. PLUG 8/7/75
New Location
Drill Deeper
Abandonment

Company	COLUMBIA GAS TRANS CORP
Address	CHARLESTON, W.VA.
Farm	BLACK BAND COAL & COKE CO.
Tract	Acres 12,007. ⁹ Lease No. 16715
Well (Farm) No.	11 Serial No. 5330
Elevation (Spirit Level)	996' (set)
Quadrangle	CHARLESTON SC
County	KANAWHA District LOODON
Engineer	G. A. Cunningham
Engineer's Registration No.	659
File No.	62-53 Drawing No.
Date	SEPT. 17, 1943 Scale 1"=1320'

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

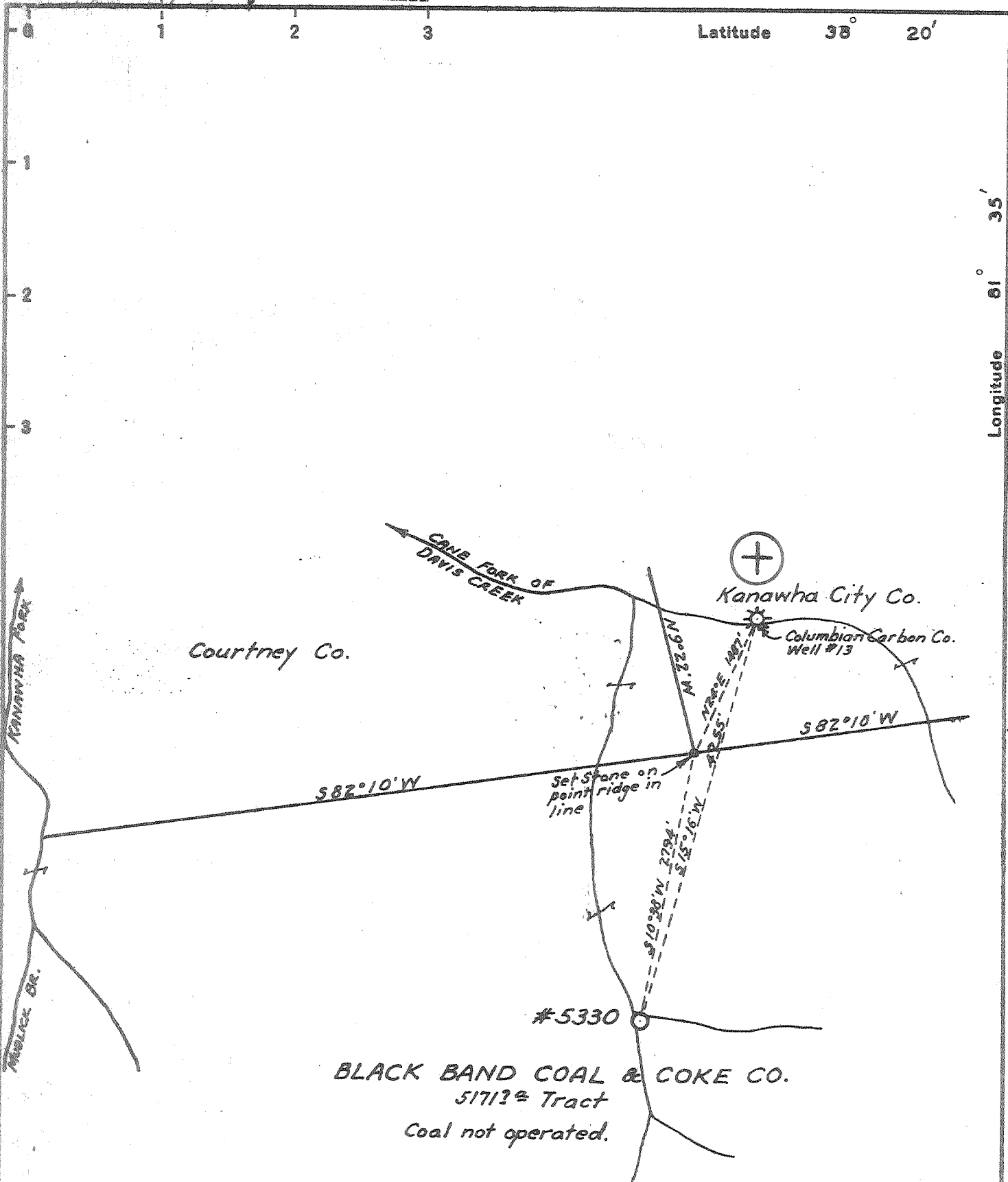
WELL LOCATION MAP

FILE NO. KAN-1069-DRILL DEEPER
PARTIAL PLUG-FRAC 16-65

+ 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 MAR 29 1978



PART. PLUG 8/7/75

New Location
 Drill Deeper
 Abandonment

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W.VA.
 Farm BLACK BAND COAL & COKE CO.
 Tract Acres 12,007.9 Lease No. 16715
 Well (Farm) No. 11 Serial No. 5330
 Elevation (Spirit Level) 996'
 Quadrangle CHARLESTON SC
 County KANAWHA District LODDON
 Engineer J. A. Cunningham
 Engineer's Registration No. 659
 File No. 62-53 Drawing No.
 Date SEPT. 17, 1943 Scale 1" = 1320'

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

WELL LOCATION MAP

FILE NO. KAN-1069-DRILL DEEPER
 PARTIAL PLUG 6-16-65

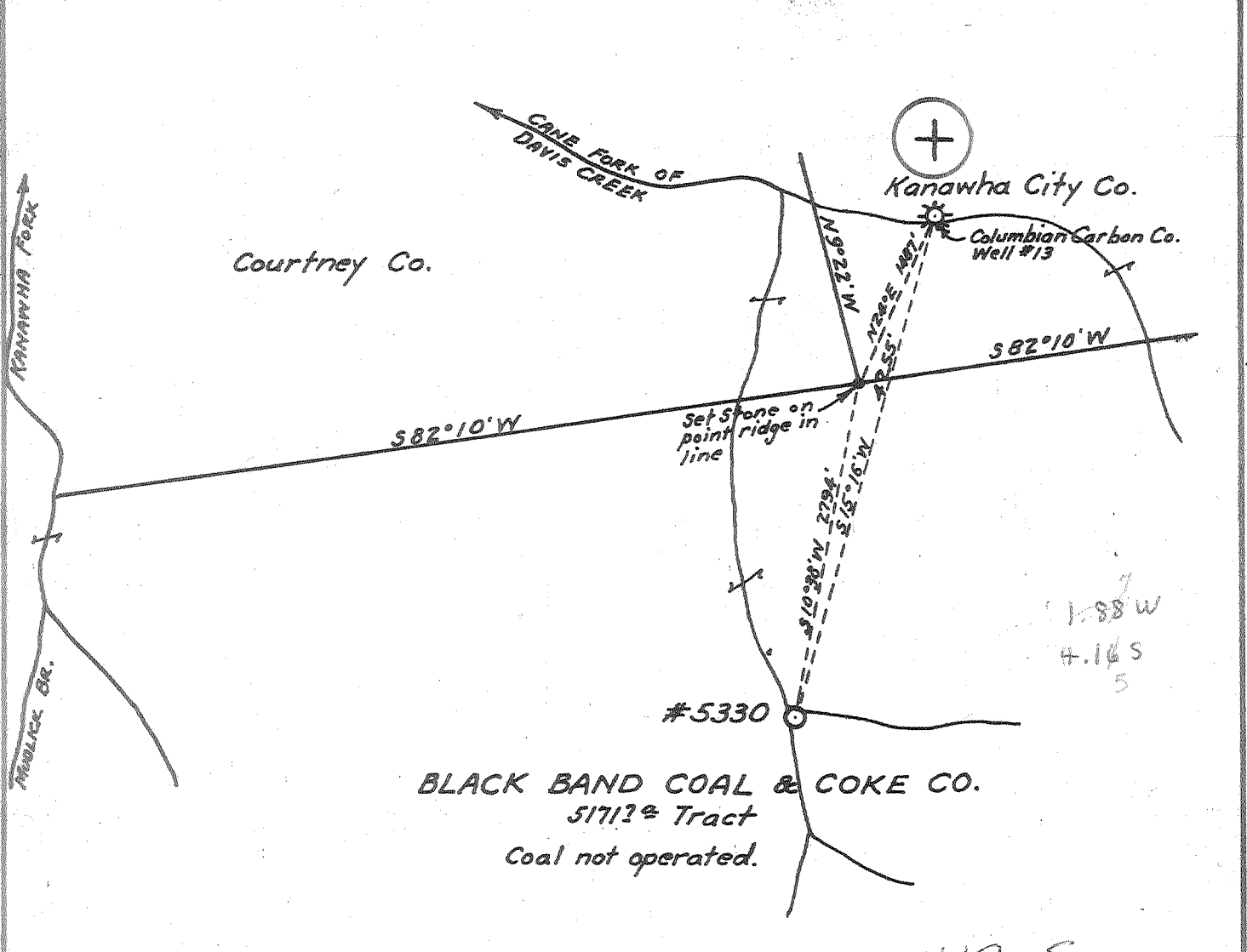
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47-039

Latitude 38° 20'

Longitude 81° 35'



BLACK BAND COAL & COKE CO.
5171²/₃ Tract
Coal not operated.

1.88 W
4.14 S
3

4.12 S.
1.85 W.
BSC (J-5)

New Location...
 Drill Deeper.....
 Abandonment..... Vol XVI, p B.70
 Examined by R.R. Flowers

Company	UNITED FUEL GAS CO.
Address	CHARLESTON, W.VA.
Farm	BLACK BAND COAL & COKE CO.
Tract	Acres 12,007.9 Lease No. 16715
Well (Farm) No.	11 Serial No. 5330
Elevation (Spirit Level)	996'
Quadrangle	CHARLESTON - 5C
County	KANAWHA District LODDON
Engineer	<i>R.A. Cunningham</i>
Engineer's Registration No.	659
File No.	62-53 Drawing No.
Date	SEPT. 17, 1943 Scale 1" = 1320'

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

WELL LOCATION MAP

FILE NO. KAN-1069-DRILL DEEPER
6-16-65

+ 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.

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IMPERIAL TRACING CLOTH 2406-2805 3737-3965
K & E CO., N.Y.
Samples B-G 4394-4400, 4585-4775 626 238 Deep Well
5400-5520'

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

Permit No. Kan 1069
Charleston Quad.

Gas Well
CASING & TUBING

Company	United Fuel Gas Company
Address	Charleston, W.Va.
Farm	Black Band Coal & Coke Co A-12,008
Location	Cane Fork of Davis Creek 13 462 462
Well No	5330 Elev. 996.0 8½ 1440 1440
District	Loudon Kanawha County 6 5/8 4632 4682
Surface	
Mineral	Mrs. W.C. Hardy, Charleston, W.Va.
Commenced	Nov. 9, 1943
Completed	Feb. 28, 1944
Date shot	3 - 1.44 Depth 4762 to 4783
Volume	with 40 qts. Coal at 74' 84";
Fresh Water	Gas Well (146 McE in Oriskany) 323' 24"
Salt Water	60' H.F.
	815' H.F.

Soil	1	16	Red Lime	1575	1582
Soft Sand	16	42	Injun Sand	1582	1624
Sand H	42	70	Lime Shells	1624	1634
Blue Slate	70	74	Slate & Shells	1634	1750
Coal	74	81	White Slates	1750	1838
White Slate	81	148	Lime	1838	1860
Lime	148	160	White Slate	1860	1900
Sand	160	182	Lime & Sand Shells	1900	1986
Slate & Shells	182	232	Gray Slate	1986	2009
Sand	232	274	Brown Shale	2009	2021
Black Slate	274	283	Berea Sand	2021	2039
Blue Lime	283	320	Lime	2039	2181
Slate	320	323	Gray Bl. & Shs.	2181	2350
Coal	323	325	Slate	2350	2445
Slate & Shells	325	338	Lime	2445	2465
Lime	338	359	Slate & Shells	2465	3235
Slate & Shells	359	380	Br. Shale	3235	3271
Blue Lime	380	392	Slate & Lime	3271	3400
Slate	392	412	Gray Shale	3400	3540
Lime	412	458	Brown Shale	3540	3860
Sand	458	495	White Slate	3860	4300
Slate & Shells	495	590	Br. Shale	4300	4578
Sand	590	615	Slate & Lime	4578	4615
Slate & Shells	615	635	Black Shale	4615	4661
Lime	635	700	Corniferous Lime	4661	4759
Sand	700	828	Oriskany Sand	4759	4782
Black Slate	828	836	Lime	4782	4784
Sand	836	905	Sandy Lime	4784	4786
Slate	905	912	Lime	4786	4794
Lime	912	925	TOTAL DEPTH		4794
Black Slate	925	936			
Lime	936	945	Gas 4765-4769		
Black Slate	945	971	Gas 751-762 Show		
Lime	971	978			
Sand	978	1118			
Slate-White	1118	1125			
Sand	1125	1160			
Gray Slate	1160	1164			
Maxon Sand	1164	1193			
Red & Blue Rock	1193	1203			
Gray Slate	1203	1209			
Lime	1209	1227			
Sand	1227	1296			
Break	1296	1299			
Lime & Sand	1299	1334			
Break	1334	1337			
Black Lime	1337	1368			
Break	1368	1372			
Lime	1372	1376			
Break	1376	1383			
Little Lime	1383	1398			
Pencil Cave	1398	1402			
Big Lime	1402	1575	Show gas 1545		



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Oil or Gas Well Gas
(KIND)

*Miss Whitt
for Post
5-13-66
R1*

Quadrant Charleston

DRILL DEEPER -
WELL RECORD

Permit No. KAN-1069-D

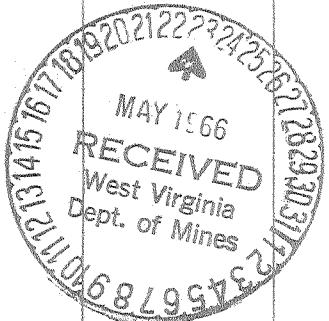
Company United Fuel Gas Company
Address P. O. Box 1273 Charleston, W. Va. 25325
Farm Black Band Coal & Coke Co. Acres 300
Location (waters) Cane Fork
Well No. 5330 Elev. 1050
District Loudon County Kanawha
The surface of tract is owned in fee by _____
Mineral rights are owned by Frank A. Hardy, et al
Rupert Route Address Lewisburg, W. Va.
Drilling commenced - -
Drilling completed 1-25-66
Date Shot From _____ To _____
With _____

Casing and Tubing Size	Used in Drilling	Left in Well	Packers
16			Kind of Packer
13			Size of
10			Depth set
8 1/4			
6 3/8			
5 3/16			
4 1/2			5502' Cemented with 100 sacks
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 12,900,000 - Newburg Cu. Ft.
Rock Pressure 2000 lbs. 24 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) _____

RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____
ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water _____ Feet Salt Water _____ Feet
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
DRILLED DEEPER							Completed Drilling 1-25-66
Lime & Dolomite			4810	5459			4 1/2" casing 5502' Cemented with 100 sacks
Newburg			5459	5483			Perforated 4 1/2" casing from 5464 1/2 - 5467 1/2, with 13 jets.
Dolomite			5483	5522			
Total Depth			5522'				Fractured Newburg 1-31-66 with 500 gallons mud acid, 670 bbls. water, 24,000# 20-40 Sand, 750# J-111, 500# J-84, 20 gallons F-52. Final open flow after fracture - 12,900 M. Shut in 2-4-66 in 4 1/2" casing.





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR 15 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.

DATE March 14, 1978

Surface Owner _____

Company Columbia Gas Transmission Corporation

Address _____

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

Mineral Owner Frank A. Hardy et al

Farm Black Band Coal & Coke Acres 12,008

Address Rupert Route, Lewisburg, W. Va. 24901

Location (waters) Cane Fork of Davis Creek

Coal Owner Brooks McCabe

Well No. 5330 Elevation 996'

Address Capitol City Bldg., Charleston, W. Va. 25301

District Loudon County Kanawha

Coal Operator Not Operated

Quadrangle Charleston West

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 fracturing. This permit shall expire if operations have not commenced by 7-16-78.

INSPECTOR
TO BE NOTIFIED Martin Nichols

ADDRESS P. O. Box 554, Clendenin, W. Va.

PHONE 548-6993

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 1 1919 by Black Band Coal & Coke made to United Fuel Gas Company and recorded on the _____ day of _____ 1977, in Kanawha County, Book 36 Page 48

_____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 _____ 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

Very truly yours,

(Sign Name) [Signature]

Director, Well Operator
Exploration and Development

P. O. Box 1273

Street

Charleston,

City or Town

West Virginia 25325

State

Address
of
Well Operator

_____KAN-1069-FRAC_____PERMIT NUMBER

47-039

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by [Signature]
Director, Exploration and Development

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 Larry Friend _____
 ADDRESS _____ ADDRESS P. O. Box 610, Clendenin, W. Va. _____
 TELEPHONE _____ TELEPHONE 965-3317 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 5054 _____ ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany _____
 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 - 10			
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			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? _____ 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