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

WELL LOCATION MAP
FILE NO. 1755-554

- Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.
- Denotes one inch spaces on border line of original tracing.

COMPANY: KENTUCKY CENTRAL & COMPANY
Address: P.O. BOX 151 RIDERWOOD-MARYLAND
Farm: EARL E. CROW
Tract: CROW Acres 48.2
Well (Farm) No. EARL CROW
County: MARSHALL District: CLAY
Engineer: John R. Schuller
Engineer's Registration No. 0214
File No. Drawing No.
Date: 1/5/73 Scale 1" = 400'

Minimum Error of Closure 2500
Elevation Bubble Under 1 Foot
Source of Elevation U.S.G.S. S.M. at ROSBYS ROCK ELEV. 776

1, 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.

New Location: X
Drill Deeper: □
Abandonment: □
State of West Virginia
Department of Mines
Oil and Gas Division
Well Records

Cameron Quadrangle, Glen Easton, West Va.
Permit No. 554

Company: Kentucky Central and Company
Address: P.O. Box 161, Riderwood, Md. 21139

Farm: Earl Crowe #1
Acres: 45.0

Location (waters): Big Graves Creek
Well No. 1: Elev. 1804'
District: Clay
County: Marshall
The surface of the tract is owned in fee by Earl Crowe

Address: Glen Easton, West Virginia
Mineral rights are owned by Kentucky Central
Box 161 Address: Riderwood, Md. 21139

Drilling Commenced: 10/20/72
Drilling Completed: 2-12-73

Size of Well: 20-16
Cond. of Well: 13.10'

9.5/8
8.5/8
7
5 1/2
4 1/2
3
2
Liners Used

Attatch copy of cementing record.

Coal was encountered at
Fresh water
Salt Water
Producing Sand

Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | Remarks
----------|-------|-------------|----------|-------------|------------------|------------------
Silt | water |            | 0        | 8           | 450 of 8 5/8 casing run and cemented through coal to service 1059 of 7 O.D. casing

e |        |             | 8        | 95          |                  |                  |
Black Slate |        |             | 95       | 100          |                  |                  |
Slate & Shale |        |             | 10.1     | 30.2         |                  |                  |
Black Slate & Coal | | | 30.2 | 31.8 | | |
Lime |        |             | 31.8     | 33.0         |                  |                  |
Coal |        |             | 33.0     | 33.6         |                  |                  |
|        |             | 33.6     | 42.4         |                  |                  |
Red Rock |        |             | 42.4     | 430          |                  |                  |
Slate & Shell |        |             | 430      | 490          |                  |                  |
Red Shale |        |             | 490      | 550          |                  |                  |
Slate & Lime |        |             | 550      | 745          |                  |                  |
Black Slate |        |             | 745      | 760          |                  |                  |
Mud Lime |        |             | 760      | 780          |                  |                  |
Red Rock |        |             | 780      | 780          |                  |                  |
Slate & Lime |        |             | 788      | 864          |                  |                  |
Sand |        |             | 864      | 884          |                  |                  |
Slate & Lime |        |             | 894      | 910          |                  |                  |
Sand |        |             | 910      | 942          |                  |                  |
Slate |        |             | 942      | 950          |                  |                  |
Broken Sand & Gas |        |             | 950      | 955          |                  |                  |
Shale |        |             | 955      | 1055         |                  |                  |
Lime (Gritty) |        |             | 1055     | 1090         |                  |                  |

* Indicates Electric Log tops in the remarks section.

Mar 19 1973
<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top Feet</th>
<th>Bottom Ft.</th>
<th>Oil, Gas or Water</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>Black Slate &amp; Shells</td>
<td></td>
<td></td>
<td>1120</td>
<td>1164</td>
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<tr>
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<td></td>
<td></td>
<td>1124</td>
<td>1173</td>
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</tr>
<tr>
<td>Silt</td>
<td></td>
<td></td>
<td>1173</td>
<td>1219</td>
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<tr>
<td>Slate Black</td>
<td></td>
<td></td>
<td>1219</td>
<td>1228</td>
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<td>1228</td>
<td>1237</td>
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<tr>
<td>Lime</td>
<td></td>
<td></td>
<td>1237</td>
<td>1277</td>
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</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td>1277</td>
<td>1310</td>
<td></td>
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</tr>
<tr>
<td>Lime</td>
<td></td>
<td></td>
<td>1310</td>
<td>1340</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Slate &amp; Shells</td>
<td></td>
<td></td>
<td>1340</td>
<td>1380</td>
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<td></td>
</tr>
<tr>
<td>Clay</td>
<td></td>
<td></td>
<td>1380</td>
<td>1411</td>
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</tr>
</tbody>
</table>

Conemaugh Pottsville T.D.

Date ___________________________ 19____

APPROVED _________________________, Owner

By_____________________________ (Title)
TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner: Earl Crow
Address: Glen Easton, West Va.

Mineral Owner: Kentucky Central and Company
Address: P.O. Box 161, Riderwood, Md. 21139

Coal Owner: Hannah Coal Company
Address: Moundsville, West Va. 26041

Coal Operator: Hannah Coal Company
Address: Moundsville, West Va. 26041

DATE: 1/9/73

Company: KENTUCKY CENTRAL AND COMPANY
Address: P.O. Box 161, Riderwood, Md. 21139
Farm: Earl E. Crowe
Acres: 45
Location (waters): Big Graves Creek
Well No.: #1
Elevation: 804
District: Clay
County: Marshall
Quadrangle: Glen Easton, West Va.

INSPECTOR TO BE NOTIFIED

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 November 21, 1972 by Earl E. Crow made to Cecil Tedrow & Ezra Hoge and recorded on the 4th day of Dec.

1972 in Marshall County, Book 427 Page 733

XXX 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 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 1/9/73 day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

CONVEYED TO KENTUCKY CENTRAL AND COMPANY BY ASSIGNMENT FROM CECIL TEDROW & EZRA HOGE.

Very truly yours,

KENTUCKY CENTRAL AND COMPANY
P.O. BOX 161
RIDERWOOD
MARYLAND 21139

*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.
THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XXXX DRILLING CONTRACTOR: (If Known)
NAME H.H. Elder & Son
ADDRESS Cairo, West Virginia
TELEPHONE
ESTIMATED DEPTH OF COMPLETED WELL: 900
PROPOSED GEOLOGICAL FORMATION: Coal Sand
TYPE OF WELL: OIL GAS XXXX COMB. STORAGE DISPOSAL RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

<table>
<thead>
<tr>
<th>CASING AND TUBING SIZE</th>
<th>USED FOR DRILLING</th>
<th>LIFT IN WELL</th>
<th>CEMENT FILL UP OR SACKS - CUBIC FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 - 16</td>
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<tr>
<td>13 - 10</td>
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<tr>
<td>9 - 5/8</td>
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<tr>
<td>8 - 5/8</td>
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<td>450 feet</td>
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<td>7</td>
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<td></td>
<td></td>
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<tr>
<td>5 3/4</td>
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<tr>
<td>4 3/4</td>
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<tr>
<td>3</td>
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<td>2</td>
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<td></td>
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<tr>
<td>1 1/2</td>
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</tr>
</tbody>
</table>

APPROXIMATE FRESH WATER DEPTHS Feet
APPROXIMATE SALT WATER DEPTHS Feet
APPROXIMATE COAL DEPTHS 410 feet
IS COAL BEING MINED IN THE AREA? YES BY WHOM? Hannah Coal Co.

TO DRILL:
- SUBMIT FIVE (5) COPIES OF OG-1 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 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
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPlicate. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

Hannah Coal Company
Coal Operator or Owner
Moundsville, West Va. - 26041
ADDRESS

Kentucky Central and Company
NAME OF WELL OPERATOR
P. O. Box 161, Riderwood, Md., 21130
COMPLETE ADDRESS

March 6, 1973
WELL AND LOCATION
Clay District
Marshall County

Well No. #1 - 554

Earl E. Crowe
LEASE OR PROPERTY OWNER

Glen Easton, West Virginia
ADDRESS

Farm

STATE INSPECTOR SUPERVISING PLUGGING: Harry Stevens

STATE OF WEST VIRGINIA,

County of Ritchie

H. H. Elder & Son and being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Kentucky Central and Company well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 19th day of March, 1973, and that the well was plugged and filled in the following manner:

<table>
<thead>
<tr>
<th>FORMATION</th>
<th>FILLING MATERIAL</th>
<th>PLUG USED</th>
<th>CASING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1170 - 114</td>
<td>Cement</td>
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<tr>
<td>1145 - 940</td>
<td>Gel 6%</td>
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<tr>
<td>940 - 885</td>
<td>Cement</td>
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<tr>
<td>885 - 426</td>
<td>Gel 6%</td>
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</tr>
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<td>426 - 282</td>
<td>Cement</td>
<td></td>
<td></td>
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<tr>
<td>282 - 20</td>
<td>Gel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 to Surface</td>
<td>Cement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

and that the work of plugging and filling said well was completed on the 20th day of March, 1973.

And further deponents saith not.

H. H. Elder & Son

Sworn to and subscribed before me this 7th day of April, 1973.

My commission expires: May 9, 1973

Notary Public

Permit No. MA9554-P

APR 2 1973