

Coal Mines in Illinois
Viola Quadrangle
Mercer County, Illinois

Rock Island Coal

This map accompanies the Coal Mines Directory for the Viola Quadrangle. Consult the directory for a complete explanation of the information shown on this map.

Mining Method

- Room & Pillar (RP)
- Room & Pillar Basic (RPB)
- Modified Room & Pillar (MRP)
- Room & Pillar Panel (RPP)
- Blind Room & Pillar (BRP)
- Checkerboard Room & Pillar (CRP)
- High Extraction Retreat (HER)
- Longwall (LW)
- Underground, Method Unknown
- Strip Mine
- Auger Mine
- General Area of Mining

Source of Mine Outline

- Final Mine Map
- Not Final Mine Map
- Undated Mine Map
- Incomplete Mine Map
- Secondary Source Map

Tipple, Shaft, Slope, Drift Locations

- Strip Mine Tipple - Active
- Strip Mine Tipple - Abandoned
- Mine Shaft - Active
- Mine Shaft - Abandoned
- Mine Slope - Active
- Mine Slope - Abandoned
- Mine Drift - Active
- Mine Drift - Abandoned
- Air Shaft
- Uncertain Location
- Uncertain Type of Opening

Mine Annotation
(space permitting)

Company
Mine Name
ISGS Index No., Years of Operation

Disclaimer
Please check the Coal Section at the Illinois State Geological Survey's web site at <http://www.isgs.illinois.edu> for the most up-to-date version of these products.

Note that each quadrangle scale mined-out area map requires the use of the associated text directory for full explanation of map features and mine attributes. Also note that some quadrangles have multiple seams of mining and therefore more than one map may be available for a particular quadrangle. Please take care to check for multiple maps, as extensive mining may exist in the other seams.

The maps and digital files used for these studies were compiled from data obtained from a variety of public and private sources and have varying degrees of completeness and accuracy. This compilation map presents reasonable interpretation of the geology of the area and is based on available data. Locations of some mine features may be offset by 500 feet or more due to errors in the original source maps, the compilation process, digitizing, or a combination of these factors. These data are not intended for use in site-specific screening or decision-making. Use of these documents does not eliminate the need for detailed studies to fully understand the geology of a specific site. The Illinois State Geological Survey, Prairie Research Institute, or the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this data set and accept no liability for the consequences of decisions made by others on the basis of the information presented here.

These maps were designed for use at 1:24,000. Enlarging the map may reduce accuracy, as the original scale of the source maps used to compile the outlines shown varies from 1:400 to 1:150,000, and some mine locations are known only from text descriptions. See the accompanying mine directory for the original scale of the source map used for a specific mine to check accuracy of a given portion of the map. Areas with no mines shown may still be undetermined; see the unlocated mines list at the back of each mine directory.

The image of the U.S.G.S. topographic base map was projected from the original UTM to Lambert Conformal Conic.

Other Areas Depicted

- Non-Coal Mines

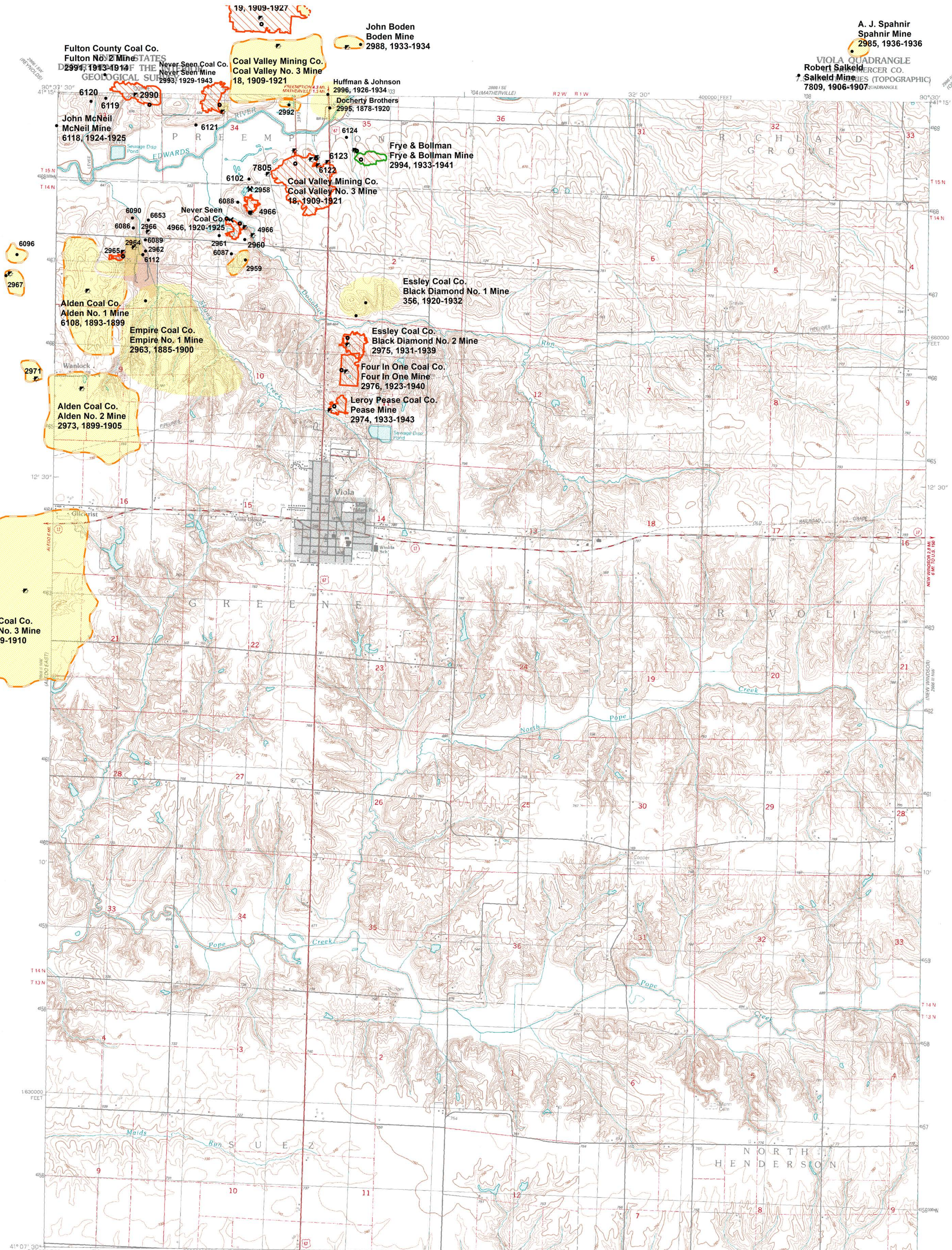
Other Points Depicted

- Non-Coal Mines

Location



Northwestern Clay Mfg.
Northwestern Mine
2956, 1907-1908



Base Map Produced by the United States Geological Survey
Control by USGS and NOS/NOAA
Compiled from aerial photographs taken 1986
Field checked 1989. Map edited 1992
Projection and 10,000-foot grid ticks: Illinois coordinate system, west zone (transverse Mercator)
1000-meter Universal Transverse Mercator grid, zone 15
1927 North American Datum
The difference between 1927 North American Datum and North American Datum of 1983 (NAD 83) for 7.5-minute intersections is given in USGS Bulletin 1875. The NAD 83 is shown by dashed corner ticks
Gray tint indicates areas in which only landmark buildings are shown
Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1992 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SCALE 1:24,000
Kilometers
Meters
Feet
Miles
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1989
THIS MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND ILLINOIS GEOLOGICAL SURVEY, CHAMPAIGN, ILLINOIS 61820
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Interstate route
Light-duty road, hard or improved surface
Unimproved road
U. S. Route
State Route

VIOLA, ILL.
NE 1/4 ALADEX 15 QUADRANGLE
41090-B5-TF-024
1992



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Illinois State Geological Survey
615 E. Peabody Dr.
Champaign, IL 61820

Mine Outlines Compiled by
C. Chenoweth
June 2018

DIRECTORY OF COAL MINES IN ILLINOIS

7.5-MINUTE QUADRANGLE SERIES

VIOLA QUADRANGLE

MERCER COUNTY

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2018

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Cover photo Track-mounted duckbill loading machine at a Peabody Coal Company mine, ca. 1915.

DISCLAIMER: The accuracy and completeness of mine maps and directories vary with the availability of reliable information. Maps and other information used to compile this mine map and directory were obtained from a variety of sources and the accuracy of some of the original information cannot be verified. Consequently, the Illinois State Geological Survey (ISGS) cannot guarantee the mine maps are free of errors and disclaims any responsibility for damages that may result from actions or decisions based on them.

The ISGS updates the maps and directories periodically, and welcomes any new information or corrections. Please contact the Coal Section of the ISGS at the address shown on the title page of this directory, or telephone (217) 244-4610.

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INTRODUCTION

Coal has been mined in 76 counties of Illinois. More than 7,400 coal mines have operated since commercial mining began in Illinois about 1810; fewer than 30 are currently active. To detail the extent and location of coal mining in Illinois, the Illinois State Geological Survey (ISGS) has compiled maps and directories of known coal mines. The ISGS offers maps at a scale of 1:100,000 and accompanying directories for each county in which coal mining is known to have occurred. Maps at a scale of 1:24,000 and accompanying directories, such as this, are available for selected quadrangles. Contact the ISGS for a list of these quadrangles.

These larger scale maps show the approximate positions of mines in relation to surface features such as roads and water bodies, and indicate the mining method used and the accuracy of the mine boundaries. The maps are useful for locating mine boundaries relative to specific properties and for assessing the potential for subsidence in an area. Mine boundaries compiled from final mine surveys are generally shown within 200 feet of their true position. As a result of poor cartographic quality and inaccuracies in the original mine surveys, boundaries of some older mines may be mislocated on the map by 500 feet or more. Original mine maps should be consulted in situations that require precise delineation of mine boundaries or internal workings of mined areas.

This directory serves as a key to the accompanying mine map and provides basic information on the coal mines in the quadrangle. The directory is composed of two parts. Part I explains the symbols and patterns used on the accompanying map and the summary data presented for each mine. Part II numerically lists the mines in the quadrangle and summarizes the geology and production history of each mine. Total production for the mine, not the portion in the quadrangle, is given.

MINING IN THE VIOLA QUADRANGLE

Mining in the Viola Quadrangle was generally in the Rock Island Coal, a lenticular coal that ranged from less than 1 ft thick up to 4 to 5 ft thick within a short distance. The coal was generally present as an upper bench of hard, bright coal 1 to 1.7 ft thick with a lower thicker bench duller coal, separated by a carbonaceous shale 10 to 18 inches thick.

The largest mines were along the western quadrangle boundary and all closed in 1910 or before. There are no known maps of these four mines: Alden No. 1 Mine (mine index 6108), Alden No. 2 Mine (mine index 2973), Empire No. 1 Mine (mine index 2963), and Empire No. 3 Mine (mine index 290). Their outlines are from a secondary source drawn in the 1930s or estimated by production and shaded as a general area of mining.

PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET

INTERPRETING THE MAP

The map accompanying this directory shows the location of coal mines known to be present in the quadrangle. The map, corresponding to a U.S. Geological Survey (USGS) 7.5-minute quadrangle, covers an area bounded by lines of latitude and longitude 7.5-minutes apart. In Illinois, a quadrangle is approximately 6.5 miles east to west and 8.5 miles north to south, an area of about 56 square miles. The USGS generally offers one map of mines per quadrangle. In some areas where extensive mining occurred in two or more overlapping seams, separate maps are compiled for mines in each seam to maintain readability of the map.

Mine Type and Mining Method

The mine type is indicated on the map by pattern color: green represents surface mines; red and yellow represent underground mines. The red patterns are used for areas of underground mining that are documented by a primary or secondary source map. A yellow pattern is used for cases where no map of the mine workings is available, but a general area of mining can be inferred from property maps or production figures. The patterns indicate the main mining methods used in underground mines. The methods are (1) room and pillar and (2) high extraction. The method used gives some indication of the amount and pattern of coal extraction within each mined area, and has some influence on the timing and type of subsidence that can occur over a mine.

The following discussion and illustrations of mining methods are based on Guither et al. (1984).

In room-and-pillar mines, coal is removed from haulage-ways (entries) and selected areas called rooms. Pillars of unmined coal are left between the rooms to support the roof. Depending on the size of rooms and pillars, the amount of coal removed from the production areas will range from 40% to 70%.

Room and Pillar - mining is divided into six categories:

- room-and-pillar basic (RPB, fig. 1A), an early method that did not follow a preset mining plan and therefore resulted in very irregular designs;
- modified room and pillar (MRP, fig. 1B);
- room-and-pillar panel (RPP, fig. 1C);
- blind room and pillar (BRP, fig. 1D);
- checkerboard room and pillar (CRP, fig. 1E);
- room and pillar (RP), a classification used when the specific type of room-and-pillar mining is unknown.

Blind and checkerboard are the most common types of room-and-pillar mining used in Illinois today. The knowledge of room-and-pillar mining methods gives a trained engineer information on the nature of subsidence that may occur. A more extensive discussion of subsidence can be found in Bauer et al. (1993).

High-extraction These mining methods are subdivided into high-extraction retreat (HER, Fig 1F) and longwall (LW, Fig 1G, 1H). In these methods, much of the coal is removed within well defined areas of the mine. Subsidence of the surface above these areas occurs within weeks. Once the subsidence activity ceases, the potential for further movement over these areas is low; however, subsidence may continue for several years after mining.

High-extraction retreat mining is a form of room-and-pillar mining that extracts most of the coal. Rooms and pillars are developed in the panels, and the pillars are then systematically removed (fig. 1F).

In early (pre-1960) longwall mines, mining advanced in multiple directions from a central shaft (fig. 1G). Large pillars of coal were left around the shaft, but all coal was removed beyond these pillars. Miners placed rock and wooden props and cribs in the mined-out areas to support the mine roof. The overlying rock gradually settled onto these supports, thus producing subsidence at the surface. In post-1959 longwall mines, room-and-pillar methods have been used to develop the main entries of the mine and panel areas. Modern longwall methods extract 100 percent of the coal in the panel areas (fig. 1H).

SOURCE MAPS

Mine outlines depicted on the map are, whenever possible, based on maps made from original mine surveys. The process of compiling and digitizing the quadrangle map may produce errors of less than 200 feet in the location of mine boundaries. Larger errors of 500 feet or more are possible for mines that have incomplete or inaccurate source maps.

Because of the extreme complexity of some mine maps, detailed features of mined areas have been omitted. The digitized mine boundary includes the exterior boundary of all rooms or entries that were at least 80 feet wide or protruded 500 feet from the main mining area. Unmined areas between mines are shown if they are at least 80 feet wide; unmined blocks of coal within mines are shown if they are at least 400 feet on each side. Original source maps should be consulted when precise information on mine boundaries or interior features is needed.

The mine summary sheet lists the source maps used to determine each mine outline. The completeness of map sources is indicated on the map by a line symbol at the mine boundary. Source maps are organized in five categories.

Final mine map The mine outline was digitized from an original map made from mine surveys conducted within a few months after production ceased. The date of the map and the last reported production are listed on the summary sheet.

Not a final map The mine is currently active or the mine outline was made from a map based on mine surveys conducted more than a few months before production ceased. This implies the actual mined-out area is probably larger than the outline on the map. The mine summary sheet indicated the dates of source maps and the last reported production, as well as the approximate tonnage mined between these two dates (if the mine is abandoned). The summary sheet also lists the approximate acreage mined since the date of the map and, in some cases, indicates the area where additional mining may have taken place. This latter information is determined by locating on the map the active faces relative to probable boundaries of the mine property.

Undated map The source map was undated, so it may or may not be based on a final mine survey. When sufficient data are available, the probable acreage of the mined area is estimated from reported production, average seam thickness and a recovery rate comparable to other mines in the area. This information is listed in the summary sheet for the mine.

Incomplete map The source map did not show the entire mine. The summary sheet indicates the missing part of the mine map and the acreage of the unmapped area, which is estimated from the amount of coal known to have been produced from the mine.

Secondary source map The original mine map was not found so the outline shown was determined from secondary sources (e.g., outlines from small-scale regional maps published in other reports). The summary sheet describes the secondary sources.

POINTS AND LABELS

The locations of all known mine openings (shafts, slopes, and drifts) and surface mine tipples are plotted on the map. Tipples are areas where coal was cleaned, stockpiled, and loaded for shipping.

Only openings or tipples are plotted for mines without source maps. If the precise locations of these features are unknown, a special symbol is used to indicate the approximate location of the mine.

Each mine on the map is labeled with the names of the mine and operating company, ISGS mine index number, and years of operation (if known) if space permits. A seam designation is given on maps where more than one seam was mined. For a mine that operated under more than one name, only the most recent name is generally given. When a mine changed names or ownership shortly before closing, an earlier name is listed. All company and mine names are listed on the mine summary sheet in the directory, under the production history segment.

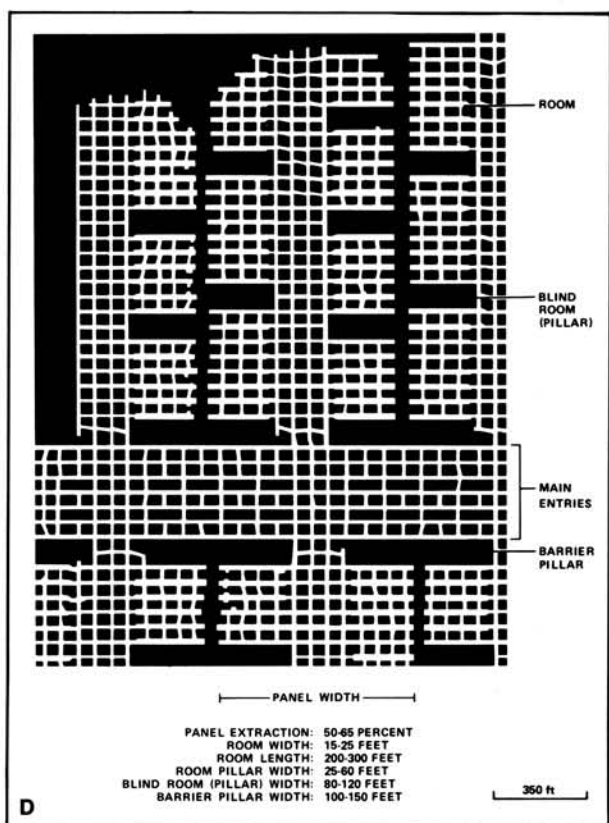
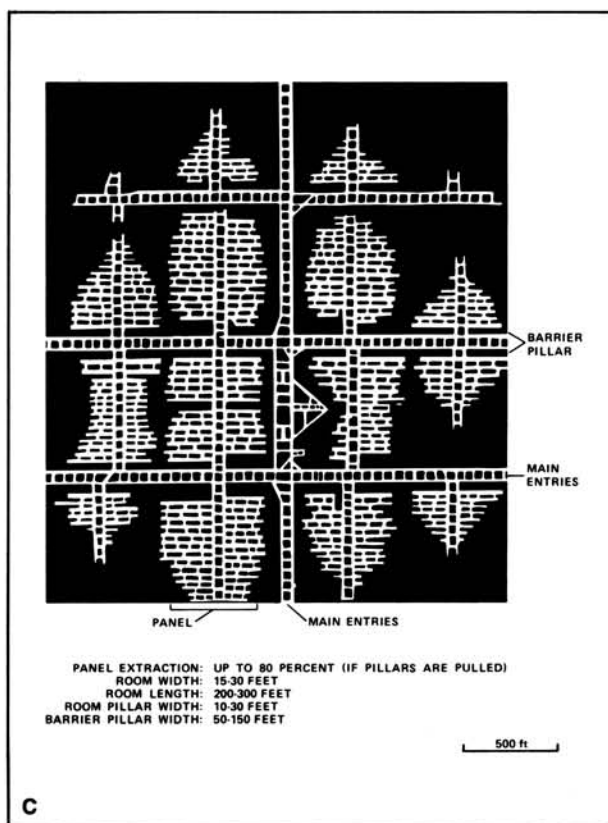
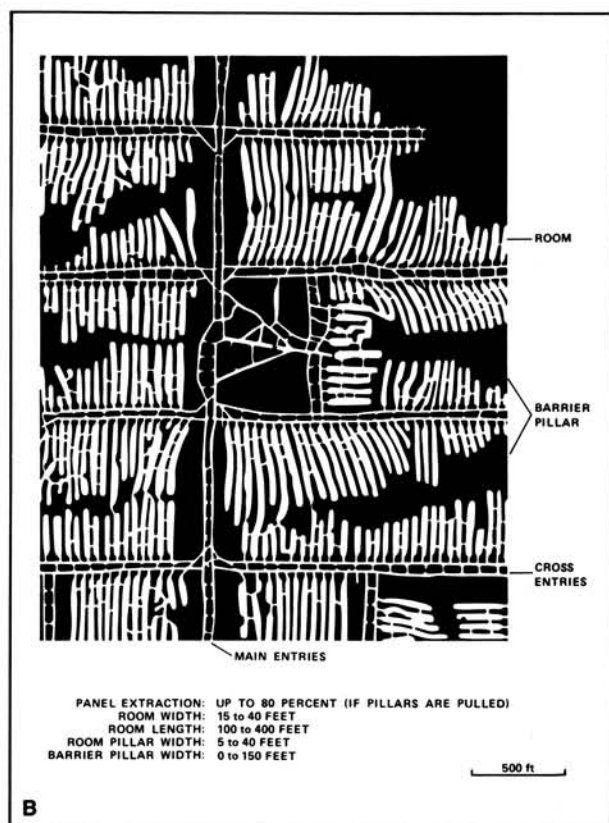
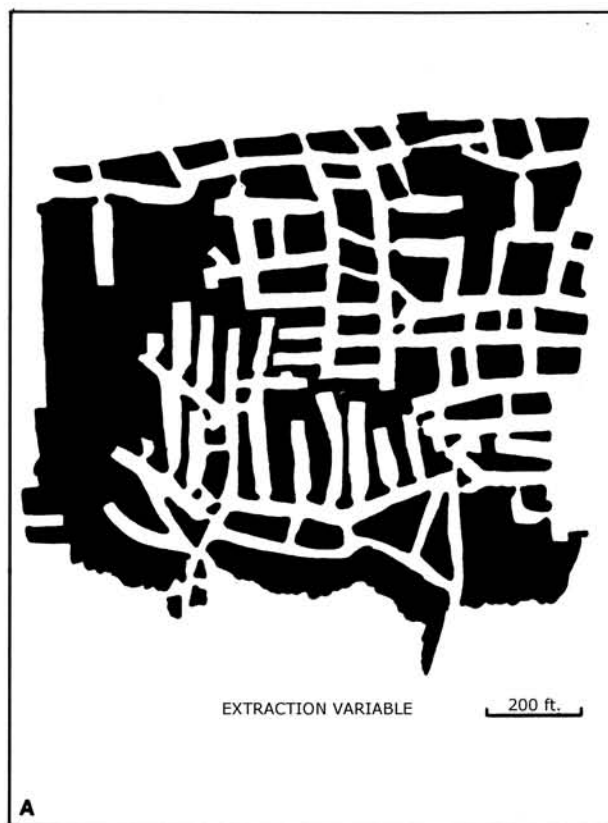


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).

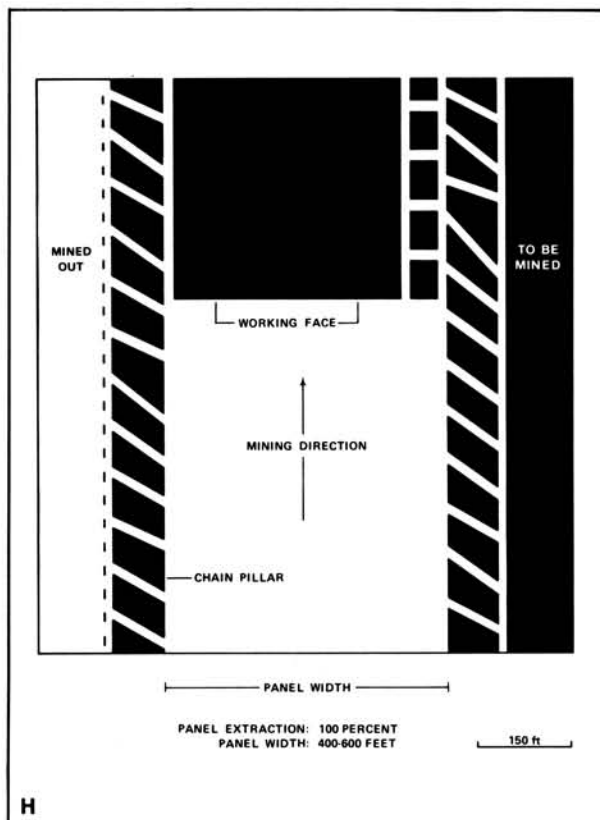
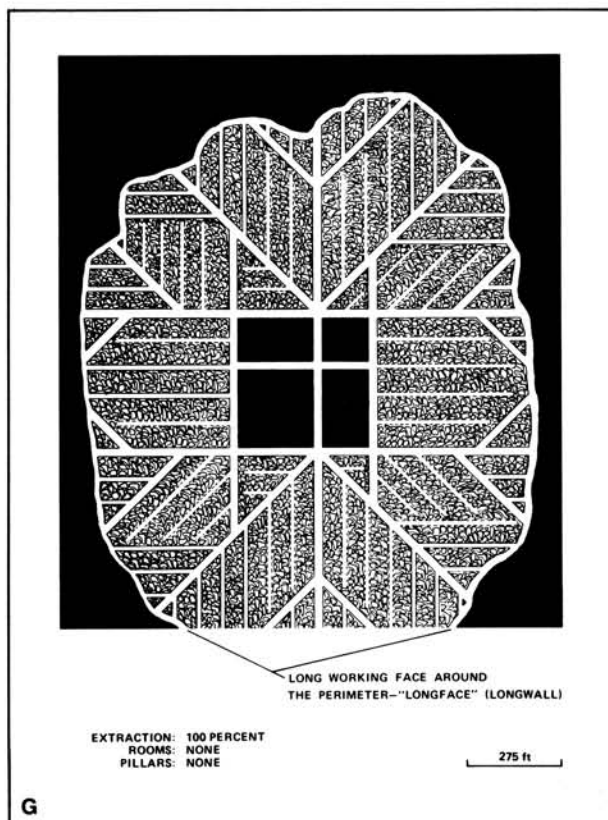
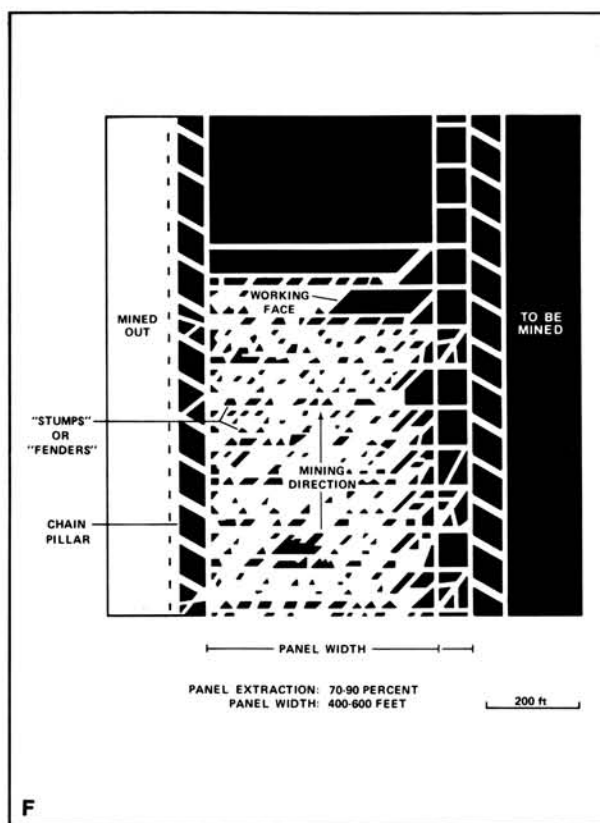
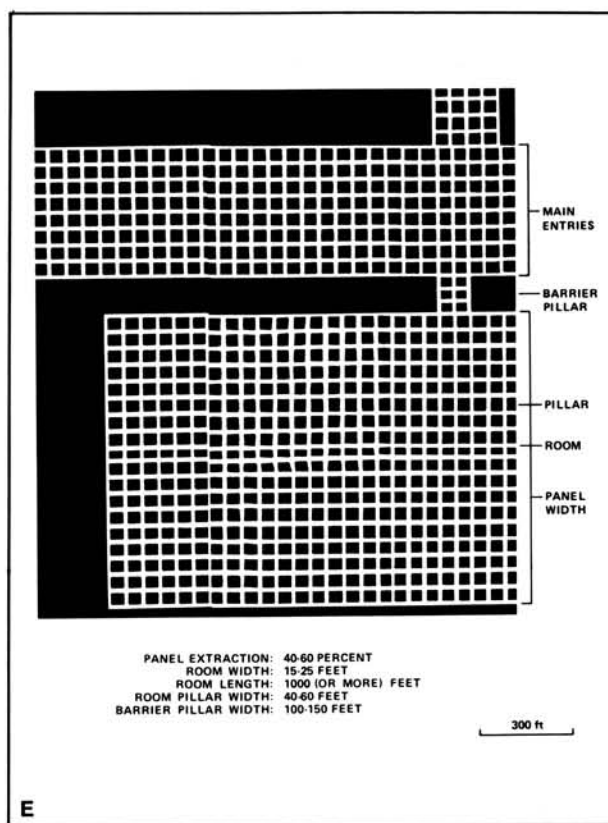


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall

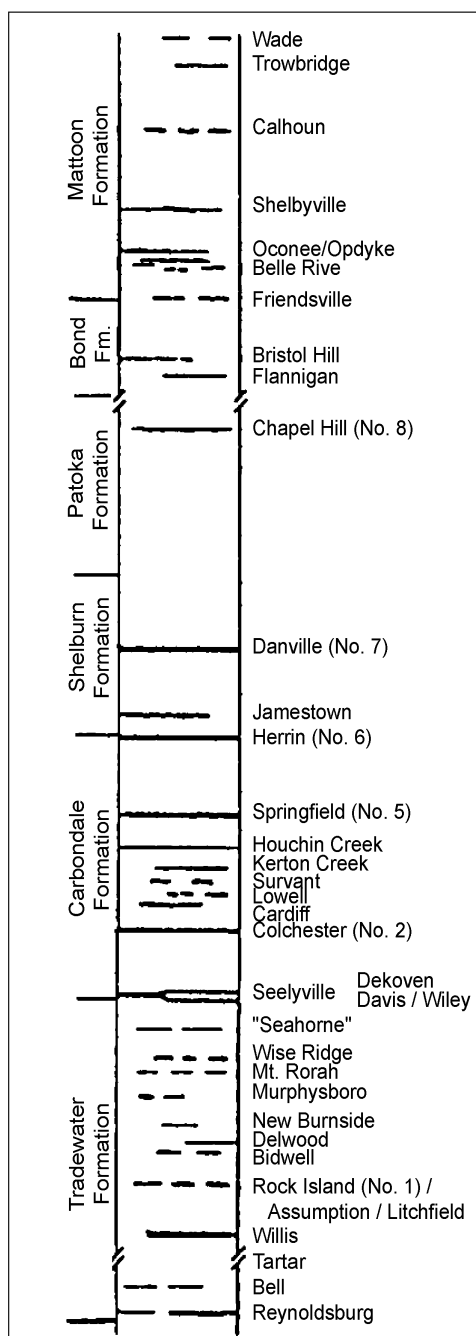


Figure 2 Generalized stratigraphic section, showing approximate vertical relations of coals in Illinois.

INTERPRETING A MINE SUMMARY SHEET

The mine summary sheet is arranged numerically by mine index number. Index numbers are shown on the map and in the mine listing. The mine summary sheet provides the following information (if available).

Company and mine name The last company or owner of the mine is used, unless no production was recorded for the last owner. In that case, the penultimate owner is listed. Mines often have no specific name; in these cases, the company name is also used as the mine name.

Type *Underground* denotes a subsurface mine in which the coal was reached through a shaft, slope, or a drift entry. *Surface* denotes a surface, open pit or strip mine.

Total mined-out acreage shown The total acreage of the mined area mapped, including any acreage mined on adjacent quadrangles, is calculated from the digitized outline of the mine. The acreage of large barrier pillars depicted on the map is excluded from the mined-out acreage. Small pillars not digitized are included in the acreage calculation. If the mine outline is not based on a final mine map, the acreage is followed by an estimate of additional acres that may have been mined. The estimate is determined from reported mine production, approximate thickness of the coal, and recovery rates calculated from nearby mines that used similar mining methods.

SHAFT, SLOPE, DRIFT OR TIPPLE LOCATIONS

Shaft, slope, drift, or tippie locations Locations of all known former entry points to underground mines or the location of coal cleaning, tippie, and shipping equipment used by the mine's facility are listed. The location is described in terms of county, township and range (Twp-Rge), section, and location within the section by quarters. NE SW NW, for instance, would describe the location in the northeast quarter of the southwest quarter of the northwest quarter. When sections are irregular in size, the quarters remain the same size and are oriented (or "registered") from the southeast corner of the section. Approximate footage from the section lines (FEL = from east line, FNL = from north line, for example) is given when that information is known; this indicates a surveyed location and is not derived from maps. Entry points are also plotted on the map and coded for the type of entry or tippie. A mine opening may have had many purposes during the life of the mine. Old hoist shafts are often later used for air and escape shafts; this information is included in the directory when known. The tippie for underground mines was generally located near the main shaft or slope. At surface mines, coal was sometimes hauled to a central tippie several miles from the mine pit.

GEOLOGY

Seam(s) mined The name of the coal seam(s) mined is listed, if known. If multiple seams were mined, they are all listed, although the mined-out area for each seam may be shown on separate maps. Figure 2 shows the stratigraphic section of the coal-bearing interval in Illinois, and the vertical relations among the coals.

Depth The depth to the top of the seam in the vicinity of the shaft is listed, if known. The depth is determined from notes made by geologists who visited the mine during its operation or from drill hole data in ISGS files. Depth generally varies little over the extent of a mine; however, reported depths for an individual mine may vary. Depth for surface-mined coals varies, and is usually represented as a range.

Thickness The approximate thickness of the mined seam is shown, if known. Thickness also comes from notes of geologists who visited the mine during its operation or from borehole data in ISGS files. Minimum, maximum, and average thicknesses are given when this information is available.

Mining method The principal mining method used at the mine (figs. 1A-H) is listed. See the mining methods section at the beginning of this directory for a discussion of this parameter.

Geologic problems reported Any known geologic problems, such as faults, water seepage, floor heaving, and unstable roof, encountered in the mine are reported. This information is from notes made by ISGS geologists who visited the mine, or from reports by mine inspectors published by the Illinois Department of Mines and Minerals, or from the source map(s). Geologic problems are not reported for active mines.

PRODUCTION HISTORY

Production history Tons of coal produced from the mine by each mine owner are totaled. When the source map used for the mine outline is not a final mine map, the tonnage produced since the date of the map is identified. For mines that extend into adjacent quadrangles, the tonnage reported includes areas mined in adjacent quadrangles.

SOURCE OF DATA

Source map This section lists information about the map(s) used to compile the mine outline and the locations of tipples and mine openings. In some cases more than one source map was used. For example, a map drawn before the mine closed may provide better information on original areas of the mine than a later map. When more than one map was used, the bibliography section explains what information was taken from each source.

Date The date of the most recent mine survey listed on the source map is reported.

Original scale The original scale of the source map is listed. Many maps are photo-reductions and are no longer at their original scale. The original scale gives some indication of the level of detail of the mine outline and the accuracy of the mine boundary relative to surface features. Generally, the larger the scale, the greater the accuracy and detail of the mine map. Mine outlines taken from source maps at scales smaller than 1:24,000 may be highly generalized and may well be inaccurately located with respect to surface features.

Digitized scale The scale of the digitized map is reported. The scale may be different from that of the original source map. In many cases the digitized map was made from a photo-reduction of the original source map, or the source map was not in a condition suitable for digitizing and the mine boundaries were transferred to another base map.

Map type Source maps are classified into five categories to indicate the probable completeness of the map. See discussion of source maps in the previous section.

Annotated bibliography Sources that provide information about the mine are listed, with the data taken from each source. Some commonly used sources are described below. Full bibliographic references are given for all other sources. Unless otherwise noted, all sources are available for public inspection at the ISGS.

Coal Reports Published since 1881, these reports contain tabular data on mine ownership, production, employment, and accidents. Some volumes include short descriptions made by mine inspectors of physical features and conditions in selected mines.

Directory of Illinois Coal Mines This source is a compilation of basic data about Illinois coal mines, originally gathered by ISGS staff in the early 1950s. Sources used for this directory are undocumented, but they are primarily Illinois Department of Mines and Minerals annual reports, ISGS mine notes, and coal company officials.

ENR Document 85/01, Guither, H. D., J. K. Hines, and R. A. Bauer, 1985 The Economic Effect of Underground Mining Upon Land Used for Illinois Agriculture: Illinois Department of Energy and Natural Resources Document 85/01, 185 p.

Microfilm map The U.S. Bureau of Mines maintains a microfilm archive of mine maps. A microfilm file for Illinois is available for public viewing at the ISGS.

Mine notes ISGS geologists have visited mines or contacted mine officials throughout the state since the early 1900s. Notes made during these visits range from brief descriptions of the mine location to long narratives (including sketches) of mining conditions and geology.

Federal Land Bank of St. Louis, Preliminary Reports on Subsidence Investigations Mining engineers working for the Federal Land Bank of St. Louis mapped areas of subsidence due to coal mining in the early 1930s. These reports often include county maps of mine properties with mined-out areas including shaft locations, as well as subsidence areas.

REFERENCES

- Bauer, R. A., B. A. Trent, and P. B. Dumontelle, 1993, Mine Subsidence in Illinois: Facts for the Homeowner Considering Insurance, Illinois State Geological Survey, Environmental Geology Note 144, 16p.
- Guither, H. D., J. K. Hines, and R. A. Bauer, 1985, The Economic Effects of Underground Mining Upon Land Used for Illinois Agriculture, Illinois Department of Energy and Natural Resources Document 85/01, 185p.
- Wanless, H. R., 1929, Geology and Mineral Resources of the Alexis Quadrangle, Illinois State Geological Survey, Bulletin 57, 217p.

PART II DIRECTORY OF MINES IN THE VIOLA QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Viola Quadrangle is provided. These summary sheets are arranged numerically by mine index number. Consult Part I for a complete explanation of the data listed in the summary sheet.

Mine Index 18

Coal Valley Mining Company, Coal Valley No. 3 Mine

Type: Underground Total mined-out acreage shown: 271 (85 in southern outline, 270 in northern outline)

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft *	Mercer	15N 2W	27	SE SE SE
Main slope *	Mercer	15N 2W	34	SE NE SE
Air shaft	Mercer	15N 2W	34	NE SE SE

* The shaft in the southern outline is the older mine. The new slope, north of the Edwards River, was opened in 1917, but it appears (from the map date) that the southern portion continued operation.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	61	3.67	5.0	4.0	MRP

Geologic Problems Reported: The mine was abandoned because of poor roof conditions. The roof was generally up to 8 feet of black shale under 1 to 3 feet of limestone. Clay veins, slips and rolls were noted in the seam. Swags were common in the coal.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Coal Valley Mining Company	Coal Valley No. 3	1909-1921	<u>1,280,003</u> 1,280,003

Last reported production: August 1921

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352246	9-15-1921	1:1200	1:2069	Final
Coal Section files (Milan Quadrangle)	undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, shaft location, depth, thickness, geologic problems.

Microfilm map, document 352246, reel 03138, frames 310 & 311 - Shaft & slope locations, mine outline (southern), mining method.

Coal Section files, undated work map on USGS topographic map, 15-minute Milan Quadrangle - Mine outline (northern), shaft location.

Mine Index 290
Empire Coal Company, Empire No. 3 Mine

Type: Underground Total mined-out acreage shown: 766

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Mercer	14N 2W	20	SW NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	130-135	3.0	6.5	4.0	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Empire Coal Company *	Empire No. 3	1899-1910	<u>1,653,646</u> 1,653,646

* According to the mine notes, Empire Coal Company was owned or operated by Shuler Mining Company.

Last reported production: March 31, 1910

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files (Alexis Quadrangle)	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, abandonment date.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, shaft location, seam, depth, thickness, mining method.

Coal Section files, undated work map on USGS topographic map, 15-minute Alexis Quadrangle - Mine outline, shaft location.

Mine Index 356**Essley Coal Company, Black Diamond No. 1 Mine**

Type: Underground Total mined-out acreage shown: 66 Production indicates approximately 15 acres were mined. However, various maps showed vaguely where the shaft and slope were located, and the mine location is not precisely known.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Mercer	14N 2W	2	NW SE SW
Slope	Mercer	14N 2W	2	SE SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	38-60	4.0	4.5	4.2	RP

Geologic Problems Reported: The immediate roof was black shale that ranged from 24 to 36 inches thick. The caprock above the shale was 18 inches of black rock. Water came into the mine through cracks in the shale roof and via sandstone under the coal. The mine notes state that the pillars were largely pulled and subsidence had taken place before 1964. The coal had a pyrite and pyrite concretion layer about 18 inches below the roof.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
G. P. Brasmer	Black Diamond	1920-1927	15,683 *
Essley Coal Company	Black Diamond No. 1	1926-1932 **	<u>39,236</u> 54,919

* Production was not listed in the 1922 Coal Report for mines producing less than 10,000 tons.

** The slope was constructed in 1926, and apparently listed simultaneously with active production from the original shaft.

Last reported production: 1932

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Map library, 4103.M42 d5.1-3	1922	1:62500	1:62500	Secondary source
Coal Section files (Alexis Quadrangle)	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, shaft & slope locations, seam, depth, thickness, mining method, geologic problems.

ISGS map library, 4103.M42 d5.1-3 (H. E. Culver) - Shaft location.

Coal Section files, undated work maps on USGS topographic map, 15-minute Alexis Quadrangle - Shaft & slope locations.

Mine Index 2958**Viola Materials, Incorporated, Viola Mine**

Type: Surface Total mined-out acreage shown: None; production indicates approximately 11 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Mercer	14N 2W	3	NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island					Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Eddington Coal Company	Eddington	1957-1959	4,362
Viola Coal Company	Viola	1959-1961	6,892
Viola Materials, Incorporated	Viola	1962-1973	<u>52,972</u>
			64,226

Last reported production: May 1973

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, pit location, seam.

Mine Index 2959
George Gooden, Gooden Mine

Type: Underground Total mined-out acreage shown: 11

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Drift	Mercer	14N 2W	3	NE NE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island				3.0	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
George Gooden	Gooden	1918-1919	1,938
Gooden & Jones	Gooden & Jones	1919-1920	2,819
George Gooden	Gooden	1920-1923	9,040 *
			13,797

* Production was not reported in 1922 for mines producing less than 10,000 tons.

Last reported production: 1923

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (H. R. Wanless)	7-11-1925	1:62500	1:62500	Secondary source
Coal Section files (Alexis Quadrangle)	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Mercer County) - Mine location, seam, thickness.
 ISGS field notes (H. R. Wanless, 7-11-1925) - Mine type, mine location.
 Coal Section files, undated work map on USGS topographic map, 15-minute Alexis Quadrangle - Mine outline, drift or slope location.

Mine Index 2960
Eugene Hayburn, Hayburn Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Mercer	14N 2W	3	SE SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island					Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Rock Quarry Coal Company	Rock Quarry	1935-1936	298
Eugene Hayburn	Hayburn	1937-1937	<u>492</u>
			790

Last reported production: 1937

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mining method.
 Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Mercer County) - Mine location.

Mine Index 2961
Little Star Mining Company, Little Star Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Mercer	14N 2W	3	SE SW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	35	2.67	3.33	3.0	Underground

Geologic Problems Reported: The layer above the coal was 24 feet of compact massive shale that made a poor roof. In some places, up to 1 foot of limestone was directly above the coal, which made a better roof. Slips and rolls were present in the coal. A 1-inch band and lenses of pyrite were present about 12 inches below the top of the coal.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Little Star Mining Company	Little Star	1917-1918	<u>949</u> 949

Last reported production: 1918

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Mercer County) - Mine location, seam, depth, thickness, mining method, geologic problems.

Mine Index 2962
Martin Coal Company, Martin Mine

Type: Underground Total mined-out acreage shown: None; production indicates 3 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Mercer	14N 2W	4	NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	20			3.17	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
J. M. Guthrie Coal Company	Guthrie	1936-1939	5,995
Martin Coal Company	Martin	1940-1940	2,668 *
			8,663

* Production after map date

Last reported production: 1940

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352240	1939	1:600	1:745	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, slope & drift locations, seam, depth, thickness.

Microfilm map, document 352240, reel 03138, frame 304 - Shaft locations, mine outline, mining method.

Mine Index 2963**Empire Coal Company, Empire No. 1 Mine**

Type: Underground Total mined-out acreage shown: 344

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Mercer	14N 2W	4	SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	100			3.5-4.33	LW, RP *

* The Coal Reports indicated that longwall mining was practiced in the first year, after which room and pillar mining took place.

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Empire Coal Company	Empire No. 1	1885-1900	<u>1,137,541</u> 1,137,541

Last reported production: October 1900

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine location.

Mine Index 2964
Blaine & Jones, Pleasant Valley Mine

Type: Underground Total mined-out acreage shown: None; production indicates 11 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Mercer	14N 2W	4	NW NW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	15-18	3.75	5.0	4.0	RP

Geologic Problems Reported: The shallow depth of the mine meant that the roof rocks were weathered and allowed water into the mine, which caused some difficulties. Slips of 1 foot or more and filled with clay were abundant. The coal seam had 6 inches of "false bottom" that did not separate easily from the good coal for loading. Pyrite was present in vertical veins and horizontal seams.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Jones & Boden	Pleasant Valley	1900-1901	1,828
Arthur Jones	Pleasant Valley	1901-1904	10,684
Jones & Hayburn	Pleasant Valley	1904-1905	3,840
Arthur Jones	Pleasant Valley	1905-1911	16,926
James Blaine	Pleasant Valley	1911-1917	4,713
W. E. Blaine	Pleasant Valley	1917-1918	833
James Blaine	Pleasant Valley	1918-1920	455
Blaine Brothers	Pleasant Valley	1920-1922	672 *
Blaine & Jones	Pleasant Valley	1922-1923	3,904
			39,951

* Production was not listed in the 1922 Coal Report for mines producing less than 10,000 tons.

Last reported production: 1923

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mining method.
 Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Mercer County) - Mine type, slope location, seam, depth, thickness, geologic problems, mine name.
 ISGS field notes (H. R. Wanless, 7-13-1925) - Geologic problems.

Mine Index 2965**B. & H. Coal Company, B. & H. Mine**

Type: Underground Total mined-out acreage shown: 2 Production indicates less than 1 acre was mined after the map date. Production indicates 26 acres were mined. A general area of mining has been added to the accompanying map. B. & H. Mine was connected underground to Blaine Mine (mine index 2964).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Mercer	14N 2W	4	NE NE SW
Air shaft	Mercer	14N 2W	4	NE NE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	10-40			3.0	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
W. T. Lee	Lee	1917-1922 *	4,840
Lee & Hagman	Lee & Hagman	1922-1925	10,452
William T. Lee	Lee	1925-1925	650
Lee Brothers	Lee	1926-1949 **	53,160
B. & H. Coal Company	B. & H.	1950-1952	<u>1,880 ***</u>
			70,982

* Idle 1921 & 1922

** Idle 1942-1949

*** Production after map date

Last reported production: 1952

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352237	9-20-1950	1:1200	1:1241	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, slope location, seam, depth, thickness.

Microfilm map, document 352237, reel 03138, frame 301 - Slope & shaft locations, mine outline, mining method.

Mine Index 2966
Avon Coal Company, Avon Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 3 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Mercer	14N 2W	4	SE SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	18-35			3.5-4.0	RP

Geologic Problems Reported: The immediate roof consisted of shale and rock, which came down easily. Pillars were not pulled.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John Turner	Turner	1934-1934	500
Max Myers	Myers	1935-1937	3,130
Richardson Coal Company	Richardson	1935-1937	1,414
Eithel Richardson	Richardson	1938-1938	48
Ethell Skinner	Skinner	1938-1939	1,251
William H. Faulconer	Faulconer	1939-1939	81
Avon Coal Company	Avon	1939-1941	6,214
			12,638

Last reported production: 1941

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, slope location, seam, depth, thickness, mining method, geologic problems.

Mine Index 2973**Alden Coal Company, Alden No. 2 Mine**

Type: Underground Total mined-out acreage shown: 249

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Mercer	14N 2W	9	NE NW SW
Air shaft *	Mercer	14N 2W	9	

* According to the 1901 Coal Report, an auxiliary air shaft was sunk at the active face, about one mile south and one-quarter of a mile west of the main shaft. The air shaft is not shown on the accompanying map as the distances are vague and the shaft location is not from an accurate mine map.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	135			4.5	RP

Geologic Problems Reported: One fatality was caused by a roof fall while top coal was being recovered.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Alden Coal Company	Alden No. 2	1899-1905	<u>749,927</u> 749,927

Last reported production: June 30, 1905

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files (Alexis Quadrangle)	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness, geologic problems.
 Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Mercer County) - Shaft location.
 Coal Section files, undated work map on USGS topographic map, 15-minute Alexis Quadrangle - Shaft location, mine outline.

Mine Index 2974**Leroy Pease Coal Company, Pease Mine**

Type: Underground Total mined-out acreage shown: 7 Production indicates approximately 5 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Mercer	14N 2W	11	SW NW SW
Air shaft	Mercer	14N 2W	11	SW NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	58-65			3.5	RP

Geologic Problems Reported: Two roof falls were noted in the northern portion of the mine. The immediate roof above the coal was black limestone cap rock over most of the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Leroy Pease	Pease	1933-1934	5,650
Pease Coal Company	Pease	1934-1935	500
Harris Brothers	Harris	1935-1935	696
Leroy Pease Coal Company	Pease	1936-1938	13,600
Leroy Pease Coal Company	Pease	1939-1943 *	<u>16,014</u> **
			36,460

* Idle 1940

** Production after map date

Last reported production: 1943

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352235	12-15-1938	1:600	1:993	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, shaft location, seam, depth, thickness, mining method, geologic problems.

Microfilm map, document 352235, reel 03138, frame 299 - Shaft locations, mine outline, mining method, geologic problems.

Mine Index 2975**Essley Coal Company, Black Diamond No. 2 Mine**

Type: Underground Total mined-out acreage shown: 14 Production indicates approximately 1 acre was mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Mercer	14N 2W	11	SE NW NW
Air shaft	Mercer	14N 2W	11	SE NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	39-50			3.5-3.83	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Essley Coal Company	Black Diamond No. 2	1931-1938	34,039
Essley Coal Company	Black Diamond No. 2	1938-1939	3,183 *
			37,222

* Production after map date

Last reported production: 1939

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352244	3-24-1938	1:600	1:1034	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, shaft location, seam, depth, thickness, mine name.

Microfilm map, document 352244, reel 03138, frame 308 - Shaft locations, mine outline, mining method.

Mine Index 2976**Four In One Coal Company, Four In One Mine**

Type: Underground Total mined-out acreage shown: 18 Production indicates approximately 1 acre was mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Mercer	14N 2W	11	NE SW NW
Air shaft	Mercer	14N 2W	11	NW SW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	33-50	3.0	4.0	3.5-3.83	RP

Geologic Problems Reported: The pillars were pulled, and subsidence was noted. The immediate roof was 1 to 2 inches of clod, with 18 to 20 inches of limestone above that. A layer of pyrite concretions up to 2 inches thick was usually present in the lower bench of coal. Another visit to the mine indicated that the pyrite nuggets were rare and scattered, and were easily separated from the coal.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Kness Coal Company	Kness	1923-1937	48,760
Four In One Coal Company	Four In One	1937-1938	3,085
Kness Coal Company	Kness	1939-1939	1,915 *
Four In One Coal Company	Four In One	1940-1940	1,072 *
			54,832

* Production after map date

Last reported production: 1940

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352241	1-2-1939	1:600	1:1035	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, shaft location, seam, depth, thickness, mining method, geologic problems.

Microfilm map, document 352241, reel 03138, frame 305 - Shaft locations, mine outline, mining method.

Mine Index 2990**McCraney Sand & Gravel, McCraney Mine**

Type: Underground Total mined-out acreage shown: 25 Production indicates approximately 5 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Mercer	15N 2W	33	NW SE NE
Air / escape slope	Mercer	15N 2W	33	SE SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	40			3.0-4.0	MRP

Geologic Problems Reported: The source map showed areas of thin coal in limited areas on the southern and northern sides of the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
William H. Riddell	Riddell	1906-1912	32,700
Axel E. Link	Link	1912-1915	15,884
Lee & Hagman	Lee & Hagman	1915-1916	375
McCrame & Lee	McCrame & Lee	1916-1917	3,700
McCraney Sand & Gravel	McCraney	1917-1918	30,147
McCraney Sand & Gravel	McCraney	1918-1919	17,871 *
			100,677

* Production after map date

Last reported production: 1919

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352248	9-12-1918	1:1200	1:1655	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, thickness, mining method.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine location, seam, depth.

Microfilm map, document 352248, reel 03138, frame 314 - Shaft & slope locations, mine outline, mining method, geologic problems.

Mine Index 2992**Koresco Coal Company, Koresco Mine**

Type: Underground Total mined-out acreage shown: 5

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Mercer	15N 2W	34	SE SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	40				Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Koresco Coal Company	Koresco	1933-1937	12,662
			12,662

Last reported production: 1937

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files (Alexis Quadrangle)	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine location, seam, depth.

Coal Section files, undated work map on USGS topographic map, 15-minute Alexis Quadrangle - Mine outline.

Mine Index 2993**Never Seen Coal Company, Never Seen Mine**

Type: Underground Total mined-out acreage shown: 21 Production indicates less than 1 acre was mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Mercer	15N 2W	34	SE SE NW
Air shaft	Mercer	15N 2W	34	SE SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	30				MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
James O'Rourke & Mike Bugas	O'Rourke & Bugas	1929-1932	7,237
Never Seen Coal Company	Never Seen	1933-1937	22,720
O'Rourke & Bugas	O'Rourke & Bugas	1938-1938	3,174
Never Seen Coal Company	Never Seen	1939-1943	32,418
Never Seen Coal Company	Never Seen	1943-1943	273 *
			65,822

* Production after map date

Last reported production: July 5, 1943

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352245	6-20-1943	1:600	1:993	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, slope location, seam, depth.

Microfilm map, document 352245, reel 03138, frame 309 - Slope & shaft locations, mine outline, mining method.

Mine Index 2994
Frye & Bollman, Frye & Bollman Mine

Type: Underground Total mined-out acreage shown: 10

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Mercer	15N 2W	35	SE NE SW
Air shaft	Mercer	15N 2W	35	NE SE SW
Old air shaft	Mercer	15N 2W	35	SE NE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	40-50			3.67	MRP

Geologic Problems Reported: The source map showed bad top in the north, northeast, south, and southwest.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Frye & Bollman	Frye & Bollman	1933-1941	40,440

Last reported production: 1941

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352234	4-1-1941	1:1200	1:1241	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Mercer County) - Mine type, slope location, seam, depth, thickness.
 Microfilm map, document 352234, reel 03138, frame 298 - Shaft locations, mine outline, depth, mining method, geologic problems.

Mine Index 2995
Docherty Brothers, Docherty Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 30 acres were mined. A general area of mining has been added to the accompanying map to show the approximate area undermined.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Mercer	15N 2W	35	SE SW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	30-160			4.0-4.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Robert Taylor	Taylor	1878-1889	19,309
Docherty & Barr	Docherty & Barr	1889-1891	3,472
Thomas Docherty & Sons	Docherty	1891-1898	17,440
Peter Docherty	Docherty	1898-1901	7,450
Docherty Brothers	Docherty	1901-1902	3,800
Peter Docherty	Docherty	1902-1903	4,100
Docherty Brothers *	Docherty	1903-1920	65,850
			121,421

* ISGS field notes written by J. A. Udden indicate that the Dog Town Mine operated by Docherty Brothers (mine index 2995) on 7-24-1911 worked at the shaft location shown for Boden Mine (SW SE SW 26-T15N-R2W). It is likely that the 35-T15N-R2W location was not the site for all of the production from 1878 to 1920.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Mercer County) - Shaft location.

Mine Index 4966
Never Seen Coal Company, Never Seen Mine

Type: Underground Total mined-out acreage shown: 11 Production indicates approximately 1 acre was mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Slope	Mercer	14N 2W	3	NW SE NW
Air slope	Mercer	14N 2W	3	NW SE NW
New Slope	Mercer	14N 2W	3	SE SE NW
Old Portal (drift)	Mercer	14N 2W	3	NE SE NW
Old air drift	Mercer	14N 2W	3	NE SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	57-60	3.5	5.2	4.0	MRP

Geologic Problems Reported: The roof over much of the mine was poor, the exceptions being areas where the caprock was present. The caprock was 2 to 3 feet of limestone, underlain by 2 feet of clod. The clod's thickness varied, being thick in sloughs and depressions (up to 7 feet) where it made a very bad roof, and thin on rolls. The clod contains concretions (up to 2-3 ft diameter) in some places. Slips and faults were common in some parts of the mine, and clay seams were present along fault planes. The faults showed displacement of 4 to 10 inches. The roof was bad in areas with slips. A gray band of pyrite was present in the lower half of the coal, and pyrite concretions were seen at various places in the seam. The concretions were easily separated from the coal. The floor was sandstone.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
George Bugas & Brothers	Bugas	1920-1922 *	612
George Bugas Coal Company	Bugas	1922-1923	337
Never Seen Coal Company	Never Seen	1923-1924	11,776
Mrs. Anna Bugas	Bugas	1924-1925	10,796
Never Seen Coal Company	Never Seen	1925-1925	4,973
Never Seen Coal Company	Never Seen	1925-1925	<u>3,800</u> **
			32,294

* Production was not listed in the 1922 Coal Report for mines producing less than 10,000 tons.

** Production after map date

Last reported production: 1926

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Map library, 4103.M42 i5.1-1	11-20-1925	1:1200	1:1200	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.

Mine notes (Mercer County) - Mine type, slope location, seam, depth, thickness, geologic problems.

Map library, 4103.M42 i5.1-1 - Mine outline, slope & drift locations, mining method.

Mine Index 6108**Alden Coal Company, Alden No. 1 Mine**

Type: Underground Total mined-out acreage shown: 178

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Mercer	14N 2W	4	SE SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	135-140			4.0-4.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Alden Coal Company	Alden No. 1	1893-1899	<u>598,195</u> 598,195

Last reported production: 1899

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files (Alexis Quadrangle)	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.
 Coal Section files, undated work map on USGS topographic map, 15-minute Alexis Quadrangle - Shaft location, mine outline.

Mine Index 6118
John McNeil, McNeil Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Mercer	15N 2W	33	NE NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island				2.25	Underground

Geologic Problems Reported: The mine rapidly filled with water and required a great deal of pumping. The coal was thinner than expected, as a well 300 feet east of the mine showed coal between 3 and 3.5 feet thick.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John McNeil	McNeil	1924-1925	<u>114</u> 114

Last reported production: 1925

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (H. R. Wanless)	7-6-1925	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Mercer County) - Mine names, mine index, ownership, years of operation.
 ISGS field notes (Mercer County) - Mine type, drift location, seam, thickness, geologic problems.

OTHER MINES SHOWN ON VIOLA QUADRANGLE

Mine Index 6086 SW SW NE 4-T14N-R2W, drift source: ISGS field notes (H. R. Wanless, 7-13-1925)
 Mine Index 6087 NW NE SW 3-T14N-R2W, drift source: ISGS field notes (H. R. Wanless, 7-11-1925)
 Mine Index 6088 SW NE NW 3-T14N-R2W source: ISGS field notes (D. M. Moody, summer 1958)
 Mine Index 6089 NE NW SE 4-T14N-R2W, drift source: ISGS field notes (H. R. Wanless, 7-13-1925)
 Mine Index 6090 NW SW NE 4-T14N-R2W, drift source: ISGS field notes (H. R. Wanless, 7-13-1925)
 Mine Index 6102 SE SW SE 34-T15N-R2W source: Coal Section files, Alexis (15-minute) Quadrangle work map (data posted 1962)
 Mine Index 6112 NW SE 4-T14N-R2W, "previous old workings" source: Microfilm, document 352240 (map of Guthrie Mine, mine index 2962, 1939)
 Mine Index 6119 SW SW NE 33-T15N-R2W, drift source: ISGS field notes (H. R. Wanless, 7-1925)
 Mine Index 6120 SE SE NW 33-T15N-R2W, drift source: ISGS field notes (H. R. Wanless, 7-6-1925)
 Mine Index 6121 NW NE SW 34-T15N-R2W, drift source: ISGS field notes (H. R. Wanless, 7-6-1925)
 Mine Index 6122 NE SW SW 35-T15N-R2W, shaft used for windmill source: Microfilm, document 352246, map of Coal Valley No. 3 Mine (mine index 18, 9-15-1921)
 Mine Index 6123 NE SW SW 35-T15N-R2W, shaft source: Microfilm, document 352246, map of Coal Valley No. 3 Mine (mine index 18, 9-15-1921)
 Mine Index 6124 NW NE SW 35-T15N-R2W source: Coal Section files, Alexis (15-minute) Quadrangle work map
 Mine Index 6653 NE SW NE 4-T14N-R2W, drift source: ISGS field notes (H. R. Wanless, 7-13-1925)
 Mine Index 7805 SW SE SE 34-T15N-R2W, shaft source: Microfilm, document 352246, map of Coal Valley No. 3 Mine (mine index 18, 9-15-1921)

MINES WHOSE LOCATIONS ARE NOT KNOWN, VIOLA QUADRANGLE

The locations of the following mines are unknown, but the production tonnage, operating names, and nearest town were reported in the Annual Coal Reports. The operators listed below mined in or near the Viola Quadrangle. The information shown is similar to that presented on the summary sheets in the previous pages of this directory. The first item is the name the mine operated under as listed in the Coal Report, then the years the mine reported. If no physical data are available, the next item listed is the total tons produced by the mine. If physical data are available, the order of presentation is as follows: type of opening for the mine (drift, slope or shaft), depth of coal in feet, and thickness of coal in feet.

The total tons mined by these unlocated mines is 123,877 (118,907 underground and 4,970 mined by uncertain method), which would represent approximately 25 to 50 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

GILCHRIST

Russell (Edward), 1888-1889, shaft, Rock Island, 40, 4.0, RP	160 tons
Ayers (Richard), 1889-1890	230 tons
Ayers (Martin), 1890-1891	<u>260</u> tons
	650 tons
Frost (Luke), 1889-1892, slope, Rock Island, 12, 4.0, RP	1,360 tons
Frost Brothers, 1892-1893, shaft, Rock Island, 20, 4.0, RP	280 tons
Green (Milton M.), 1890-1892, drift, Rock Island, —, 3.5, RP	600 tons
Golden & Jones, 1891-1892, shaft, Rock Island, 20, 3.5, RP	220 tons
Gardener (William), 1892-1893, drift, Rock Island, —, 4.0, RP	340 tons
Gardner (William), 1896-1898, shaft, —, 32, 3.5, RP	820 tons
Maynard (Harry) & Company, 1905-1906, shaft, Rock Island, 42, 4.0, RP	138 tons

MATHERVILLE

Taylor (John A.), 1919-1920	1,100 tons
Taylor & Bradford, 1920-1921	<u>2,150</u> tons
	3,250 tons
Thomas (Oscar), 1916-1919, slope, Rock Island, 100, —, RP	2,195 tons
Davis & Hagman, 1924-1925	200 tons
Davis (Grover), 1926-1928, underground	1,836 tons
Matazel Brothers, 1928-1928, underground	18 tons
Matazel (Martin & Samuel), 1929-1929	<u>131</u> tons
	149 tons
Hartman (S. C.), 1933-1934, underground	10,115 tons
McCloskey (W. E.), 1933-1935, underground	4,097 tons
Cable Coal Company, 1939-1940, underground	298 tons
Cable Coal Company, 1941-1942, underground	293 tons

VIOLA

Tidball (J.), 1878-1879, slope, Rock Island, 24, 4.0	1,213 tons
Parks (Russell), pre1879-1888, shaft, Rock Island, 30-35, 4.0, RP	8,260 tons
Blaine (William), pre1879-1888, shaft, Rock Island, 20-32, 3.0-4.0, RP	11,902 tons
Guthrie (Samuel), 1878-1879, drit, Rock Island, 25, 4.0	80 tons
Guthrie (Samuel), 1883-1888, shaft, Rock Island, 41, 4.0, RP	2,675 tons
Guthrie (John), 1888-1889	240 tons
Guthrie (William), 1889-1889	224 tons
Guthrie (Andrew), 1889-1890	<u>480</u> tons
	3,619 tons
Hunter (Walter), 1878-1879, drift, Rock Island, 50, 4.0	40 tons
Tarr (Henry), pre1878-1879, shaft, Rock Island, 42, 4.5	200 tons
Morrow (John), pre1879-1883, shaft, Rock Island, 48-58, 4.0-4.25	2,890 tons
Martin (Tim) & Drum (John), pre1878-1879, shaft, Rock Island, 44-65, 4.0	924 tons
Martin (Francis M.), 1879-1889	17,104 tons
Martin (Orrick), 1889-1891	4,100 tons
Martin (G. W.), 1891-1893	3,170 tons
Dunn (John), 1893-1898	<u>6,233</u> tons
	31,531 tons
Pinkerton (William), pre1879-1883, shaft, Rock Island, 24-30, 2.0-4.0	1,080 tons
Pinkerton (George), pre1881-1883, drift, Rock Island, 31, 4.0	550 tons
Parks (Rufus), pre1881-1882, drift, Rock Island, 15, 4.0	260 tons
Boon (Hopkins), 1881-1882, shaft, Rock Island, 20, 4.0	140 tons
Boon (Hopkins), pre1881-1882, shaft, Rock Island, 61, 4.0	500 tons

Frazier (Hugh B.), pre1881-1883, shaft, Rock Island, 22, 4.0	idle
Collins (W. P.), 1881-1882, shaft, Rock Island, 26, 4.0	300 tons
Guthrie (William), 1882-1885, shaft, Rock Island, 30-32, 3.5-4.0, RP	2,030 tons
Slocum (Clarence), 1883-1884, shaft, Rock Island, 20, 4.0, RP	900 tons
Smith (John), 1883-1884, drift, Rock Island, 20, 4.0, RP	210 tons
Thompson (John), 1883-1884, slope, Rock Island, 30, 3.0, RP	500 tons
Jones (Alvin T.), 1884-1885, shaft, Rock Island, 20, 4.0, RP	420 tons
Campbell (William), 1885-1886	<u>440</u> tons 860 tons
Foster (John W.), 1887-1888	216 tons
McFate (James), 1888-1889	<u>216</u> tons 432 tons
Parks (James R.), 1890-1891, drift, Rock Island, —, 4.0, RP	512 tons
Barr (William), 1897-1898, slope, Rock Island, 30, 4.0	2,700 tons
Cameron (Henry), 1898-1899	<u>1,000</u> tons 3,700 tons
Campbell (Frank), 1901-1902	1,520 tons
Miller (Ben), 1906-1909, shaft, Rock Island, 20-29, 2.5-3.0, RP	1,760 tons
Grady (Edward), 1906-1907, drift, Rock Island, —, 3.5, RP	80 tons
Mills (T. J.) & Company, 1908-1909, slope or drift, Rock Island, 18, 4.0, RP	500 tons
Gustafson (L.), 1909-1910	<u>300</u> tons 800 tons
Langston (George), 1909-1911, drift, Rock Island, —, 3.5, RP	75 tons
Bolt (E. E.), 1910-1911, drift, Rock Island, —, 4.0, RP	302 tons
Dodd (Thomas), 1911-1915, slope or drift, Rock Island, 8-40, 4.0, RP	3,720 tons
Brown (J. M.), 1915-1917, drift, Rock Island, 30, 2.83-3.5, RP	125 tons
Rodansky (William), 1916-1917, slope, Rock Island, 15, 5.33, RP	1,263 tons
Rodamsky (Charles) & Brothers, 1917-1918	<u>2,176</u> tons 3,439 tons
Snell & McGimpsey, 1927-1927	400 tons
New Diamond Coal Company, 1940-1943, underground operated by K. Crummy through 1941, then G. Rodamsky	2,142 tons
Martin (Harvey L.), 1941-1942, underground	1,980 tons
Martin (Harvey L.), No. 3 Mine, 1942-1943, underground	633 tons
Black Diamond Coal Company, No. 3 Mine, 1942-1943, underground	4,027 tons
Essley (F. H. & W. F.), 1944-1944	1,022 tons
Miller (Rudy) & Harris (G.), 1944-1946	3,050 tons
M. & H. Coal Company, 1947-1947	<u>445</u> tons 8,099 tons

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