

Coal Mines in Illinois Humrick Quadrangle

Vermilion & Edgar Counties, Illinois

Danville Coal

This map accompanies the Coal Mines Directory for the Humrick Quadrangle and map of mines in the Herrin Coal, Humrick Quadrangle. Consult the directory for a complete explanation of the information shown on this map.

Mining Method

- A legend consisting of nine colored squares with corresponding labels: Room & Pillar (RP) in light red, Room & Pillar Basic (RPB) in orange, Modified Room & Pillar (MRP) in pink, Room & Pillar Panel (RPP) in light blue, Blind Room & Pillar (BRP) in dark red, Checkerboard Room & Pillar (CRP) in light green, High Extraction Retreat (HER) in yellow, Longwall (LW) in light blue, Underground, Method Unknown in light red, Strip Mine in light green, Auger Mine in light blue, and General Area of Mining in light red.

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

A map of the state of Illinois showing its county boundaries. A single red dot is placed on the map, indicating the location of the study area within McLean County.

DISCLAIMER

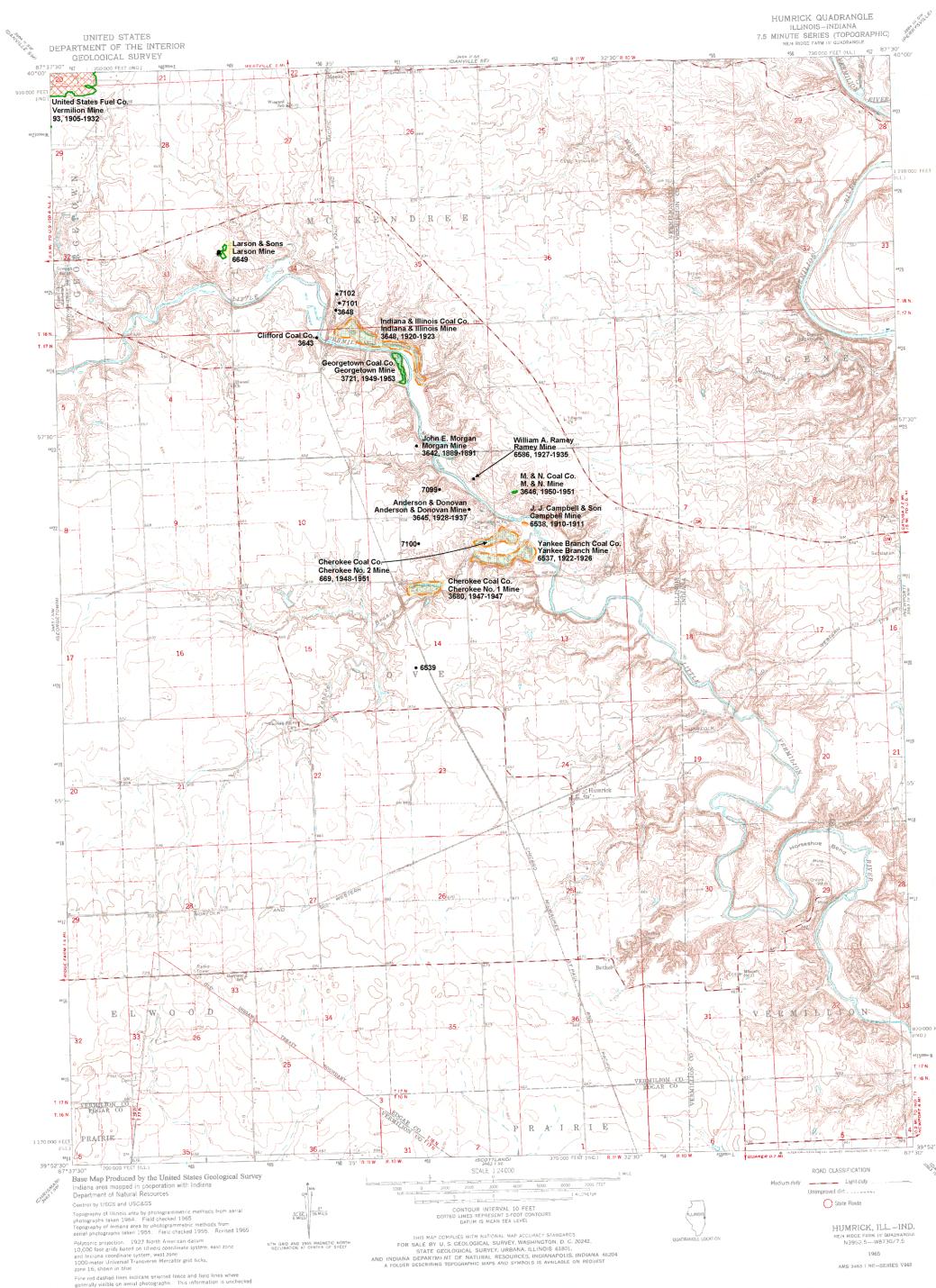
These data were compiled and digitized from the best source maps available. Locations of some features may be offset by 500 feet or more due to errors in the original source maps, the compilation process, digitizing or a combination of these factors. Documentation of the source materials used in the compilation of these data is not included. It is the user's responsibility to read this documentation and understand the limitations of the data. Though efforts have been made to compile these data accurately, the Illinois State Geological Survey does not guarantee the quality or the accuracy of these data.

The image of the U.S.G.S. Humrick Quadrangle used as a basemap was projected from the original UTM to Lambert Conformal Conic.



Illinois State Geological Survey
615 E. Peabody Dr.
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Mine Outlines Compiled by
Jennifer M. Obrad
September 5, 2007



Coal Mines in Illinois Humrick Quadrangle

Vermilion & Edgar Counties, Illinois

Herrin Coal

This map accompanies the Coal Mines Directory for the Humrick Quadrangle and map of mines in the Danville Coal, Humrick Quadrangle. Consult the directory for a complete explanation of the information shown on this map.

Mining Method

- A legend consisting of eight colored squares with corresponding labels: Room & Pillar (orange), Room & Pillar Basic (light orange), Modified Room & Pillar (pink), Room & Pillar Panel (red), Blind Room & Pillar (dark red), Checkerboard Room & Pillar (light red), High Extraction Retreat (yellow), Longwall (green), Underground, Method Unknown (grey), Strip Mine (blue), Auger Mine (purple), and General Area of Mining (yellow).

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
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 - * Mine Slope - Abandoned
 - Mine Drift - Active
 - Mine Drift - Abandoned
 - o Air Shaft
 - o Uncertain Location
 - Uncertain Type of Opening

Mine Annotation

(space permitting)

Company Information

Mine Name ISGS Index No. Years of Operation

Location



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September 24, 2007

**DIRECTORY OF COAL MINES IN ILLINOIS
7.5-MINUTE QUADRANGLE SERIES
HUMRICK QUADRANGLE
VERMILION & EDGAR COUNTIES**

Jennifer M. Obrad



Department of Natural Resources
ILLINOIS STATE GEOLOGICAL SURVEY
2007

DIRECTORY OF COAL MINES IN ILLINOIS

7.5-MINUTE QUADRANGLE SERIES

HUMRICK QUADRANGLE

VERMILION & EDGAR COUNTIES

2007

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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.

The directory serves as a key to the accompanying mine map and provides basic information on the coal mines. 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.

MINING IN HUMRICK QUADRANGLE

The earliest mining in Vermilion County occurred to the north, around the city of Danville. The earliest evidence of mining on the Humrick Quadrangle is two small mines dating to 1875. The mining appears to have ceased on this quadrangle by the early 1950's.

Mining occurred in two coal seams, the Danville Coal and the Herrin Coal. This area lies near the cropline for both seams, which renders the coals near to the surface. A majority of the mines that operated in the quadrangle were surface mines because of the shallow nature of the coals.

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 ISGS 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 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.

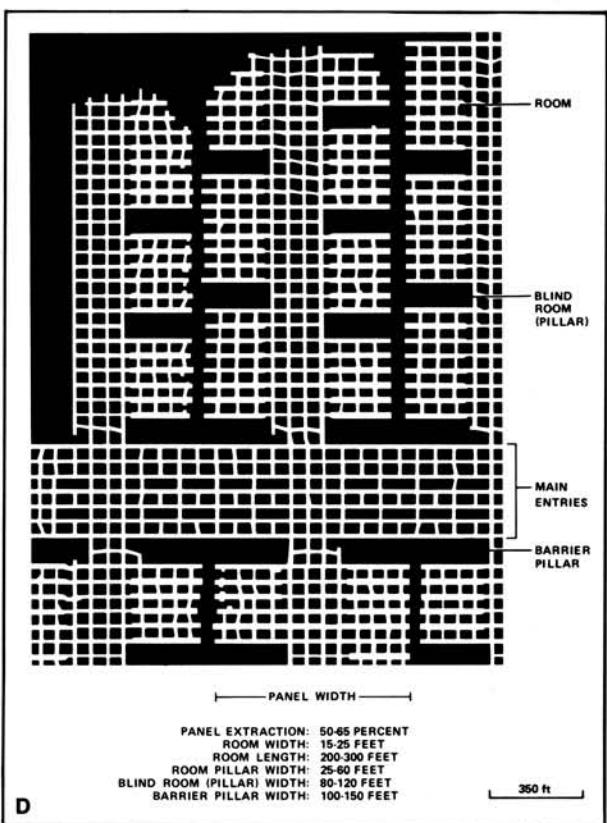
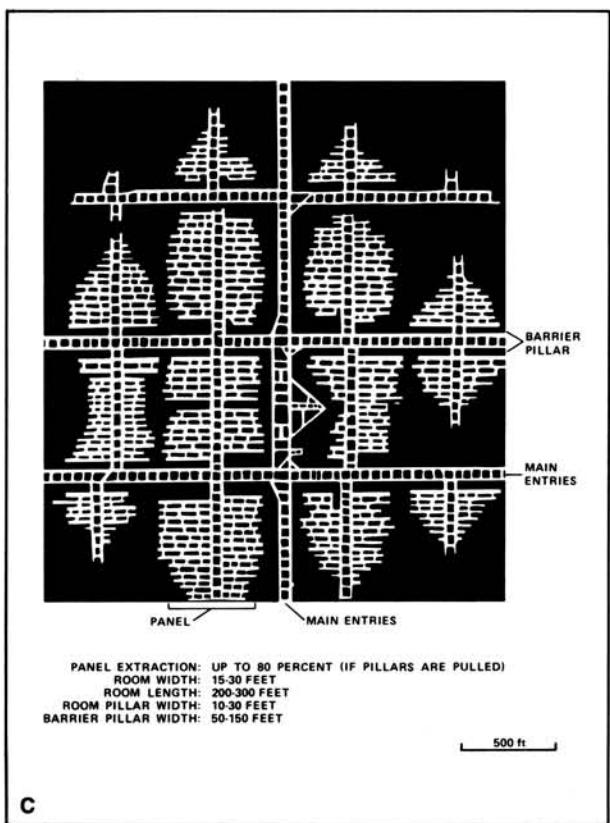
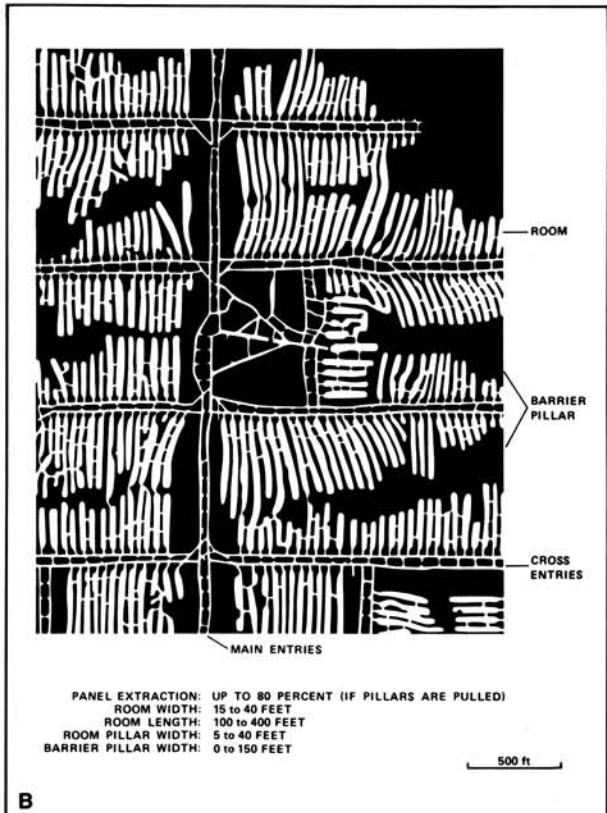
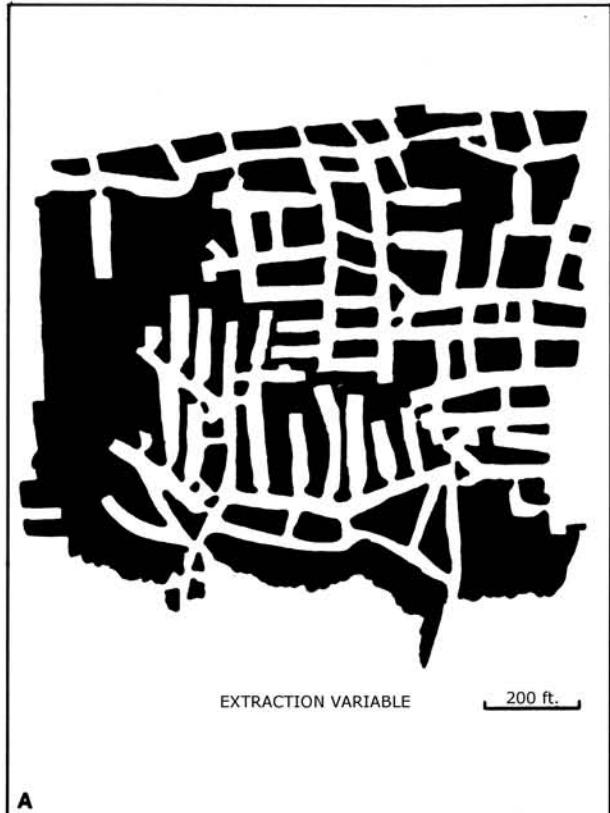


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).

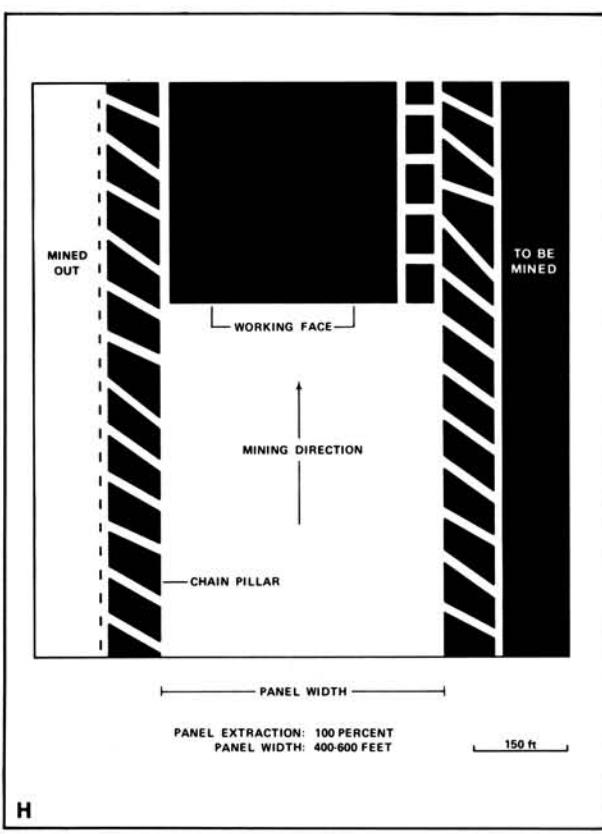
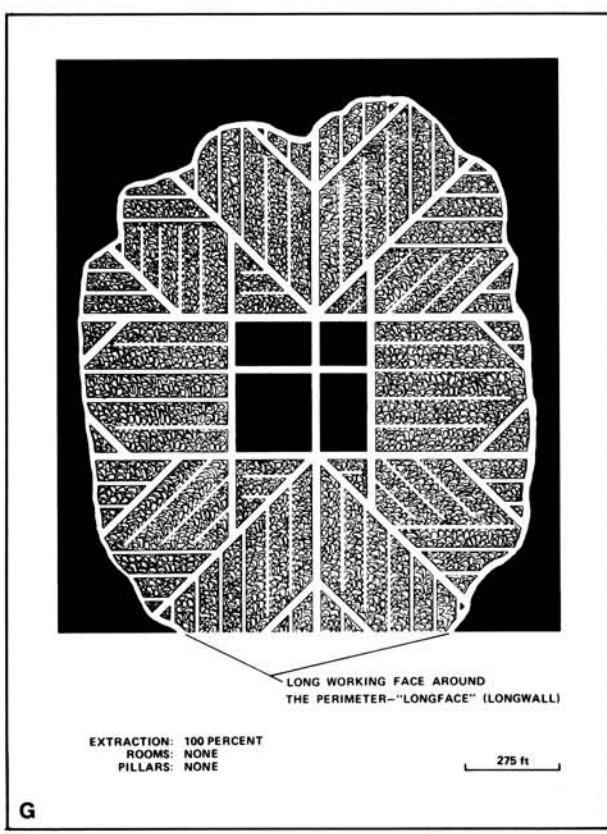
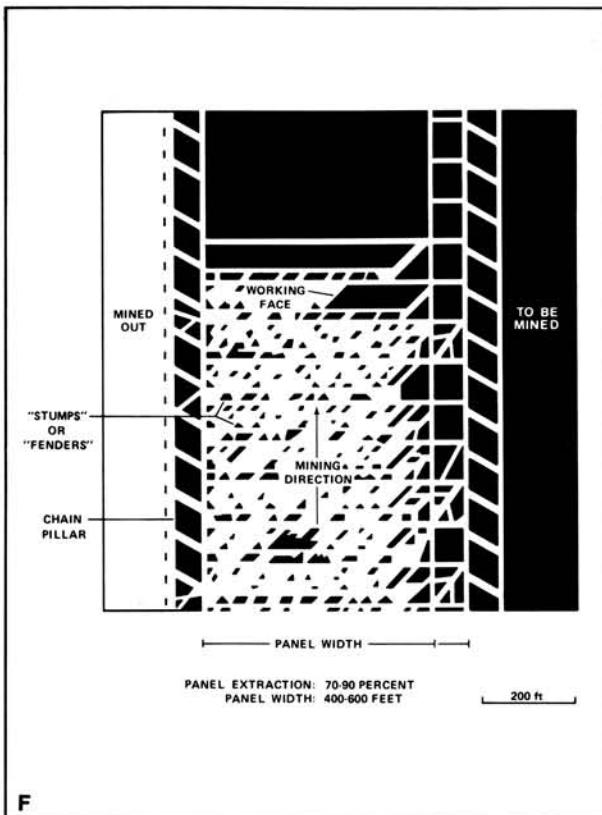
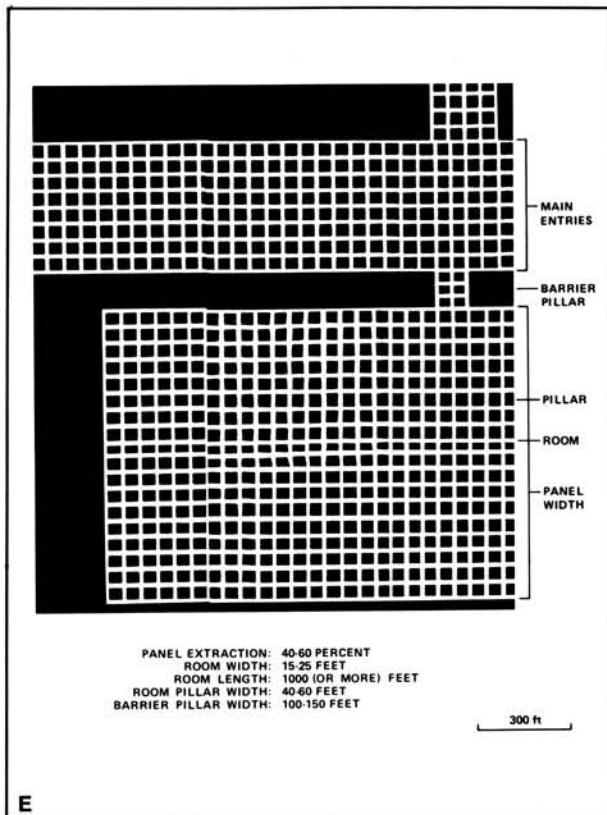


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall

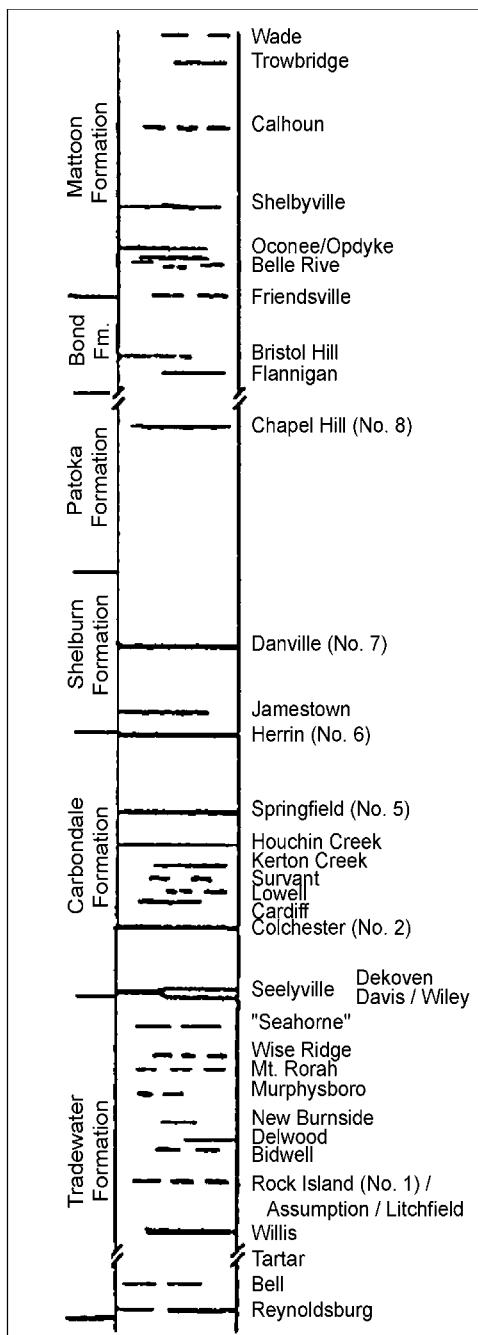


Figure 2 Generalized stratigraphic section, showing approximate vertical relations of coals in Illinois.

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 tipple locations Locations of all known former entry points to underground mines or the location of coal cleaning, tipple, 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 tipple. 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 tipple for underground mines was generally located near the main shaft or slope. At surface mines, coal was sometimes hauled to a central tipple 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 tipplers 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, 185 p.

PART II DIRECTORY OF MINES IN HUMRICK QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in Humrck 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 93

United States Fuel Company, Vermilion Mine

Type: Underground Total mined-out acreage shown: 2,870

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Vermilion	18N 11W	19	NE NW SE
Air shaft	Vermilion	18N 11W	19	NE NW SE
Air shaft	Vermilion	18N 11W	30	SE NW NE

Connected underground to Kelly No. 4 Mine (mine index 3660) near Kelly's auxiliary shaft in 17-T18N-R11W; connection sealed in march 1930.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	180-194	0-5.5	9.5-12.0	6.0-7.5	MRP, HER *

* From the mine notes, circa 1912, "pillars were largely drawn". It is not known how long this procedure continued.

Geologic Problems Reported: Faults were noted on the company map in various parts of the mine, but particularly in Sections 19 and 20 of T18N-R11W. Some faults disturbed the mining pattern and made the coal difficult to get while others had no apparent affect. Some of these faults may have been channels or other erosional features. A 70-foot roof fall was noted southeast of the shaft. The immediate roof was gray sandy shale that ranged from 11 to 50 feet thick and was interbedded with the top layers of the coal, and came down readily. Rolls from the roof caused difficulties in mining. A small amount of pyrite and gypsum was present in cracks throughout most of the mine. The floor was clay up to 6 feet thick. The mine was dry, but the clay did swell readily upon becoming wet. Heaving was not a characteristic of this clay.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Vermilion Coal Company	Vermilion No. 1	1905-1906	9,815
Little Vermilion Coal Company	Little Vermilion No. 1	1906-1908	912,000
Bunsen Coal Company	Vermilion	1908-1916	4,764,717
United States Fuel Company	Vermilion	1916-1932	12,926,636
			18,613,168

Last reported production: March 1932

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4103.V4 i5.1-125	4-1-1932	1:1200	1:1200	Final

Annotated Bibliography (data source, brief description of information)

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

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

Company map, ISGS map library, 4103.V4 i5.1-125 - Shaft locations, mine outline, mining method, geologic problems.

Mine Index 669**Cherokee Coal Company, Cherokee No. 2 Mine**

Type: Surface Total mined-out acreage shown: 17 Production indicates approximately 10 acres were mined. The pit may have been mined by previous operators and expanded by Cherokee No. 2 Mine, or the coal may have been much thinner than reported.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Vermilion	17N 11W	11	SE NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	20-55			4.5	Surface

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Cherokee Coal Company	Cherokee No. 2	1948-1951	<u>65,660</u>
			65,660

Last reported production: March 1951

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352917	3-30-1951	1:4800	1:5297	Final
USGS topographic map	1965	1:24000	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 352917, reel 03134, frame 55 - Ownership, pit location, mining method.

USGS 7.5-minute topographic map, Humrick Quadrangle, 1965 - Mine outline.

Mine Index 3642**John E. Morgan, Morgan Mine**

Type: Surface 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
Pit	Vermilion	17N 11W	2	SE SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	12			6.0	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John E. Morgan	Morgan	1889-1891	<u>1,750</u> 1,750

Last reported production: 1891

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS composite map	1950	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 (Vermilion County) - Mine names, mine index, ownership, years of operation, seam.

Mine notes (Vermilion County) - Mine type, mine location, depth, thickness.

ISGS composite map, 1950 mined-out areas, Area 16 - Mine location.

Mine Index 3645**Anderson & Donovan, Anderson & Donovan Mine**

Type: Surface 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
Pit	Vermilion	17N 11W	11	SW SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	18			4.0	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Sam Donovan	Donovan	1928-1928	120
Ben Donovan	Donovan	1929-1933	250 *
Anderson & Donovan	Anderson & Donovan	1934-1937	547
			917

* Production was not reported 1930-1933 for mines producing less than 1,000 tons per year.

Last reported production: 1937

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS composite map	1950	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 (Vermilion County) - Mine names, mine index, ownership, years of operation.

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

ISGS composite map, 1950 mined-out areas, Area 16 - Mine location.

Mine Index 3646**M. & N. Coal Company, M. & N. Mine**

Type: Surface Total mined-out acreage shown: Less than 1 acre

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Vermilion	17N 11W	12	NE SW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin				4.0	Surface

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
M. & N. Coal Company	M. & N.	1950-1951	<u>750</u> 750

Last reported production: January 1951

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352990	1-27-1951	1:1200	1:1655	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, thickness, mining method.

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

Mine notes (Vermilion County) - Mine type, tipple location, seam, thickness.

Microfilm map, document 352990, reel 03141, frame 133 - Mine outline, mining method.

Mine Index 3648**Indiana & Illinois Coal Company, Indiana & Illinois Mine**

Type: Surface Total mined-out acreage shown: 44 Production indicates approximately 20 acres were mined. The area shown on the accompanying map is larger than expected for the reported production.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Vermilion	18N 11W	34	NW SE SE
Pits	Vermilion	17N 11W	2 & 3	N ½

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin				4.0-6.5	Surface

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Indiana & Illinois Coal Company *	Indiana & Illinois	1920-1923	160,708
			160,708

* Operated by Sandusky & McMillan

Last reported production: August 1923

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4103.V4. i5.1-81	1946	1:62500	1:62500	Secondary source
USGS topographic map	1965	1:24000	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

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

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

Mine notes (Vermilion County) - Mine type, tipple & pit locations, seam, thickness.

ISGS map library, 4103.V4. i5.1-81, U. S. Forest Service Strip Mine Reconnaissance Map - General pit location.

USGS 7.5-minute topographic map, Humrick Quadrangle, 1965 - Mine outline.

Mine Index 3666**H. & L. Excavation, Inc., H. & L. Mine**

Type: Surface Total mined-out acreage shown: 28 Production indicates approximately 7 acres were mined. The area shown on the accompanying map is larger than expected for the reported production.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Vermilion	18N 11W	32	NW SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Danville	8-20			3.5	Surface

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Short Coal Company	Short [No. 1]	1927-1935	1,093 *
Short Coal Company	Short No. 2	1936-1936	190
Riggle & Short	Short No. 2	1937-1937	129
Short Coal Company	Short No. 2	1938-1938	139
Phillips Stripping Company	Phillips	1938-1939	540
Georgetown Coal Company	Georgetown	1940-1945 **	2,621
Nielson Coal Company	Nielson	1946-1947	300
H. & L. Excavation, Inc.	H. & L.	1948-1950	<u>35,331</u> 40,343

* Production not reported 1930-1933 for mines producing less than 1,000 tons per year

** Idle 1943-1945

Last reported production: July 15, 1950

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352991	9-29-1951	1:1200	1:1821	Final
Company, 4103.V4 i5.1-28	8-20-1948	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 (Vermilion County) - Mine names, mine index, ownership, years of operation.

Mine notes (Vermilion County) - Tipple location, seam, depth, thickness, mining method.

Microfilm map, document 352991, reel 03141, frame 134 - Mine outline, mining method.

Company map, ISGS map library, 4103.V4 i5.1-28 - Tipple location, southern mine outline.

Mine Index 3680**Cherokee Coal Company, Cherokee No. 1 Mine**

Type: Surface Total mined-out acreage shown: 15 Production indicates approximately 1 acre was mined. The area shown on the accompanying map is larger than expected for the reported production. Additional production may have been reported under Western Brick Coal Company and various other mine operators leasing coal from the Western Brick Company (see the Danville Southeast and Danville Southwest Quadrangles, mine index numbers 3710, 3783, 3788, 3790 and 6773), or the actual area mined may only be in the vicinity of a small pond in the northern part of the pit.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Vermilion	17N 11W	14	N ½ NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	70 *			5.67-6.0	Surface

* 60 feet of overburden was removed by the Western Brick Company, the remainder removed by the Cherokee Coal Company.

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Cherokee Coal Company **	Cherokee No. 1	1947-1947	6,796
			6,796

** Operated by George Dinsmore; previously owned by Western Brick Company, mining on Western Brick property.

Last reported production: September 1947

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
USGS topographic map	1965	1:24000	1:24000	Secondary source
Coal Section files, 10-6-25	5-11-1920	1:3960	1:3960	Secondary source
ISGS map library, 4103.V4 i5.1-81	1946	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 (Vermilion County) - Mine names, mine index, ownership, years of operation.

Mine notes (Vermilion County) - Mine type, mine location, seam, depth, thickness.

USGS 7.5-minute topographic map, Humrick Quadrangle, 1965 - Mine outline.

Coal Section files, 10-6-25, Yankee Branch Strip Coal Lands (mine index 6537) - General pit location.

ISGS map library, 4103.V4 i5.1-81, U. S. Forest Service Strip Mine Reconnaissance Map - General pit location.

Mine Index 3721**Georgetown Coal Company, Georgetown Mine**

Type: Surface Total mined-out acreage shown: 5

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Vermilion	17N 11W	2	NW SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	10-60				Surface

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Grape Creek Coal Company *	Grape Creek	1949-1951	22,608
Georgetown Coal Company	Georgetown	1952-1953	<u>3,201</u>
			25,809

* Operator Walter Hilgeman

Last reported production: April 1953

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352996	8-28-1953	1:1200	1:1655	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Vermilion County) - Mine type, seam, depth.

Microfilm map, document 352996, reel 03141, frame 139 - Mine location, mine outline, mining method.

Mine Index 6537
Yankee Branch Coal Company, Yankee Branch Mine

Type: Surface Total mined-out acreage shown: 28

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Vermilion	17N 11W	11	SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin	40-55			4.0-5.0	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Yankee Branch Coal Company	Yankee Branch	1922-1926 *	<u>184,093</u>
			184,093

* The 1895 Atlas of Vermilion County showed a mine within the area subsequently surface-mined by Yankee Branch Mine. One of the unlocated mines at the back of this report may have been removed by this surface mine operation.

Last reported production: 1926

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
USGS topographic map	1965	1:24000	1:24000	Secondary source
Coal Section files, 10-6-25	5-11-1920	1:3960	1:3960	Not final
ISGS map library, 4103.V4 i5.1-81	1946	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 (Vermilion County) - Mine names, mine index, ownership, years of operation.

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

USGS 7.5-minute topographic map, Humrick Quadrangle, 1965 - Mine outline.

Company map, Coal Section files, 10-6-25 - General pit location.

ISGS map library, 4103.V4 i5.1-81, U. S. Forest Service Strip Mine Reconnaissance Map - General pit location.

Mine Index 6538**J. J. Campbell & Son, Campbell Mine**

Type: Surface Total mined-out acreage shown: Less than 1 acre

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Vermilion	17N 11W	12	NE NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin					Surface

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
J. J. Campbell & Son	Campbell	1910-1911	5,733 5,733

Last reported production: 1911

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
USGS topographic map	1965	1:24000	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Vermilion County) - Mine location, general mine outline, seam.

USGS 7.5-minute topographic map, Humrick Quadrangle, 1965 - Mine outline.

Federal Land Bank Report (Vermilion County) - General mine location.

Mine Index 6586
Willard A. Ramey, Ramey Mine

Type: Surface Total mined-out acreage shown: None

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Vermilion	17N 11W	11	NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin					Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
William A. Ramey	Ramey	1927-1935	4,115 * 4,115

* Production not reported 1930, 1931, and 1933 for mines producing less than 1,000 tons per year. Production was higher than shown.

Last reported production: 1935

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (Denard Lee)	8-24-1931	(text only)	1:24000 **	Secondary source

** The mine location was plotted on a 1:24000 USGS topographic map from the mine location description and digitized.

Annotated Bibliography (data source, brief description of information)

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

Mine Index 6649**John Larson Coal Company, Larson Mine**

Type: Underground Total mined-out acreage shown: 2 Production indicates approximately 7 acres were mined. A general area of mining has been added to the accompanying map, where old works were designated on the source map for the mine, to indicate the possible extent of the mine.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Vermilion	18N 11W	33	NE SE NE
Air shaft	Vermilion	18N 11W	33	NE SE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Herrin					RP

Geologic Problems Reported: The mine's advancement in the northwestern and southeastern parts of the mine was apparently halted because of areas labeled "sand". These may have been channels that either caused wet conditions that hindered mining or eroded and/or replaced the coal.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
John Larson Coal Company	Larson	1919-1937	<u>26,852</u> *
			26,852

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

Last reported production: March 28, 1937 (from source map, abandoned date)

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352888	4-1-1937	1:2400	1:2152	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Microfilm map, document 352888, reel 03140, frame 519 - Slope/shaft locations, mine outline, mining method, geologic problems.

OTHER MINES SHOWN ON HUMRICK QUADRANGLE

Mine Index 3643, Clifford Mine NE NW NE 3-T17N-R11W, surface, Herrin Coal source: ISGS 1950 mined-out area map
Mine Index 6521 NE NE SW 34-T18N-R11W, surface, Danville Coal source: ISGS 1950 mined-out area map
Mine Index 6539 SW NE SW 14-T17N-R11W, surface, Herrin Coal source: ISGS mine notes
Mine Index 7099 NW SW NE 11-T17N-R11W, surface, Herrin Coal source: ISGS map library, 4103.V4 i5.1-81, U. S. Forest Service Strip Mine Reconnaissance Map, ISGS field notes (D. Lee, 1931)
Mine index 7100 SE NE SW 11-T17N-R11W, Herrin Coal source: ISGS map library, 4103.V4 i5.1-81, U. S. Forest Service Strip Mine Reconnaissance Map
Mine Index 7101 NW SE SE 34-T18N-R11W, Herrin Coal source: An Illustrated Historical Atlas Map, Vermilion County, Illinois, 1875
Mine Index 7102 SW NE SE 34-T18N-R11W, Herrin Coal source: An Illustrated Historical Atlas Map, Vermilion County, Illinois, 1875

MINES WHOSE LOCATIONS ARE NOT KNOWN, HUMRICK 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 mines listed below mined in the Humrict Quadrangle. The information 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), seam, depth of coal in feet, and thickness of coal in feet.

The total tons mined by these unlocated mines is 123,953 (84,868 underground, 35,420 surface mined and 3,665 mined by unknown method), which would represent approximately 21 to 45 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

CHRISMAN

Armstrong (T. L.), 1923-1923	125 tons
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FOSTERBURG

Hope Coal Company, 1922-1923	640 tons
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GEORGETOWN

Yankee Branch Coal Company, 1934-1935, surface	3,369 tons	mine index 6537
Chandler (M.), 1885-1885, surface	50 tons	
Crawford (George H.), 1884-1886, surface, Herrin	1,000 tons	
Crawford (George A.), 1886-1887, slope, Danville, 50, 5.0	560 tons	
Breezley (P.), 1887-1889, underground	1,595 tons	
Martin (R.), 1884-1885, surface, Herrin	600 tons	
Martin (Ambrose), 1885-1886	<u>335</u> tons	
	935 tons	
Clifton (S. A. D.), 1890-1891, surface, 5, 4.0-5.0	750 tons	
Kennedy (George), 1891-1893	<u>810</u> tons	
	1,560 tons	
Clifton (Jacob), 1890-1895, surface, Danville, 5-14, 4.0-5.0	1,485 tons	

Clifton (Andrew), 1895-1896	1,000 tons
Hollinsworth (Samuel), 1896-1897	400 tons
Horning (J. W.), 1897-1899	<u>750</u> tons
	<u>3,635</u> tons
Lowell (A.), 1890-1891, surface, —, 6-8, 4.0-5.5	330 tons
Schafer (Jesse), 1891-1895	950 tons
Lowell (A. E.), 1895-1897	<u>1,660</u> tons
	2,940 tons
Williams (John C.), 1891-1895, surface, Danville, 4-35, 4.0-6.0	1,455 tons
Graham (Thomas), 1896-1899	<u>1,600</u> tons
	3,055 tons
Cook (B. F.), 1893-1894, drift, Danville, 30-40, 4.0-6.0, RP	600 tons
Coon (John), 1894-1895	<u>200</u> tons
	800 tons
Hawkins (Amos), 1893-1894, drift, Danville, 30, 6.0	800 tons
Hawkins (A. J.), 1894-1895, surface, Danville, —, 4.0	1,000 tons
Garrets & Company, 1903-1904, surface, Herrin, 10, 7.0	502 tons
Bryant & Jumps, 1912-1913, surface, Danville, —, 6.0	650 tons
Bryant & Jumps, 1913-1914, slope, Herrin, —, 5.0, RP	300 tons
Hawkins (Lloyd), 1914-1917, drift, Danville, —, 4.5-5.0, RP	10,300 tons
H. & H. Coal Company, 1925-1925	335 tons
Meeks & Hawkins, 1926-1926	300 tons
Morgan, Meeks & Hawkins, 1927-1927	<u>300</u> tons
	600 tons
Trosper (E. M.), 1926-1926	225 tons
Morgan (James M.), 1926-1929, surface	4,255 tons
Mannay (Frank), 1926-1926	50 tons
Lewis & Yoho, 1926-1926	40 tons
Cook (B. A.) Coal Company, 1927-1935, surface	3,223 tons
Brayton & McCool, 1927-1927	300 tons
Brazelton & McCool, 1928-1928	<u>150</u> tons
	450 tons
Poole (Raleigh), 1927-1928	150 tons
Hawkins (Edward) Coal Company, 1927-1935, surface	520 tons
Thornton Coal Company, 1929-1929, surface	350 tons
Tucker Coal Company, 1929-1929, surface	90 tons
Georgetown Community Mine, 1932-1935, surface	2,325 tons
B. & M. Coal Company, 1935-1935, underground	45 tons

HILLERY

Spangler (Thomas) & Co., 1886-1889, shaft, Danville, 36-50, 5.67-6.0, RP	996 tons
Casteel (Z. Taylor), 1889-1892	2,470 tons
Benson (George W.), 1892-1894	2,120 tons
	5,586 tons
Holycross (C.) Coal Company, 1934-1935, underground	350 tons

HIMROD

Howard, on the Howard farm, 2 miles east of Himrod, shaft. no production recorded under this name

HUMRICK

Johns (John W.), 1890-1893, surface, 6, 4.0	980 tons
Dillon (Lewis), 1890-1891, surface, 6, 4.0	300 tons
Jones (J. A.), 1902-1903, surface, Danville, -, 6.0	1,019 tons
Lovall (David), 1902-1903, surface, Danville, -, 6.0	1,600 tons

LYONS

Bunting (J. D.) & Brothers, 1920-1921	450 tons
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VANDERCOOK

Morgan (Noah), 1883-1889, drift, Danville, 40, 5.75-6.0	10,580 tons	mine index 3642
Miller (E.), 1885-1885, surface <i>see Emanuel Miller, Fairmount, shaft mine</i>	80 tons	
Ingram (Nick), 1884-1885, surface	500 tons	
Wilson (A.), 1885-1885, drift, 70, 6.0, RP	200 tons	
Brady (John), 1887-1890, surface, Danville, 12, 6.5	675 tons	
McBride (John), 1887-1888, surface, Danville, 10, 6.5	737 tons	
McBride (A. S.), 1889-1890	<u>70</u> tons	
	807 tons	
Wilson (Anthony), 1890-1891, drift, Danville, 60, 6.0	760 tons	
Lewis (D. M.) & Son, 1891-1895, shaft, Danville, 60, 6.0, RP	528 tons	
Colburn (John R.), 1896-1901, drift, Danville, 60-90, 5.5-6.0, RP	6,723 tons	
Colburn (John R.), No. 2 Mine or Klondike Mine, 1901-1904	8,015 tons	
Reynolds, Hudson & Edwards, 1904-1905	11,250 tons	
Reynolds & Bales, 1905-1907	<u>20,000</u> tons	
	45,988 tons	
Sheppard (John), 1896-1898, shaft, Danville, 60, 5.0-6.0, RP	1,200 tons	
Smoot (C. R.), 1901-1902, shaft, Danville, 45, 6.0, RP	1,376 tons	
Kinney (J. M.), 1901-1901, drift, Danville, 40, 6.0, RP	300 tons	
Edwards (John), 1905-1906, drift, Danville, 40, 6.0, RP	3,600 tons	

VERMILION HEIGHTS

Swisher Brothers, 1926-1926

600 tons

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