# Coal Mines in Illinois
# Mascoutah Quadrangle
## St. Clair County, Illinois
## Herrin Coal

This map accompanies the Coal Mines Directory for the Mascoutah 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

**Other Areas Depicted**

- Non-Coal Mines

**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

**Other Points Depicted**

- Non-Coal Mines

**Location**

**Mine Annotation**
(space permiting)
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 undermined; 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.


ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

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**Mine Outlines Compiled by**
**Melony E. Barrett**

**2001**
**Revised 2004, 2019 & 2021**



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF ILLINOIS
DEPARTMENT OF ENERGY AND NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION
CHAMPAIGN, ILLINOIS

MASCOUTAH QUADRANGLE
ILLINOIS–ST. CLAIR CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 NEW ATHENS 15' QUADRANGLE

Base Map Produced by the United States Geological Survey
Control by USGS and NOS/NOAA
Topography by photogrammetric methods from aerial photographs taken 1986. Field checked 1988. Map edited 1990
Supersedes Army Map Service map dated 1954
Projection and 10,000-foot grid ticks: Illinois coordinate system, west zone (transverse Mercator)
1000-meter Universal Transverse Mercator grid, zone 16
1927 North American Datum
To place on the predicted North American Datum 1983, move the projection lines 2 meters south and 8 meters east as shown by dashed corner ticks
There may be private inholdings within the boundaries of the National or State reservations shown on this map
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 1990 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
THIS MAP COMPLIES 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 — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route · U. S. Route · State Route

MASCOUTAH, ILL.
NE/4 NEW ATHENS 15' QUADRANGLE
38089-D7-TF-024
1990
DMA 3060 IV NE-SERIES V863


Missouri & Illinois Coal Co.
Rentchler Mine
3489, 1888-1923

Rentchler Fuel Co.
Enterprise Mine
3490, 1882-1936

Hippard Coal Co.
Hippard No. 1 Mine
3491, 1903-1934

Schubert Coal Co.
Schubert Mine
3486, 1882-1956

Schubert Coal Co.
Schubert No. 1 Mine
3486, 1882-1956

Home Coal Co.
Home Mine
3485, 1912-1941

Kolb Coal Co.
Mascoutah No. 1 Mine
340, 1895-1930

Peabody Coal Co.
River King Underground Mine
940, 1970-1989

Peabody Coal Co.
River King Surface Mine
857, 1957-1986

Pit 1

Pit 2

Pit 4

United Electric Coal Co.
Red Ray No. 13 Mine
3616, 1925-1949

# DIRECTORY OF COAL MINES IN ILLINOIS
# 7.5-MINUTE QUADRANGLE SERIES
## MASCOUTAH QUADRANGLE
## ST. CLAIR COUNTY

Cheri Chenoweth & Melony E. Barrett

Department of Natural Resources
ILLINOIS STATE GEOLOGICAL SURVEY
2001
REVISED 2004, 2021

# DIRECTORY OF COAL MINES IN ILLINOIS
# 7.5-MINUTE QUADRANGLE SERIES
## MASCOUTAH QUADRANGLE
## ST. CLAIR COUNTY

2001
REVISED 2004, 2021

ILLINOIS STATE GEOLOGICAL SURVEY
William Shilts, Chief

Natural Resources Building
615 East Peabody Drive
Champaign, Illinois 61820

Phone 1-217-244-4610
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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.

*Printed by authority of the State of Illinois/2001*

## CONTENTS

## 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 THE MASCOUTAH QUADRANGLE

Mining in this quadrangle began prior to 1882, and continued until 1989. The most recent (and largest) mine in the Mascoutah quadrangle is the River King Underground Mine (mine index 940), just east of Freeburg. The oldest mine is the Enterprise Mine (mine index 3490), in the northwest corner of the quadrangle.

The Herrin Coal was the only coal mined here, ranging from 6.0 to 9.0 feet thick and 58 to 185 feet deep. The most prevalent geologic problem of this area were coal balls in the roof.

# 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.

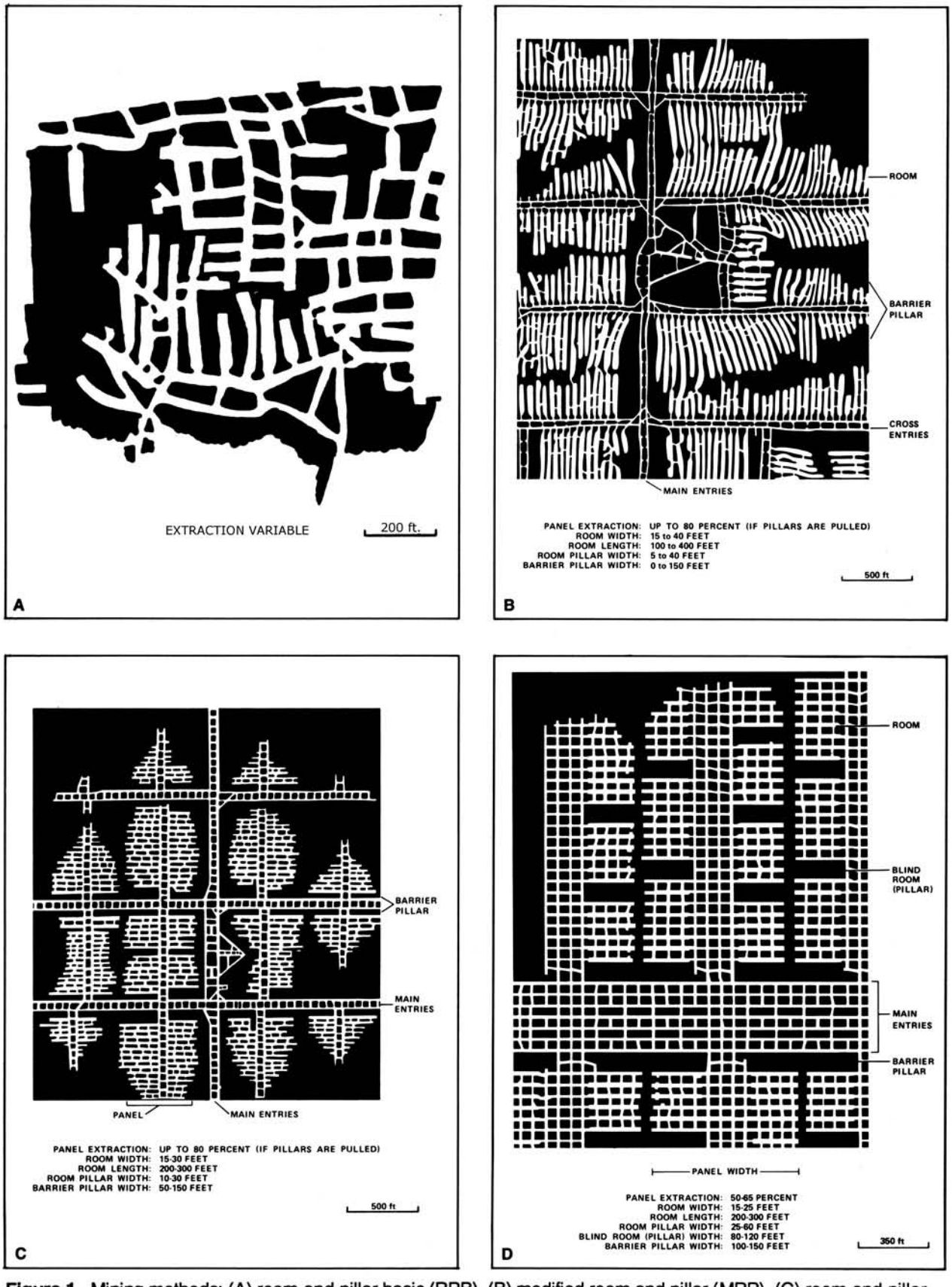
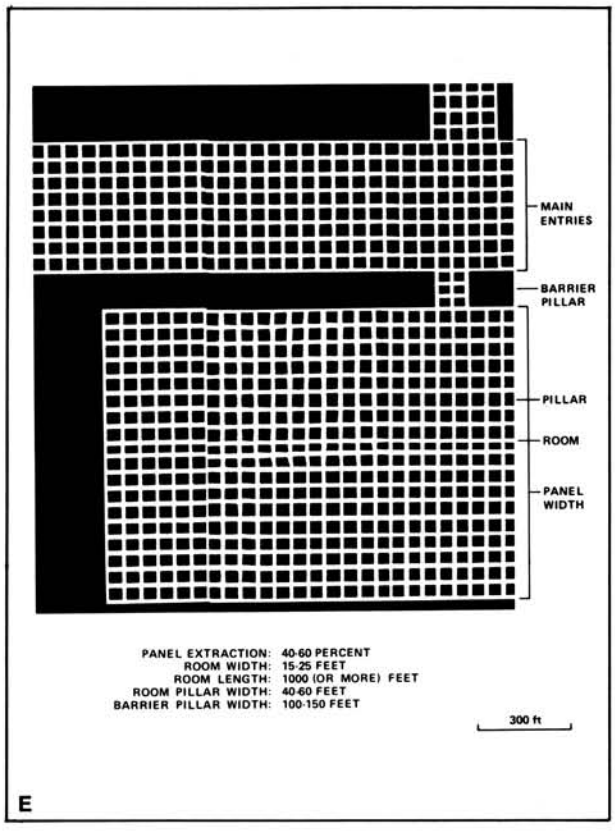
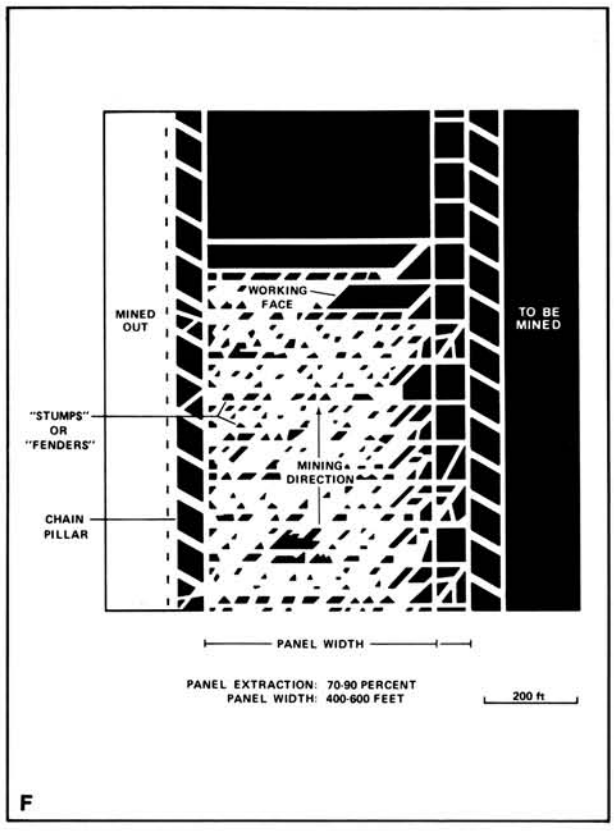
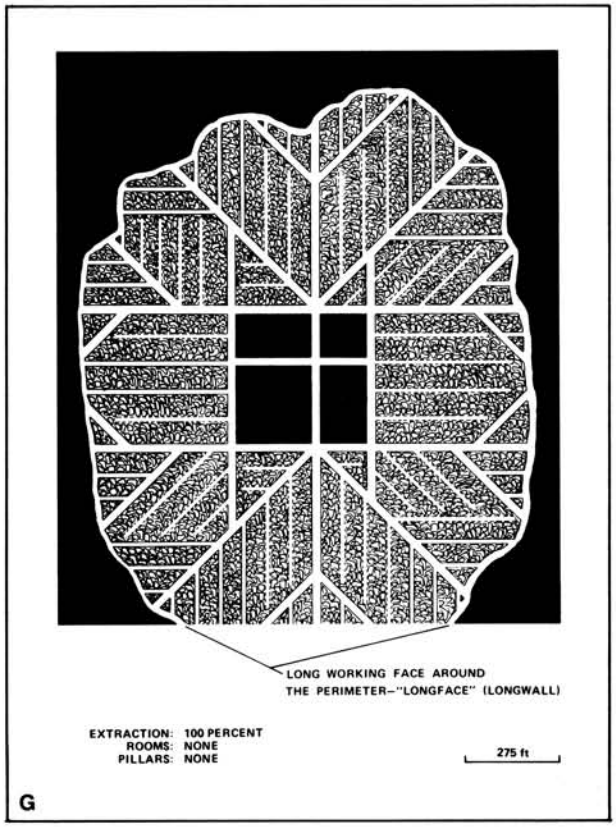



**Figure 1** Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).



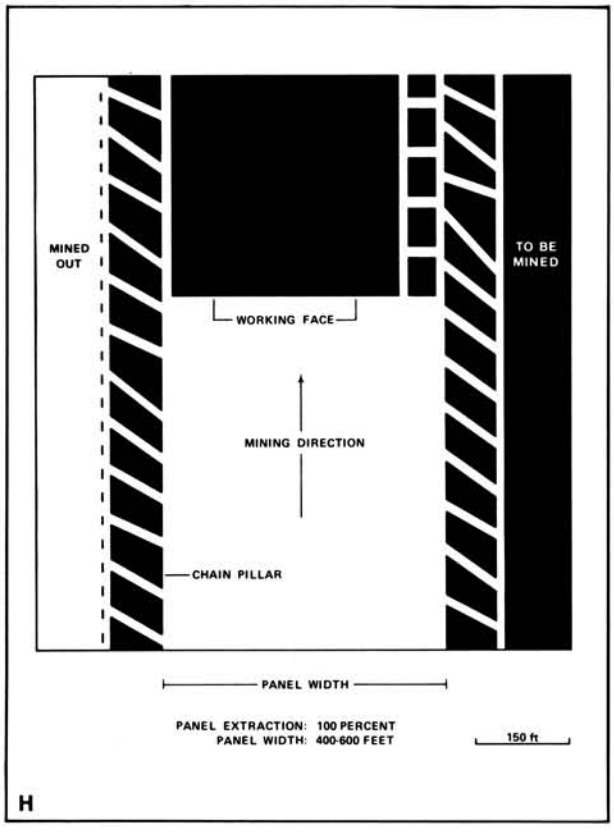




**Figure 1** *(cont.)* Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall

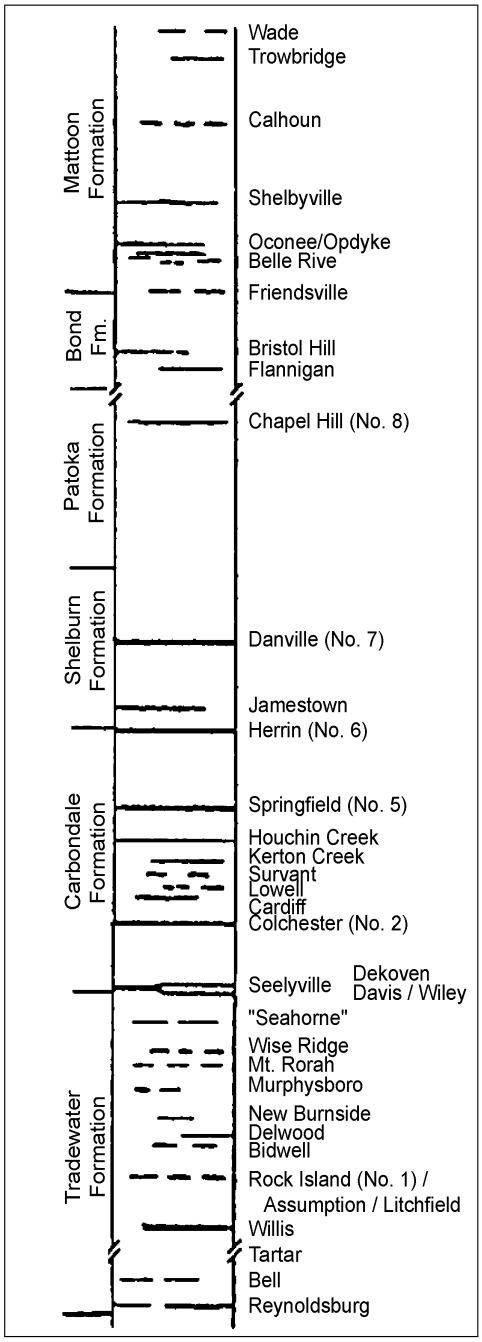



**Figure 2** Generalized stratigraphic section, showing approximate vertical relations of coals in Illinois.

## 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 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, 185 p.

Warner & Beers, 1874, An Illustrated Historical Atlas of St. Clair County, IL, Warner & Beers Publishers, Chicago, Illinois, 115p.

# PART II DIRECTORY OF MINES IN MASCOUTAH QUADRANGLE

**MINE SUMMARY SHEETS**
A summary sheet on the geology and production history of each mine in the Mascoutah 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 340**
**Kolb Coal Company, Mascoutah Mine**

Type: Underground Total mined-out acreage shown: 978 *

* The boundaries between Home Mine and Mascoutah No. 1 Mine (mine index 340) could not be distinguished. The acreage reported is the total for these two mines.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

| Type | County | Twp-Rge | Section | Quarters-Footage |
|---|---|---|---|---|
| Main shaft (6' x 12') | St. Clair | 1N 6W | 32 | SW NW SE |
| Air shaft | St. Clair | 1N 6W | 32 | SW NW SE |

**GEOLOGY**

| | | Thickness (ft) | | | Mining |
|---|---|---|---|---|---|
| Seam(s) Mined | Depth (ft) | Min | Max | Ave | Method |
| Herrin | 160 | 6.0 | 8.0 | 7.0 | MRP |

Geologic Problems Reported: The roof contains concretions. The lower bench of the coal (below the blue band) has a number or sulphur balls.

**PRODUCTION HISTORY**

| Company | Mine Name | Years | Production (tons) |
|---|---|---|---|
| Kolb Coal Company | Mascoutah, Kolb No. 1 | 1895-1930 | 3,096,758 |
| | | | 3,096,758 |

Last reported production: 1930

**SOURCES OF DATA**

| Source Map | Date | Original Scale | Digitized Scale | Map Type |
|---|---|---|---|---|
| Company, 4103.S31 i5.1-6 | 10-9-1942 | 1:2400 | 1:2400 | Final |

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
Mine notes (St. Clair County) - Mine type, shaft size, seam, depth, thickness, geologic problems.
Company map, ISGS map library, 4103.S31 i5.1-6 - Shaft locations, mine outline, mining method.

**Mine Index 857**
**Peabody Coal Company, River King Surface Mine**

Type: Surface Total mined-out acreage shown: 1,722 (Pits 1, 2 & 4); 1853 (Pit 3) The area shown on the accompanying map, combined with that shown on Freeburg and New Athens East Quadrangles, is much smaller than expected from the reported production. The area shown for River King Pit No. 6 Mine (mine index 934) on the Tilden, Baldwin, and New Athens East Quadrangles is much larger than expected for the reported production. If both index numbers are combined for all of the River King Surface mines, the area shown on the quadrangle maps is in line with the reported production. The total area mined was 13,164 acres for a total of 104,187,734 tons.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

| Type | County | Twp-Rge | Section | Quarters-Footage |
|---|---|---|---|---|
| Tipple | St. Clair | 1S 7W | 15 | 280 FSL, 180 FWL, NE SW |
| Pit 1 (1957-1965) St. Clair | | 2S 7W | 33 (Freeburg quadrangle) | |
| Pit 2 (1957-1965) St. Clair | | 1S 7W | 22 (Mascoutah quadrangle) | |
| Pit 3 (1965-1986) St. Clair | | 2S 7W | 26 (New Athens East quadrangle) | |
| Pit 4 (1957-1965) St. Clair | | 2S 7W | 3 (Mascoutah quadrangle) | |

**GEOLOGY**

| Seam(s) Mined | Depth (ft) | Thickness (ft) Min | Max | Ave | Mining Method |
|---|---|---|---|---|---|
| Herrin | 58-78 | | | 6.2-7.0 | Surface |

Geologic Problems Reported: The Herrin Coal contained flat concretions in the top 6 inches in one area. Some difficulties encountered in surface mining Pit No. 3 included shooting the hard limestones (Piasa and Brereton) and in drilling the shot holes in the soft sand above the bedrock, which required continuous casing.

**PRODUCTION HISTORY**

| Company | Mine Name | Years | Production (tons) |
|---|---|---|---|
| Peabody Coal Company | River King Surface, Pits 1-4 | 1957-1975 | 70,303,672 |
| Peabody Coal Company | River King Surface, Pit No. 3 | 1976-1986 | 6,728,122 |
| | | | 77,031,794 |

Last reported production: February 1986

**SOURCES OF DATA**

| Source Map | Date | Original Scale | Digitized Scale | Map Type |
|---|---|---|---|---|
| Company, 4103.S31 i5.1-62 | 3-14-1969 | 1:12000 | 1:12000 | Final * |
| Company map | 3-8-1989 | 1:12000 | 1:12000 | Final ** |
| USGS topographic map | 1991 | 1:24000 | 1:24000 | Secondary source |

* Final for Pit No.s 1, 2 (Mascoutah quadrangle), and 4. Not final for Pit 3 (New Athens East quadrangle).
** Final for Pit No. 3

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness, mining method.
Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
Company map, ISGS map library, 4103.S31 i5.1-62 - Mine outline.
Company map, Coal Section files, 6-410 - Mine outline, mining method.
USGS topographic map, New Athens East 1991 - East extension of Pit 3.

**Mine Index 940**
**Peabody Coal Company, River King Underground Mine**

Type: Underground  Total mined-out acreage shown: 6,474

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

| Type | County | Twp-Rge | Section | Quarters-Footage |
|---|---|---|---|---|
| Main slope | St. Clair | 1S 7W | 15 | NW SW SW |
| Air shaft | St. Clair | 1S 7W | 4 | NW NE SE |
| Air shaft (exhaust) | St. Clair | 1S 7W | 16 | NE NW SE |
| Air shaft (intake) | St. Clair | 1S 7W | 15 | SW SW SW |
| Shaft | St. Clair | 1S 7W | 15 | NW SW SW |

**GEOLOGY**

| | | Thickness (ft) | | | Mining |
|---|---|---|---|---|---|
| Seam(s) Mined | Depth (ft) | Min | Max | Ave | Method |
| Herrin | 110-135 | | | 5.5-6.5 | BRP |

Geologic Problems Reported: Roof falls frequently occur where Energy Shale forms roof. Slips, small faults, and irregular discontinuous layering cause many falls.

**PRODUCTION HISTORY**

| Company | Mine Name | Years | Production (tons) |
|---|---|---|---|
| Peabody Coal Company | River King Underground | 1970-1989 | 28,696,174 |
| | | | 28,696,174 |

Last reported production: December 1989

**SOURCES OF DATA**

| Source Map | Date | Original Scale | Digitized Scale | Map Type |
|---|---|---|---|---|
| Company map, 6-321 | 1-2-1990 | 1:12000 | 1:12000 | Final |

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 (St. Clair County) - Mine names, mine index, ownership, years of operation.
Mine notes (St. Clair County) - Seam, geologic problems.
Company map, Coal Section files, 6-321 - Slope and shaft locations, mine outline, mining method.

**Mine Index 3485**
**Home Coal Company, Home Mine**

Type: Underground  Total mined-out acreage shown: 978 *

* The boundaries between Home Mine and Mascoutah No. 1 Mine (mine index 340) could not be distinguished. The acreage reported is the total for these two mines.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

| Type | County | Twp-Rge | Section | Quarters-Footage |
|---|---|---|---|---|
| Main shaft (7'x16') | St. Clair | 1N 6W | 32 | SW NW NE |
| Air shaft | St. Clair | 1N 6W | 32 | SW NW NE |

**GEOLOGY**

| | | Thickness (ft) | | | Mining |
|---|---|---|---|---|---|
| Seam(s) Mined | Depth (ft) | Min | Max | Ave | Method |
| Herrin | 160-185 | 6.5 | 9.0 | 7.67 | MRP |

Geologic Problems Reported: The roof is limestone over more than 50% of the mine. In these areas, there is a clod between the coal and the roof that tends to stick to the coal. Cracks are present in some places, and there is generally some movement where the cracks are present - usually an inch or two, but rarely as much as a foot. The coal under the larger cracks have clay-filled cracks similar to the horsebacks of the Springfield Coal. Where black shale forms the roof, coal balls are common, generally 1 to 3 feet in diameter. The black shale is difficult to keep up. Pyrite occurs in sheets between the benches, especially in and about 5 inches above the blue band.

**PRODUCTION HISTORY**

| Company | Mine Name | Years | Production (tons) |
|---|---|---|---|
| Kolb Coal Company | Mascoutah No. 2 | 1912-1934 ** | 2,462,269 |
| Edward A. Yoch | Mascoutah | 1934-1936 *** | 1,165 |
| Mascoutah Coal & Mining Company | Mascoutah | 1936-1940 | 53,032 |
| Home Coal Company | Home | 1940-1941 | 10,549 |
| | | | 2,527,015 |

** Idle 1928
*** Idle 1935

Last reported production: 1941

**SOURCES OF DATA**

| Source Map | Date | Original Scale | Digitized Scale | Map Type |
|---|---|---|---|---|
| Company, 4103.S31 i5.1-6 | 10-9-1942 | 1:2400 | 1:2400 | Final |

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
Mine notes (St. Clair County) - Mine type, shaft location and size, seam, depth, thickness, geologic problems.
Company map, ISGS map library, 4103.S31 i5.1-6 - Shaft locations, mine outline, mining method.
Federal Land Bank Report - Depth, thickness.

**Mine Index 3486**
**Schubert Coal Company, Schubert No. 1 Mine**

Type: Underground  Total mined-out acreage shown: 155

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

| Type | County | Twp-Rge | Section | Quarters-Footage |
|---|---|---|---|---|
| Main shaft (5'x10') | St. Clair | 1N 6W | 32 | 650 FNL, 260 FWL |
| Air shaft | St. Clair | 1N 6W | 32 | NW NW NW |

**GEOLOGY**

| | | Thickness (ft) | | | Mining |
|---|---|---|---|---|---|
| Seam(s) Mined | Depth (ft) | Min | Max | Ave | Method |
| Herrin | 157-165 | 6.5 | 7.5 | 7.0 | MRP |

Geologic Problems Reported: Very few problems were reported from this mine. The roof was composed of limestone over much of the mine. Clod is present, which tends to come down with the coal. The extensions in the eastern part of the mine are labeled “caved”, indicating that the roof has come down.

**PRODUCTION HISTORY**

| Company | Mine Name | Years | Production (tons) |
|---|---|---|---|
| Mascoutah Coal Company | Mascoutah | pre1882-1884 | 17,635 * |
| James Beatty | Beatty | 1884-1905 | 74,363 |
| John Beatty Coal Company | Beatty | 1905-1927 | 83,268 ** |
| Schubert Coal Company | Schubert No. 1 | 1927-1956 *** | 688,862 |
| | | | 864,128 |

* Production and ownership prior to 1882 unknown. ISGS mine notes indicate the mine may have been active in the early 1870s. The Coal Report of 1882 indicates 5 acres mined.
** Production not reported in 1922 for mines producing less than 10,000 tons. Idle 1922-1927.
*** Abandoned mine re-opened

Last reported production: April 1956

**SOURCES OF DATA**

| Source Map | Date | Original Scale | Digitized Scale | Map Type |
|---|---|---|---|---|
| Microfilm, document 351162 | 7-23-1956 | 1:960 | 1:1589 | Final |

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
Mine notes (St. Clair County) - Mine type, shaft location, seam, depth, thickness, abandonment date.
Microfilm map, document 351162, reel 03134, frames 302-304 - Shaft locations, mine outline, mining method.

**Mine Index 3489**
**Missouri & Illinois Coal Company, Rentchler Mine**

Type: Underground  Total mined-out acreage shown: 235  An additional 12 acres were mined after the map date.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

| Type | County | Twp-Rge | Section | Quarters-Footage |
|---|---|---|---|---|
| Main shaft (7'x16') | St. Clair | 1N 7W | 33 | NW SE NE |
| Air shaft | St. Clair | 1N 7W | 33 | NW SE NW |

* Undated mine notes indicate the shaft was 7' by 16'.

**GEOLOGY**

| | | Thickness (ft) | | | Mining |
|---|---|---|---|---|---|
| Seam(s) Mined | Depth (ft) | Min | Max | Ave | Method |
| Herrin | 107 | | | 6.0-7.0 | MRP |

Geologic Problems Reported: The mine map shows areas in the southeast portion of the mine with "faulty coal", and areas where the coal was not present.

**PRODUCTION HISTORY**

| Company | Mine Name | Years | Production (tons) |
|---|---|---|---|
| J. Siberts | Siberts | 1888-1889 | 5,798 |
| Rentchler Coal Company | Rentchler | 1890-1893 * | 127,641 |
| Missouri & Illinois Coal Company | Rentchler | 1893-1916 ** | 1,014,298 |
| White-Sergent Coal Company | Rentchler | 1916-1919 | 177,571 |
| Missouri & Illinois Coal Company | Rentchler | 1919-1923 | 70,535 *** |
| | | | 1,395,843 |

* Idle 1889-1890
** Idle 1909, 1914, 1915
*** Production since map date

Last reported production: April 1923

**SOURCES OF DATA**

| Source Map | Date | Original Scale | Digitized Scale | Map Type |
|---|---|---|---|---|
| Microfilm, document 351093 | 7-14-1920 | 1:1800 | 1:3848 | Not final |

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
Mine notes (St. Clair County) - Mine type, seam, depth, thickness.
Microfilm map, document 351093, reel 03134, frames 205 - Shaft locations, mine outline, mining method, geologic problems.

**Mine Index 3490**
**Rentchler Fuel Company, Enterprise Mine**

Type: Underground  Total mined-out acreage shown: 128  Production indicates that an additional 13 acres were mined since the map date.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

| Type | County | Twp-Rge | Section | Quarters-Footage |
|---|---|---|---|---|
| Main shaft (5.5'x12') | St. Clair | 1N 7W | 34 | NE SW NW |
| Shaft | St. Clair | 1N 7W | 34 | SE SW NW |

**GEOLOGY**

| | | Thickness (ft) | | | Mining |
|---|---|---|---|---|---|
| Seam(s) Mined | Depth (ft) | Min | Max | Ave | Method |
| Herrin | 93-114 | | | 6.5-7.25 | MRP, some RPB |

Geologic Problems Reported: Gas was reported at this mine. Some coal balls were present in both the roof shale and the coal.

**PRODUCTION HISTORY**

| Company | Mine Name | Years | Production (tons) |
|---|---|---|---|
| Adam Ogden | Enterprise | pre1882-1889 | 81,010 * |
| Enterprise | Enterprise | 1889-1890 | 18,500 |
| William Ogden & Brother | Enterprise | 1890-1900 | 98,030 |
| Enterprise Mining Company | Enterprise, Ogden | 1900-1907 | 192,930 |
| Central Indiana Coal Mining Company | Enterprise | 1907-1910 | 78,359 |
| Gouch Coal & Mining Company | Enterprise | 1910-1916 ** | 75,976 |
| Enterprise Collieries Company *** | Enterprise No. 1 | 1916-1919 | 43,541 |
| L. & N. Coal Mining Company | Enterprise | 1919-1922 | 67,499 |
| Lou-Nash Coal & Mining Company | Enterprise | 1922-1929 | 36,693 |
| Piazza & Marfia Coal Company | Enterprise | 1930-1930 | 7,001 |
| Enterprise Coal & Mining Company | Enterprise | 1931-1931 | 8,959 |
| Piazza Coal Company | Enterprise | 1932-1932 | 12,550 |
| Rentchler Fuel Company | Enterprise | 1933-1936 | 80,591 |
| | | | 801,639 |

* Ownership and production prior to 1882 unknown. The Coal Report of 1882 indicates 12 acres mined.
** Idle 1914-1916
*** The mine notes indicate this mine was operated by Liberty Coal Company in 1917.
† Production since map date

Last reported production: 1936

**SOURCES OF DATA**

| Source Map | Date | Original Scale | Digitized Scale | Map Type |
|---|---|---|---|---|
| Microfilm, document 351092 | 1-8-1932 | 1:2400 | 1:4138 | Not final |

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation.
Mine notes (St. Clair County) - Mine type, shaft size, shaft location, seam, depth, thickness.
Microfilm map, document 351092, reel 03134, frame 204 - Shaft locations, mine outline, mining method.
Land Bank Report - Depth, thickness.

**Mine Index 3491**
**William J. Hippard Coal Company, Hippard No. 1 Mine**

Type: Underground  Total mined-out acreage shown: 111  Production indicates an additional 37 acres were mined since the map date.

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

| Type | County | Twp-Rge | Section | Quarters-Footage |
|---|---|---|---|---|
| Main shaft | St. Clair | 1N 7W | 35 | NW NE SW |
| Air shaft | St. Clair | 1N 7W | 35 | NW NE SW |

**GEOLOGY**

| Seam(s) Mined | Depth (ft) | Thickness (ft) Min | Max | Ave | Mining Method |
|---|---|---|---|---|---|
| Herrin | 90 | | | 6.0 | MRP |

Geologic Problems Reported:

**PRODUCTION HISTORY**

| Company | Mine Name | Years | Production (tons) |
|---|---|---|---|
| Beatty Coal Company | Shiloh Valley | 1903-1910 * | 68,488 |
| Silver Creek Valley Coal Company | Beatty, Silver Creek | 1910-1917 ** | 49,858 |
| Liberty Coal & Mining Company | Liberty | 1917-1923 *** | 456,094 |
| Liberty Coal & Mining Company | Liberty | 1923-1925 | 80,672 † |
| William J. Hippard Coal Company | Hippard No. 1 | 1925-1934 | 95,651 † |
| | | | 750,763 |

* Idle 1906, 1909, 1910
** Idle 1916, 1917
*** Idle second half of 1924 through first half of 1925
† Production since map date

Last reported production: 1934

**SOURCES OF DATA**

| Source Map | Date | Original Scale | Digitized Scale | Map Type |
|---|---|---|---|---|
| Microfilm, document 351106 | 1-25-1923 | 1:2400 | 1:3972 | Not final |

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
Directory of Illinois Coal Mines (St. Clair County) - Mine names, mine index, ownership, years of operation
Mine notes (St. Clair County) - Mine type, shaft location, seam, depth, thickness..
Microfilm map, document 351106, reel 03134, frames 222, 223 - Shaft locations, mine outline, mining method.

**OTHER MINES SHOWN ON THE MASCOUTAH QUADRANGLE**

Mine Index 4373 SE SE NE 34-T1N-R7W source: St. Clair County Atlas (1874)
Mine Index 4383 SW NE NE 36-T1N-R7W source: ISGS mined-out area map (1950)

## MINES WHOSE LOCATIONS ARE NOT KNOWN, MASCOUTAH 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 or near the Mascoutah 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), depth of coal in feet, and thickness of coal in feet.

The total tons mined by these unlocated mines is 181,318 (all underground), which would represent approximately 30 to 33 acres, depending on the recovery factor, mining method, and numerous other factors. The Coal Report of 1882 indicates an additional 47 acres were mined prior to 1882. (Note: 1 square mile = 640 acres)

**RENTCHLER**

| | |
|---|---|
| Rentchler (D. H.), pre1881-1883, shaft, Herrin, 110-120, 6.0-6.5 | 24,460 tons |
| Ogden (Adam), pre1881-1883, shaft, Herrin, 100, 6.0-6.5 | 7,000 tons |
| Dish (Philip), pre1881-1882, shaft, Herrin, 100, 6.0 | 5,000 tons |
| Dish (Frederick), 1882-1883 | 1,280 tons |
| | 6,280 tons |
| Crowson (William) & Sons, 1883-1888, shaft, Herrin, 110-120, 6.0, RP | 74,850 tons |
| Rentchler Mining Company, 1883-1884, shaft, Herrin, 114-120, 6.0-6.5, RP | 7,000 tons |
| Lloyd (Abraham) & Son, 1884-1890 | 61,728 tons |
| | 68,728 tons |

**INDEX OF MINES IN THE MASCOUTAH QUADRANGLE**

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