

Coal Mines in Illinois Shawneetown Quadrangle Gallatin County, Illinois

Herrin & Briar Hill Coals

This map accompanies the Coal Mines Directory for the Shawneetown Quadrangle and map of mines in the Springfield Coal with Davis/DeKoven & Gentry Coals, Shawneetown Quadrangle. Consult the directory for a complete explanation of the information shown on this map.

Mining Method

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

Source of Mine Outline

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

Tipple, Shaft, Slope, Drift Locations

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

Mine Annotation

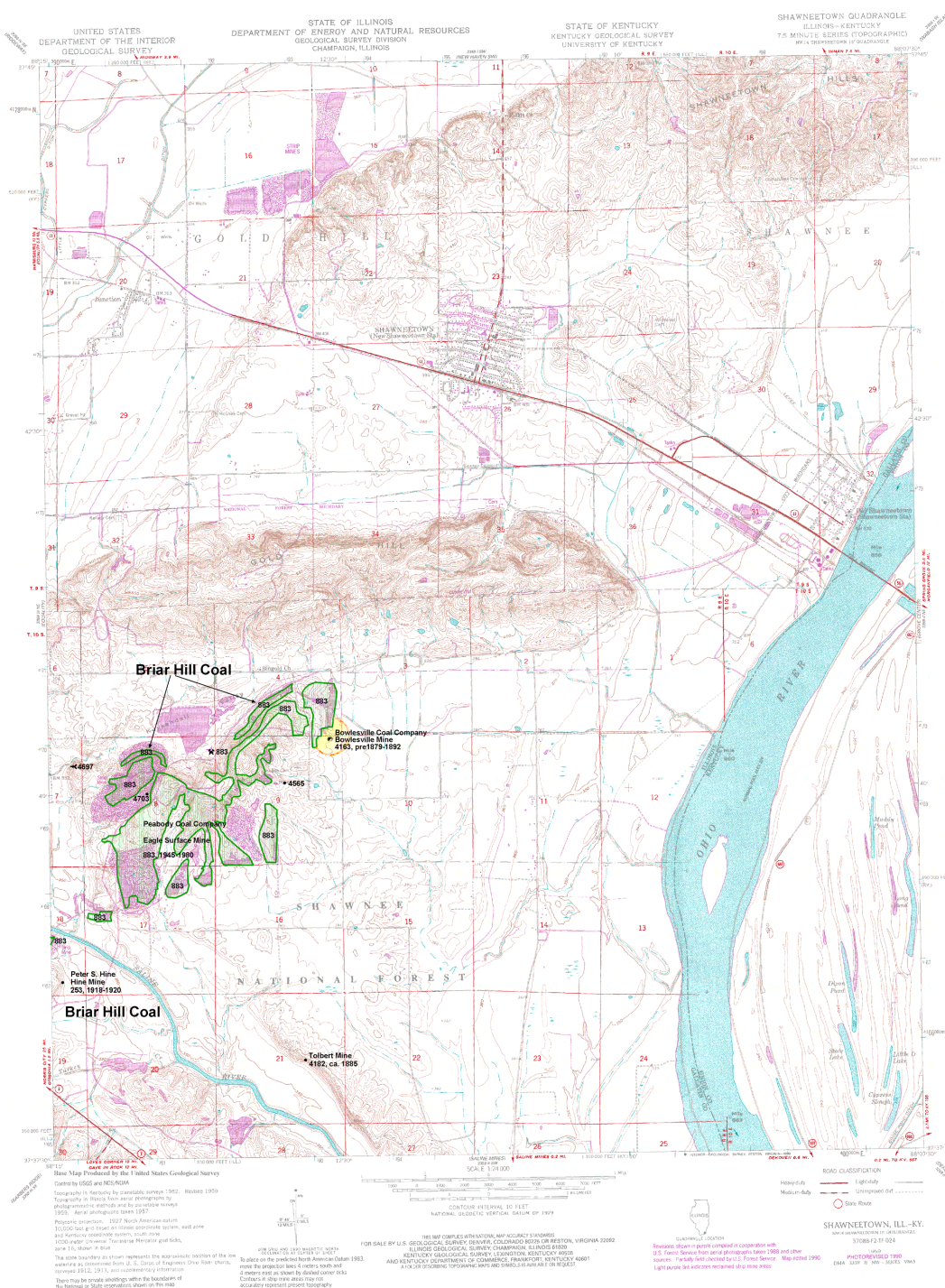
- (space permitting)
- Company
- Mine Name
- ISGS Index No., Years of Operation

DISCLAIMER

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 is contained in the directory that accompanies this map. 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 validity or the accuracy of these data.

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

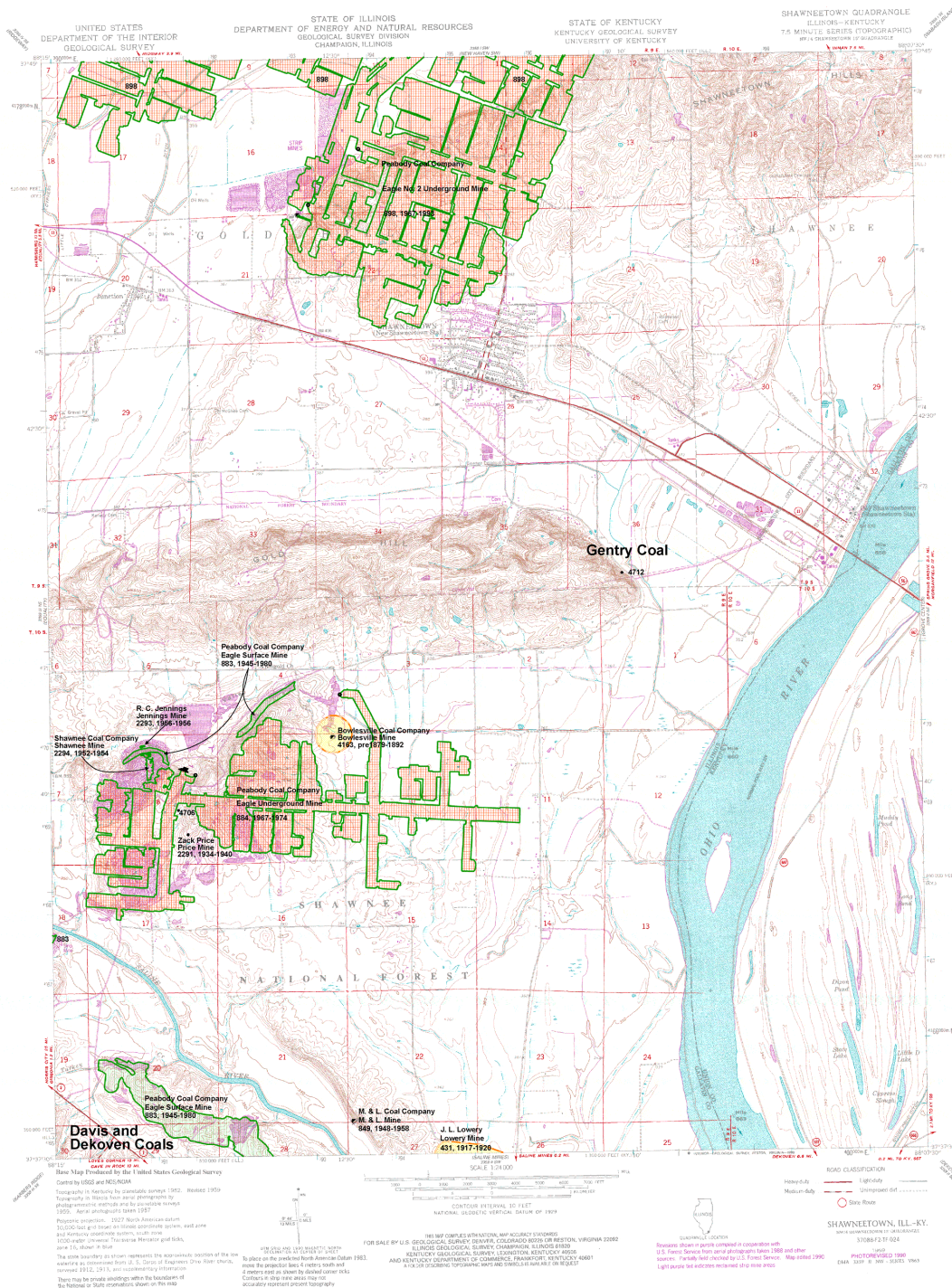
Location



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

Mine Outlines Compiled by
Jennifer M. Obrad

April 5, 2006



DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES SHAWNEETOWN QUADRANGLE GALLATIN COUNTY

Jennifer M. Obrad



Department of Natural Resources
ILLINOIS STATE GEOLOGICAL SURVEY
2006

**DIRECTORY OF COAL MINES IN ILLINOIS
7.5-MINUTE QUADRANGLE SERIES
SHAWNEETOWN QUADRANGLE
GALLATIN COUNTY**

2006

ILLINOIS STATE GEOLOGICAL SURVEY
William Shilts, Chief

Natural Resources Building
615 East Peabody Drive
Champaign, Illinois 61820

Phone 1-217-244-2420
Fax 1-217-333-2830

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) 244-2420.

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INTRODUCTION

Coal has been mined in 76 counties of Illinois. More than 4,500 coal mines have operated since commercial mining began in Illinois about 1810; fewer than 30 are currently active. To detail the extent and location of coal mining in Illinois, the Illinois State Geological Survey (ISGS) has compiled maps and directories of known coal mines. The ISGS offers maps at a scale of 1:100,000 and accompanying directories for each county in which coal mining is known to have occurred. Maps at a scale of 1:24,000 and accompanying directories, such as this, are available for selected quadrangles. Contact the ISGS for a list of these quadrangles.

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

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

MINING IN THE SHAWNEETOWN QUADRANGLE

The earliest mining in this area was said to have been at the Bowlesville Coal Company Mine (mine index 4163), some time before the Civil War. The latest mining was completed in 1993 at the Peabody Coal Company's Eagle No. 2 Underground Mine (mine index 898). Mining in this quadrangle took place mainly in the Herrin Coal and the Springfield Coal, but some mining was also done in the Briar Hill Coal and the Davis & Dekoven Coals, with another small mine said to have mined the Gentry Coal.

Mining has been influenced in this quadrangle by the Shawneetown and Wabash Valley Fault Zones, as well as the Fluorspar Fault Complex. These fault zones have hindered mining in much of this quadrangle by either making the coal too faulted to safely mine underground, or too deep to mine economically. Because of the presence of the Shawneetown Fault System, a number of publications have been produced that examine this area in detail. Two such publications with more information include *Availability of Coal Resources for mining in Illinois: Shawneetown Quadrangle, Gallatin County, Illinois and Union County Kentucky* (ISGS OFS1999-7) and *Geology and Mineral Resources of the Equality-Shawneetown Area: (Parts of Gallatin and Saline Counties)* (ISGS Bulletin 47).

PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET

INTERPRETING THE MAP

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

Mine Type and Mining Method

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

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

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

Room and Pillar - mining is divided into six categories:

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

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

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

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

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

SOURCE MAPS

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

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

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

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

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

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

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

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

POINTS AND LABELS

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

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

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



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

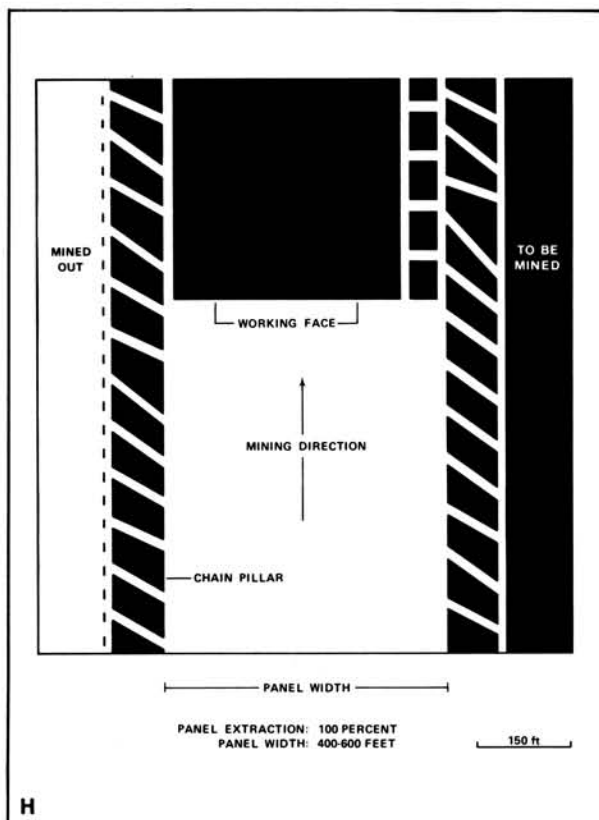
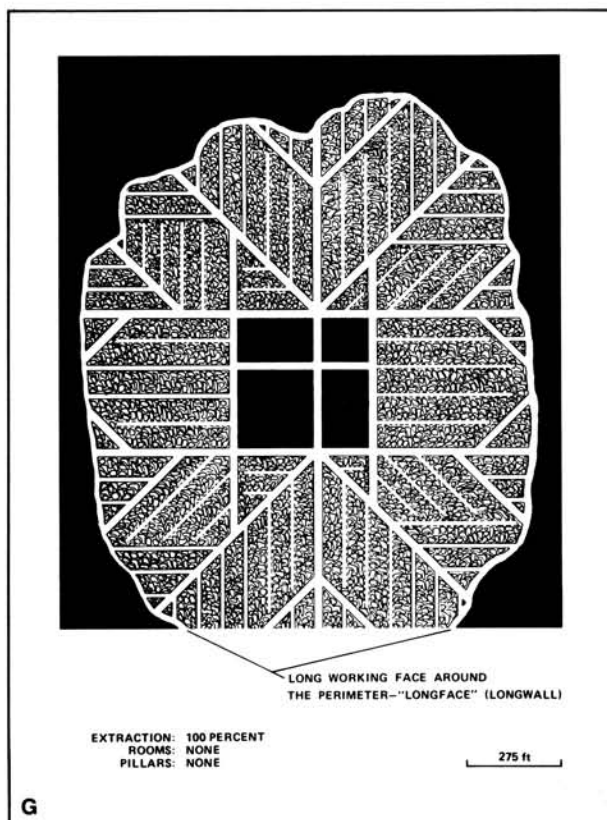
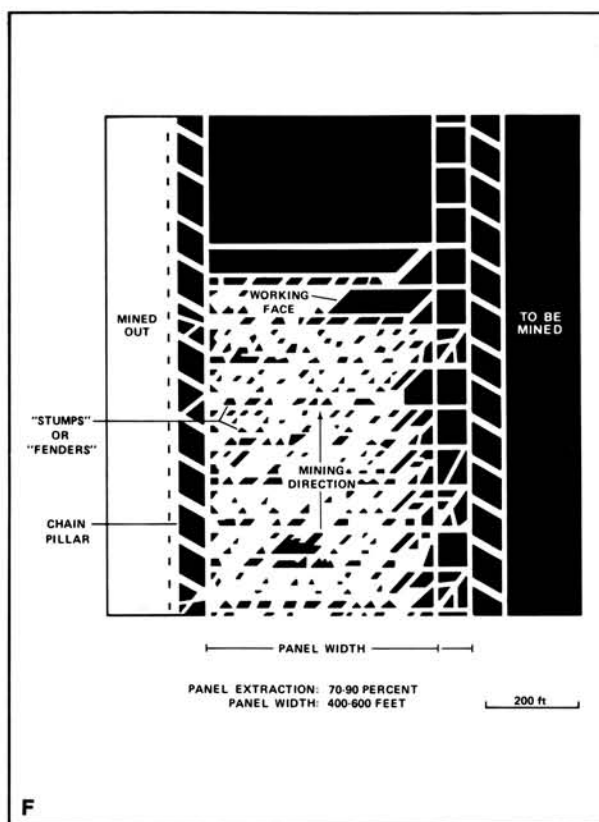
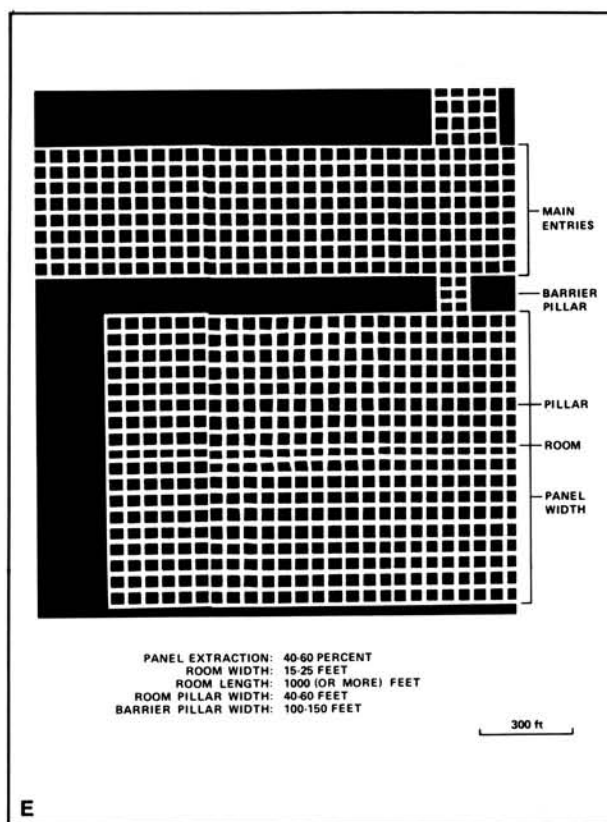


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall



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

INTERPRETING A MINE SUMMARY SHEET

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

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

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

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

SHAFT, SLOPE, DRIFT OR TIPPLE LOCATIONS

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

GEOLOGY

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

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

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

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

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

PRODUCTION HISTORY

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

SOURCE OF DATA

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

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

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

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

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

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

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

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

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

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

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

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

REFERENCES

Bauer, R. A., B. A. Trent, and P. B. Dumontelle, 1993, Mine Subsidence in Illinois: Facts for the Homeowner Considering Insurance, Illinois State Geological Survey, Environmental Geology Note 144, 16p.

Butts, Charles, 1925, Geology & Mineral Resources of the equality-Shawneetown Area, Illinois State Geological Survey, Bulletin 47, 79 p.

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

Nelson, W. J. and D. K. Lumm, Geology of Shawneetown Fault and Vicinity - Study performed for the U. S. Nuclear Regulatory Commission, Field Notes, Books 1 & 2, #918.

Treworgy, Colin G., and Daniel L. North, 1999, Availability of Coal Resources for Mining in Illinois, Shawneetown Quadrangle, Gallatin County, Illinois and Union County, Kentucky, Illinois State Geological Survey, Open File Series 1999-7, 35 p.

PART II DIRECTORY OF MINES IN THE SHAWNEETOWN QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Shawneetown Quadrangle is provided. The summary is arranged numerically by mine index number, which is shown on the map and in the mine listing. Consult Part I for a complete explanation of the data listed in the summary sheet.

Mine Index 253

Peter S. Hine, Hine Mine

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

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Gallatin	10S 9E	18	SW SE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Briar Hill				3.4	UG

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Peter S. Hine	Hine	1918-1920	48
			48

Last reported production: 1920

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin 47, Plate 1	1925	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Gallatin County) - Seam.

ISGS Bulletin 47, Geology & Mineral Resources of the Equality-Shawneetown Area - Mine location, seam, thickness.

Mine Index 255
William M. Strong, Strong Mine

Type: Underground Total mined-out acreage shown: None Production indicates approximately 2 acres were mined. This mine is not shown on the accompanying map because of later surface mining by the Eagle Surface Mine (mine index 883).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Gallatin	10S 9E	9	SE SW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	60			3.5-4.0	RP

Geologic Problems Reported: The coal was underlain by 2.5 feet of fire clay.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
William Shour	Shour	1906-1907	440
William Strong	Strong	1907-1909	1,480
J. P. Strong	Strong	1909-1910	150
William Strong	Strong	1910-1913	3,080
William Gepmer	Gepmer	1913-1914	175
Strong & Clark	Strong & Clark	1914-1915	640
Thomas. H. Clark	Clark	1915-1916	700
William M. Strong	Strong	1916-1920	<u>6,420</u>
			13,085

Last reported production: 1920

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin 47, Plate 1	1925	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mining method.
 Directory of Illinois Coal Mines (Gallatin County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Gallatin County) - Mine location, seam, thickness.
 ISGS field notes (Gallatin County) - Mine type, slope location, seam, thickness, geologic problems.
 ISGS Bulletin 47, Geology & Mineral Resources of the Equality-Shawneetown Area - Slope location, seam, thickness.

Mine Index 431

J. L. Lowery, Lowry Mine

Type: Underground Total mined-out acreage shown: 289 The outline shown is a general area of mining that includes other mines. One of these mines operated about 1850, and ownership and production are unknown. Production for the Lowery Mine indicates approximately 2 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Gallatin	10S 9E	27	NE SE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield				5.0	RPP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Strong & Lowery	Strong & Lowery	1917-1918	612
J. L. Lowery *	Lowery	1918-1920	<u>8,587</u> 9,199

* Coal Section mine notes indicate this mine may have been known as Saline Coal Company. The 1950 mined out area map used for the outline of the general area mining also had some text indicating a Saline River Mine, circa 1850, operated in this area.

Last reported production: 1920

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mined-out area map, Area 32	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 (Gallatin County) - Mine names, mine index, ownership, years of operation.

ENR Document 85/01 - Mining method.

Mine notes (Gallatin County) - Mine location, seam.

ISGS mined-out area map, Area 32 - Mine outline.

Mine Index 849**M. & L. Coal Company, M. & L. Mine**

Type: Underground Total mined-out acreage shown: None Production indicates approximately 5 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope *	Gallatin	10S 9E	22	SW SW SW

* The Coal Section mine notes indicate the air shaft was located halfway up the hill.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	38			4.67-5.0	UG

Geologic Problems Reported: Numerous coal balls were encountered and caused such difficulty that they contributed to the abandonment of the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Ross Glover	Glover	1948-1955 **	50
B. & W. Coal Company ***	B. & W. No. 2	1956-1956	410
Ohio Valley Coal Company	Ohio Valley No. 1	1956-1956	300
M. & L. Coal Company	M. & L.	1956-1958	<u>21,953</u>
			22,713

** Idle 1949-1955

*** Operated by Lawrence Boutwell

Last reported production: February 1958

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
USGS topographic map	PR 1990	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 (Gallatin County) - Mine names, mine index, ownership, years of operation.

Mine notes (Gallatin County) - Mine type, slope & air shaft locations, seam, depth, thickness, geologic problems.

USGS topographic map, Shawneetown Quadrangle, 1959, photorevised 1990 - Slope location.

Field Notes, Geology of Shawneetown & Vicinity, pages 122-123 - Mine location, ownership.

Mine Index 883**Peabody Coal Company, Eagle Surface Mine**

Type: Surface Total mined-out acreage shown: 1,336 This area encompasses several other small mines. Some were small underground mines whose pillars were retrieved by the Eagle Mine, some were small surface mines whose outlines are no longer relevant, and there is some evidence that a previously auger-mined area was surface-mined by the Eagle Mine.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Gallatin	10S 9E	8	NE NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	6-80			3.0-4.67	Surface
Briar Hill				2.5	Surface
Springfield	20-40			4.5	Surface
Dekoven				3.17	Surface
Davis				3.17	Surface

Geologic Problems Reported: This mine uncovered traces of several faults of the Shawneetown Fault Zone. Many thrust faults and some normal faults were seen. In one case, the Herrin Coal was triplicated in the section caused by large-scale thrusting. The south side of one thrust fault was up-thrown about 10 feet. The faulting caused displaced coal and made the coal elevation pitch and roll steeply, and caused instability of the highwall. In some pits, the Pleistocene material directly overlay the Herrin Coal and appeared to have cut down into the coal in some spots. The overburden over the Herrin Coal consisted of black Anna Shale (sometimes pods or not present at all), a thin layer (from a few inches thick up to 3 or 4 feet) of Brereton Limestone, gray Lawson Shale (from 2 to 15 feet thick), and Anvil Rock Sandstone. In some places the Anvil Rock Sandstone was present as a channel fill about 1,000 feet wide that had eroded down to within a few inches of the coal, and up to 50 feet thick in the channel phase. In two pits, coal balls were commonly associated with the Herrin Coal. In one pit, the coal balls were pyritic and weathered easily to a brown powdery material in the spoil pile. A few thin pyrite lenses were also present in the coal, as well as calcite and pyrite on cleat faces. At least one clay dike was seen in the Briar Hill Coal. The Dekoven Coal was overlain by 35 to 40 feet of hard gray silty shale with numerous thin beds of sandstone in the upper part.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Equality Coal Company	Equality	1945-1945	8,663
Idle		1946-1965	
Peabody Coal Company	Eagle Surface	1966-1980	<u>6,475,653</u>
			6,484,316

Last reported production: May 1980

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 10-6-12	7-18-1983	1:12000	1:12000	Final
Company, 4103.G3 i5.1-13	1-1-1979	1:12000	1:12000	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Gallatin County) - Mine type, mine location, seam, depth, thickness, geologic problems.

Company map, ISGS Coal Section files, 10-6-12 - Mine outline, mining method.

Company map, ISGS map library, 4103.G3 i5.1-13 - Tipple location.

Mine Index 884
Peabody Coal Company, Eagle Underground Mine

Type: Underground Total mined-out acreage shown: 1,096

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Gallatin	10S 9E	8	NE SW NE
Drift	Gallatin	10S 9E	8	NE SW NE
Drift	Gallatin	10S 9E	8	NE SW NE
Drift	Gallatin	10S 9E	8	NE SW NE
Air shaft	Gallatin	10S 9E	8	NW SE NE
Air shaft	Gallatin	10S 9E	4	SE NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	40			4.5	BRP

Geologic Problems Reported: A north-south trending fault was encountered at several places in this mine. The vertical displacement of the top of the coal was 6 feet. Gas was noted in the eastern part of the mine, and water was found throughout, often accompanied by bad top. Squeezes were also noted in the southwest part of the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Peabody Coal Company	Eagle Underground	1967-1974	<u>5,131,198</u> 5,131,198

Last reported production: February 1974

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 326827	3-12-1975	1:1200	1:1200	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Gallatin County) - Mine names, mine index, ownership, years of operation.
 ENR Document 85/01 - Mining method.
 Mine notes (Gallatin County) - Seam, geologic problems.
 Microfilm map, document 326827, reel 03074, frames 359-362 - Drift & air shaft locations, mine outline, mining method, geologic problems.

Mine Index 898
Peabody Coal Company, Eagle No. 2 Underground Mine

Type: Underground Total mined-out acreage shown: 5,658

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Gallatin	9S 9E	21	NW NE NE
Air shaft	Gallatin	9S 9E	4	SE NE SE
Air shaft	Gallatin	9S 9E	15	NW NE SW
Air shaft	Gallatin	9S 9E	16	SE SE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	180-400	3.5	5.6	4.5-5.5	BRP

Geologic Problems Reported: Faults of the Wabash Valley Fault Zone, some with large displacements, were present throughout the mine. One major fault trending NNE had 80 to 90 feet of displacement. Bad top was reported along the fault line. Roof falls occurred, with the longest leg of each in the north-south direction. Some falls were as much as 40 feet high. Coal balls were found in the black shale above the coal. The coal had occasional shale lenses and pyrite nodules. Calcite was abundant on the cleats in the coal, while pyrite often formed "goat beards" near the middle of the seam.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Peabody Coal Company	Gold Hill No. 90	1967-1968	not reported
Peabody Coal Company	Eagle No. 2 Underground	1969-1993	<u>27,883,858</u> 27,883,858

Last reported production: 1993

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company	3-29-1994	1:12000	1:12000	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Gallatin County) - Mine names, mine index, ownership, years of operation.
 ENR Document 85/01 - Mining method.
 Mine notes (Gallatin County) - Mine type, seam, depth, thickness, geological problems.
 Company map, Coal Section files - Slope & shaft locations, mine outline, mining method.

Mine Index 2291
Zack Price, Price Mine

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

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Gallatin	10S 9E	8	NW SE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield					UG

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Robert Payne	Payne	1934-1940	1,361
Zack Price	Price	1940-1940	48
			1,409

Last reported production: 1940

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS mined-out area map, Area 32	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 (Gallatin County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Gallatin County) - Mine location.
 ISGS mined-out area map, Area 32 - Shaft location, seam.

Mine Index 2293
R. C. Jennings, Jennings 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	Gallatin	10S 9E	8	NE NE NW

GEOLOGY

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

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
R. C. Jennings	Jennings	1956-1956	<u>1,197</u> 1,197

Last reported production: April 1956

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351543	4-25-1956	1:1200	1:1200	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Gallatin County) - Mine names, mine index, ownership, years of operation.
 Microfilm map, document 351543, reel 03136, frame 308 - Pit location, mine outline, mining method.

Mine Index 2294
Shawnee Coal Company, Shawnee Mine

Type: Underground Total mined-out acreage shown: 5 This mine was later partially surface mined by Eagle Surface Mine (mine index 883). This surface mined area includes the slope and air shaft, which are not shown on the accompanying map.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Gallatin	10S 9E	8	NE NE NW
Air shaft	Gallatin	10S 9E	8	NE NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield					MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Pickford Coal Company	Pickford No. 4	1952-1952	1,773
Shawnee Coal Company	Shawnee	1952-1954	<u>25,832</u>
			27,605

Last reported production: May 1954

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351539	4-2-1954	1:1200	1:1490	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Gallatin County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Gallatin County) - Mine type, slope location, seam.
 Microfilm map, document 351539, reel 03136, frame 304 - Slope & shaft locations, mine outline, mining method.

Mine Index 4163**Bowlesville Coal Company, Bowlesville Mine**

Type: Underground Total mined-out acreage shown: 41 as general area of mining. Production indicates only a total of 17 acres were mined. Since mining occurred in two seams, the actual aerial extent of mining is unknown.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft (8'x36') *	Gallatin	10S 9E	9	NE NE NE

* The shaft was compartmentalized and contained the hoist shaft, air shaft, and piping for a pump.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	60			3.0	UG
Springfield	181			5.0	UG

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Bowlesville Mining Company **	Bowlesville	pre1879-1883	30,000 ***
Bowlesville Coal Company	Bowlesville	1887-1892	<u>27,372</u>
			57,372

* This mine may have also operated as the Western Mining Company. This company was begun by Joseph Bowles, in what was to become Bowlesville, along with Thomas Logsdon and Dr. Tolbert. Because of its proximity, this mine competed with Kentucky mines until the Civil War, when it began to make a profit. With the closing of the Union Naval yards, demand decreased, and the mine eventually closed.

** Production before July 1882 is unknown. The 1882 Coal Report indicated 15 acres had been mined.

Last reported production: 1892

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 326827	3-12-1975	1:1200	1:1200	Secondary source

Annotated Bibliography (data source, brief description of information)

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

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

Mine notes (Gallatin County) - Mine location.

Coal Mining & Processing magazine, September 1969, pages 44-46 - Mine type, shaft size, seam.

History & Families of Gallatin County, Illinois, page 9 - Ownership.

Microfilm map, document 326827, reel 03074, frames 359-362, map of Eagle Underground Mine (mine index 884) - Shaft location, general area of mining.

Mine Index 4182
Tolbert, Tolbert Mine

Type: Underground Total mined-out acreage shown: None

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Gallatin	10S 9E	21	SE SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin					UG

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Tolbert	Tolbert	about 1885	

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (J. M. Weller)	1926	(text only)	1:24000 *	Secondary source
USGS topographic map	1946	1:62500	1:62500 *	Secondary source

* The general mine location was described in the field notes and plotted on the 1946 USGS topographic map, as this was the only topographic map which showed the features described in the field notes.

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Gallatin County) - Mine names, mine index, ownership, years of operation.
 ISGS field notes (Gallatin County) - Mine location, seam.
 USGS 15-minute topographic map, Shawneetown Quadrangle, 1946 - Mine location.

Mine Index 4684
Mathis Brothers Coal Company

Type: Surface Total mined-out acreage shown: Less than 1 acre Not shown on accompanying map because of later surface mining by Eagle Surface Mine (mine index 883).

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Gallatin	10S 9E	8	

GEOLOGY

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

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Mathis Brothers Coal Company	Mathis	1956-1956	<u>3,642</u> 3,642

Last reported production: April 1956

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351547	4-15-1956	1:1200	1:1200	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Gallatin County) - Mine names, mine index, ownership, years of operation.
 Microfilm map, document 351547, reel 03136, frame 315 - Pit location, mine outline, mining method.

OTHER MINES SHOWN ON THE SHAWNEETOWN QUADRANGLE

Mine Index 4562 * SE SW SE 4-T10S-R9E, Herrin Coal source: ISGS 1950 mined-out area map, area 32
 Mine Index 4563 * NE SW SE 4-T10S-R9E, Herrin Coal source: ISGS 1950 mined-out area map, area 32
 Mine Index 4565 NW SW NE 9-T10S-R9E, Herrin Coal source: ISGS 1950 mined-out area map, area 32
 Mine Index 4697 SE NE NE 7-T10S-R9E, Herrin Coal, drift source: ISGS map library 4102 a-7 sheet 3
 Mine Index 4703, Dukes Mine SE SE NW 8-T10S-R9E, Herrin Coal source: ISGS Bulletin 47, Plate 1 (1925)
 Mine Index 4706 NE NW SE 8-T10S-R9E, Springfield Coal source: ISGS field notes (Wallace Lee, 1915)
 Mine Index 4712 SE SE SW 36-T9S-R9E, Gentry Coal source: ISGS map library, 4102 a-7 sheet 3, ISGS field notes (W. J. Nelson, 1983)

* Not shown on accompanying map because of later surface mining by Eagle Surface Mine (mine index 883).

MINES WHOSE LOCATIONS ARE NOT KNOWN, SHAWNEETOWN QUADRANGLE

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

The total tons mined by these unlocated mines is 129,944 (107,228 underground and 22,716 by uncertain method), which would represent approximately 24 to 40 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

BOWLESVILLE

Neivels & Strong, 1895-1897, drift, Herrin, 25-30, 4.5-4.83, RP	1,800 tons
Strong & Talbut, 1897-1898	675 tons
Strong (J. D.), 1898-1899	<u>1,200 tons</u>
	3,675 tons

JUNCTION

Sisk (Jack, Jr.), 1927-1931, underground	4,425 tons	mine index 2267
L. & W. Coal Company, 1949-1950, underground	481 tons	mine index 4176
Dempsey (J. E.), 1911-1912, slope, —, 18, 4.33, RP	1,660 tons	
Chinn (W. R.), 1912-1921	<u>27,650 tons</u>	
	29,310 tons	
Siddons (Lee), 1915-1917, slope, Springfield, 30, 5.0-5.5, RP	1,515 tons	
Elliott Brothers, 1916-1917, slope, Springfield, 25, 4.5, RP	150 tons	
Jones & Martin, 1916-1917, slope, Springfield, 20, 5.0, RP	420 tons	
Jones (Sam), 1917-1918	780 tons	
Wallace, Martin & Jones, 1918-1919	800 tons	
Wallace & Martin, 1919-1923	780 tons	
Martin & Jones, 1923-1924	425 tons	
Wallace & Martin, 1924-1927	1,880 tons	
Martin (J. C.), 1928-1928	<u>650 tons</u>	
Idle 1922, 1923, 1927	5,735 tons	
Dobbs (S. D.), 1917-1918	512 tons	

Boatright (H.) & Tite (B.), 1922-1923, underground	100 tons
Tite & Leavell, 1923-1924	190 tons
Tite (Ed), 1924-1929	<u>1,947</u> tons
	2,237 tons

Dobbs & Willshire, 1923-1924	90 tons
Dodd (E. H.), 1924-1925	<u>375</u> tons
	465 tons

Potter (Luther), 1923-1926, underground	515 tons
Potter (George), 1927-1928	<u>92</u> tons
	607 tons

Bostnagle (John & Henry), 1923-1924	194 tons
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Black (Isaac), 1934-1935, underground	243 tons
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Barnett & Beeler, 1940-1940, underground	134 tons
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KEDRON

Brinkley (John S.), 1889-1893, drift, Herrin, 40, 3.67-4.0, RP	720 tons
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Boston (Henry), 1910-1911, slope, Herrin, —, 4.0, RP	84 tons
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SALINE MINES

Reid (J. L.), 1906-1907, slope, Herrin, 20-80, 4.0-5.0, RP	48 tons	mine index 2289
Hewitt (A. J.), 1907-1908	340 tons	
Reid & Brice, 1908-1912	<u>2,860</u> tons	
	3,248 tons	

Saline Mine, 1887-1888	2,512 tons
------------------------	------------

Reid (Andrew), 1889-1898, drift, Herrin, 25-30, 3.67-4.83, RP	4,110 tons
Reid (Robert) Coal Company, No. 07 Mine, 1898-1901	<u>894</u> tons
	5,004 tons

Reid (Robert) Coal Company, No. 09 Mine, 1899-1901, drift, Herrin, 30, 4.5	934 tons
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Reid (Robert) Coal Company, No. 11 Mine, 1899-1901, drift, Herrin, 30, 4.5	1,094 tons
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Strong & Wood, 1901-1902, slope, Herrin, 30, 4.5, RP	954 tons
Strong & Company, 1902-1903	800 tons
Strong & Wood, 1903-1904	1,000 tons
Strong (J. P.), 1904-1905	<u>1,200</u> tons
	3,954 tons

Smith (A. J.), 1901-1903, slope, Herrin, 30, 4.5, RP	900 tons
--	----------

Mitchell (Robert), 1923-1924	2,960 tons
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Brazier & Son, 1926-1926, underground	160 tons
Hina & Young, 1927-1927	67 tons
Hina (Henry), 1928-1929	<u>4,400</u> tons
	4,627 tons

Logsdon (John) & Son, 1926-1928, underground	250 tons
Evans (A. S.), Logsdon & Vickery, 1929-1929	<u>190</u> tons
	440 tons

Wallace (Harry), 1926-1926	90 tons
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Big Hill Coal Company, 1934-1935, underground

278 tons

SHAWNEETOWN

Abraham (David), 1887-1892, drift, Herrin, 30-50, 3.5-4.83, RP
Vogt (Leon), 1892-1904
Idle 1892

5,880 tons
10,955 tons
16,835 tons

Carney (Mike), 1898-1902, drift, Herrin, 35-80, 4.5, RP
Mitchell (R. J.), 1902-1903
Corney (M.), 1903-1905

7,110 tons
750 tons
2,400 tons
10,260 tons

Evans (A. E.), 1905-1906, slope/drift, Herrin, 30-80, 3.83-4.0, RP
Mitchell (R. J.), 1906-1913
McCabe (E. P.), 1913-1916

120 tons
5,140 tons
3,000 tons
8,260 tons

McCabe (E. P.), 1920-1921

800 tons

McCabe (A. F.), 1923-1924

2,600 tons

Harris Brothers, 1922-1923

640 tons

Ringgold Coal Company, 1924-1925
Houston & Strong, 1925-1925
Wren & Beeler, 1926-1926
Beeler (Louis), 1927-1927

3,847 tons
2,233 tons
1,410 tons
3,669 tons
11,159 tons

Cremins & Barlow, 1923-1924

40 tons

Roker & Potts, 1923-1924

300 tons

Wren (J. & J.), 1923-1924

34 tons

Koker & Williams, 1927-1927

500 tons

Evans (A. S.) & Moore (P.), 1928-1928, underground

472 tons

Kaufman, Breivard & Cunningham, 1928-1928, underground

20 tons

Duncan Brothers, 1929-1929, underground

1,496 tons

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