

# Coal Mines in Illinois Murphysboro Quadrangle Jackson County, Illinois

## Herrin Coal & Delwood Coal

This map accompanies the Coal Mines Directory for the Murphysboro Quadrangle and maps of mines in the Murphysboro Coal and Springfield Coal. 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 permitting)

Company  
Mine Name  
ISGS Index No., Years of Operation

### Disclaimer

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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.

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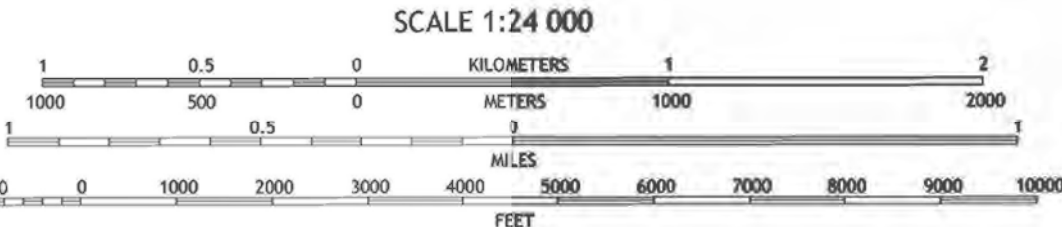
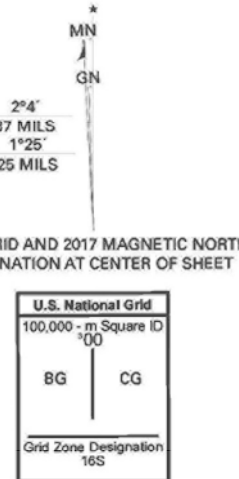
Mine Outlines Compiled by  
Jennifer M. Obrad

Revised:  
Alan R. Myers 06-02-2025

July 22, 2008

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Roads.....U.S. Census Bureau, 2017  
Names.....GNIS, 1980 - 2017  
Hydrography.....National Hydrography Dataset, 2002 - 2015  
Contours.....National Elevation Dataset, 1999 - 2009  
Boundaries.....see metadata file 2014 - 2016  
Public Land Survey System.....BLM, 2017  
Wetlands.....FWS National Wetlands Inventory 1981 - 1982



COLOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
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2018



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Company  
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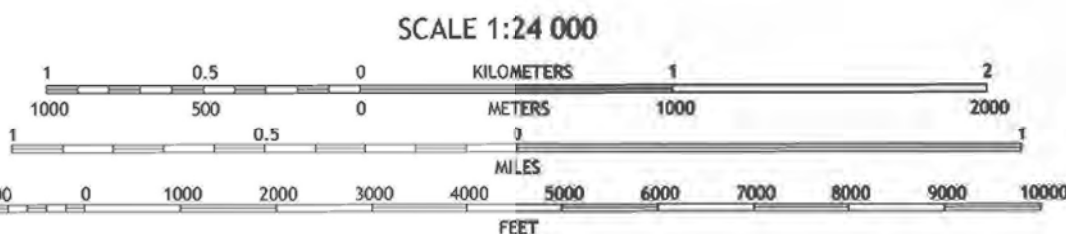
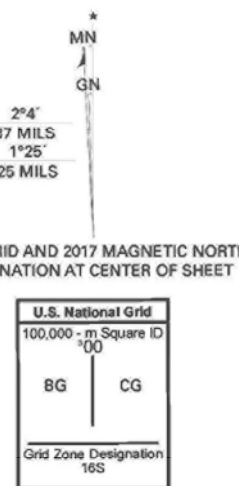
Mine Outlines Compiled by  
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Revised:  
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Boundaries.....Multiple sources; see metadata file 2014 - 2016  
Public Land Survey System.....BLM, 2017  
Wetlands.....FWS National Wetlands Inventory 1981 - 1982



1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

1 Aves  
2 Vergennes  
3 Elkhartville  
4 Knoxville  
5 De Soto  
6 Gorham  
7 Pennono  
8 Carbondale



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2018



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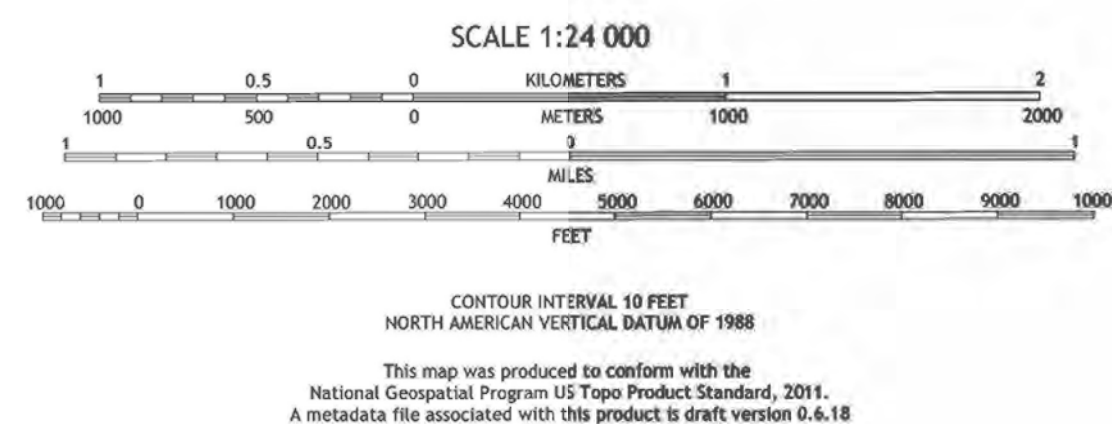
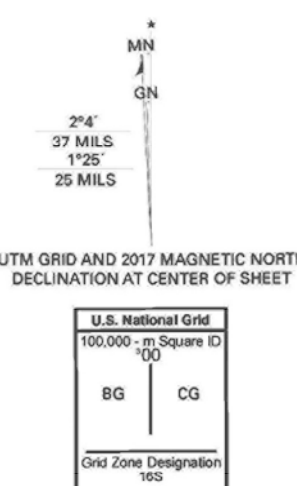
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Contours.....National Elevation Dataset, 1999 - 2009  
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# **DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES MURPHYSBORO QUADRANGLE JACKSON COUNTY**

Jennifer M. Obrad



Institute of Natural Resources Sustainability  
ILLINOIS STATE GEOLOGICAL SURVEY  
2008  
Revised 2025







# **DIRECTORY OF COAL MINES IN ILLINOIS**

## **7.5-MINUTE QUADRANGLE SERIES**

### **MURPHYSBORO QUADRANGLE**

### **JACKSON COUNTY**

2008  
Revised 2025

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

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

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

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## CONTENTS

INTRODUCTION .....	1
MINING IN THE MURPHYSBORO QUADRANGLE .....	1
PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET .....	2
INTERPRETING THE MAP .....	2
Mine Type and Mining Method .....	2
SOURCE MAPS .....	3
POINTS AND LABELS .....	3
INTERPRETING A MINE SUMMARY SHEET .....	6
REFERENCES .....	8
PART II DIRECTORY OF MINES IN THE MURPHYSBORO QUADRANGLE .....	9
MINE SUMMARY SHEETS .....	9
Mine Index 12	
Western United Gas Coal Company, Big Muddy No. 2 Mine .....	9
Mine Index 13	
Consolidated Coal Company, Big Muddy No. 9 Mine .....	10
Mine Index 14	
Gartside Coal Company, Gartside No. 4 Mine .....	11
Mine Index 15	
Big Muddy Coal & Iron Company, Harrison Mine .....	12
Mine Index 16	
Consolidated Coal Company, Big Muddy No. 10 Mine .....	13
Mine Index 266	
Gartside Coal Company, Gartside No. 3 Mine .....	15
Mine Index 606	
Truax Traer Coal Company, Burning Star Underground Mine .....	16
Mine Index 684	
Truax Traer Coal Company, Burning Star Surface Mine .....	17
Mine Index 1020	
Illini Energy Resources, Razorback I Mine .....	18
Mine Index 2278	
Gus Blair, Big Muddy No. 3 Mine .....	19
Mine Index 2445	
Dewey Craig Coal Company, Craig Mine .....	20
Mine Index 2490	
St. Louis Ore & Steel Company, St. Louis Ore & Steel Mine .....	21
Mine Index 2491	
Fabco, Inc., Fabco Mine .....	23
Mine Index 2493	
Big Muddy Coal & Iron Company, Big Muddy No. 6 Mine .....	24
Mine Index 2494	
Frank Schmidgall, Schmidgall Mine .....	25
Mine Index 2504	
G. A. Replogle & Son, Replogle Mine .....	26
Mine Index 4245	
Crow Mine .....	27
Mine Index 4617	
Jackson County Coal Company, Jackson County Mine .....	28
Mine Index 7163	
Big Muddy Coal & Iron Company, Big Muddy No. 4 Mine .....	29
Mine Index 7164	
Big Muddy Coal & Iron Company, Big Muddy No. 5 Mine .....	30
Mine Index 7166	
Wild & Gill, Willis Mine .....	31
Mine Index 7168	
J. Harvey & Sons, Harvey Mine .....	32



Mine Index 7169	
William Boon, Boon Mine . . . . .	33
Mine Index 7811	
Central Mining Company, Burning Star No. 1 Mine . . . . .	34
OTHER MINES SHOWN ON MURPHYSBORO QUADRANGLE . . . . .	35
Mine Index 4618 . . . . .	35
Mine Index 7167 . . . . .	35
Mine Index 7730 . . . . .	35
NON-COAL MINES IN THE MURPHYSBORO QUADRANGLE . . . . .	35
Murphysboro Paving Brick Company, Shale Mine . . . . .	35
MINES WHOSE LOCATIONS ARE NOT KNOWN, MURPHYSBORO QUADRANGLE . . . . .	36
INDEX OF MINES IN THE MURPHYSBORO QUADRANGLE . . . . .	38



## **INTRODUCTION**

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

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

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

## **MINING IN THE MURPHYSBORO QUADRANGLE**

The Murphysboro Quadrangle is the site of the oldest commercial mining in Illinois, the Boon Mine (mine index 7169), which mined coal along the Big Muddy River and rafted it down to New Orleans in seven trips between 1810 and 1812. Other early mines operated here, such as the Jackson County Coal Company mine (mine index 4617), which operated between 1822 and 1865, and the Mt. Carbon Coal Company (mine index 2490), which operated from 1840 to 1850. These mines relied on spring and summer high water on the Big Muddy River to ship their coal, and production was relatively low until more modern railroads were constructed in the 1860s. By 1876, Gartside No. 1 through No. 4 Mine (mine index 14 and 266), the Lewis Mine (mine index 16), and the Mt. Carbon area (Grand Tower Mine, mine index 2490) were all highly productive.

Most of the mining in the Murphysboro Quadrangle was from the Murphysboro Coal. The seam was 6.0 to 7.0 feet thick on the south side of the Big Muddy River, but poor roof conditions prevented extending the mines further eastward. Partings were present in the seam over much of the area, and in some areas on the north side of the Big Muddy River, the partings precluded mining the entire seam. The mines that had particular difficulty with this aspect were the Big Muddy No. 2 Mine (mine index 12 in 32-T8S-R2W) and Big Muddy No. 10 Mine (mine index 16 in 20 & 29-T8S-R2W). The coal was present in two or three benches with the parting increasing to 14 feet, so that only one bench could be mined. In one area, a middle bench had a large amount of bone coal, which separated the good upper bench from the good lower bench of coal. This may have prevented westward expansion of the mines. Poor roof conditions were also present in some mines north of the Big Muddy River so that the upper bench or part of the upper bench was left to protect the roof.

In the northeastern portion of the quadrangle, the Herrin Coal was over 6 feet thick and minable by surface or underground methods.



## PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET

### INTERPRETING THE MAP

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

#### Mine Type and Mining Method

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

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

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

**Room and Pillar** - mining is divided into six categories:

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

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

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

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

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



## SOURCE MAPS

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

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

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

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

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

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

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

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

## POINTS AND LABELS

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

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

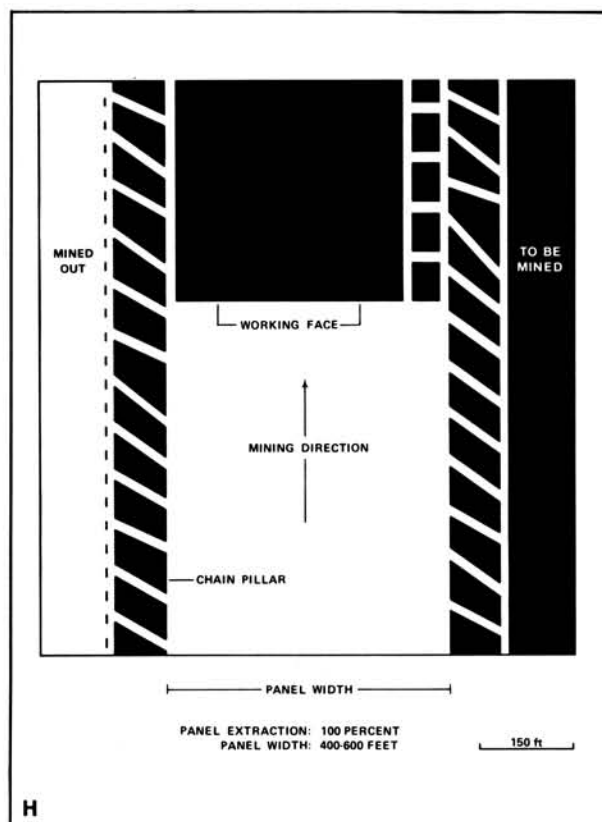
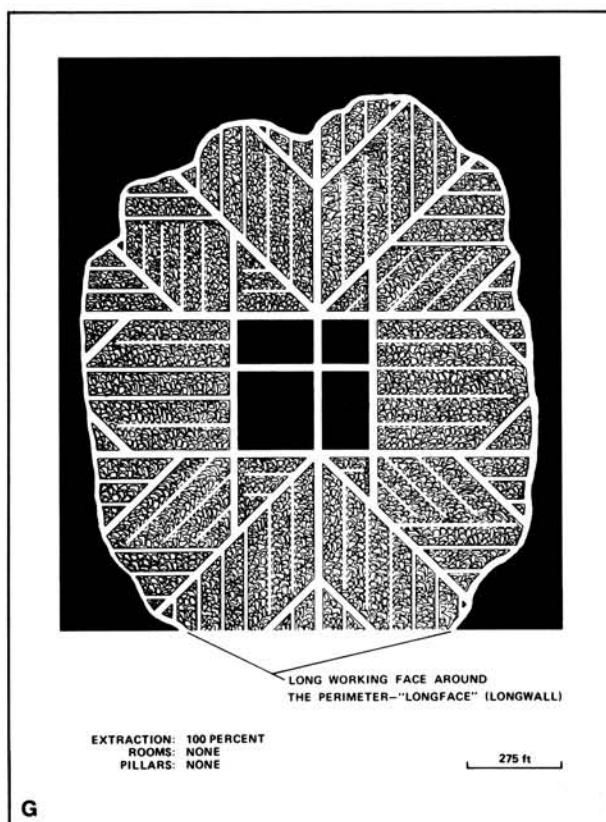
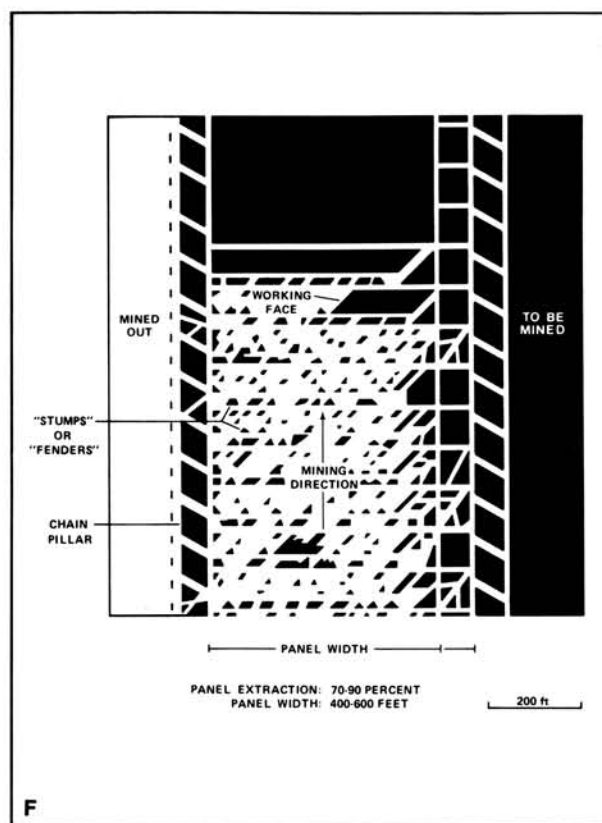
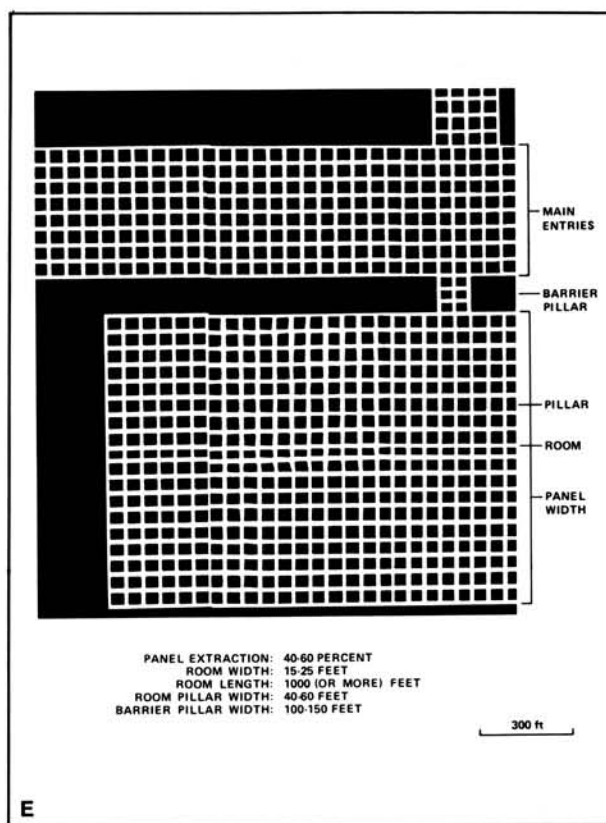
Each mine on the map is labeled with the names of the mine and operating company, ISGS mine index number, and years of operation (if known) if space permits. A seam designation is given on maps where more than one seam was mined. For a mine that operated under more than one name, only the most recent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





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





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





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

## INTERPRETING A MINE SUMMARY SHEET

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

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

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

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

## SHAFT, SLOPE, DRIFT OR TIPPLE LOCATIONS

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

## GEOLOGY

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

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



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

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

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

## PRODUCTION HISTORY

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

## SOURCE OF DATA

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

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

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

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

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

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

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

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

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

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



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

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

## **REFERENCES**

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

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

Lamar, J. E., 1925, Geology and Mineral Resources of the Carbondale Quadrangle, Illinois State Geological Survey, Bulletin 48, 172p.



## PART II DIRECTORY OF MINES IN THE MURPHYSBORO QUADRANGLE

### MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Murphysboro 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 12

#### Western United Gas Coal Company, Big Muddy No. 2 Mine

Type: Underground Total mined-out acreage shown: 202 Production indicates less than 1 acre was mined after the map date. This mine is connected underground to Gartside No. 4 Mine (mine index 14).

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft (8 X 12 ft)	Jackson	8S 2W	32	SW NW SE
Air shaft	Jackson	8S 2W	32	SW NW SE

### GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	120-129	2.0	3.0	2.5 (top coal)	MRP
Murphysboro		2.67	4.0	3.5 (bottom bench)	

Geologic Problems Reported: Numerous slips and some horsebacks were noted, but their effect on mining was negligible. The slips and horsebacks were more common in the northern and western parts of the mine, and some were of considerable size. Water from a drill hole near the shaft was troublesome for a while, but the problem was corrected. Only the lower bench was worked in the much of the mine. In the eastern part, the upper bench and a 3 ft shale were taken. In another part of the mine, the upper bench was left as a roof, while the shale parting was pulled down. The parting was thin bedded gritty shale, ranging in thickness from 1 to 14 ft. The lower half of the shale flaked and came down readily with weathering, and it was more efficient to take it down rather than having to continually clean up slaking shale. Disseminated pyrite was seen in the discontinuous dirt bands, and some pyrite occurred in plates along joints. The lower bench of coal contained 0 to 8 inches of bone coal.

### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Gus Blair Big Muddy Coal Company	Big Muddy No. 2	1906-1919	484,594
Western United Gas Coal Company *	Big Muddy No. 2, Blair	1919-1925	418,219
Western United Gas Coal Company	Big Muddy No. 2, Blair	1925-1925	2,706 **
			905,519

\* May have operated as Jameson Mining Company in 1921.

\*\* Production after map date

Last reported production: April 1925

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2058_03	3-1925	1:1200	1:1200	Not final

#### Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

State archive, IL\_2058\_03 - Shaft locations, mine outline, mining method.



## Mine Index 13

### Consolidated Coal Company, Big Muddy No. 9 Mine

Type: Underground    Total mined-out acreage shown: 537

#### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft (9 X 18 ft)	Jackson	8S 2W	34	NW SW SE
Air shaft (8.75 X 18 ft)	Jackson	8S 2W	34	NW SW SE

#### GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	108-114	2.9	8.2	6.0	MRP

**Geologic Problems Reported:** The river broke through into the northwestern part of the mine in November 1921. The mine was generally very wet and required pumping. Across the river from the shaft, a roof fall migrated upwards, reaching the surface gravels (NW 3-T9S-R2W). The source map shows bulkheads constructed in the mine to prevent water reaching the workings on the eastern side of the river. Old works were encountered in SE SW SW 34-T8S-R2W. These old works may be un-mapped areas of Big Muddy No. 5 Mine (mine index 7164) or they may have been remains of an unlocated mine (see the back of this report). Several areas are designated "bad roof" on the source map in the southeastern part of the mine (E ½ 3-T9S-R2W and S ½ 3-T9S-R2W, between the No. 9 and the No. 6 – mine index 2493 – workings). An irregular deposit of sand and water about 30 feet below the surface also contributed to subsidence and roof problems in the mine. The roof rock was 12 to 18 ft of slabby gray shale, thinly laminated and with many slips. The laminations caused the shale to fall in thin sheets, and 8 inches of top coal was left to support the roof and protect the shale from exposure to air. In some places, the shale was more carbonaceous and even more difficult to hold up than the gray shale. Slips, rolls and horsebacks were common, and made the roof even more difficult to support. Horsebacks were filled with blue-gray shaley sandstone, and were always accompanied by slips. One horseback was traced over 600 ft. The coal was split into two benches separated by a layer of shale or bone coal. In the Main South, two shale partings occurred. One parting was up to 3 inches thick and 6 inches from the bottom, and the other parting was 18 inches from the bottom of the seam and up to 4 inches thick. A few pyrite balls were noted, but most of the pyrite was disseminated throughout the seam.

#### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Big Muddy Coal & Iron Company	Big Muddy No. 9	1905-1920	2,822,602
Consolidated Coal Company	Big Muddy No. 9 *	1920-1924	596,569
			3,419,171

\* This mine was referred to as Murphysboro No. 9 Mine on the source map.

Last reported production: August 1924

#### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2090_01	9-1-1924	1:2400	1:2400	Final

#### Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam.

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

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

State archive, IL\_2090\_01 - Shaft locations, mine outline, mining method, geologic problems.



**Mine Index 14****Gartside Coal Company, Gartside No. 4 Mine**

Type: Underground Total mined-out acreage shown: 365 This mine is connected underground to Big Muddy No. 2 Mine (mine index 12), Harrison Mine (mine index 15), and Gartside No. 3 Mine (mine index 266).

**SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
No. 4 shaft	Jackson	8S 2W	29	NE SW SE
No. 5 shaft	Jackson	8S 2W	29	SW NW SE
No. 2 shaft	Jackson	8S 2W	32	NW SE NE
Air shaft	Jackson	8S 2W	29	NW SE SE
Air shaft	Jackson	8S 2W	29	NW NW SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	135	4.5	7.0	6.0	MRP

**Geologic Problems Reported:** A fault was noted with the northern side downthrown about 30 inches. The roof consisted of over 100 ft of shale above a 1 to 3 ft layer of soft flakey shale. Slips along clay horsebacks were common but the impact on mining was minimal. The seam was split into two benches; the upper bench was 30 to 40 inches thick and the lower bench was 36 to 48 inches, separated by a gray shale parting. Pyrite was present in streaks and plates along bedding planes. The upper bench of coal had pyrite bands. The floor was a gray shale that was firm when dry. Some heaving occurred.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Gartside Coal Company	Gartside No. 2	pre1876-1880 *	Unknown *
Gartside Coal Company	Gartside No. 5	pre1876-1880 *	Unknown *
Gartside Coal Company	Gartside No. 4	pre1876-1923 **	<u>2,303,208</u> 2,303,208

\*\* The No. 2 and No. 5 Mines are shown on the 1876 Atlas of Jackson County. The opening year of these mines is unknown, and production for these mines is unknown. Production may have been reported under the No. 4 Mine, which is included within the same mine outline.

\*\* The No. 4 shaft was shown on the 1876 Atlas. Production before 1880 is unknown.

Last reported production: March 1923

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2092	3-1923	1:1200	1:1200	Final
Atlas of Illinois, Jackson County	1876	1:150000	1:150000	Secondary source

**Annotated Bibliography (data source, brief description of information)**

Coal Reports - Production, ownership, years of operation.

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

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

State archive, IL\_2092 - Shaft locations, mine outline, mining method.

Atlas of Illinois, Warner & Beers, Union Atlas Co., Chicago, 1876 - Shaft No. 2 location.



## Mine Index 15

### Big Muddy Coal & Iron Company, Harrison Mine

Type: Underground Total mined-out acreage shown: 459 Production indicates the Harrison Mine should be approximately 520 to 580 acres. The Harrison Mine is connected underground to mine index 7163 and mine index 7164. While the exact division cannot be discerned from the available source map, an approximate separation between this mine and mine index 7163 and mine index 7164 has been used to determine acres mined for Harrison Mine. This mine is also connected underground to Blair Mine (mine index 16), Gartside No. 4 Mine (mine index 14), and Gartside No. 3 Mine (mine index 266).

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Jackson	8S 2W	33	NE NE NW
Air shaft	Jackson	8S 2W	33	NW NW NE

### GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	155-160		6.5	5.67	MRP

Geologic Problems Reported: One horseback was traced for over 1,000 ft, and consisted of a hard micaceous sandstone. Small faults or slips were noted, as well as horsebacks. The slips made poor roof conditions. The roof was 6 ft of gray shale, full of cleavage planes. The shale was very slabby and laminated and fell in sheets. The coal had a shale parting that thickened northeastward. The parting was more carbonaceous in some areas, but where the parting was more clay-like, the coal was better quality. The parting weathered to a white powder and, when disposed of on the floor of the mine and dampened, became a very sticky mud. Pyrite was present as balls and masses, which were easily separable from the coal.

### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Carbondale Coal & Coke Company	Harrison	pre1881-1889 *	414,913
St. Louis Ore & Steel Company	Harrison	1889-1893	177,408
Big Muddy Coal & Iron Company	Harrison	1893-1915	<u>2,714,182</u>
			3,306,503

\* Production and years of operation before 1881 are unknown. The 1882 Coal Report indicated that 17 acres were mined.

Last reported production: 1915

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2099_03	8-31-1920	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 (Jackson County) - Mine names, mine index, ownership, years of operation.

Mine notes (Jackson County) - Mine type, seam, depth, thickness, geologic problems.

State archive, IL\_2099\_03 - Shaft locations, mine outline, mining method.



## Mine Index 16

### Consolidated Coal Company, Big Muddy No. 10 Mine

Type: Underground Total mined-out acreage shown: 357 A 20-acre general area of mining is also shown on the east side of the mine. This mine is connected underground to Harrison Mine (mine index 15).

#### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Jackson	8S 2W	29	NW SW NE
Air shaft	Jackson	8S 2W	29	NE SW NE
Old shaft	Jackson	8S 2W	29	SW NE NE
Old shaft	Jackson	8S2W	29	SW NE NE
Lewis shaft	Jackson	8S 2W	20	SE SE SW
Old (Blair) shaft	Jackson	8S 2W	29	NE NE NE
Air shaft	Jackson	8S 2W	29	NW NE NE

#### GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	131-160	3.1	5.2	3.7-4.6 *	MRP

\* The thickness averaged 3.7 ft in the southwestern part of the mine, 4.6 in the northwestern part of the mine, 7.0 in the eastern part of the mine where the coal was not split (NE 29-T8S-R2W), and 4.0 over the remainder of the mine.

Geologic Problems Reported: A fault was noted in the northeastern part of the mine, with the northern side downthrown 7 feet. Another fault was encountered 200 ft west of the shaft. Bone coal and pyrite were present in the seam in horizontal streaks. Pyrite was also present as lenses and on cleat surfaces. Shale partings were present in the seam, in all areas of the mine except NE Sec 29. In the northeastern part of the mine, this shale band thickened to 8 ft so that only the bottom bench was mined. In the southwestern part of the mine, another shale parting took 12 inches off the 4.7 ft thick bottom bench. This second parting thickened westward to 6 ft thick and then mining took place only in the bottom 44 inches.

#### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Lewis Coal Company	Lewis	1872-1881	20,128 **
Gus Blair & Big Muddy Coal Company	Big Muddy No. 1	1903-1915 ***	531,971
Big Muddy Coal & Iron Company	Big Muddy No. 10	1915-1920	475,892
Consolidated Coal Company	Big Muddy No. 10	1920-1927	675,700
			1,703,691

\*\* Production before July 1880 is unknown. The 1881 Coal Report indicated 25 acres had been mined. The 1882 Coal Report indicated the Lewis Mine had been abandoned. The Lewis Mine workings are incorporated into the entries of the Big Muddy No. 10 Mine.

\*\*\* Idle 1915

Last reported production: March 1927

#### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2091_03	4-1-1927	1:2400	1:2400	Final
State archive, IL_2734_03	Undated	1:2400	1:2400	Final
ISGS map library, 4103.J31 i5.1-37	ca. 1931	1:31680	1:31680	Secondary source
Atlas of Illinois, Jackson County	1876	1:150000	1:150000	Secondary source



Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam.

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

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

State archive, IL\_2091\_03 - Shaft locations, mine outline, mining method.

State archive, IL\_2734\_03 - Additional mining on east side, shaft locations.

State archive, IL\_891\_01 - Shaft location.

ISGS map library, 4103.J31 i5.1-37, sheets 3 & 5, Federal Land Bank Report work maps - Shaft locations, general area of mining (eastern part of mine).

Atlas of Jackson County, 1876, Warner & Beers, Chicago - Lewis shaft location.

History of Jackson County, 1878, Brink & McDonough, Philadelphia - Lewis Mine, years of operation.



**Mine Index 266****Gartside Coal Company, Gartside No. 3 Mine**

Type: Underground Total mined-out acreage shown: 242 This mine is connected underground to Gartside No. 4 Mine (mine index 14) and Harrison Mine (mine index 15).

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

Type	County	Township-Range	Section	Quarters-Footage
No. 3 shaft	Jackson	8S 2W	33	NE SW SW
No. 1 shaft	Jackson	8S 2W	32	SW SE SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	141	3.5	4.5	4.0	MRP

Geologic Problems Reported: Three horsebacks were reported in the 4<sup>th</sup> room off the 5<sup>th</sup> West entry, all trending NE-SW. The parting thickness was highly variable and thickened northward from the shaft. The lower bench was worked when the entire seam was not economical to mine because of the parting thickness.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Gartside Coal Company	Gartside No. 1	pre1876-1901 *	562,980
Gartside Coal Company	Gartside No. 3	1890-1910	825,022
			1,388,002

\* The opening year and production (before 1881) of the No. 1 Mine not known.

Last reported production: 1910

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2092	3-1923	1:1200	1:1200	Final
ISGS map library, 4103.J31 i5.1-37	ca. 1931	1:31680	1:31680	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam.

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

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

State archive, IL\_2092 - Shaft locations, mine outline (north side of mine), mining method.

ISGS map library, 4103.J31 i5.1-37 sheets 3 & 5, Federal Land Bank Report work maps - Shaft locations, mine outline.

Atlas of Jackson County, 1876, Warner & Beers, Chicago - Shaft location (No. 1 shaft).



**Mine Index 606****Truax Traer Coal Company, Burning Star Underground Mine**

Type: Underground    Total mined-out acreage shown: 1,868

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

Type	County	Township-Range	Section	Quarters-Footage
Slope	Jackson	8S 1W	4	SW NE NW
Drift	Jackson	8S 1W	6	NE NW NW (2 drifts)
Air drift	Jackson	8S 1W	6	NE NW NW
Drift	Jackson	7S 2W	36	NE SE NE
Air drift	Jackson	7S 2W	36	NE NE NE
Drift	Jackson	7S 2W	25	SE SE NE (5 drifts)
Air drift	Jackson	7S 2W	25	SE SE NE
Drift	Jackson	7S 2W	25	NE NE SE
Air shaft	Jackson	7S 1W	33	NE SE SW
Air shaft	Jackson	7S 1W	32	NW SE SW
Air shaft	Jackson	7S 1W	31	SW SW SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	40-130			6.0-7.0	MRP

Geologic Problems Reported: The roof was difficult to keep up near the slope and to the south, which may have been related to the split coal area. The drift entrance accessed coal with a normal marine roof (black slaty shale, sometimes underlain by gray shale, with a limestone caprock). Most of the Burning Star slope had a gray shale roof, with the associated low sulfur content of the "Quality Circle" coal. A large fault runs from the northwest to the southeast through the center of the mine.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Truax Traer Coal Company	Burning Star Underground	1941-1965 *	<u>11,760,884</u> 11,760,884

\* Idle 1962 &amp; 1963

Last reported production: October 1965

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_1999_04	10-9-1965	1:2400	1:2400	Final

Annotated Bibliography (data source, brief description of information)

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

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

Mine notes (Jackson County) - Mine type, slope location, geologic problems.

State archive, IL\_1999\_04 - Shaft, drift &amp; slope locations, mine outline, mining method, geologic problems.



**Mine Index 684****Truax Traer Coal Company, Burning Star Surface Mine**

Type: Surface    Total mined-out acreage shown: 2,242 (984 in Herrin Coal and 1,258 in Springfield Coal)

**SHAFT, SLOPE, DRIFT or TITTLE LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Tittle	Jackson	7S 2W	36	SW SE SW
Pit	Jackson	8S 1W	17, 18	
Pit	Jackson	7S 2W	36	SE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	17-38			5.0-7.0	Surface
Springfield	50-70			3.0-3.5	Surface

Geologic Problems Reported: The Herrin Coal contained pyrite nodules up to 0.5 inches thick. Calcite & pyrite were abundant on vertical fractures.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Forsyth Coal Company	Forsyth	1925-1927	635,229
Truax Traer Coal Company	Burning Star Surface	1928-1966	21,989,013
			22,624,242

Last reported production: June 1966

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, 4103.J31 i5.1-15	7-24-1950	1:4800	1:4800	Final / not final *
ISGS map library, 4103.J31 i5.1-34	1966	1:57600	1:57600	Secondary source
USGS topographic map	PR 1978	1:24000	1:24000	Secondary source
USGS topographic map	PR 1978	1:24000	1:24000	Secondary source
USGS topographic map	1968	1:24000	1:24000	Secondary source
NAIP digital ortho-photo quadrangle	2015	1:6000	1:6000	Secondary source

\* The source map was final for the pits in the Herrin Coal seam, in the northeastern part of the mine. The map was not final for the pits in the Springfield Coal seam, in the southern part of the mine. The secondary source maps were used for the final outline.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.  
 Directory of Illinois Coal Mines (Jackson County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Jackson County) - Mine type, pit locations, seam, geologic problems.  
 Company map, ISGS map library, 4103.J31 i5.1-15 - Tittle location, mine outline, mining method, seam.  
 ISGS map library, 4103.J31 i5.1-34 - General pit outline, seam.  
 Company map, Coal Section files, 6-253b - General pit outline (western), seam.  
 De Soto Quadrangle, USGS 7.5-minute topographic map, 1968, photorevised 1978 - Partial mine outline.  
 Murphysboro Quadrangle, USGS 7.5-minute topographic map, 1968, photorevised 1978 - Partial mine outline.  
 Vergennes Quadrangle, USGS 7.5-minute topographic map, 1968 - Partial mine outline.  
 National Agriculture Imagery Program map, digital ortho-photo quadrangle map - Mine outline (Herrin Coal).



**Mine Index 1020**  
**Illini Energy Resources, Razorback I Mine**

Type: Surface    Total mined-out acreage shown: 48

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

Type	County	Township-Range	Section	Quarters-Footage
Pit / tipple	Jackson	7S 2W	36	NE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	60	6.8	8.0	7.5	Surface

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Illini Energy Resources	Razorback I	1997-2000	<u>617,666</u> 617,666

Last reported production: 2000

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal section files, 6-352	2-24-2000	1:3600	1:3600	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.  
 Directory of Illinois Coal Mines (Jackson County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Jackson County) - Mine type, pit location, seam, depth, thickness.  
 Coal section files, 6-352 - Mine outline, mining method.



**Mine Index 2278**  
**Gus Blair, Big Muddy No. 3 Mine**

Type: Underground Total mined-out acreage shown: 32 The mine is larger than expected for the reported production. Other operators may have mined here before Big Muddy No. 3 Mine; see the back of this report for unlocated mines. Production indicates approximately 3 acres were mined after the map date.

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

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Jackson	8S 2W	31	NW SE SE
Air shaft	Jackson	8S 2W	31	NW SE SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	15-50			3.5-4.0	MRP

Geologic Problems Reported: Southward expansion may have been halted by a fault noted on the source map. A few small slips with less than 2 ft displacement were noted, but their effect on mining was insignificant. These were more common in the southern part of the mine. The coal was split into two benches, with a shale parting 10 inches from the bottom of the seam. Pyrite was present in bands that locally thickened to lenses and balls.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Gus Blair Big Muddy Coal Company	Big Muddy No. 3	1927-1928	11,901
Big Muddy Coal Company	Big Muddy No. 3	1929-1929	8,673
Gus Blair Big Muddy Coal Company	Big Muddy No. 3	1930-1936	49,773
Gus Blair	Big Muddy No. 3	1937-1939	10,804 *
			81,151

\* Production after map date

Last reported production: 1939

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2082_01	5-1937	1:1200	1:1200	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.  
 Directory of Illinois Coal Mines (Jackson County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Jackson County) - Mine type, slope location, seam, depth, thickness, geologic problems.  
 ISGS field notes (Jackson County) - Mine type, depth.  
 State archive, IL\_2082\_01 - Slope & shaft locations, mine outline, mining method, geologic problems.



**Mine Index 2445**  
**Dewey Craig Coal Company, Craig Mine**

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

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Jackson	7S 1W	31	SW SW SE
Air shaft *	Jackson	7S 1W	31	SW SW SE

\* This air shaft was also used by Burning Star Underground Mine (mine index 606).

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	65			8.0	UG

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Craig Coal Company	Craig	1936-1938	2,950
Homer Craig Coal Company	Craig	1939-1940	2,755 **
Dewey Craig Coal Company	Craig	1941-1942	4,636 **
			10,341

\*\* Production after map date

Last reported production: 1942

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2051_01	7-28-1938	1:1200	1:1200	Not final
State archive, IL_1999_04	10-9-1965	1:2400	1:2400	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mining method.  
 Directory of Illinois Coal Mines (Jackson County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Jackson County) - Mine type, seam, depth, thickness.  
 State archive, IL\_2051\_01 - Shaft locations, mine outline, mining method.  
 State archive, IL\_1999\_04, map of Burning Star Underground Mine (mine index 606) - Mine outline (northern part).



**Mine Index 2490****St. Louis Ore & Steel Company, St. Louis Ore & Steel Mines**

Type: Underground    Total mined-out acreage shown: 315    Production indicates approximately 45 acres were mined after the map date.

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

Type	County	Township-Range	Section	Quarters-Footage
Shaft (No. 1) *	Jackson	9S 2W	10	NE NE NW
Shaft (No. 2) *	Jackson	9S 2W	9	NE SE NE
Shaft (No. 3) *	Jackson	9S 2W	10	NE NE SW
Air shaft	Jackson	9S 2W	10	SW SE SW
Drift (No. 1 Tunnel) *	Jackson	9S 2W	9	NW NW SE
Air shaft	Jackson	9S 2W	9	NW NW SE
Slope (No. 1) *	Jackson	9S 2W	9	NE NW SE
Slope (No. 2) *	Jackson	9S 2W	9	NE NW SE
Drift	Jackson	9S 2W	9	SE NW NW

\* Slope No. 1 and Slope No. 2 are believed to have been the initial openings for the Mt. Carbon Coal Company. Production was not high at that time, and more efficient shafts were established by Grand Tower Mining, Manufacturing & Transportation Company as the rate of production increased. The No. 1 shaft was sunk in 1867, the No. 2 shaft was sunk in 1868, the No. 3 shaft was sunk in 1869 (replacing the old slopes) and the No. 1 Tunnel (drift) was constructed in 1872. The No. 1 shaft top works burned, and that shaft was used was used to pump water out of the No. 3 works. (All the workings were connected underground.) Later, the No. 1 shaft was re-named the No. 5 shaft for Big Muddy No. 6 Mine (mine index 2493), and used as an air shaft. The No. 2 shaft is the only one kept open after the 1873 financial panic, but it flooded in 1876. It took a long time to pump out the workings, and business only revived after 1880, and most of the efforts were directed to mines on the north side of the river.

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	60-170			5.0-6.0	MRP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Mt. Carbon Coal Company	Mt. Carbon	1844-1850	not reported **
idle		1850-1865	none
Grand Tower Mng., Mfg., & Transportation	Grand Tower	1866-1880	not reported **
St. Louis Ore & Steel Company	St. Louis Ore & Steel Mines	1880-1886	799,357
St. Louis Ore & Steel Company	St. Louis Ore & Steel Mines	1886-1887	215,690 ***
			1,015,047

\*\* Production before 1879 is not known. The 1879 Coal Report indicated 110 acres were mined, but listed no production.

\*\*\* Production after map date.

Last reported production: 1887

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_811_01	4-1886	1:1200	1:1200	Not final
Coal Section files, 2-3-39d	11-15-1950	1:4800	1:4800	Secondary source
Coal Section files, 2-3-39e	3-1944	1:15840	1:15840	Secondary source



Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness.  
Directory of Illinois Coal Mines (Jackson County) - Mine names, mine index, ownership, years of operation.  
State archive, IL\_811\_01 - Shaft locations, mine outline, mining method.  
Coal Section files, 2-3-39d, Consolidated Coal Company - Partial outline (SW part of mine), drift & air shaft locations.  
Coal Section files, 2-3-39e, Consolidated Coal Company - Slope locations.  
History of Jackson County, Illinois, 1878, published by Brink & McDonough: Philadelphia, 139 p. - Shaft dates.  
Newsom, E., 1894, Historical Sketches of Jackson County, Illinois, reprinted by Jackson County Historical Society, 1997, 233 p. - Years of operation, company names, shaft information.



**Mine Index 2491**  
**Fabco, Inc., Fabco Mine**

Type: Surface Total mined-out acreage shown: 30 Production indicates approximately 12 acres were mined. No company source map was found; the area shown on the accompanying map likely includes an area of disturbed land or Fabco may have enlarged a previously mined area (see the back of this report for unlocated mines).

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

Type	County	Township-Range	Section	Quarters-Footage
Pit / tipple	Jackson	8S 2W	1	

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	53-70			3.5-3.67	Surface

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Fabco, Inc.	Fabco	1964-1965	<u>71,493</u> 71,493

Last reported production: October 1965

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
USGS topographic map	1968 PR 1978	1:24000	1:24000	Secondary source
LiDAR	2021			Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, thickness.  
 Directory of Illinois Coal Mines (Jackson County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Jackson County) - Seam.  
 USGS 7.5-minute topographic map, Murphysboro, 1968 Photorevised 1978 - Mine outline.  
 LiDAR Digital Terrain Model, Jackson County - Indications of mining (west side of mine).  
 Department of Mines & Minerals, 7a-01-06, aerial photographic base with surface mines identified - Mine identification.



**Mine Index 2493**  
**Big Muddy Coal & Iron Company, Big Muddy No. 6 Mine**

Type: Underground    Total mined-out acreage shown: 288

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Jackson	9S 2W	3	SE SE SW
Air shaft *	Jackson	9S 2W		

\* The air shaft was the former hoist shaft for St. Louis Ore & Steel No. 1 Mine (mine index 2490).

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	150			6.25-6.5	MRP

Geologic Problems Reported: The source map showed "bad roof" in the northern, northwestern and northeastern parts of the mine. The map also showed "soft roof mud and quicksand" in the northeast part of the mine.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Big Muddy Coal & Iron Company	Big Muddy No. 6	1897-1908	<u>1,924,206</u> 1,924,206

Last reported production: 1908

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2099_03	8-31-1920	1:2400	1:2400	Final
State archive, IL_2087_01	Undated	1:6000	1:6000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness.  
 Directory of Illinois Coal Mines (Jackson County) - Mine names, mine index, ownership, years of operation.  
 State archive, IL\_2099\_03 - Shaft location, mine outline (west, northwest and southeast parts of the mine), mining method, geologic problems.  
 State archive, IL\_2087\_01 - Mine outline (east, northeast and southwest parts of the mine), geologic problems.



**Mine Index 2494**  
**Frank Schmidgall, Schmidgall Mine**

Type: Underground    Total mined-out acreage shown: 8    Production indicates less than 1 acre was mined.

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Jackson	8S 2W	32	SE SE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	98				Underground

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Frank Schmidgall	Schmidgall	1929-1935 *	636 *
			636

\* Production was not reported from 1930-1933 for mines producing less than 1,000 tons per year. A mine was shown in the 1907 atlas near this location. See the back of this report for unlocated mines that may have operated here previously.

Last reported production: 1935

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4103.J31 i5.1-37	ca. 1931	1:31680	1:31680	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.  
 Directory of Illinois Coal Mines (Jackson County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Jackson County) - Mine type, shaft location, depth.  
 ISGS map library, 4103.J31 i5.1-37 sheets 3 & 5, Federal Land Bank Report work map - Shaft locations, mine outline.



**Mine Index 2504****G. A. Replogle & Son, Replogle Mine**

Type: Underground    Total mined-out acreage shown: 7    Production indicates between 2 and 6 acres were mined after the map date.

**SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Jackson	9S 2W	5	NW SW NW
Air shaft	Jackson	9S 2W	5	NW SW NW
Shaft *	Jackson	9S 2W	5	NE SW NW

\* This is the old hoist shaft from the Harvey Mine (mine index 7168). Replogle later used this shaft as a hoist shaft. The Replogle Mine also connected to the old Harvey Mine and used it as an air return.

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	62	2.33	2.67	2.5 **	MRP

\*\* The thickness ranges were reported for the lower bench mined at the time of a visit. See the "Geological Problems Reported" section for the thickness of the other benches.

Geologic Problems Reported: The upper bench was 4.0 ft thick, with a sandy roof. A middle bench was very bony, and ranged from 2.0 to 7.5 ft thick. The lower bench of the coal was mined. Locally, shale lenses were present, a maximum of 0.25 inches thick. Calcite facings were present, a maximum of 0.5 inches thick. At the time of the visit, only the lower bench was mined, but because the upper benches were described (apparently visible), they had probably been mined at some time.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
G. A. Replogle & Son	Replogle	1924-1939	39,611
G. A. Replogle & Son	Replogle	1939-1941	<u>9,598</u> ***
			49,209

\*\*\* Production after map date

Last reported production: 1941

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2085_01	3-13-1939	1:600	1:600	Not final
State archive, IL_2049_01	7-1930	1:960	1:960	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Jackson County) - Mine type, seam, depth, thickness, geologic problems.

State archive, IL\_2085\_01 - Mine outline (eastern half), mining method.

State archive, IL\_2049\_01 - Shaft locations, mine outline (western half), mining method.



**Mine Index 4245**  
**Crow Mine**

Type: Underground    Total mined-out acreage shown: None    Not shown on accompanying map because of later surface mining by Burning Star Surface Mine (mine index 684).

**SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS**

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Jackson	8S 1W	6	SE SW SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	36-43			7.0	Underground

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
	Crow	pre 1908	unknown

Last reported production:

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (T. E. Savage)	1908	(text only)	1:24000 *	Secondary source
ISGS map library, 4107 d5-28	1908	1:46933	1:46933	Secondary source

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

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Jackson County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Jackson County) - Shaft location, seam, depth, thickness.  
 ISGS field notes (Jackson County) - Mine type, depth.  
 ISGS map library, 4107 d5-28, T. E. Savage work map - Mine location.



**Mine Index 4617****Jackson County Coal Company, Jackson County Mine**

Type: Underground    Total mined-out acreage shown: 5

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

Type	County	Township-Range	Section	Quarters-Footage
Drift	Jackson	9S 2W	9	SW SW NE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro				5.25	Underground

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Jackson County Coal Company	Jackson County	circa 1822-1840 *	Unknown
Jackson County Coal Company	Jackson County	circa 1850-1865 *	Unknown

\* Sources disagree on the years of operation. Jackson County Coal Company, according to the 1878 History of Jackson County, began operations in 1822, the first systematic mining in the area. (William Boon mined circa 1810 to 1812, but his mining career was not long-term or consistent. Boon had a blacksmith shop and later became a state senator.) By all indications, this 1822 mining was not extensive, a drift that did not excavate a large amount of coal or a large area, and little is known of the circa 1822 mining. According to the Newsam history (p. 121 and 122 of Historical Sketches of Jackson County, Illinois, 1894), Jackson County Coal Company opened their first mine in SW 9-T9S-R2W about 1850. The miners lived near the drift entrance to the mine in a town named Dorchester, but commonly known as Scotch Town. Dorchester had a lifespan of about 7 years, from 1850 to 1857, and by 1894, no trace of the town existed. This circa 1850 mine was the site of the first Jackson County railroad for mule-drawn cars, with rails made of wood with iron straps nailed onto the tops. The 1850 mine also piled coal that waited for high water of summer to remove the coal to the Mississippi River, and used a steamboat for this task in 1851. This mine closed when the high water failed for the steamboat and railroad expansion was too expensive for the mine to support. The Jackson County Coal Companies listed here may not have had the same investors although sharing the same name of operation. In both cases, the Jackson County Coal Company operations slowed and the Mt. Carbon Coal Company (or its successor, Grand Tower Mining, Manufacturing and Transportation Company, mine index 2490) took ascendance in mining operations.

Last reported production:

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4103.J31 i5.1-37	ca. 1931	1:31680	1:31680	Secondary source

Annotated Bibliography (data source, brief description of information)

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

ISGS field notes (Jackson County) - Drift location, thickness.

ISGS map library, 4103.J31 i5.1-37 sheets 3 &amp; 5, Federal Land Bank Report work map - Drift location, mine outline.

Newsome, E., 1894, Historical Sketches of Jackson County, Illinois - General area of mining, years of operation.

Brink &amp; McDonough, publishers, 1878, History of Jackson County, Illinois - Years of operation.



**Mine Index 7163****Big Muddy Coal & Iron Company, Big Muddy No. 4 Mine**

Type: Underground Total mined-out acreage shown: 559 The boundary between Big Muddy No. 5 Mine (mine index 7164) and Big Muddy No. 4 cannot be distinguished. The area shown includes both mines. The Harrison Mine (mine index 15) is also connected to this mine, and the division between the mines has been approximated.

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Jackson	8S 2W	33	NE NE SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	150			6.0-6.5	MRP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
St. Louis Ore & Steel Company	St. Louis Ore & Steel No. 4	1887-1893	732,692
Big Muddy Coal & Iron Company	Big Muddy No. 4	1893-1896	283,795
			1,016,487

Last reported production: 1896

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2090_01	9-1-1924	1:2400	1:2400	Final
State archive, IL_2099_03	8-31-1920	1:2400	1:2400	Final

Annotated Bibliography (data source, brief description of information)

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

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

State archive, IL\_2090\_01 - Shaft location, mine outline (east half), mining method.

State archive, IL\_2099\_03 - Mine outline, mining method.



**Mine Index 7164****Big Muddy Coal & Iron Company, Big Muddy No. 5 Mine**

Type: Underground Total mined-out acreage shown: 559 The boundary between Big Muddy No. 4 Mine (mine index 7163) and Big Muddy No. 5 Mine cannot be distinguished. The area shown includes both mines. The Harrison Mine (mine index 15) is also connected to this mine, and the division between the mines has been approximated.

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Jackson	8S 2W	33	NW SE SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	150			6.0-6.5	MRP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
St. Louis Ore & Steel Company	St. Louis Ore & Steel No. 5	1887-1893	1,105,508
Big Muddy Coal & Iron Company	Big Muddy No. 5	1893-1900	<u>1,089,653</u>
			2,195,161

Last reported production: 1900

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2090_01	9-1-1924	1:2400	1:2400	Final
State archive, IL_2099_03	8-31-1920	1:2400	1:2400	Final

Annotated Bibliography (data source, brief description of information)

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

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

State archive, IL\_2090\_01- Shaft location, mine outline(east half), mining method.

State archive, IL\_2099\_03 - Mine outline, mining method.



**Mine Index 7166**  
**Wild & Gill, Willis Mine**

Type: Underground    Total mined-out acreage shown: 6    Production indicates approximately 26 acres were mined. A general area of mining has been added to the accompanying map to indicate the probable location of this mining.

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Jackson	8S 2W	33	NW SE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Murphysboro	130-140			6.0-7.0	RP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Daniel P. Willis	Willis	1889-1898	131,247
Wild & Gill	Willis	1898-1900	<u>20,870</u>
			152,117

Last reported production: 1900

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS map library, 4103.J31 i5.1-37	ca. 1931	1:31680	1:31680	Secondary source

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 (Jackson County) - Mine names, mine index, ownership, years of operation.  
 ISGS map library, 4103.J31 i5.1-37 sheets 3 & 5, Federal Land Bank Report work map - Shaft location, mine outline.



**Mine Index 7168**  
**J. Harvey & Sons, Harvey 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
Shaft *	Jackson	9S 2W	5	NE SW NW

\* The Harvey shaft was used by the Replogle Mine (mine index 2504) as a hoist shaft.

**GEOLOGY**

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

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
J. Harvey & Sons	Harvey	1920-1921	<u>250</u> 250

Last reported production: 1921

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_2085_01	3-13-1938	1:600	1:600	Secondary source
State archive, IL_2049_01	7-1930	1:960	1:960	Secondary source

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 (Jackson County) - Mine names, mine index, ownership, years of operation.  
 State archive, IL\_2085\_01 - Shaft location, mine location, general area of mining.  
 State archive, IL\_2049\_01 - Shaft location.



**Mine Index 7169**  
**William Boon, Boon Mine**

Type: Underground    Total mined-out acreage shown: None

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

Type	County	Township-Range	Section	Quarters-Footage
Drift	Jackson	9S 2W	4	SE SE SE

**GEOLOGY**

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

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
William Boon	Boon	1810-1812	Unknown *

\* Production for mines operating before 1882 is not known. Wright's research indicated that Boon made seven trips to New Orleans between 1810 and 1812.

Last reported production:

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Jackson County Historical Society	5-2008	(text only)	1:24000 **	Secondary source

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

Annotated Bibliography (data source, brief description of information)

Jackson County Historical Society, personal communication - Drift location.  
Wright, John W. D., 1983, Formation & Early Settlement, Murphysboro, Illinois, Jackson County Historical Society, 126p. - Years of operation.



**Mine Index 7811****Central Mining Company, Burning Star No. 1 Mine**

Type: Underground    Total mined-out acreage shown: None

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

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Jackson	7S 2W	36	E ½ SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	30			5.5	Surface

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Central Mining Company	Burning Star No. 1 *	1993-1993	25,167 *
Central Mining Company	Burning Star No. 1 *	1994-1994	9,242 *
			34,409

\* The 1993 production was only listed in the "mode of shipment" table. According to Dean Spindler, DNR, this was a carbon recovery company. As such, the 1993 production may have been from a slurry pond or a stockpile of coal fines. The 1994 production was listed in the "physical characteristics" table, but may have come from the same source or they may have mined from reserves left at the site. The mine name (Burning Star) most likely refers to mine index 0684, Truax Traer Coal Co.'s Burning Star No. 1 Mine.

Last reported production: 1994

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files, 6-352	1998	1:3600	1:3600	Secondary source

Annotated Bibliography (data source, brief description of information)

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

Coal Section files 6-352, IDNR permit #125, as shown on map of Razorback Mine (mine index 1020) - Mine location.

## OTHER MINES SHOWN ON MURPHYSBORO QUADRANGLE

Mine Index 4618 SW NE SW 10-T9S-R2W, drift source: ISGS field notes (M. W. Fuller, 9-12-1931)  
Mine Index 7167 SE NE SE 7-T9S-R2W, drift, Delwood Coal source: ISGS field notes (M. W. Fuller, 9-1-1933);  
ISGS map library, 4107 d5.1-195 sheet 48  
Mine Index 7730 NE NW 1-T8S-R1W, surface, Herrin Coal source: Coal Section files, 7a-01-06 (DMM surface  
mine updates on 1959 aerial photo base) & National Agriculture Imagery Program map (2015)

## NON-COAL MINES IN THE MURPHYSBORO QUADRANGLE

### Murphysboro Paving Brick Company, Shale Mine

#### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Jackson	8S 2W	32	N ½ NE

Geologic Problems Reported: Some coal was said to have been mined, but no production was listed in the Coal Reports. The coal was used for the steam shovels (somewhat antiquated at this date), and the underclay and underlying shale were used in the brick plant.

#### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (H. E. Culver)	1922-1925	(text only)	1:24500	Secondary source
ISGS field notes (H. R. Wanless)	1931	(text only)	1:24000	Secondary source
ISGS map library, 4107 d5.1-195	undated	1:62500	1:62500	Secondary source

#### Annotated Bibliography (data source, brief description of information)

ISGS field notes (Jackson County) - Mine location.  
ISGS map library, 4107 d5.1-195, sheet 48, H. R. Wanless field map - Mine location.  
USGS 7.5-minute topographic map, Murphysboro Quadrangle, 1968 PR 1978 - Mine outline.



## MINES WHOSE LOCATIONS ARE NOT KNOWN, MURPHYSBORO 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 Murphysboro 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 111,469 (53,126 underground, 13,714 surface mined and 44,629 mined by uncertain method), which would represent approximately 16 to 35 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

MINE INFORMATION	PRODUCTION	MINE INDEX
<b>JACKSON COUNTY</b>		
"drift mines & small openings", 1884-1887	4,750 tons	
Campbell Hill Mines, 1879-1880, —, —, 20, 3.0	300 tons	90770007
Cram Hill Mine, 1879-1880, "tunnel", —, 150, 3.0	100 tons	90770008
Moore (Sam), 1879-1880, "tunnel", —, 20, 2.5	900 tons	90770009
<b>DE SOTO</b>		
Zimmerman Mine, 1879-1880, shaft, —, 35, 6.0	400 tons	90770006
Wisley & Dyer, 1898-1900, shaft, —, 30, 7.0, RP	780 tons	90770041
Wilkinson (William), 1907-1910, slope, Danville, 30-90, 6.5-9.0, RP	1,745 tons	90770060
Boden (A.) & Craig (J.), 1911-1912, shaft, —, 38, 8.5, RP	1,100 tons	90770070
Bane & Ellace, 1911-1912, shaft, Herrin, 54, 10.0, RP	150 tons	90770071
Bowlen (A. C.), 1914-1915, shaft, Herrin, 40, 8.0-8.5, RP	3,000 tons	90770074
Bowlen Brothers, 1915-1916	<u>670 tons</u> 3,670 tons	
Wilkerson & Brown, 1920-1921	1,500 tons	90770093
Wilkerson & Endsley, 1924-1925, underground	1,150 tons	90770103 b
Wilkerson & Sills, 1926-1927	2,230 tons	
Wilkinson Brothers, 1928-1930	<u>2,034 tons</u> 5,414 tons	
DeSoto Mine, 1944-1944, surface	1,700 tons	90770116
<b>MURPHYSBORO</b>		
Red Ring Coal Company, 1949-1949, surface, Murphysboro, 40, 4.5	3,343 tons	4602
Heikel High Carbon Coal Company, 1950-1951	353 tons	
Big Muddy Coal Company, 1951-1951	<u>8,318 tons</u> 12,014 tons	
Wolsey (J.), 1888-1889	252 tons	90770014

Osborn (T.), 1888-1889	300 tons	90770015
Osborn Brothers, 1889-1890	<u>125 tons</u> 425 tons	
Poole (E. E.), 1889-1901, shaft, Murphysboro, 58-60, 2.7-3.0, RP	21,756 tons	90770017
Poole (Robert), 1901-1903	<u>3,477 tons</u> 25,233 tons	
Mt. Pleasant Mine, 1889-1890	360 tons	90770018
Weatherly (Samuel), 1908-1909, slope, Murphysboro, 25, 4.0, RP	200 tons	90770061
Wise (Thomas) & Son, 1914-1915, slope, Murphysboro, 30, 4.0, RP	117 tons	90770076
Piazzia & Marfia, 1917-1919	457 tons	90770081
Bethlehem Mineral Mills Company, 1919-1921	1,110 tons	90770085
Blair (Gus) Coal Company, No. 2 Mine, 1922-1927	36,982 tons	90770095
Bowker (George), 1925-1925	4,000 tons	90770103 a
Roberts & Company, 1928-1928, underground	4,260 tons	90770106
Darby (Gus) & Ellis (Anton), 1928-1929, underground	3,850 tons	90770107



## INDEX OF MINES IN THE MURPHYSBORO QUADRANGLE

Bane & Ellace . . . . .	36
Bethlehem Mineral Mills Company. . . . .	37
Big Muddy Coal & Iron Company	
Harrison Mine. . . . .	12
No. 4 Mine . . . . .	29
No. 5 Mine . . . . .	30
No. 6 Mine . . . . .	24
No. 9 Mine . . . . .	10
Big Muddy Coal Company . . . . .	36
Big Muddy Coal Company, No. 3 Mine . . . . .	19
Big Muddy No. 1 Mine . . . . .	13
Big Muddy No. 10 Mine . . . . .	13
Big Muddy No. 2 Mine . . . . .	9
Big Muddy No. 3 Mine . . . . .	19
Big Muddy No. 9 Mine . . . . .	10
Blair (Gus) & Big Muddy Coal Company, No. 1 Mine. . . . .	13
Blair (Gus) Big Muddy Coal Company, No. 2 Mine . . . . .	9
Blair (Gus) Big Muddy Coal Company, No. 3 Mine . . . . .	19
Blair (Gus) Coal Company, No. 2 Mine . . . . .	37
Blair (Gus), Big Muddy No. 3 Mine . . . . .	19
Blair Mine. . . . .	9
Boden (A.) & Craig (J.) . . . . .	36
Boon (William) . . . . .	33
Bowker (George) . . . . .	37
Bowlen (A. C.) . . . . .	36
Bowlen Brothers . . . . .	36
Brown (Wilkerson & Brown). . . . .	36
Burning Star No. 1 Mine . . . . .	34
Burning Star Surface Mine. . . . .	17
Burning Star Underground Mine . . . . .	16
Campbell Hill Mines . . . . .	36
Carbondale Coal & Coke Company. . . . .	12
Central Mining Company . . . . .	34
Consolidated Coal Company, Big Muddy No. 09 Mine . . . . .	10
Consolidated Coal Company, Big Muddy No. 10 Mine . . . . .	13
Craig (Boden & Craig) . . . . .	36
Craig (Dewey) Coal Company . . . . .	20
Craig (Homer) Coal Company . . . . .	20
Craig Coal Company . . . . .	20
Cram Hill Mine . . . . .	36
Crow Mine . . . . .	27
Darby (Gus) & Ellis (Anton) . . . . .	37
DeSoto Mine . . . . .	36
Dyer (Wisley & Dyer) . . . . .	36
Ellace (Bane & Ellace). . . . .	36
Ellis (Darby & Ellis) . . . . .	37
Endsley (Wilkerson & Endsley) . . . . .	36
Fabco, Inc. . . . .	23
Forsyth Coal Company . . . . .	17
Gartside Coal Company	
No. 1 Mine . . . . .	15
No. 2 Mine . . . . .	11
No. 3 Mine . . . . .	15
No. 4 Mine . . . . .	11
No. 5 Mine . . . . .	11
Gill (Wild & Gill) . . . . .	31
Grand Tower Mining, Manufacturing, & Transportation . . . . .	21
Harrison Mine . . . . .	12
Harvey (J.) & Sons. . . . .	32
Heikel High Carbon Coal Company . . . . .	36
Illini Energy Resources . . . . .	18
Jackson County Coal Company. . . . .	28
Jameson Mining Company . . . . .	9

Lewis Coal Company . . . . .	13
Marfia (Piazzia & Marfia) . . . . .	37
Moore (Sam) . . . . .	36
Mt. Carbon Coal Company . . . . .	21
Mt. Pleasant Mine . . . . .	37
Murphysboro No. 9 Mine . . . . .	10
Murphysboro Paving Brick Company . . . . .	35
Osborn (T.) . . . . .	37
Osborn Brothers . . . . .	37
Piazzia & Marfia . . . . .	37
Poole (E. E.) . . . . .	37
Poole (Robert) . . . . .	37
Razorback I Mine . . . . .	18
Red Ring Coal Company . . . . .	36
Replogle (G. A.) & Son . . . . .	26
Roberts & Company . . . . .	37
Schmidgall (Frank) . . . . .	25
Sills (Wilkerson & Sills) . . . . .	36
St. Louis Ore & Steel Company . . . . .	21
Harrison Mine . . . . .	12
No. 4 Mine . . . . .	29
No. 5 Mine . . . . .	30
Truax Traer Coal Company, Burning Star Surface Mine . . . . .	17
Truax Traer Coal Company, Burning Star Underground Mine . . . . .	16
Weatherly (Samuel) . . . . .	37
Western United Gas Coal Company . . . . .	9
Wild & Gill . . . . .	31
Wilkerson & Brown . . . . .	36
Wilkerson & Endsley . . . . .	36
Wilkerson & Sills . . . . .	36
Wilkinson (William) . . . . .	36
Wilkinson Brothers . . . . .	36
Willis (Daniel P.) . . . . .	31
Wise (Thomas) & Son . . . . .	37
Wisley & Dyer . . . . .	36
Wolsey (J.) . . . . .	36
Zimmerman Mine . . . . .	36





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