

# Coal Mines in Illinois Karbers Ridge Quadrangle Gallatin & Hardin Counties, Illinois

This map accompanies the Coal Mines Directory for the Karbers Ridge 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
- ### Other Points Depicted
- Non-Coal Mines

- ### 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
- ### Location
- 

### 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 of 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. Karbers Ridge Quadrangle used as a base map was projected from the original UTM to Lambert Conformal Conic.

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April 26, 2005



# **DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES KARBERS RIDGE QUADRANGLE GALLATIN AND HARDIN COUNTIES**

Jennifer M. Obrad



Department of Natural Resources  
ILLINOIS STATE GEOLOGICAL SURVEY  
2005



**DIRECTORY OF COAL MINES IN ILLINOIS  
7.5-MINUTE QUADRANGLE SERIES  
KARBERS RIDGE QUADRANGLE  
GALLATIN AND HARDIN COUNTIES**

2005

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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) 244-2420.

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## CONTENTS

INTRODUCTION .....	1
MINING IN THE KARBERS RIDGE 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 KARBERS RIDGE QUADRANGLE .....	9
MINE SUMMARY SHEETS .....	9
Mine Index 631	
Blu-Blaz Bloc Coal Company, Peacock Mine .....	9
Mine Index 747	
V. W. Craig, Willis Mine .....	10
Mine Index 2272	
Patton, Patton Coal Bank .....	11
Mine Index 2299	
Blue Ribbon Coal Company, Blue Ribbon No. 1 Mine .....	12
OTHER MINES SHOWN ON KARBERS RIDGE QUADRANGLE .....	13
Mine Index 4501, Dickson Mine .....	13
Mine Index 4502 .....	13
Mine Index 4503 .....	13
Mine Index 4505 .....	13
Mine Index 4507 .....	13
NON-COAL MINES IN THE KARBERS RIDGE QUADRANGLE .....	14
Hall Prospect for Zinc .....	14
Shale Mine .....	14
Prospect Pit .....	14
Clay Mine .....	15
Prospect Pit .....	15
Prospect Pit .....	15
Prospect Pit .....	16
Beecher Williams, Williams Fluorspar Prospect .....	16
George Carnett, Carnett Fluorspar Prospect .....	16
C. Weidman, Weidman Fluorspar Prospects .....	17
Beecher Williams, Gintert Fluorspar Prospect .....	17
Phelps, J. Love Fluorspar & Lead Prospect .....	17
McAllister, S. Love Fluorspar & Lead Prospect .....	18
S. Love, Jarrells Fluorspar Prospect .....	18
Minerva Oil Company, Ridge Fluorspar Mine .....	18
Hillside Fluorspar Mines, Lee Mine .....	19
Crystal Fluorspar Company, Gintert Prospect .....	19
Williams & LaRue, Frohock Fluorspar Prospect .....	19
George Carnett, Diamond Fluorspar & Lead Prospect .....	20
Aluminum Ore Company, Hamp Mine .....	20
Saylor & Potts, Turner Fluorspar & Lead Prospect .....	20
Thurmond & Gibbons, Joyce Prospect .....	21
Barnett or Hastie, Renfro Fluorspar Prospect .....	21
W. M. Roher, Rose Mine .....	21
Big Creek Fluorspar Company & A. B. Mann, Lacey Mine .....	22
MINES WHOSE LOCATIONS ARE NOT KNOWN, KARBERS RIDGE QUADRANGLE .....	23

INDEX OF MINES IN THE KARBERS RIDGE QUADRANGLE .....	24
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## **INTRODUCTION**

Coal has been mined in 73 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.

The directory serves as a key to the accompanying mine map and provides basic information on the coal mines. The directory is composed of two parts. Part I explains the symbols and patterns used on the accompanying map and the summary data presented for each mine. Part II numerically lists the mines in the quadrangle and summarizes the geology and production history of each mine.

## **MINING IN THE KARBERS RIDGE QUADRANGLE**

Coal mining occurred only in the northern part of this quadrangle, in Gallatin County. This mining was on a very small scale. Most of the mines were small drifts into the Willis Coal on the hillside gullies in this area. More of these small mines may exist than are shown, but records of very small drifts for household use were seldom kept or reported. Mining ended in 1966 with the closing of the Blu-Blaze Bloc Coal Company's Peacock Mine (mine index 631).

In the Hardin County portion of this quadrangle, mining occurred but was all non-coal mining. Most of these mines were after fluorspar, an important industrial mineral. Hardin County lies in what is known as the Fluorspar District of Illinois. This mineral typically occurs as veins, and the method of mining reflects this. These mines were often long and narrow (linear in nature like the seams they mined), with many multiple shafts a short distance apart in the larger mines, such as the Hamp Mine and Lee Mine. One clay mine and one zinc prospect also operated for a time, in this quadrangle.

## 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

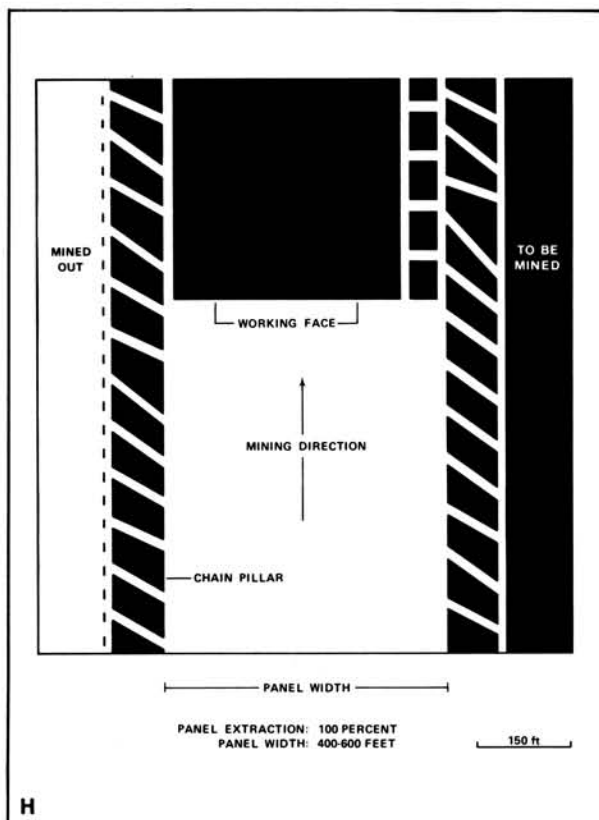
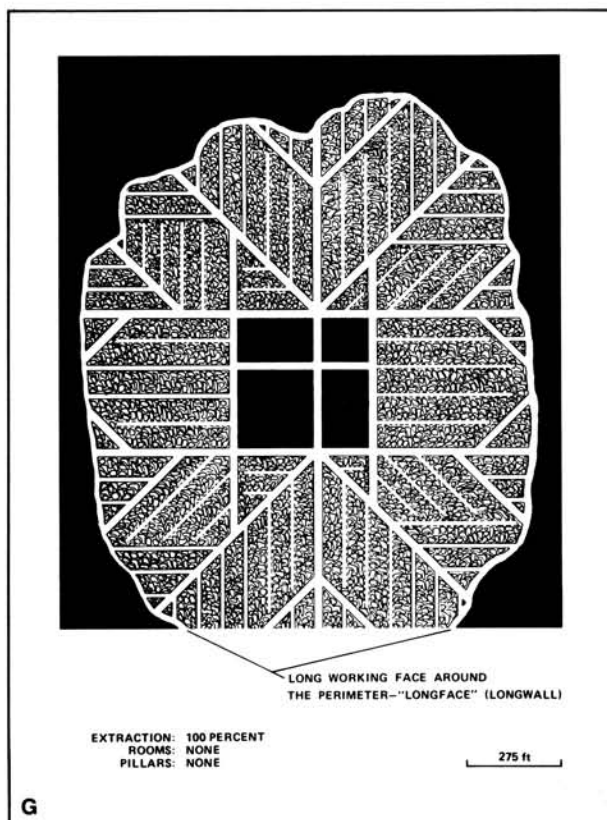
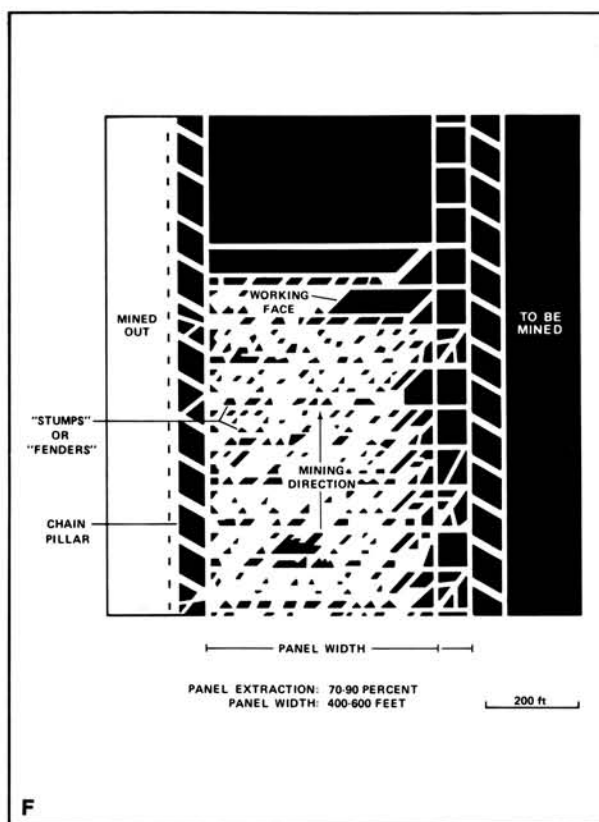
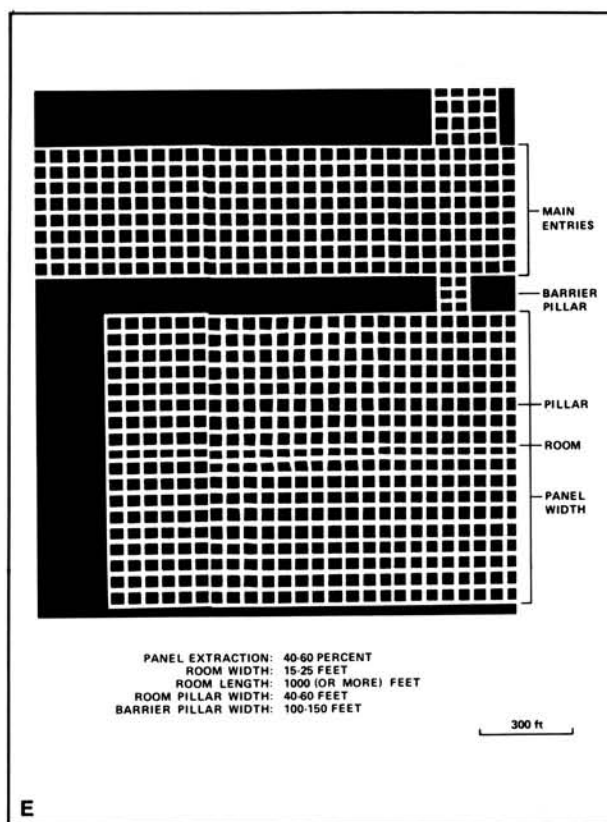
The locations of all known mine openings (shafts, slopes, and drifts) and surface mine tipples are plotted on the map. Tipples are areas where coal was cleaned, stockpiled, and loaded for shipping.

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.

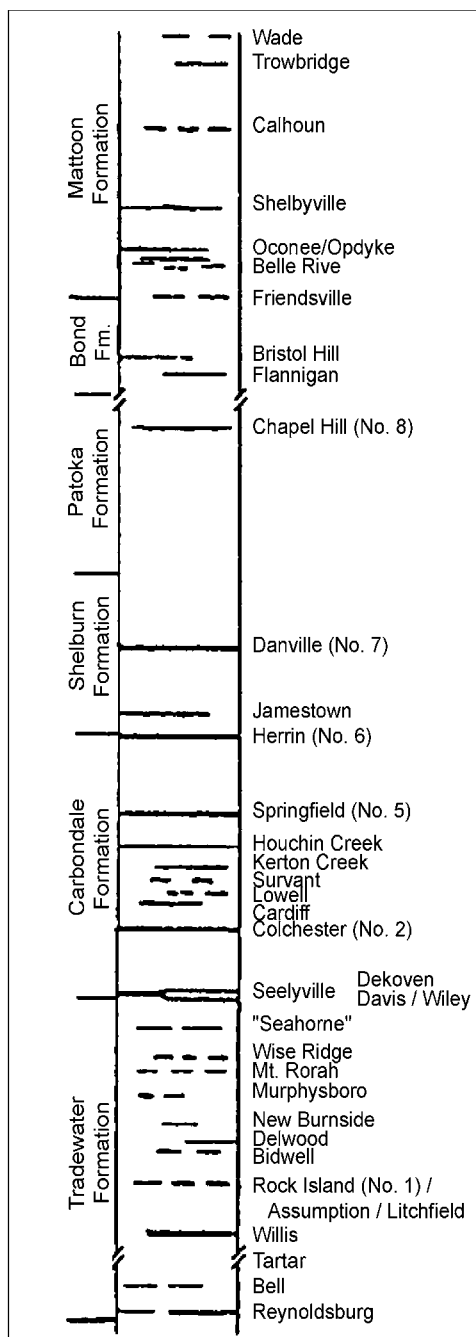
Each mine on the map is labeled with the names of the mine and operating company, ISGS mine index number, and years of operation (if known) if space permits. A seam designation is given on maps where more than one seam was mined. For a mine that operated under more than one name, only the most recent 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.

## 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 for the Illinois coal measures 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.

## 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.

**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.

Baxter, J. W. and G. A. Desborough, 1965, Areal Geology of the Illinois Fluorspar District, Part 2 – Karbers Ridge and Rosiclare Quadrangles, Illinois State Geological Survey, Circular 385, 40p.

Butts, C., 1925, Geology and Mineral Resources of the Equality-Shawneetown Area, Illinois State Geological Survey, Bulletin 47, 76p.

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.



## PART II DIRECTORY OF MINES IN THE KARBERS RIDGE QUADRANGLE

### MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Karbers Ridge 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 631

#### Blu-Blaz Bloc Coal Company, Peacock Mine

Type: Underground    Total mined-out acreage shown: 8

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Gallatin	10S 9E	30	SW SW SE
Air drift	Gallatin	10S 9E	30	SW SW SE
Escape drift	Gallatin	10S 9E	30	SW SW SE

### GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Willis	0-100	3.0	3.3	3.2	RPB

Geologic Problems Reported: Faults were shown on the source map along the western boundary. Another fault was shown in the center of the mine, trending southwest-northeast. Displacement was not noted on the map, but mining stopped at the faults. The immediate roof was fine, soft, massive sandstone, which sometimes rolled into the coal for a few inches. The upper part of the coal sometimes contained localized clay partings. The coal was not mined where these partings were present. The coal had vertical fractures throughout the seam, and these were generally filled with clay or mud that was sticky and adhered to the coal. Some thin pyrite bands parallel to the bedding were noted in the seam.

### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Ernest V. Schneider	Schneider	1923-1937 *	698
Shawnee Coal Company	Shawnee	1938-1948 **	45
Blue Blaze Coal Company	Blue Blaze	1949-1949	346
Blu-Blaz Bloc Coal Company	Blu Blaz No. 1	1950-1964 ***	27,983
Blu-Blaz Bloc Coal Company	Peacock	1965-1966	2,907
			31,979

\* Idle 1925, 1926, 1928-1933, 1937

\*\* Idle 1940-1948

\*\*\* Idle 1951-1953

Last reported production: April 1966

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351556	2-6-1966	1:1200	1:1324	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, drift location, seam, depth, thickness, geologic problems.

ISGS field notes (Gallatin County) - Seam, thickness.

Microfilm map, document 351556, reel 03136, frame 324 - Drift locations, mine outline, mining method, geologic problems.

**Mine Index 747****V. W. Craig, Willis Mine**

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

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

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Gallatin	10S 9E	30	SE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Willis	30			2.5-2.75	RP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
V. W. Craig	Willis *	1906-1907	225 225

\* Several small mines were said to have existed in this vicinity, and were referred to as the Willis Mines (referring to the seam mined, which was named for the Willis property in this section). These mines were likely all small drifts.

Last reported production: 1907

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin 47	1925	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, mining method.  
 Directory of Illinois Coal Mines (Gallatin County) - Mine names, mine index, ownership, years of operation.  
 ISGS field notes (Gallatin County) - Mine location, thickness.  
 ISGS Bulletin 47, Plate 3, Pg. 64 - Mine location, thickness.

**Mine Index 2272**  
**Patton, Patton Coal Bank**

Type: Surface    Total mined-out acreage shown: None

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

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Gallatin	10S 8E	27	NE SW NW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Willis				1.5	Surface

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Patton	Patton Coal Bank	-1933	unknown *

\* Production was not listed in the Coal Reports for 1930-1933 for mines producing less than 1,000 tons per year.

Last reported production: 1933

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (M. W. Fuller)	8-9-1933	(text only)	1:24000	Secondary source

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, thickness, mining method.

**Mine Index 2299****Blue Ribbon Coal Company, Blue Ribbon No. 1 Mine**

Type: Underground    Total mined-out acreage shown: Less than 1

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

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Gallatin	10S 9E	30	SE NE SW
Air drift	Gallatin	10S 9E	30	SE NE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Willis					RPB

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Edgar Scott	Scott	1934-1941	602
Blue Ribbon Coal Company *	Blue Ribbon No. 1	1961-1962	<u>160</u>
			762

\* The Scott Mine was abandoned but the mine opening was used to access the lower bench of the Willis Coal.

Last reported production: 1962

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351557	2-10-1962	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) - Mine type, drift location.

ISGS field notes (Gallatin County) - Seam.

Microfilm map, document 351557, reel 03136, frame 325 - Slope & drift locations, mine outline, mining method.

## **OTHER MINES SHOWN ON KARBERS RIDGE QUADRANGLE**

Mine Index 4501, Dickson Mine SW NE SW 30-T10S-R9E, drift source: ISGS field notes (G. H. Cady, 9-21-1930)

Mine Index 4502 SE NW 30-T10S-R9E source: ISGS Circular 385, page 36 (1965)

Mine Index 4503 SE SW NE 26-T10S-R8E source: ISGS Circular 385, page 36 (1965)

Mine Index 4505 center SE 30-T10S-R9E, 3.5 feet thick source: ISGS Bulletin 47, Plate 3, page 64 (1925)

Mine Index 4507 SW NW NW 31-T10S-R9E source: ISGS map library, 4107 d5.1-195, sheet 26, ISGS field notes  
(H. R. Wanless, 1933)

## NON-COAL MINES IN THE KARBERS RIDGE QUADRANGLE

### Hall Prospect for Zinc

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

Type	County	Township-Range	Section	Quarters-Footage
Pit	Hardin	11S 8E	1	NW SW NE

#### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (W. Lee)	1915	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS field notes (Hardin County) - Mine location.

### Shale Mine

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

Type	County	Township-Range	Section	Quarters-Footage
Pit	Hardin	11S 8E	11	NW NW SE

#### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (A. Pernichele)	1960	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS field notes (Hardin County) - Mine location.

### Prospect Pit

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

Type	County	Township-Range	Section	Quarters-Footage
Pit	Hardin	11S 8E	13	NE NW SW

#### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (D. A. Shaefer)	1960	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS field notes (Hardin County) - Mine location.

## Clay Mine

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft	Hardin	11S 8E	21	NW NW NW

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (W. Lee)	1915	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS field notes (Hardin County) - Mine location.

## Prospect Pit

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Hardin	11S 8E	25	SW SW SE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (D. A. Shaefer)	1960	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS field notes (Hardin County) - Mine location.

## Prospect Pit

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Hardin	11S 8E	25	SW SE SW

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (D. A. Shaefer)	1960	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS field notes (Hardin County) - Mine location.

## Prospect Pit

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pit	Hardin	11S 8E	35	NE SW SW

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (A. Pernichele)	1960	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS field notes (Hardin County) - Mine location.

## Beecher Williams, Williams Fluorspar Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft (30' deep)	Hardin	11S 8E	7	SW SW SE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 138 - Mine name, type, location, depth.

## George Carnett, Carnett Fluorspar Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft (40' deep)	Hardin	11S 8E	7	SW SW SE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 138 - Mine name, type, location, depth.



## C. Weidman, Weidman Fluorspar Prospects

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shafts (10-25' deep)	Hardin	11S 8E	7	SW NE SW

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 138 - Mine name, type, location, depth.

## Beecher Williams, Gintert Fluorspar Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft (70' deep)	Hardin	11S 8E	8	SE SW SE
Shaft (30-60' deep)	Hardin	11S 8E	8	SW SW SE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 138 - Mine name, type, location, depth.

## Phelps, J. Love Fluorspar & Lead Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft (30-40' deep)	Hardin	11S 8E	11	NE NE NE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 138 - Mine name, type, location, depth.

## McAllister, S. Love Fluorspar & Lead Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft (50' deep)	Hardin	11S 8E	11	N½ SW SE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 138 - Mine name, type, location, depth.

## S. Love, Jarrells Fluorspar Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft (60' deep)	Hardin	11S 8E	12	NE SW SE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 139 - Mine name, type, location, depth.

## Minerva Oil Company, Ridge Fluorspar Mine

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Hardin	11S 8E	10	NW SE SW

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 358698	7-11-1966	---	---	Secondary source

Annotated Bibliography (data source, brief description of information)

Microfilm map, document 358698, reel 03159, frame 287 - Mine name, location.

## Hillside Fluorspar Mines, Lee Mine

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shafts (35-150' deep)	Hardin	11S 8E	14	N½ NW NW

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 139 - Mine name, type, location, depth.

## Crystal Fluorspar Company, Gintert Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Hardin	11S 8E	17	NE NE NE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 139 - Mine name, type, location.

## Williams & LaRue, Frohock Fluorspar Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Mine	Hardin	11S 8E	17	SW NE NE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 139 - Mine name, type, location.

## George Carnett, Diamond Fluorspar & Lead Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft (40-125' deep)	Hardin	11S 8E	17	NW SE NE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 139 - Mine name, type, location, depth.

## Aluminum Ore Company, Hamp Mine

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shafts	Hardin	11S 8E	18	NW corner
Shafts	Hardin	11S 8E	7	SW corner

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 139 - Mine name, type, location, depth.

## Saylor & Potts, Turner Fluorspar & Lead Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft (40' deep)	Hardin	11S 8E	21	NE SE NW

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 139 - Mine name, type, location, depth.

## Thurmond & Gibbons, Joyce Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft (48' deep)	Hardin	11S 8E	21	SW NE SE

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 139 - Mine name, location, depth.

## Barnett or Hastie, Renfro Fluorspar Prospect

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft (22' deep)	Hardin	11S 8E	23	NW NW SW

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 139 - Mine name, type, location, depth.

## W. M. Roher, Rose Mine

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Pits *	Hardin	11S 8E	30	NE NW SE

\* This mine was said to have two open pits, 25'x100' and 75'x125'. It was also said to have a caved shaft 100' deep.

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

Annotated Bibliography (data source, brief description of information)

ISGS Bulletin 76, pg. 139 - Mine name, type, location, depth.

## Big Creek Fluorspar Company & A. B. Mann, Lacey Mine

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shafts	Hardin	12S 8E	6	NW

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS Bulletin	1952	(text only)	1:124000	Secondary source

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

ISGS Bulletin 76, pg. 144 - Mine name, type, location.

## **MINES WHOSE LOCATIONS ARE NOT KNOWN, KARBERS RIDGE 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 Karbers Ridge 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 760, which would represent approximately less than 1 acre, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

### **SPARKS HILL**

Willis Brothers, 1917-1918	400 tons
Willis Brothers, 1921-1922	280 tons
Willis (George), 1922-1923	<u>80</u> tons
	360 tons

## INDEX OF MINES IN THE KARBERS RIDGE QUADRANGLE

Aluminum Ore Company . . . . .	20
Barnett . . . . .	21
Big Creek Fluorspar Company & A. B. Mann . . . . .	22
Blu-Blaz Bloc Coal Company . . . . .	9
Blue Blaze Coal Company . . . . .	9
Blue Ribbon Coal Company . . . . .	12
Carnett (George) . . . . .	16, 20
Clay Mine . . . . .	15
Craig (V. W.) . . . . .	10
Crystal Fluorspar Company . . . . .	19
Diamond Prospect . . . . .	20
Dickson Mine . . . . .	13
Frohock Fluorspar Prospect . . . . .	19
Gibbons (Thurmond & Gibbons) . . . . .	21
Gintert Fluorspar Prospect . . . . .	17
Gintert Prospect . . . . .	19
Hall Prospect . . . . .	14
Hamp Mine . . . . .	20
Hastie . . . . .	21
Hillside Fluorspar Mines . . . . .	19
Jarrells Fluorspar Prospect . . . . .	18
Joyce Prospect . . . . .	21
Lacey Mine . . . . .	22
LaRue (Williams & LaRue) . . . . .	19
Lee Mine . . . . .	19
Love (J.) Prospect . . . . .	17
Love (S.) . . . . .	18
Love (S.) Prospect . . . . .	18
Mann (A. B. & Big Creek Fluorspar Company) . . . . .	22
McAllister . . . . .	18
Minerva Oil Company . . . . .	18
Patton Coal Bank . . . . .	11
Peacock Mine . . . . .	9
Phelps . . . . .	17
Potts (Saylor & Potts) . . . . .	20
Prospect Pit . . . . .	14-16
Renfro Prospect . . . . .	21
Ridge Mine . . . . .	18
Roher (W. M.) . . . . .	21
Rose Mine . . . . .	21
Saylor & Potts . . . . .	20
Schneider (Ernest V.) . . . . .	9
Scott (Edgar) . . . . .	12
Shale Mine . . . . .	14
Shawnee Coal Company . . . . .	9
Thurmond & Gibbons . . . . .	21
Turner Prospect . . . . .	20
Weidman (C.) . . . . .	17
Williams (Beecher) . . . . .	16, 17
Williams & LaRue . . . . .	19
Willis (George) . . . . .	23
Willis Brothers . . . . .	23
Willis Mine . . . . .	10



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