

### **Coal Mines in Illinois Nokomis Quadrangle**

### Montgomery & Christian Counties, Illinois

This map accompanies the Coal Mines Directory for the Nokomis Quadrangle. Consult the directory for a complete explanation of the information shown on this map.

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

### Source of Mine Outline - Final Mine Map

Not Final Mine Map

Undated Mine Map

----- Incomplete Mine Map Secondary Source Map

### Tipple, Shaft, Slope, Drift Locations

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

Mine Annotation (space permiting) Company

Mine Name ISGS Index No., Years of Operation

Disclaimer
Please check the Coal Section at the Illinois State Geological Survey's web site at <a href="http://www.isga.illinois.edu">http://www.isga.illinois.edu</a> for the most up-to-date version of these products.

Location

Note that each quadrangle scale mined-out area map requires the use of the associated text directory for full explanation of map features and mine attributes. Also note that some quadrangles have multiple seams of mining and therefore more than one map may be available for a particular quadrangle. Please take care to check for multiple maps, as extensive mining may exist in the other seams.

The maps and digital files used for these studies were compiled from data obtained from a variety of public and printle sources and law varying degrees of completieness and sociously. This compliation map presents approaches the completieness of the control of the completieness and sociously. This completion map presents degree and the completieness of the interpretations processed, displaying or a completieness of the interpretations processed or implied, regarding the conventioness of the interpretations processed or implied, regarding the conventioness of the interpretations processed or implied, regarding the conventioness of the interpretations processed or implied, repaiding the conventioness of the interpretations processed in the interpretation processed or implied, repaiding the conventions of the completieness of the interpretations processed or implied, repaiding the conventions of the completieness of the conventions of the convention

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 rehown only from the discriptions. 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 included miles 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.



Institute of Natural Resource Sustainability Illinois State Geological Survey 615 E. Peabody Dr. Champaign, IL 61820

Mine Outlines Compiled by Jennifer M. Obrad October 26, 2011

# DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES NOKOMIS QUADRANGLE MONTGOMERY & CHRISTIAN COUNTIES

Jennifer M. Obrad



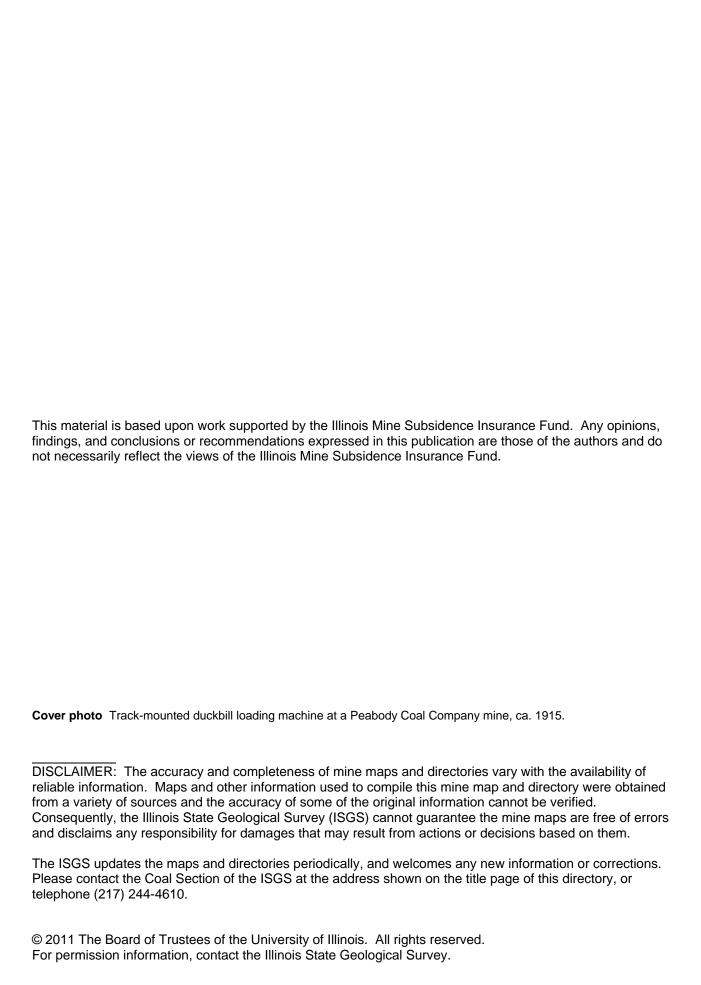
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### INTRODUCTION

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

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

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 NOKOMIS QUADRANGLE

The Herrin Coal seam was mined in the Nokomis Quadrangle. This seam lies 500-650 feet in depth in this area, and the mines reported thicknesses of 6 to 8.5 feet of Herrin Coal. The first mine opened in 1897, opened by the Montgomery Coal Company (mine index 196). Mining continued in this quadrangle until 1952, when the last mine, Nokomis Coal Company, Reliance Mine (mine index 195), closed.

### PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET

### INTERPRETING THE MAP

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

### Mine Type and Mining Method

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

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

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

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

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

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

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

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

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

### **SOURCE MAPS**

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

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

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

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

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

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

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

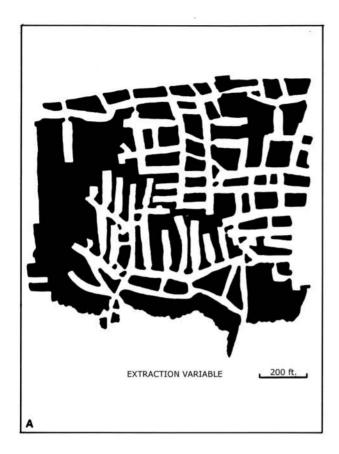
**Secondary source map** The original mine map was not found so the outline shown was determined from secondary sources (e.g., outlines from small-scale regional maps published in other reports). The summary sheet describes the secondary sources.

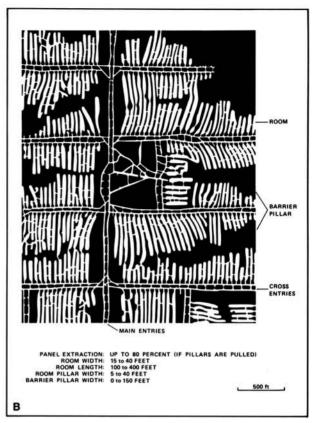
### **POINTS AND LABELS**

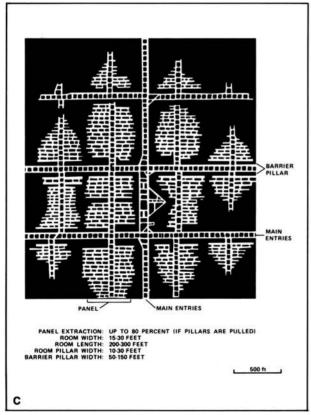
The locations of all known mine openings (shafts, slopes, and drifts) and surface mine tipples are plotted on the map. Tipples are areas where coal was cleaned, stockpiled, and loaded for shipping.

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

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







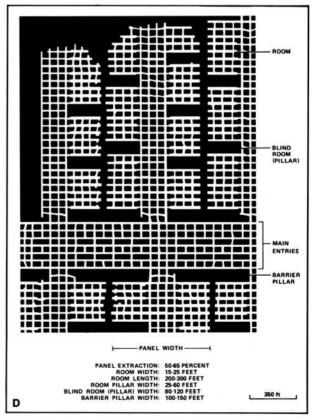
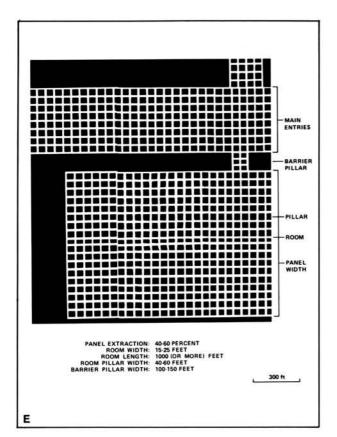
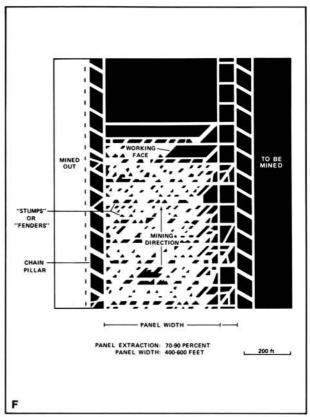
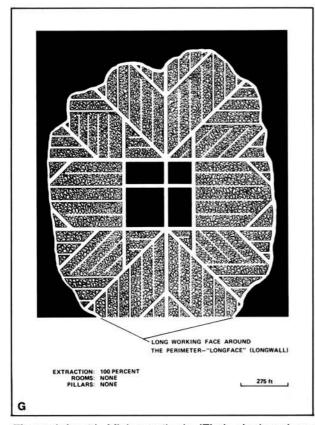


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).







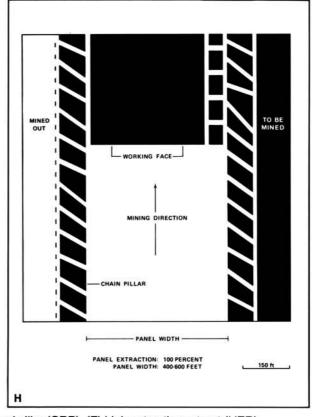
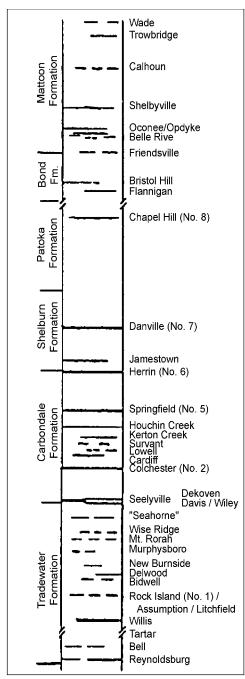


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall



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

### INTERPRETING A MINE SUMMARY SHEET

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

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

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

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

### SHAFT, SLOPE, DRIFT OR TIPPLE LOCATIONS

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

### **GEOLOGY**

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

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

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

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

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

### **PRODUCTION HISTORY**

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

### SOURCE OF DATA

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

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

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

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

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

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

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

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

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

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

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

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

### **REFERENCES**

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

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

### PART II DIRECTORY OF MINES IN THE NOKOMIS QUADRANGLE

### **MINE SUMMARY SHEETS**

A summary sheet on the geology and production history of each mine in the Nokomis 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 194

### Indiana & Illinois Coal Corporation, Indiana & Illinois No. 10 Mine

Type: Underground Total mined-out acreage shown: 2,381

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage
Main shaft (10'x26.67')	Montgomery	10N 2W	10	SE NW NE
Air/escape shaft (10'x15')	Montgomery	10N 2W	10	NW SE NE

### **GEOLOGY**

		I hi	ckness (f	it)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Ave	Method	
Herrin	635-646			7.0-8.5	RPP	

Geologic Problems Reported: Two areas of faulting were noted on the source map, one in NW NE NW 3-T10N-R2W and the other in W ½ NW NW 2-T10N-R2W. Top coal (18 to 24 inches) was left to support the black shale roof. The coal had a few small slips that had little effect on mining; the floor clay also had slips. The underclay heaved on the north side of the mine.

### **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
Peabody Coal Company	Peabody No. 10, Nokomis	1906-1915	1,425,958	
C. & E. I. Coal Properties	C. & E. I. No. 10	1915-1918	1,971,447	
Illinois Coal Properties	Illinois Coal Properties No. 10	1918-1919	495,248	
Indiana & Illinois Coal Corporation	Indiana & Illinois No. 10	1919-1939	10,309,789	
			14,202,442	

Last reported production: April 1939

### **SOURCES OF DATA**

		Original	Digitized		
Source Map	Date	Scale	Scale	Map Type	
Microfilm, document 352583	6-1-1939	1:2400	1:5462	Final	

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

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

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

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

Microfilm map, document 352583, reel 03139, frames 384-387 - Shaft locations, mine outline, mining method geologic problems.

## Mine Index 195 Nokomis Coal Company, Reliance Mine

Type: Underground Total mined-out acreage shown: 2,966

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft (11.42'x17.42	') Montgomery	10N 2W	27	SE SW NW
Air shaft (11.42'x17.42')	Montgomery	10N 2W	27	NW SW NW

### **GEOLOGY**

				t)	iviining	
Seam(s) Mined	Depth (ft)	Min	Max	Ave	Method	
Herrin	638-659	7.0	9.0	7.5-8.5	RPP	

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<u>Geologic Problems Reported</u>: A squeeze in SW NE 21-T10N-R2E caused the abandonment of a panel. Other panels in the area are labeled "approximate", and it is possible that squeezes in this part of the mine prevented surveying.

### **PRODUCTION HISTORY**

			Production
Company	Mine Name	Years	(tons)
Nokomis Coal Company	Nokomis No. 1	1913-1922	4,524,108
Illinois Coal Corporation	Illinois Coal No. 9	1922-1935 *	1,491,286
Nokomis Coal Company	Reliance	1936-1952	11,841,498
			17,856,892

<sup>\*</sup> Idle 1925-1935

Last reported production: July 1952

### **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Map Type
State Archive, MSHA_422	6-1944	1:1244	1:2400	Not final **
State Archive, IL_1758	6-1-1954	1:2400	1:2400	Final
State Archive, MSHA_432	6-1-1947	1:2400	1:2400	Not final **

<sup>\*\*</sup> The most recent mining took place in the southern portion of the mine. Although the northern portions are from maps dated before mine closure and are coded "not final" on the accompanying map, the outline is considered to be a final mine outline, and tonnage and the area mined after the map date were not calculated.

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

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

Directory of Illinois Coal Mines (Montgomery County) - Mine names, mine index, ownership, years of operation.. Mine notes (Montgomery County) - Mine type, shaft location, seam, depth, thickness.

State Archive, MSHA\_422, courtesy of Robert Gibson, IDNR - Mine outline (north half), mining method, geologic problems.

State Archive, IL\_1758, courtesy of Robert Gibson, IDNR - Shaft locations, mine outline (south half).

State Archive, MSHA 432, courtesy of Robert Gibson, IDNR - Partial outline (north half).

# Mine Index 196 Indiana & Illinois Coal Corporation, Indiana & Illinois No. 12 Mine

Type: Underground Total mined-out acreage shown: 741 Production indicates approximately 13 acres were mined after the map date.

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Montgomery	9N 2W	6	NE NW SE
Air shaft	Montgomery	9N 2W	6	SE NW SE

### **GEOLOGY**

		Thi	ckness (f	t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Ave	Method	
Herrin	549-568			6.0-8.0	RPP	

<u>Geologic Problems Reported</u>: At least one roll was seen in this mine. The roof was clod, up to 1.5 inches thick, with black shale above. An unknown thickness of top coal was left to keep the roof shale up. The coal contained a few small slips, with maximum displacement of 6 inches. The underclay heaved in some places.

### **PRODUCTION HISTORY**

			Production
Company	Mine Name	Years	(tons)
Montgomery Coal Company	Montgomery	1897-1904	629,599
Dering Coal Company	Dering No. 25	1904-1905	161,313
Burnwell Coal Company	Burnwell No. 24	1905-1912	1,789,673
Peabody Coal Company	Peabody No. 12	1912-1917 *	442,736
C. & E. I. Coal Properties	C. & E. I. No. 12	1917-1918	509,684
Illinois Coal Properties	Illinois Coal No. 12	1918-1919	162,094
Indiana & Illinois Coal Corporation	Indiana & Illinois No. 12	1919-1923	802,318
Indiana & Illinois Coal Corporation	Indiana & Illinois No. 12	1923-1925 **	79,797 ***
			4,577,214

<sup>\*</sup> Idle 1915-1917

Last reported production: February 1925

### **SOURCES OF DATA**

		Original	Digitized		
Source Map	Date	Scale	Scale	Map Type	
Microfilm, document 352586	1-27-1923	1:2400	1:4966	Not final	

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

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

Directory of Illinois Coal Mines (Montgomery County) - Mine names, mine index, ownership, years of operation. Mine notes (Montgomery County) - Mine type, seam, depth, geological problems.

Microfilm map, document 352586, reel 03139, frames 395, 396 - Shaft locations, mine outline, mining method. State Archive, MSHA\_434, courtesy of Robert Gibson - Shaft locations.

<sup>\*\*</sup> Idle 1924

<sup>\*\*\*</sup> Production after map date

### Mine Index 335 Indiana & Illinois Coal Corporation, Indiana & Illinois No. 14 Mine

Type: Underground Total mined-out acreage shown: 723 Production indicates approximately 50 acres were mined after the map date.

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Montgomery	10N 2W	32	NW SW NW *
Air shaft	Montgomery	10N 2W	32	NW SW NW *

<sup>\*</sup> There were no shaft locations shown on the source map. The workings shown on the source map were examined and points were placed at the most likely locations for both the main shaft and the air shaft based on the configuration of the workings and the surface buildings.

### **GEOLOGY**

		Thi	ckness (f	t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Ave	Method	
Herrin	576			8.0-8.5	RPP	

Geologic Problems Reported: Occasional pockets of gas were found in the coal.

### **PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Burnwell Coal Company	Burnwell No. 22	1907-1911	775,675
Peabody Coal Company	Peabody No. 14	1911-1915	1,502,833
C. & E. I. Coal Properties	C. & E. Í. No. 14	1915-1918	1,859,438
Illinois Coal Properties	Illinois No. 14	1918-1919	303,438
Indiana & Illinois Coal Corporation	Indiana & Illinois No. 14	1919-1920	142,173
Indiana & Illinois Coal Corporation	Indiana & Illinois No. 14	1920-1921	309,327 **
·			4,892,884

<sup>\*\*</sup> Production after map date

Last reported production: April 1921

### **SOURCES OF DATA**

		Original	Digitized		
Source Map	Date	Scale	Scale	Map Type	
Microfilm, document 352587	4-1920	1:2400	1:4634	Not final	

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

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

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

Mine notes (Montgomery County) - Shaft location, depth, thickness, geologic problems.

Microfilm map, document 352587, reel 03139, frames 397-400 - Shaft locations, mine outline, mining method.

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