

Coal Mines in Illinois  
Marquette Heights Quadrangle

## Tazewell County, Illinois

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

## Mining Method

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

## Other Areas Depicted

- Non-Coal Mines

## Source of Mine Outline

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

## Tipple, Shaft, Slope, Drift Locations

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

Mine Annotation  
(space permitting)

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 <https://www.isgs.illinois.edu> for the most up-to-date version of these products.

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

The maps and digital files used for these studies were compiled from data obtained from a variety of public and private sources and have varying degrees of completeness and accuracy. This compilation map presents reasonable interpretation of the geology of the area and is based on available data. Locations of some mine features may be offset by 500 feet or more due to errors in the original source maps, the compilation process, digitizing, or a combination of these factors. These data are not intended for use in site-specific screening or decision-making. Use of these documents does not eliminate the need for detailed studies to fully understand the geology of a specific site. The Illinois State Geological Survey, Prairie Research Institute, or the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this data set and accept no liability for the consequences of decisions made by others on the basis of the information presented here.

These maps were designed for use at 1:24,000. Enlarging the map may reduce accuracy, as the original scale of the source maps used to compile the outlines shown varies from 1:400 to 1:150,000, and some mine locations are known only from text descriptions. See the accompanying mine directory for the original scale of the source map used for a specific mine to check accuracy of a given portion of the map. Areas with no mines shown may still be undermined; see the unlocated mines list at the back of each mine directory.

The image of the U.S.G.S. topographic base map was projected from the original UTM to Lambert Conformal Conic.

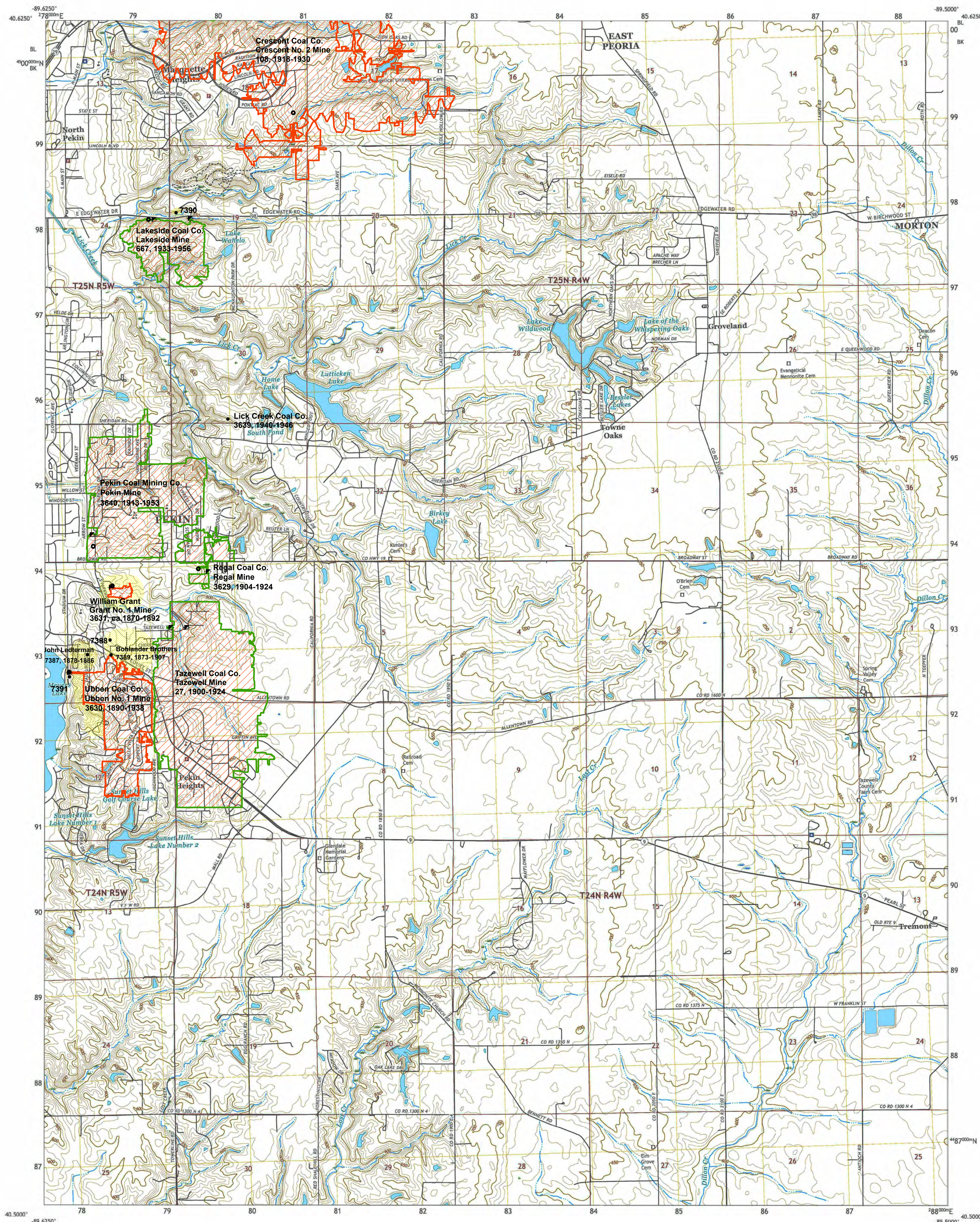
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Mine Outlines Compiled by  
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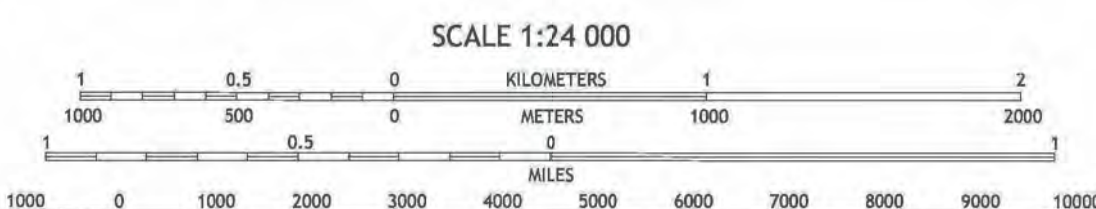
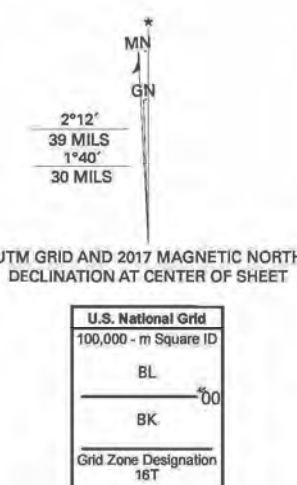
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Imagery.....NAP, August 2015 - October 2015  
Roads.....U.S. Census Bureau, 2017  
Names.....GNIS, 1980 - 2016  
Hydrography.....National Hydrography Dataset, 2006 - 2015  
Contours.....National Elevation Dataset, 2012  
Boundaries.....Multiple sources; see metadata file 2014  
Public Land Survey System.....BLM, 2017  
Wetlands.....FWS National Wetlands Inventory 1986



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

1 Peoria West  
2 Peoria East  
3 Washington  
4 Pekin  
5 Morton  
6 South Pekin  
7 Delavan North  
8 Hopewell

MARQUETTE HEIGHTS, IL  
2018





# **DIRECTORY OF COAL MINES IN ILLINOIS**

## **7.5-MINUTE QUADRANGLE SERIES**

### **MARQUETTE HEIGHTS QUADRANGLE**

#### **TAZEWELL COUNTY**

Jennifer M. OBrad & C. Chenoweth



2010  
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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.

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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 MARQUETTE HEIGHTS QUADRANGLE**

Mining was taking place southeast of the town of Pekin before 1857, and the 1873 atlas shows 3 separate mine locations east and southeast of Pekin. Mining in the Marquette Heights Quadrangle ended in 1956 when Lakeside Mine (mine index 667) closed. In 20-T24N-R4W, a shaft was driven 85 feet down, but was abandoned because of problems dealing with the water seeping into the shaft.

The Springfield Coal was mined. Horsebacks were common, and coal balls were noted. In some mines, a sandstone above the coal seeped water. Other mines had difficulty with clod that stuck to the coal (making a dirty product or slowing production by requiring hand sorting and cleaning). Pyrite was common.

Two mines operated 40 years or more: Ubben No. 1 Mine (mine index 3630) from 1890 to 1938 and Pekin Mine (mine index 3640) from 1913 until 1953.

## 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

Andreas, A. T., 1873, Atlas Map of Tazewell County, Illinois: Davenport, Iowa, Andreas, Lyter & Co., 165p.

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.

Chapman, C. & Co., editors, 1879, History of Tazewell County, Illinois, printed by J. W. Franks & Sons, Peoria, Illinois, 794p.

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.

King, T., Jr., 1857, Tazewell County Map, Tazewell County Genealogical & Historical Society, from <http://www.tcghs.org/map1857.htm>

Ogle, G. A. & Co., 1891, Plat Book of Tazewell County, Illinois, Chicago: Occidental Publishing Company, 101p.



## PART II DIRECTORY OF MINES IN THE MARQUETTE HEIGHTS QUADRANGLE

### MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Marquette Heights 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 27

#### Tazewell Coal Company, Tazewell Mine

Type: Underground    Total mined-out acreage shown: 596

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft *	Tazewell	24N 4W	6	SW SW NW
Shaft *	Tazewell	24N 5W	1	SE SE NE

\* It is not clear on the source map which shaft is the hoist and which is the air shaft.

### GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Springfield	162	4.3	4.8	4.6	RPP

**Geologic Problems Reported:** The limestone caprock was 1.5 to 2.0 feet above the coal, and was only solid locally, averaging 7 inches thick. Below the limestone was 1 foot of clod and 1 foot of massive black shale that stuck to the coal. Some coal balls were present, fewer than other mines in the area. These coal balls were fairly large, 5 by 24 inches. Thin pyrite lenses were common the lower part of the shale. Horsebacks were numerous, averaging 15 to 20 feet apart. Pyrite was heavier near the horsebacks, generally occurring as soft "brown sulphur". Thin clay seams were also present in the coal. The floor was 2 feet of fire clay that heaved badly when exposed to air and more so when wet. The mine was generally dry.

### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Ubben Coal Company	Ubben	1900-1903	58,800
Tazewell Coal Company	Tazewell, Big Four	1903-1924	<u>2,030,532</u>
			2,089,332

Last reported production: March 1924

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352855	5-1-1924	1:2400	1:4303	Final
Company, 4103.T3 i5.1-5	5-1-1924	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 (Tazewell County) - Mine names, mine index, ownership, years of operation.

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

Microfilm map, document 352855, reel 03140, frames 472 & 473 - Mine outline, shaft locations, mining method.

Company map, ISGS map library, 4103.T3 i5.1-5 - Mine outline (southern).



**Mine Index 108****Crescent Coal Company, Crescent No. 2 Mine**

Type: Underground Total mined-out acreage shown: 1,260 Production indicates approximately 10 acres were mined after the map date. The boundary between Crescent No. 2 and Groveland No. 1 Mine (mine index 810) could not be discerned. The outline shown on the accompanying map includes both mines, but Groveland No. 1 is generally in the northwestern portion of the outline and is not included in the Marquette Heights Quadrangle map or directory. (See Peoria East Quadrangle for more information on Groveland No. 1 Mine.)

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Tazewell	25N 4W	18	NE NE NE
Air shaft	Tazewell	25N 4W	18	NE SE SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Springfield	165	3.8	4.75	4.33	RPP

Geologic Problems Reported: A heavy sandstone with a very uneven lower surface was persistent from 1 to 10 feet above the coal. This sandstone contained a great deal of water and the mine was consequently very wet. The sandstone eroded the coal in two areas of the mine, one for a distance of 90 feet. Some minor faulting was noted, generally associated with horsebacks, which were numerous in the southwestern part of the mine. Some horsebacks were 1 foot across and extended 2 feet into the seam. The upper 1.5 feet of the coal had pyrite present as fracture facings and lenses (1 by 3 inches). The underclay was over 8 feet thick and heaved in the old workings.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Groveland Coal Mining Company	Groveland No. 2	1918-1925	2,248,872
Crescent Coal Company	Crescent No. 2	1925-1928	706,011
Crescent Coal Company	Crescent No. 2	1928-1930	46,249 *
			3,001,132

\* Production after map date

Last reported production: August 1930

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, MSHA_670_03	1-1-1930	1:2400	1:2400	Not final
Company, PB_902_03	1-1-1927	1:2400	1:2400	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

State archive map, MSHA\_670\_03 - Mine outline (southern, northeastern & eastern), shaft, southern air shaft, mining method.

State archive map, PB\_902\_03 - Mine outline (northwestern), slope & western air shafts locations.



**Mine Index 667**  
**Lakeside Coal Company, Lakeside Mine**

Type: Underground    Total mined-out acreage shown: 131

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Tazewell	25N 5W	24	NW NE SE
Air shaft	Tazewell	25N 5W	24	NW NE SE
Escape slope	Tazewell	25N 4W	19	NE NW SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Springfield	67-75			4.67	RPP, some MRP

Geologic Problems Reported: Numerous horsebacks were reported. The source map showed areas of bad top in the central portions of the southern part of the mine.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Lakeside Coal Company	Lakeside	1933-1956	<u>480,236</u> 480,236

Last reported production: September 1956

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352863	2-4-1957	1:2400	1:2979	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Microfilm map, document 352863, reel 03140, frame 460 - Shaft & slope locations, mine outline, mining method, geologic problems.



**Mine Index 3629**  
**Regal Coal Company, Regal Mine**

Type: Underground    Total mined-out acreage shown: 51

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Tazewell	24N 4W	6	NE NW NW
Air shaft	Tazewell	24N 4W	6	NE NW NW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Springfield	204			4.67	RPP

Geologic Problems Reported: Above the coal was 1 foot of black shale, then 1 foot of clod (a massive dark gray shale), then 6 to 8 inches of limestone that was not persistent. Numerous horsebacks were present in the seam. Bands of soft "brown sulphur" were common near the horsebacks.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Chapman & Petrie Coal Company	Chapman & Petrie	1904-1905	4,758
Champion Coal Company	Champion	1905-1915	111,176
Pekin Coal Company	Pekin No. 1	1915-1917 *	7,015
Johnston City – Big Muddy Coal Company	Johnston City – Big Muddy No. 3	1917-1920	38,255
Regal Coal Company	Regal	1920-1924	<u>81,280</u>
			242,484

\* Idle 1917

Last reported production: March 1924

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352856	5-1-1924	1:2400	1:2979	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type.  
 Directory of Illinois Coal Mines (Tazewell County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Tazewell County) - Shaft location, seam, depth, thickness, geologic problems.  
 Microfilm map, document 352856, reel 03134, frame 474 - Shaft locations, mine outline, mining method.



**Mine Index 3630****Ubben Coal Company, Ubben No. 1 Mine**

Type: Underground Total mined-out acreage shown: 197 The area shown on the accompanying map is smaller than expected for the reported production. The production indicates approximately 266 acres were mined, with another 14 acres mined after the map date. A general area of mining was added on the western side of the mine, which the source map indicated was worked out. Another general area of mining is shown on the accompanying map where the source map indicated a separate old mine whose works were not known or the extent delineated. Some of this area is known to be the Bohlander Mine (mine index 7389), but other operators may have worked in the vicinity. (See the unlocated mines at the back of this report.)

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Tazewell	24N 5W	1	NE SW SW
Air shaft	Tazewell	24N 5W	1	NE SW SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Springfield	95			4.83	RPP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Louis Grant & Sons	Grant No. 2	1890-1894	41,415
Grant Brothers	Grant No. 2	1894-1895	9,300
L. Grant & Sons	Grant	1895-1900	86,685
Grant Brothers	Grant	1900-1902	23,799
L. Grant & Sons	Grant	1902-1904	16,800
Grant Brothers	Grant	1904-1910	111,051
Ubben Coal Company	Ubben No. 1	1910-1936	868,402
Ubben Coal Company	Ubben No. 1	1936-1938	59,744 *
			1,217,196

\* Production after map date

Last reported production: April 1938

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352854	1-7-1936	1:2400	1:4634	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.  
 Directory of Illinois Coal Mines (Tazewell County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Tazewell County) - Mine type, shaft location, seam, depth, thickness.  
 Microfilm map, document 351418, reel 03136, frame 53 - Shaft locations, mine outline, mining method.

**Mine Index 3631**  
**William Grant, Grant No. 1 Mine**

Type: Underground    Total mined-out acreage shown: 7    Production indicates approximately 40 acres were mined after the map date.

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Tazewell	24N 5W	1	SW NW NE
Air shaft	Tazewell	24N 5W	1	SW NW NE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Springfield	120			4.0-4.5	RP

Geologic Problems Reported: The 1884 Coal Report indicated black damp (carbonic acid gas) problems from the extensive old works.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
David M. Alexander	Hope	ca. 1870-1880	Unknown *
David M. Alexander	Hope	1880-1884	50,020 **
Louis Grant & Sons	Grant No. 1	1884-1891	89,219 **
William Grant	Grant No. 1	1891-1892	<u>15,600</u> **
			154,839

\* Production prior to 1882 is unknown. The 1884 Coal Report stated that the mine began operating 14 years previously. In 1882, the main entry was 1,350 feet long, indicating substantial production before the Coal Reports were published. A mine was shown on the 1873 atlas at the location noted above.

\*\* Production after map date

Last reported production: 1892

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
State archive, IL_1821	4-30-1880	1:1200	1:1200	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness, geologic problems.  
 Directory of Illinois Coal Mines (Tazewell County) - Mine names, mine index, ownership, years of operation.  
 State archive, IL\_1821 - Shaft locations, mine outline, mining method.  
 Andreas, A. T., 1873, Atlas Map of Tazewell County, Illinois - Shaft location.



**Mine Index 3639****Lick Creek Coal Company, Lick Creek Mine**

Type: Underground    Total mined-out acreage shown: None; production indicates approximately 1 acre was mined.

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

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Tazewell	25N 4W	30	SE SE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Springfield	200			5.0	Underground

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Lick Creek Coal Company *	Lick Creek	1940-1946	<u>4,090</u> 4,090

\* According to the mine notes, Lick Creek Coal Company was operated by B. Crociani & Sons.

Last reported production: 1946

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	(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)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Tazewell County) - Mine type, slope location, seam, depth, thickness.

**Mine Index 3640**  
**Pekin Coal Mining Company, Pekin Mine**

Type: Underground    Total mined-out acreage shown: 380

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Tazewell	25N 5W	36	NE SE SW
Air shaft	Tazewell	25N 5W	36	SE SE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Ave	
Springfield	100			4.5-4.83	RPP

Geologic Problems Reported: Coal balls were abundant in the black shale above the coal.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Grant Brothers	Grant	1913-1913	500
William Grant & Sons	Grant	1913-1914	4,500
David Grant	Grant	1914-1925	94,753 *
Grant Brothers	Grant	1925-1925	2,770
David Grant Coal Company	Grant	1926-1936	125,883
Pekin Mining Company	Pekin	1936-1937	73,365
Fred Schaefer, Jr.	Schaefer	1938-1938	64,910
Pekin Coal Mining Company	Pekin	1939-1953	1,007,136
			1,373,817

\* Production not reported in 1922 for mines producing less than 10,000 tons

Last reported production: 1953

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352861	3-17-1953	1:2400	1:4800	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, thickness.  
 Directory of Illinois Coal Mines (Tazewell County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Tazewell County) - Mine type, shaft location, seam.  
 ISGS field notes (Tazewell County) - Depth, geologic problems.  
 Microfilm map, document 352861, reel 03140, frame 488 - Shaft locations, mine outline, mining method.



**Mine Index 7387**  
**John Ledterman, Empire Mine**

Type: Underground    Total mined-out acreage shown: None; production indicates approximately 24 acres were mined.

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Tazewell	24N 5W	1	NE SW *

\* The location is from the land ownership on the 1873 atlas, combined with the 1885 Coal Report discussion of the mine, in which the location was stated to be adjacent to the Rundle Mine (mine index 7389). It is possible that Ledterman's mine may have been the mine shown on the 1873 atlas and subsequently named mine index 7388. An escapement shaft is known from the 1885 Coal Report, located 300 feet from the hoisting shaft. Because the direction is not known and the shaft location is very general, the escape shaft is not shown on the accompanying map.

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	90-100			4.0-4.5	RP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
John Ledterman	Empire	1878-1886 **	90,332 **
			90,332

\*\* Production and years of operation before the 1879 Coal Report is not known. The mine may have operated after 1886 as well. See the unlocated mines at the back of this report; Pekin Coal Association may have operated at this location.

Last reported production: 1886

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Atlas Map of Tazewell County	1873	1:9457	1:9457	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness, mining method.  
 Directory of Illinois Coal Mines (Tazewell County) - Mine names, mine index, ownership, years of operation.  
 Andreas, A. T., 1873, Atlas Map of Tazewell County, Illinois - Shaft location.

**Mine Index 7389**  
**Bohlander Brothers, Bohlander Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 40 acres were mined. A general area of mining is shown on the accompanying map to indicate the approximate size, but although old works were labeled on the source map for the Ubben No. 1 Mine (mine index 3630), other mines may have operated in the vicinity (see the unlocated mines at the back of this report).

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Tazewell	24N 5W	1	SW NW SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Springfield	120-135			4.0-5.0	RP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
William Rundle	Rundle	1873-1879 *	4,696 *
Rundle & Gould	Victor	1881-1885	22,392
William Rundle	Rundle	1885-1890	28,392
Bohlander Brothers	Bohlander	1890-1907	86,372
			141,852

\* The shaft location was shown on the 1873 plat map. Years of operation before 1873 are not known, and production is not known before June 1878. The 1882 Coal Report indicated 6 acres were mined.

Last reported production: 1907

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Atlas Map of Tazewell County	1873	1:9457	1:9457	Secondary source
Microfilm, document 352854	1-7-1936	1:2400	1:4634	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness, mining method.  
 Directory of Illinois Coal Mines (Tazewell County) - Mine names, mine index, ownership, years of operation.  
 Andreas, A. T., 1873, Atlas Map of Tazewell County, Illinois - Shaft location.  
 Microfilm map, document 352854, reel 03140, frame 471, map of Ubben No. 1 Mine (mine index 3630) - General area of mining.



## OTHER MINES SHOWN ON MARQUETTE HEIGHTS QUADRANGLE

Mine Index 7388 NW NW SE 1-T24N-R5W, underground mine source: Atlas Map of Tazewell County (1873)  
Mine Index 7390 SW SW NW 19-T25N-R4W, drift source: ISGS field notes (T. B. Root, H. R. Wanless, 1931) &  
Plat Book of Tazewell County (1891)  
Mine Index 7391 NE SW SW 1-T24N-R4W source: Map of Tazewell County (1857)

## MINES WHOSE LOCATIONS ARE NOT KNOWN, MARQUETTE HEIGHTS 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 Marquette Heights 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 104,990 (all underground mines), which would represent approximately 20 to 30 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

### PEKIN

McDugle (John), 1878-1879, shaft, —, 60, 4.0	200 tons
Stoner (Martin), 1878-1879, shaft, —, 85-88, 4.0-4.5	2,000 tons
Baxter (George), 1881-1882	<u>50 tons</u>
	2,050 tons
Dissman (G. D.), Union Mine, 1881-1886, shaft, Springfield, 95, 4.0-4.5, RP	5,396 tons
Morritz (August), 1886-1888	<u>5,400 tons</u>
	10,796 tons
Pekin Coal Association, 1886-1888, shaft, Springfield, 99, 4.33, RP	6,145 tons
Beidler & Heims, 1888-1889	480 tons
Shaw (James), 1888-1889, shaft, Springfield, 100, 4.0, RP	610 tons
Mack (Jesse), 1889-1893	<u>3,260 tons</u>
	3,870 tons
King & Grosweiler, 1897-1900, shaft, Springfield, 100-130, 4.0-5.17, RP	3,000 tons
King & Pfanz, 1900-1901	3,900 tons
King & Grosweiler, 1901-1902	12,500 tons
Grosweiler & Company, 1902-1905	<u>42,150 tons</u>
	61,550 tons
Lea (John) & Bloomer, 1932-1932, underground	19,899 tons

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