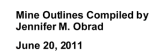


This map accompanies the Coal Mines Directory for the Port Byron Quadrangle. Consult the directory for a complete explanation of the information shown on this map.



DIRECTORY OF COAL MINES IN ILLINOIS

7.5-MINUTE QUADRANGLE SERIES

PORT BYRON QUADRANGLE

ROCK ISLAND & HENRY COUNTIES

Jennifer M. Obrad & C. Chenoweth



2011

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

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

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

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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 PORT BYRON QUADRANGLE

The Rock Island Coal was mined in the Port Byron Quadrangle, generally in small drift mines or from shallow shafts. Taylor Williams had the most extensive operations, running surface mines and then drifting into the hillsides (the locations of these drifts are unknown) as well shafts, including Mine Indexes 4895, 4921 (Cox Shaft), 4937 (Crouch Shaft), 4951, and 5399, mining almost 500 acres in total. Mine index 4895 closed most recently, being abandoned in 1889. Most of the mines that operated in the Port Byron Quadrangle are little known, with the dates of production and even the ownership being uncertain. The last known operating mine was the Cook Mine (Mine Index 4936), which closed in 1898. However, Happy Hollow (15 & 22-T18N-R1E) is partially included on this quadrangle, and some mines may have operated during the Great Depression of the 1930s.

Perhaps the strangest circumstance of mining in the vicinity was at Cleveland in Henry County. In spite of all the nearby competition, coffer dams were built in order to pump the water out and mine coal from the bed of the of the south side of the Rock River (Mine Index 5619). The years of operation, ownership, and production are unknown.

PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET

INTERPRETING THE MAP

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

Mine Type and Mining Method

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

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

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

Room and Pillar - mining is divided into six categories:

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

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

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

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

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

SOURCE MAPS

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

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

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

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

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

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

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

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

POINTS AND LABELS

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

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

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

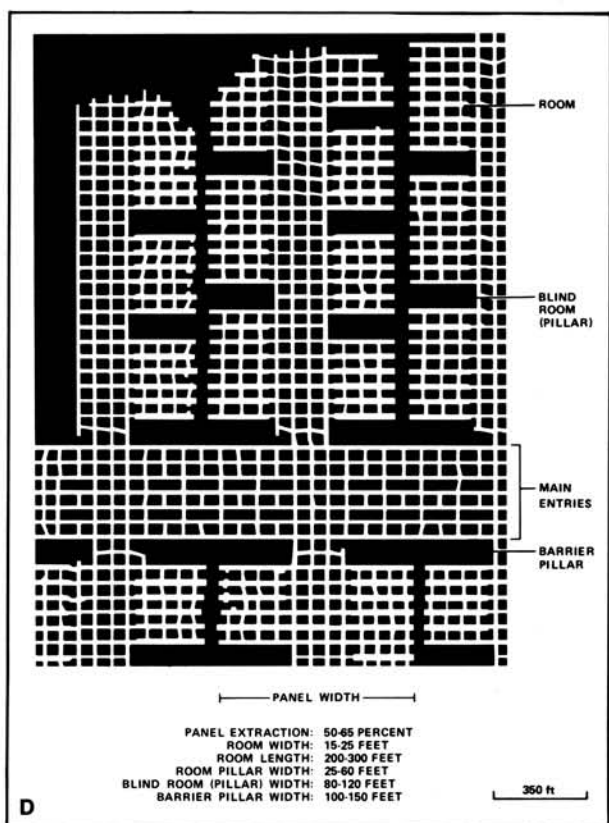
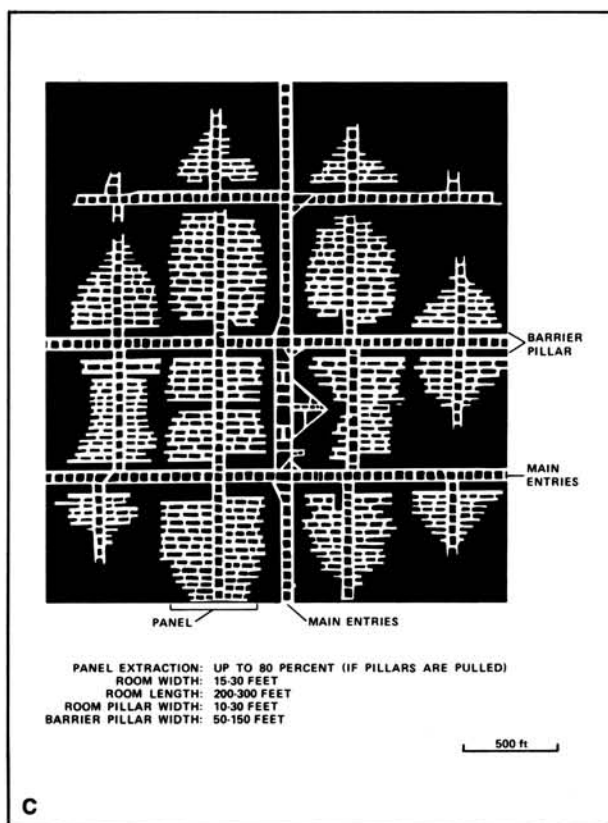
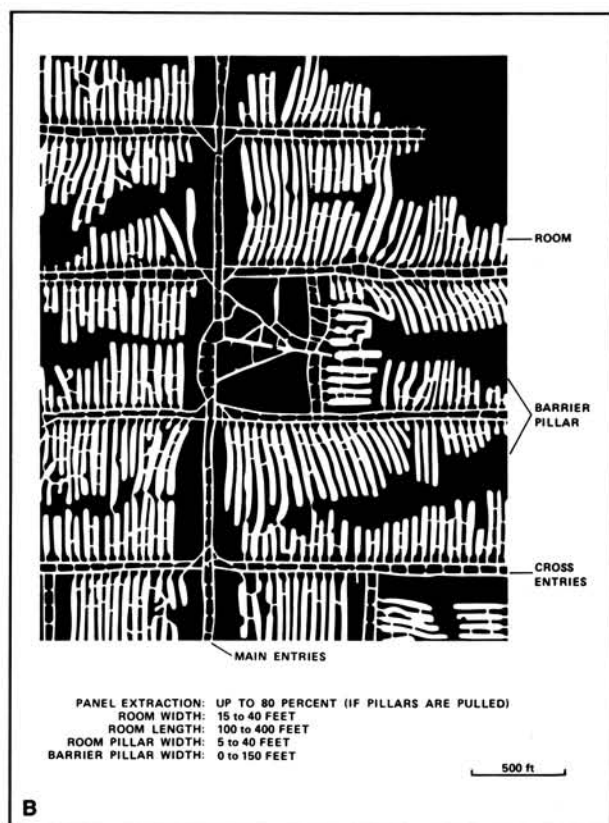
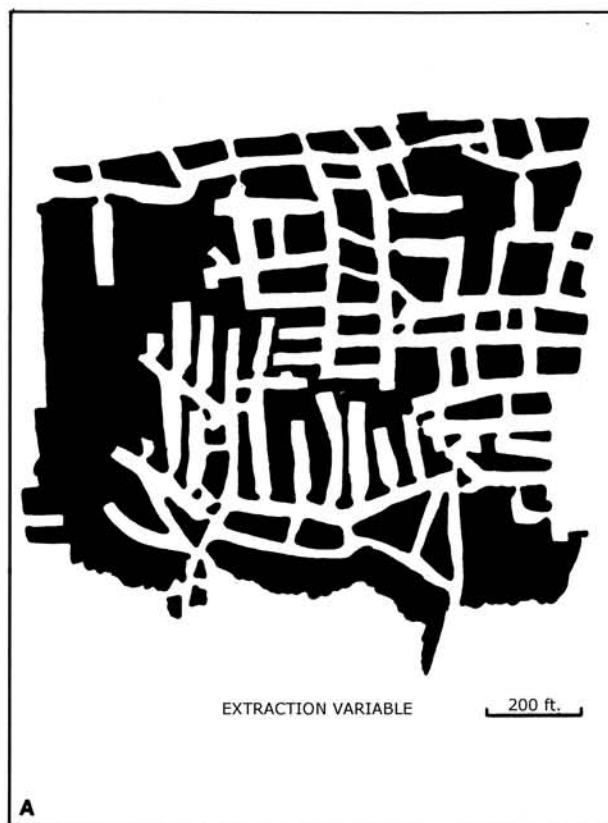


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).

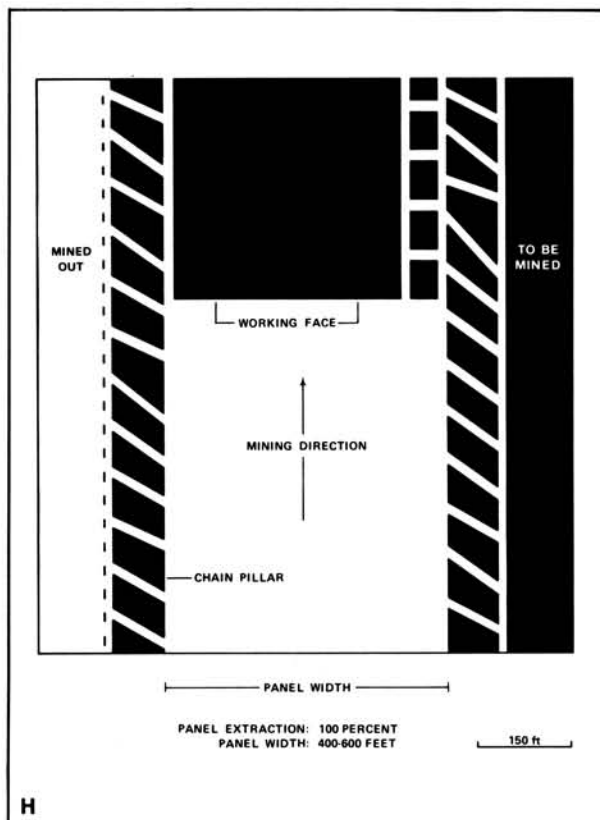
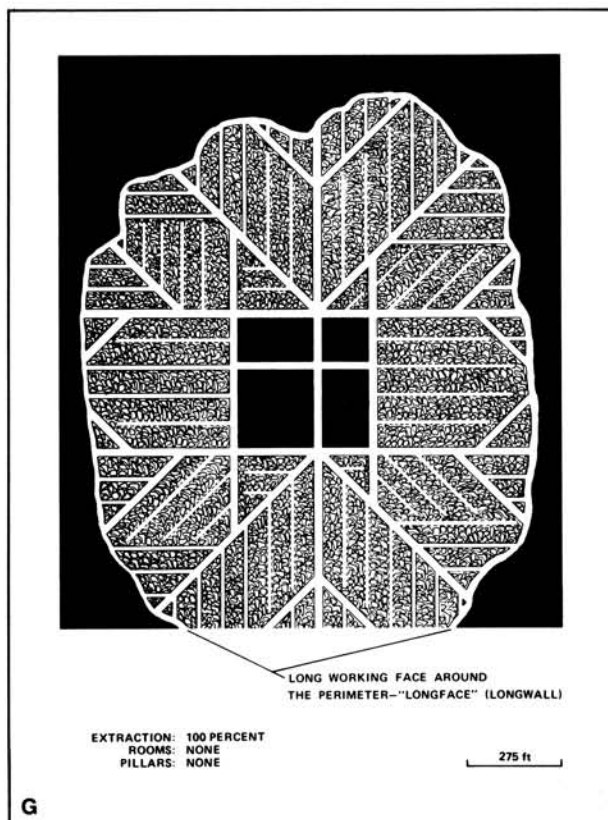
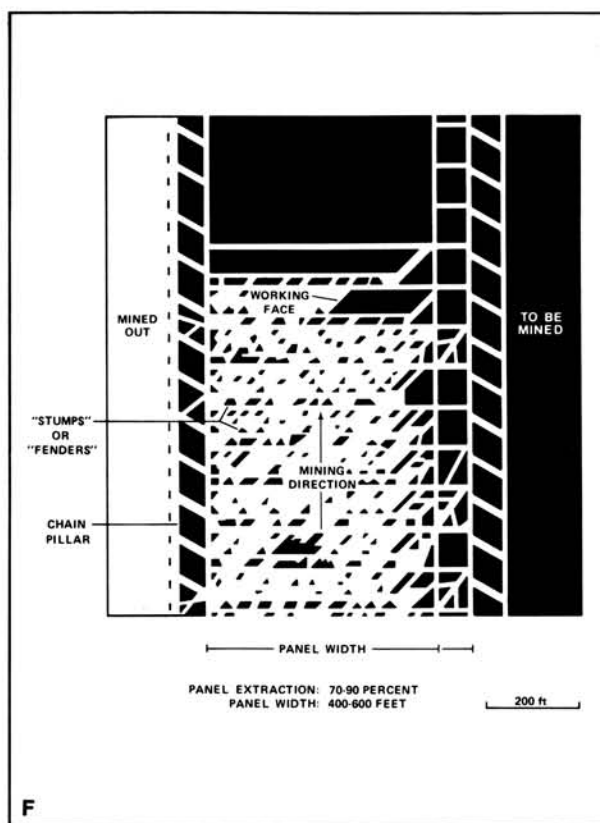
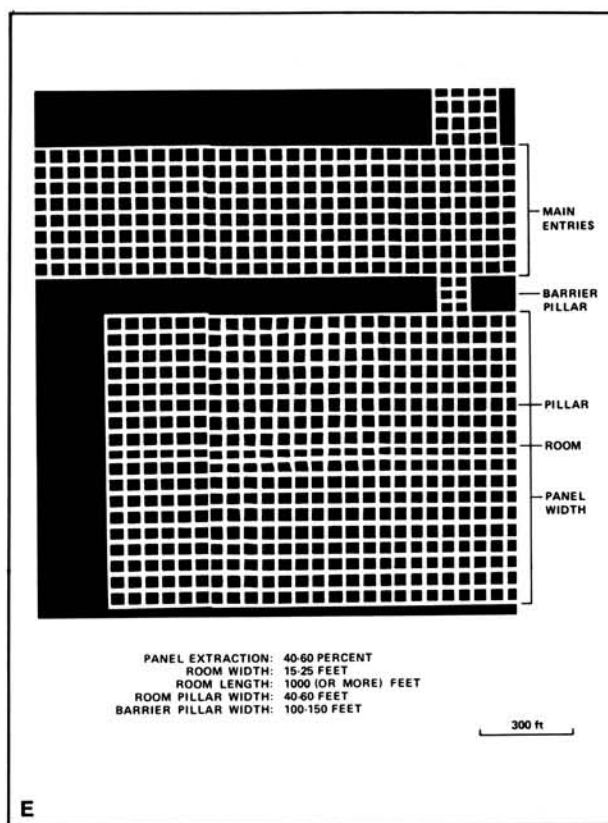


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall

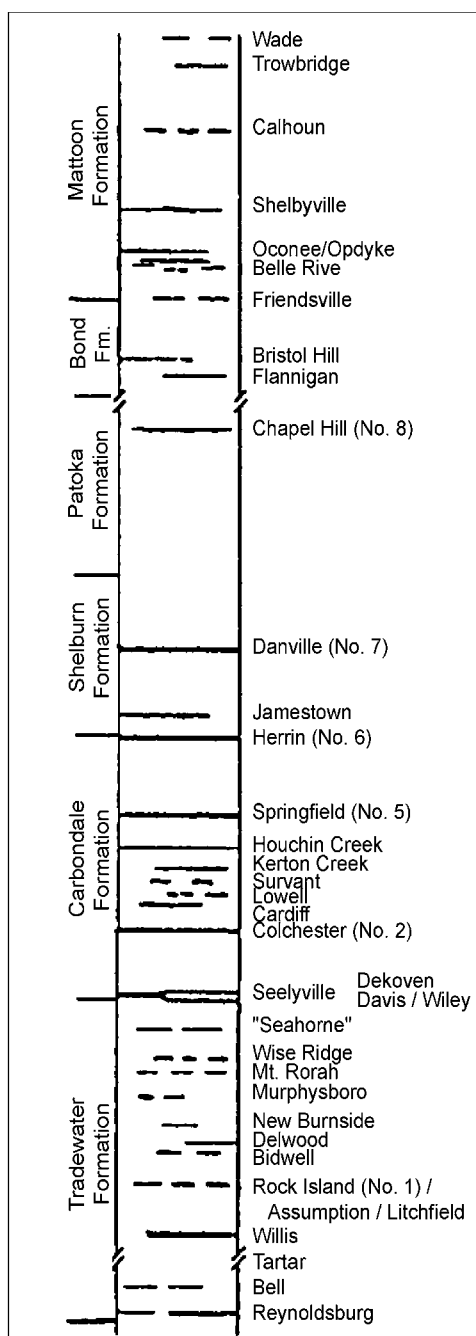


Figure 2 Generalized stratigraphic section, showing approximate vertical relations of coals in Illinois.

INTERPRETING A MINE SUMMARY SHEET

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

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

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

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

SHAFT, SLOPE, DRIFT OR TIPPLE LOCATIONS

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

GEOLOGY

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

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

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

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

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

PRODUCTION HISTORY

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

SOURCE OF DATA

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

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

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

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

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

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

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

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

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

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

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

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

REFERENCES

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

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

Heagy, M. S., 1936, Recollections of My Old Home Town, Reprinted by Hampton Historical Company, Publication No. 2, 1975, 19p.

North West Publishing, 1894, Plat Book of Rock Island County, Illinois, 74p.

Warner & Beers (publishers), 1875, Atlas of Henry County and the State of Illinois, Chicago, Illinois, 93p.

PART II DIRECTORY OF MINES IN THE PORT BYRON QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Port Byron 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 4895

Taylor Williams, Williams Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 150 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft *	Rock Island	18N 1E	1	SE SW

* Field notes for the area (J. M. Weller, 1927; C. G. Ball, undated; H. E. Culver, 1921-1924) indicated there were many shafts and "very old" mine dumps in the area. These may be shafts and dumps of other, very small mines, or they may be other entrances to the Williams Mine. The locations of these old shafts were rather general, but will be included within the general area of mining shown on the accompanying map.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	80-120			4.0-4.5	RP, HER **

** The 1884, 1885 and 1887 Coal Reports stated that the reserves were exhausted and the miners were occupied with drawing pillars.

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Taylor Williams	Williams	1872-1889 ***	572,183 572,183

*** Production before 1881 is unknown. The 1882 Coal Report indicated 100 acres were mined.

Last reported production: 1889

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Atlas of Rock Island County	1876	1:158400	1:158400	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 (Rock Island County) - Mine names, mine index, ownership, years of operation.
Mine notes (Rock Island County) - Mine type, shaft location, seam, depth, thickness.
Atlas of Rock Island County, 1876 - Shaft location.

Mine Index 4904**H. Gilchrist & Company, Gilchrist Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 15 acres were mined, and the 1882 Coal Report indicated an additional 50 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Rock Island	18N 1E	2	NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	120			4.0-4.5	

Geologic Problems Reported: The mine was abandoned because of the poor quality of the coal.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
H. Gilchrist	Gilchrist	1872-1883 *	58,101 58,101

* The 1882 Coal Report indicated 50 acres were mined.

Last reported production: December 1883

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section mine database	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

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

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

Mine Index 4936
James M. Cook, Cook 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 shaft	Rock Island	18N 1E	15	NE NW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	50-75			3.0-3.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
James M. Cook	Cook	1894-1898	<u>3,260</u> 3,260

Last reported production: 1898

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Rock Island plat book	1894	1:31680	1:30171	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 (Rock Island County) - Mine names, mine index, ownership, years of operation.
 Plat Book of Rock Island County, Illinois, 1894, North West Publishing, 74p. - Shaft location.

Mine Index 4951**Taylor Williams, Williams Mine**

Type: Underground Total mined-out acreage shown: None; production indicates 45 acres were mined in addition to the 10 acres mined before production was reported.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Henry	18N 2E	31	NE SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	100			4.0	RP, HER

* According to the Coal Reports, pillars were drawn in 1884 and 1885, as the reserves were exhausted.

Geologic Problems Reported:**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Taylor Williams	Williams	pre1880-1887 **	<u>161,933</u> 161,933

** The 1882 Coal Report indicates that 10 acres were mined.

Last reported production: 1887

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Atlas of Henry County	1875	1:31680	1:20439	Secondary source

Annotated Bibliography (data source, brief description of information)

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

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

Atlas of Henry County, 1875, Warner & Beers, Chicago, 93p. - Shaft location.

Mine Index 5308
Guckert Brothers, Guckert Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 2 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Rock Island	18N 1E	15	SW NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	28			3.0-3.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Guckert & Caswell	Guckert & Caswell	1884-1885	800
Guckert Brothers	Guckert	1885-1888	1,943
Paul Guckert	Guckert	1888-1890	1,103
Guckert Brothers	Guckert	1890-1892	<u>982</u>
			4,828

Last reported production: 1892

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section mine database	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, mine type, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Rock Island County) - Mine names, mine index, ownership, years of operation, shaft location.

Mine Index 5399**Taylor Williams, Williams Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 40 acres were mined in addition to the 100 acres mined before production was reported.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Rock Island	18N 1E	22	NW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	80			4.0-4.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Taylor Williams	Williams	pre1881-1884 *	148,450 *
			148,450

* Production and years of ownership before 1884 are not known. The 1882 Coal Report indicated 100 acres were mined.

Last reported production: 1884

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Map (M. S. Heagy)	1936	1:10560	1:10560	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 (Rock Island County) - Mine names, mine index, ownership, years of operation.
 Map, Morris S. Heagy, Recollections Of My Old Home Town - Shaft location.

OTHER MINES SHOWN ON PORT BYRON QUADRANGLE

Mine Index 4896 SE NE 36-T18N-R1E, shaft source: Atlas of Henry County (1875)
Mine Index 4897 NW NW SW 13-T18N-R1E source: Coal Section files (undated work on 1:24000 topographic field map)
Mine Index 4898 SE NE SE 14-T18N-R1E, several slopes source: ISGS field notes (C. G. Ball, undated)
Mine Index 4899, Durpee Mine NE NW SW 15-T18N-R1E source: M. S. Heagy (1936)
Mine Index 4900, Centennial Mine NW NW SW 15-T18N-R1E source: M. S. Heagy (1936)
Mine Index 4901, No. 5 Mine NE SW NW 15-T18N-R1E source: M. S. Heagy (1936)
Note: This is very likely Heagy & Stoddard, No. 5 Mine.
Mine Index 4903 NE NW 23-T18N-R1E source: Coal Section mine database (undated)
Mine Index 4905 NW SW SW 15-T18N-R1E source: M. S. Heagy (1936)
Mine Index 4917 NW SW NW 15-T18N-R1E source: ISGS field notes (H. E. Culver, 6-3-1922)
Mine Index 4921, Taylor Williams, Cox Shaft SW NW NW 15-T18N-R1E source: M. S. Heagy (1936)
Mine Index 4922, J. Bird Cox SE SW SW 10-T18N-R1E, shaft source: M. S. Heagy (1936)
Mine Index 4937, Taylor Williams, Crouch Shaft NW SW NE 15-T18N-R1E source: M. S. Heagy (1936)
Mine Index 4946 SW 13-T18N-R1E, 4 small drift mines source: ISGS field notes (H. E. Culver, 1921-1924)
Mine Index 5319, No. 4 Mine SW NW SW 15-T18N-R1E source: M. S. Heagy (1936)
Note: This is very likely Heagy & Stoddard, No. 4 Mine.
Mine Index 5320, William Cook SW NE NW 22-T18N-R1E source: M. S. Heagy (1936)
Mine Index 5334 SE SE SW 7-T18N-R2E, shaft, 3 feet thick source: Coal Section files (undated work on 1:24000 topographic field map)
Mine Index 5344 SE NE NW 18-T18N-R2E, surface source: Coal Section files (undated work on 1:24000 topographic field map)
Mine Index 5346 SW SE NW 18-T18N-R2E, surface, 2.5 feet thick source: Coal Section files (undated work on 1:24000 topographic field map)
Mine Index 5619 NW 36-T18N-R1E, surface, 4 feet thick source: Coal Section mine database, undated and Historic Henry County
Note: The location is uncertain. Historic Henry County indicated coal was mined from the bed of the Rock River by building coffer dams and pumping the water out.
Mine Index 6820 NE NE SW 15-T18N-R1E source: Atlas of Rock Island County (1894)
Mine Index 6821 NE SE SW 13-T18N-R1E source: Atlas of Rock Island County (1894)

MINES WHOSE LOCATIONS ARE NOT KNOWN, PORT BYRON 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 Port Byron 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 214,803 (202,562 underground, 50 surface mined and 12,191 by unspecified method), which would represent approximately 50 to 80 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

CARBON CLIFF - Henry County

Black Fox Coal Company, 1934-1934, underground	50 tons
Diggett (Denver N.), 1941-1941, underground	47 tons

COLONA - Henry County

Black Diamond Mine, 1922-1924	8,944 tons
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GENESEO - Henry County

Aldrich (M. M.), pre1879-1883, slope, Rock Island, 30-33, 4.0-4.5	4,250 tons
Wiemar (Joseph), 1879-1880, drift, Rock Island, 20, 4.0	2,500 tons
Aldrich (M. M.), 1898-1902, shaft, Rock Island, 10-30, 4.0, RP	5,465 tons
Winer (Arthur), 1904-1905, slope, Colchester, 15, 2.67, RP	328 tons
Munsen Coal Company, No. 1 Mine, 1934-1934, underground	384 tons
Munsen Coal Company, No. 2 Mine, 1934-1934, underground	478 tons
Bennett & Crist, 1934-1934, underground	100 tons
Milan (Frank), 1934-1934, surface	50 tons
West Geneseo Coal Company, 1938-1939, underground	261 tons
Shady Beach Mine, 1939-1939, underground	462 tons

GREEN RIVER - Henry County

Cable & Keator, pre1881-1883, shaft, Rock Island, 37, 4.0	29,000 tons
Campbell (S. P.), 1879-1880, shaft, Rock Island, 30, 4.0	idle (½ ac mined)
Wilson & Company, 1879-1880, drift, Rock Island, 25, 4.0	600 tons
Peacock (Martin), 1886-1894, shaft & drift, Rock Island, 25, 2.5-3.5, RP	2,330 tons
Irwin (James), 1898-1902, shaft, Rock Island, 32-63, 2.5-3.5, RP	4,730 tons
Woodbury (John), 1902-1903	<u>120 tons</u>
	4,850 tons

HAMPTON - Rock Island County

Cook Brothers, 1908-1909, shaft, Rock Island, 32, 3.0, RP	280 tons	mine index 4935
Co-operative Coal Company, 1912-1913, shaft, Rock Island, 70, 2.5-4.0, RP	773 tons	mine index 4938
Guckert Brothers, 1894-1908, shaft or slope, Rock Island, 15-56, 3.0-4.0, RP	10,909 tons	mine index 5307
Guckert (Otto), 1908-1909	<u>248 tons</u>	
	11,157 tons	
Hampton Coal Company, 1908-1910, shaft, Rock Island, 70, 3.0, RP	2,150 tons	mine index 5309
Kleaver (Charles), 1898-1899, slope, Rock Island, 40, 3.5, RP	450 tons	mine index 5326
Northern Mining Company, B & C Shafts, 1884-1892 shafts, Rock Island, 62-65, 3.5, RP	51,702 tons	mine index 5350
Sikes (C. E.), 1910-1911, drift, Rock Island, —, 3.08, RP	90 tons	mine index 5370
Von Ach (Albert), 1909-1910, drift or slope, Rock Island, 12-40, 3.08-3.5, RP	120 tons	mine index 5389
Von Ach (Fred), 1910-1911	350 tons	
Von Ach Brothers, 1911-1913	<u>428 tons</u>	
	898 tons	

Von Ach (August), 1914-1917, shaft or slope, Rock Island, 10-12, 3.67, RP	1,333 tons	mine index 5390
Walton (James), 1884-1885, slope, Rock Island, 40, 3.5, RP	378 tons	mine index 5393

RAPIDS CITY - Rock Island County

Gilchrist (H.) & Company, pre1882-1883, shaft, Rock Island, 100-120, 4.0-4.5 58,101 tons mine index 4904
The 1882 Coal Report indicated 50 acres were mined. The mine was abandoned because of poor quality coal.

Bettig & Mosier, 1883-1884, shaft, Rock Island, 35, 2.33, RP	500 tons	mine index 4930
Denbigh (William) & Company, 1888-1890	2,872 tons	mine index 4943
Kollman (Fred), 1884-1887, shaft, Rock Island, 80, 2.5, RP	3,248 tons	mine index 5327
Williams (D. H.) & Company, 1888-1889	375 tons	mine index 5397
Zeigler (John) & Company, 1889-1892, shaft, Rock Island, 56, 3.5, RP	1,946 tons	mine index 5410

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