

**Henry & Rock Island Counties,  
Illinois**

### Mining Method

- 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 Tittle - Active
- \* Strip Mine Tittle - 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

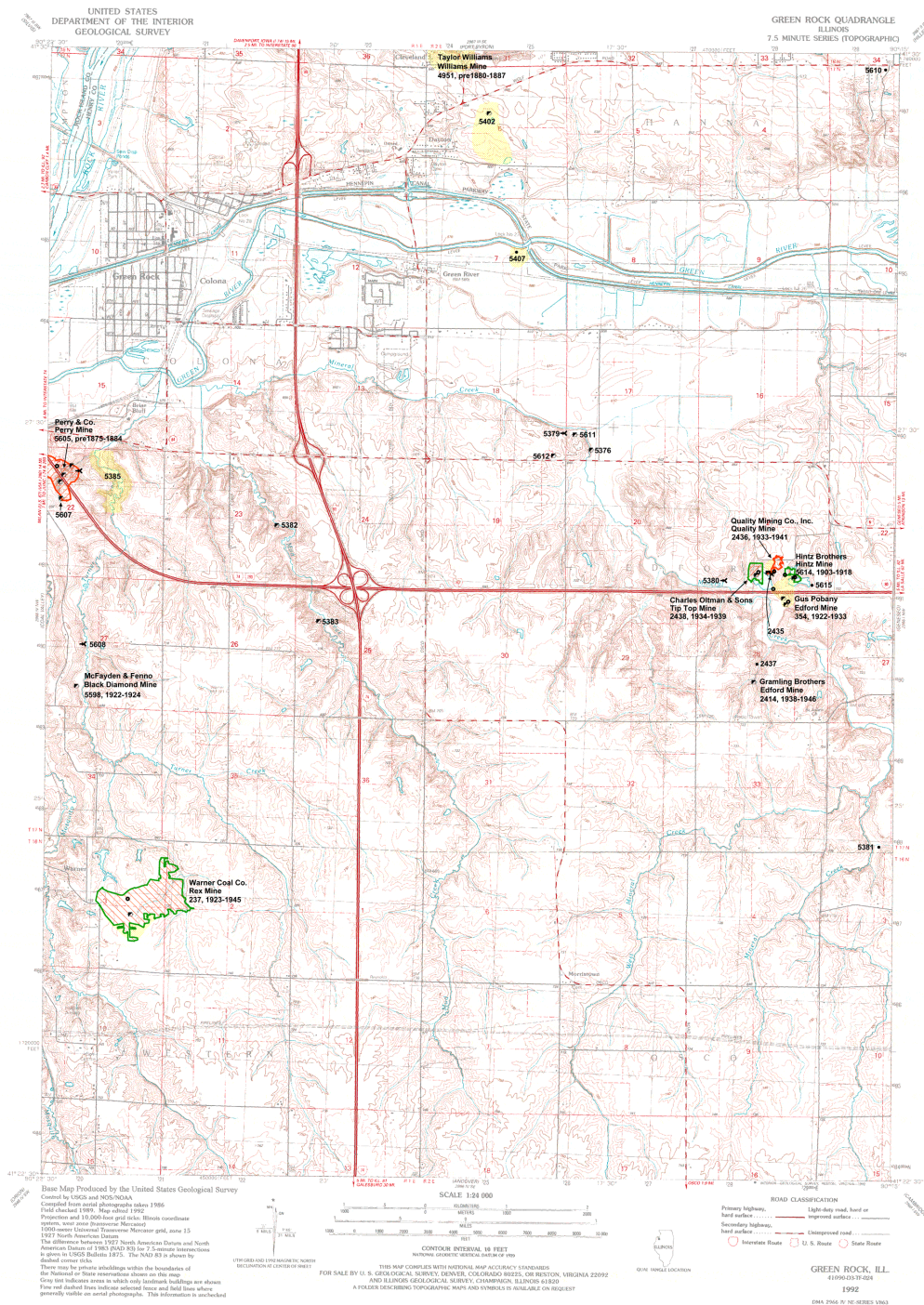
Please check the Coal Section at the Illinois State Geological Survey's web site at <http://www.isgs.illinois.edu> for the most up-to-date version of these products.

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 may present 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, warranty, or representation, and accept no liability for any use of the information presented, nor accept any 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

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





# **DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES GREEN ROCK QUADRANGLE HENRY & ROCK ISLAND COUNTIES**

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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 GREEN ROCK QUADRANGLE**

The 1875 Atlas of Henry County indicates mining had been occurring in the Green Rock Quadrangle prior to 1875, as railroad sidings that had been constructed to the Shepherd Mines (mine index 5376, 5611 and 5612) are shown. However, most of the mines were small mines operating in the Rock Island Coal, with low production for local use. Many mines may be located in the vicinity, and their locations are unknown. For instance, A. H. Worthen noted in his 1882 publication that the Mauch Chunk mines operated about 6 miles west of Geneseo, taking coal from 2.0 to 3.5 feet thick, by tunneling into the hill just above the level of Mineral Creek. There are many mines along Mineral Creek and not all have been identified, therefore the Chunk Mines may or may not be shown on the accompanying map. This is an area where the unlocated mines at the back of this report should be considered when a site is evaluated with the potential for undermining.

## 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.

Warner & Beers, 1875, Atlas of Henry County, Illinois, Chicago, 93p.

Worthen, A. H., 1882, Economical Geology of Illinois, Volume III, H. W. Rokker, State Printer and Binder, Springfield, Illinois, 596p.

## PART II DIRECTORY OF MINES IN THE GREEN ROCK QUADRANGLE

### MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Green Rock 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 237

#### Warner Coal Company, Rex Mine

Type: Underground Total mined-out acreage shown: 117, with an additional 15 acre general area of mining in the southern part of the mine

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Henry	16N 1E	3	NE NW SE
Air shaft	Henry	16N 1E	3	SE SW NE

### GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	154			3.67-4.67	MRP

Geologic Problems Reported: A water-bearing rock gave a great deal of trouble while sinking the shaft, and water continued to run down the sides of the shaft. The roof rock was 4.5 feet of limestone, sometimes separated from the coal by a few inches of clod. A small amount of pyrite was present in irregular small masses. Thin coal was indicated on the source map in the southern and northwestern parts of the mine, and poor roof conditions were noted in the southern part of the mine.

### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Rex Coal Mining Company	Rex	1923-1924	6,313
Bishop, Hintz & Hintz	Rex	1925-1926	7,853
Warner Coal Company	Rex	1927-1945	<u>446,692</u>
			460,858

Last reported production: 1945

### SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, IL_1992-01	2-24-1948	1:1200	1:1200	Final
Company, 4103.H42 i5.1-7	5-1940	1:1200	1:1200	Not final *

\* The portions of the map used were final, including a clearer version of the general area of mining in the southern portion of the mine.

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

Coal Reports - Production, ownership, years of operation.

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

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

Field notes (Henry County) - Air shaft location.

Coal Section files, IL\_1992\_01, digital map from State Archive, courtesy of Robert Gibson, DNR - Shaft locations, mine outline, mining method, geologic problems.

Company map, ISGS map library, 4103.H42 i5.1-7 - Mine outline, geologic problems.

**Mine Index 354**  
**Gus Pobany, Edford Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 8 acres were mined. The general area of mining shown on the accompanying map includes the old shaft and another air shaft, which may not be associated with or connected to the Edford Mine.

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Henry	17N 2E	28	NE NW NE
Air shaft	Henry	17N 2E	28	NE NW NE
Old shaft	Henry	17N 2E	28	NE NW NE
Air shaft	Henry	17N 2E	21	SW SW SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	27-29	2.0	5.5	3.0-4.0	Underground

**Geologic Problems Reported:** The coal dipped to the northwest and was characterized by low rolls. The roof rock was 12 to 22 inches of limestone with a great deal of pyrite, overlying 3 feet of black shale. Pyrite lenses were seen in the coal occasionally. The lowest 4 inches of the seam was bone coal. The mine was wet and the underclay heaved readily. For that reason, the mine was worked down the dip, which made haulage more difficult.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Phillis & Benson	Edford	1922-1924	2,350
Wilson & Phillis	Edford	1924-1925	9,431
Phillis & Rodamsky	Edford	1925-1925	414
Rodamsky & White	Edford	1926-1932	14,559
Gus Pobany	Edford	1933-1933	<u>1,410</u>
			28,164

Last reported production: 1933

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (H. E. Culver)	1922-1924	(text only)	1:24000 *	Secondary source

\* The shaft locations were shown on a sketched map that did not precisely match in configuration of streams and roads that are shown on current USGS topographic maps. The locations were plotted in a similar configuration as shown on the sketch map and digitized.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.  
 Directory of Illinois Coal Mines (Henry County) - Mine names, mine index, ownership, years of operation.  
 ISGS field notes (Henry County) - Mine type, shaft locations, depth, geologic problems.  
 Mine notes (Henry County) - Mine type, shaft location, seam, depth, thickness, geologic problems.



**Mine Index 2414**  
**Gramling Brothers, Edford Mine**

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

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Henry	17N 2E	28	SE NE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island					Underground

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Edford Coal Company	Edford	1938-1940	526
W. Yahnke	Edford	1941-1944 *	156
Gramling Brothers	Edford	1945-1946	<u>124</u>
			806

\* Idle 1942-1944

Last reported production: 1946

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section 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, mining method.  
 Directory of Illinois Coal Mines (Henry County) - Mine names, mine index, ownership, years of operation.  
 Mine notes (Henry County) - Mine type, shaft location.

**Mine Index 2435****F. C. Morgan Coal Company, Quality Mine**

Type: Surface    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
Tipple	Henry	17N 2E	21	NW SW SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	20			3.0	Surface

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
F. C. Morgan Coal Company	Quality *	1941-1942	<u>11,169</u> 11,169

\* It is likely that Morgan used the loading facilities of Quality Mine (mine index 2436), an underground mine that operated 1933 to 1941. Whether Morgan's surface mine was known as the Quality Mine when it operated is not known.

Last reported production: 1942

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS 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, depth, thickness.

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

Mine notes (Henry County) - Mine type, tipple and pit location, seam, depth, thickness.

**Mine Index 2436****Quality Mining Company, Inc., Quality Mine**

Type: Underground Total mined-out acreage shown: 7, including a general area of mining.

Production indicates approximately 14 acres were mined before the map date and approximately 3 acres were mined after the date of the source map. The general area of mining includes an area labeled on the source map, "This area all worked out", but the extent of that worked out area was not delineated well, and is likely larger than shown on the accompanying map.

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

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Henry	17N 2E	21	NW SW SE
Air shaft	Henry	17N 2E	21	NW SW SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	40			3.33	RPB

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Quality Mining Company, Inc. *	Quality	1933-1938	40,583
Quality Mining Company, Inc.	Quality	1938-1941	<u>11,249</u> **
			51,832

\* The 1953 USGS (7.5-minute) topographic map shows a mine labeled Bostze Mine. Bostze may have owned or operated Quality Mining Company, or he may have worked small mine nearby, or he may have come back to the Quality Mine after it closed and pulled pillars.

\*\* Production after map date

Last reported production: 1941

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Coal Section files, IL_2036_01	9-10-1938	1:480	1:480	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

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

Coal Section files, IL\_2036\_01, digital map from the State Archive, courtesy Robert Gibson, DNR - Shaft locations, mine outline, mining method.

**Mine Index 2438****Charles Oltman & Sons, Tip Top Mine**

Type: Underground Total mined-out acreage shown: 9 Production indicates approximately 3 acres were mined. The source map shows only the haulage routes and the workings shown on the accompanying map outline the haulage entries, with additional area enclosed to encompass the rooms.

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Henry	17N 2E	21	NE SE SW
Air shaft	Henry	17N 2E	21	NE SE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	37			4.0	RP

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Mineral Creek Coal Company	Mineral Creek	1934-1934	1,304
Charles Oltman & Sons	Tip Top	1935-1939	<u>8,022</u> 9,326

Last reported production: 1939

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, IL_1986_01	1-20-1939	1:600	1:600	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Henry County) - Mine type, seam, depth, thickness, mine name.

Company map, Coal Section files, IL\_1986\_01, digital map from the State Archive, courtesy of Robert Gibson,  
DNR - Shaft locations, mine outline, mining method.

**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 5598****McFadyen & Fenno, Black Diamond Mine**

Type: Underground    Total mined-out acreage shown: None; production indicates approximately 3 acres were mined.

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Henry	17N 1E	27	NW SE SW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	33-40				Underground

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
McFadyen & Fenno	Black Diamond	1922-1924	<u>8,944</u> 8,944

Last reported production: 1924

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (H. E. Culver)	1922-1924	(text only)	1:24000 *	Secondary source
Coal Section work map	1930-1961	1:48000	1:48000	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, mine name, years of operation.

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

ISGS field notes (Henry County) - Mine type, shaft location, seam, depth, ownership.

Coal Section work map on USGS topographic base of Orion (15-minute) Quadrangle, north half, surveyed 1930 - Mine location, mine name, depth.

**Mine Index 5605**  
**Perry & Company, Perry Mine**

Type: Underground    Total mined-out acreage shown: 36    Production indicates approximately 34 acres were mined after the map date.

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

Type	County	Township-Range	Section	Quarters-Footage
Main drift	Henry	17N 1E	22	SW NE NW
Air shaft	Henry	17N 1E	22	SE NW NW
Shaft	Henry	17N 1E	22	SW NE NW
Shaft	Henry	17N 1E	22	SE NW NW
Shaft	Henry	17N 1E	22	SW NW NW
Slope	Henry	17N 1E	22	NE SW NW

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island	36-75			4.0	RP

Geologic Problems Reported: The source map shows an east-west trending fault north of the main drift entrance to the mine. Horsebacks and basins filled with a conglomerate of clay and pyrite nodules were common, some several yards wide.

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Perry & Company *	Perry	pre1875-1884 **	122,400 ***
			122,400

\* The source map showed an area on the western side of the mine labeled "Old Minersville Works". Whether that is a separate mine or an older name for Perry's mine is not known.

\*\* The 1884 Coal Report indicated 20 acres were mined. The mine was closed because of a depression in the coal trade. Production and years of operation before 1881 are not known.

\*\*\* Production after map date

Last reported production: 1884

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Atlas of Henry County	1875	1:31680	1:31680	Secondary source
Company, IL_1979_01	3-1879	1:600	1:600	Not final
ISGS field notes (H. E. Culver)	1922-1924	1:15840	1:15840	Secondary source

Annotated Bibliography (data source, brief description of information)

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

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

Mine notes (Henry County) - Mine type, shaft location, seam, depth, thickness.

Company map, Coal Section files, IL\_1979\_01, digital map from State Archives, courtesy of Robert Gibson, DNR

- Drift & shaft locations, mine outline, mining method, geologic problems.

ISGS field notes (Henry County) - Slope location.

Worthen, A. H., 1882, Economical Geology of Illinois, Volume III - Geologic problems.

**Mine Index 5614**  
**Hintz Brothers, Hintz Mine**

Type: Underground Total mined-out acreage shown: 4 Production indicates 12 acres were mined. Old works shown on the source map that are shown as a general area of mining on the accompanying map most likely include area undermined by the Hintz Mine.

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

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Henry	17N 2E	21	SE SW SE
Air shaft	Henry	17N 2E	21	NE SW SE
Escape shaft	Henry	17N 2E	21	NE SW SE

**GEOLOGY**

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Rock Island or Herrin	24-60			3.0-4.0	RPB

Geologic Problems Reported:

**PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Jeff Glenn	Glenn	1903-1911	12,234
Herman Hintz	Hintz	1911-1913	4,120
Hintz Brothers	Hintz	1913-1918	<u>21,930</u> 38,284

Last reported production: 1918

**SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
Company, IL_2034_01	8-2-1918	1:600	1:600	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

ENR Document 85/01 - Mining method.

Mine notes (Henry County) - Mine type, shaft location, seam, depth, thickness.

Company map, Coal Section files, IL\_2034\_01, digital map from State Archives, courtesy Robert Gibson, DNR -  
 Shaft locations, mine outline, mining method.



## OTHER MINES SHOWN ON GREEN ROCK QUADRANGLE

Mine Index 2437 NE NE SW 28-T17N-R2E, "several old mines" source: ISGS field notes (H. E. Culver, ca. 1923 and Wanless & Ekblaw, 1930)  
Mine Index 5376, Shepherd Mine SE SW SW 17-T17N-R2E, slope source: Atlas of Henry County (1875) and ISGS field notes (G. H. Cady, 6-16-1935) and A. H. Worthen (1882)  
Mine Index 5379 NE SE SE 18-T17N-R2E, drift source: Coal Section files, work map with data posted on the north half of 1930 Orion (15-minute) Quadrangle  
Mine Index 5380 S ½ SW 21-T17N-R2E, drifts source: Atlas of Henry County (1875) and ISGS field notes (C. G. Ball, undated)  
Mine Index 5381 SE SE SW 34-T17N-R2E, coal bank source: Atlas of Henry County (1875)  
Mine Index 5382 N ½ NE SE 23-T17N-R1E, shaft source: Atlas of Henry County (1875)  
Mine Index 5383 SW NW 25-T17N-R1E, shaft source: Atlas of Henry County (1875)  
Mine Index 5385 W ½ NE 22-T17N-R1E, many small openings source: ISGS field notes (C. G. Ball, undated)  
Mine Index 5402, Searle Mine NE SE NW 6-T17N-R2E, shaft, 70 to 90 feet deep, 4 to 6 feet thick source: Coal Section work map, data posted on a 1932 Orion (15-minute) Quadrangle  
Mine Index 5407 S ½ SW NE 7-T17N-R2E source: Coal Section files, work maps with data posted on USGS topographic base of the Orion (15-minute) Quadrangle, 1930 and 1932 versions  
Mine Index 5607 SE SW NW 22-T17N-R1E, slope source: ISGS field notes (H. E. Culver, 1922-1924)  
Mine Index 5608 NE NE SW 27-T17N-R1E, drift source: Atlas of Henry County (1875) and ISGS field notes (H. R. Wanless & S. E. Ekblaw, 7-25-1930)  
Mine Index 5610 NE NE NW 3-T17N-R2E, coal bank source: Atlas of Henry County (1875) and ISGS field notes (H. R. Wanless & S. E. Ekblaw, 7-25-1930)  
Mine Index 5611, Shepherd Mine NW SW SW 17-T17N-R2E, shaft, 60 feet deep source: Atlas of Henry County (1875) and ISGS field notes (G. H. Cady, 6-16-1935) and A. H. Worthen (1882)  
Mine Index 5612, Shepherd Mine SE SE SE 18-T17N-R2E, shaft source: Atlas of Henry County (1875) and A. H. Worthen (1882)  
Mine Index 5615 SW SE SE 21-T17N-R2E, shaft source: ISGS field notes (H. E. Culver, 1922-1924)

## MINES WHOSE LOCATIONS ARE NOT KNOWN, GREEN ROCK 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 Green Rock 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 121,313 (97,840 underground and 23,473 mined by uncertain method), which would represent approximately 25 to 50 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

### BLOSSOMBURG

Peise & O'Mealie, 1922-1923	1,320 tons
Peiser (Christian), 1923-1924	15 tons
Pernell Coal Company, 1924-1925	400 tons
Peiser (C.), 1925-1925	<u>200 tons</u>
	1,935 tons

### BRIAR BLUFF

Storz, O'Neil & Norton, pre1879-1880, shaft, Rock Island, 30-75, 4.0, RP	idle
Henry County Coal Company, 1880-1882	12,600 tons
Marley (Richard), 1894-1898, slope, Colchester, 20-45, 3.0, RP	6,304 tons

Kershaw (James), 1899-1903, drift, Rock Island, 12, 3.0-4.0, RP	5,430 tons
Wells (Ed), 1903-1907	<u>5,568 tons</u>
	10,998 tons
Downing (Timothy), 1897-1901, slope or drift, Colchester, 30, 3.0, RP	1,430 tons
Posten (W. W.), 1901-1902	<u>666 tons</u>
	2,096 tons
Donald & Flynn, 1898-1900, drift, Rock Island, —, 3.0-3.5, RP	1,950 tons
Cadigan (Maurice), 1900-1902	<u>450 tons</u>
	2,400 tons
Kay (Robert), 1901-1904, drift, Rock Island, —, 3.5, RP	3,440 tons
Kincaid (J.), 1904-1905	<u>1,200 tons</u>
	4,640 tons
Griffin & Kershaw, 1904-1905, drift, Rock Island, —, 3.5, RP	400 tons
Kincaid (John), 1907-1912, drift, Rock Island, —, 3.0-4.5, RP	2,222 tons
Kay (Robert), 1906-1911, drift, Rock Island, 75, 3.0-3.5, RP	1,480 tons
Kershaw & Kay, 1911-1912	89 tons
Kay (Robert), 1912-1914	<u>310 tons</u>
	1,879 tons
Williams (A. L.), 1909-1910, drift, Rock Island, 22, 3.0-3.5, RP	160 tons
Williams (C. L.), 1910-1911	640 tons
Marke (Rudolph), 1911-1914	<u>623 tons</u>
	1,423 tons
Wells (G.), 1911-1912, drift, Rock Island, —, 4.0, RP	70 tons
Kershaw (Fred), 1911-1913, drift, Rock Island, —, 3.0-4.0, RP	429 tons

## **CARBON CLIFF**

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

## **COAL VALLEY**

Hilliard (George), 1886-1887, drift, Rock Island, —, 3.5, RP	40 tons
Vonach (Fred), 1890-1891, drift, Rock Island, —, 4.0, RP	502 tons
Summerson (John), 1895-1902, drift, Rock Island, 60, 4.0-4.5, RP	8,494 tons
Summerson (John), 1903-1904, drift, Rock Island, 43, 3.0-4.0, RP	320 tons
Posten (M. W.), 1904-1905	254 tons
Summerson (John), 1905-1912	2,334 tons
Summerson & Fude, 1912-1913	<u>600 tons</u>
	3,508 tons
Summerson (Robert), 1913-1915, slope, Herrin, 25, 4.0-6.0, RP	30 tons
Summerson (R. & J), 1917-1925	2,400 tons
Coon Brothers, 1919-1920	976 tons
Rodemsky (William), 1920-1921	450 tons

Tracy (E. F.), 1920-1921	1,500 tons
Kersham (Charles), 1922-1924	11,462 tons
Kersham & Bennett, 1924-1925	<u>487 tons</u>
	11,959 tons
Wooley (William), 1923-1927	4,253 tons
Pony Coal Company, 1934-1934, underground	600 tons
Walter (Mart), 1935-1935	<u>15 tons</u>
	615 tons
Sunnyside Coal Company, No. 1 Mine, 1934-1934, underground	45 tons
Sunnyside Coal Company, No. 2 Mine, 1934-1934, underground	240 tons
Hamilton (Caleb), 1935-1935	<u>182 tons</u>
	422 tons
B. & H. Coal Company, 1938-1940, underground	1,846 tons

#### **GREEN RIVER**

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

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