













This map accompanies the Coal Mines Directory for the Pontiac NW 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 |

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

- * 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

(space permitting)
Company
Mine Name
ISGS Index No., Years of Operation

These data were compiled and digitized from the best source maps available. Locations of some features may be off by 500 feet or more due to errors in the original source maps, the compilation process, digitizing or a combination of these factors. Documentation of the source materials used is contained in the directory that accompanies this map. It is the user's responsibility to read this documentation and understand the limitations of the data. Though efforts have been made to compile these data accurately, the Illinois State Geological Survey does not guarantee the validity or the accuracy of these data.

The image of the U.S.G.S. Pontiac NW Quadrangle used as a basemap was projected from the original UTM to Lambert Conformal Conic.



Illinois State Geological Survey
615 E. Peabody Dr.
Champaign, IL 61820

Mine Outlines Compiled by
Jennifer M. Obrad
December 13, 2006

DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES PONTIAC NW QUADRANGLE LIVINGSTON COUNTY

Jennifer M. Obrad & C. Chenoweth



Department of Natural Resources
ILLINOIS STATE GEOLOGICAL SURVEY
2007

**DIRECTORY OF COAL MINES IN ILLINOIS
7.5-MINUTE QUADRANGLE SERIES
PONTIAC NW QUADRANGLE
LIVINGSTON COUNTY**

2007

ILLINOIS STATE GEOLOGICAL SURVEY
William Shilts, Chief

Natural Resources Building
615 East Peabody Drive
Champaign, Illinois 61820

Phone 1-217-244-4610
Fax 1-217-333-2830

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 PONTIAC NW QUADRANGLE

Mining was said to have begun near Pontiac in 1866. According to the Pontiac, Illinois Sesquicentennial (Harris, 1987) a shaft was sunk by the Pontiac Coal Company, and the first coal was taken on January 12, 1866. This mine was said to have changed hands several times over the years, and the location of this mine is not known. This may be the same mine reported as W. H. Leavers in 1882 and 1883, listed in the unlocated mines at the back of this report.

The earliest mine whose location is known is the Diamond Coal Company, on the north side of Pontiac. This mine (index 5957) operated until the shaft caved in. Shortly after the Diamond Mine was abandoned, the operators of Diamond Mine sank another shaft just southwest of the old mine, which operated until the top works burned in 1925. Pontiac Mining Company re-opened this shaft eight years later and mined a few tons before closing for good in 1936.

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).

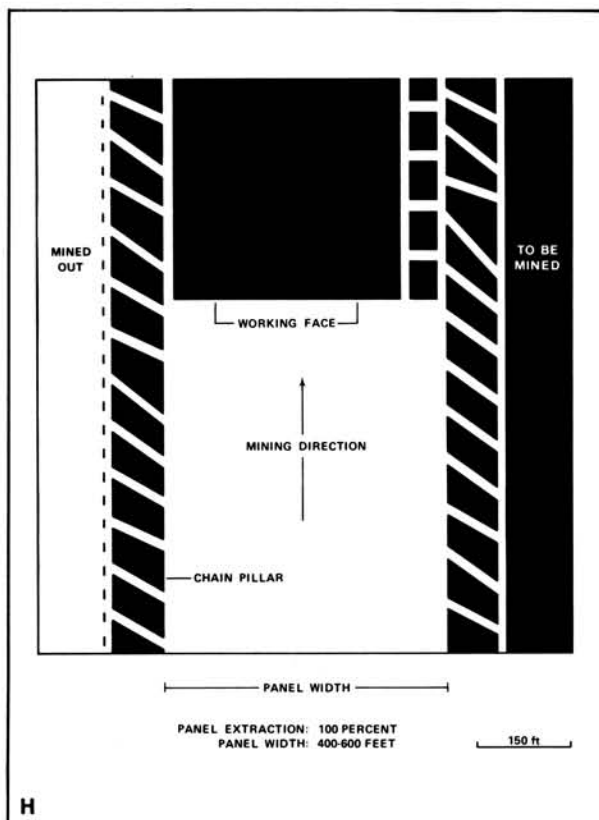
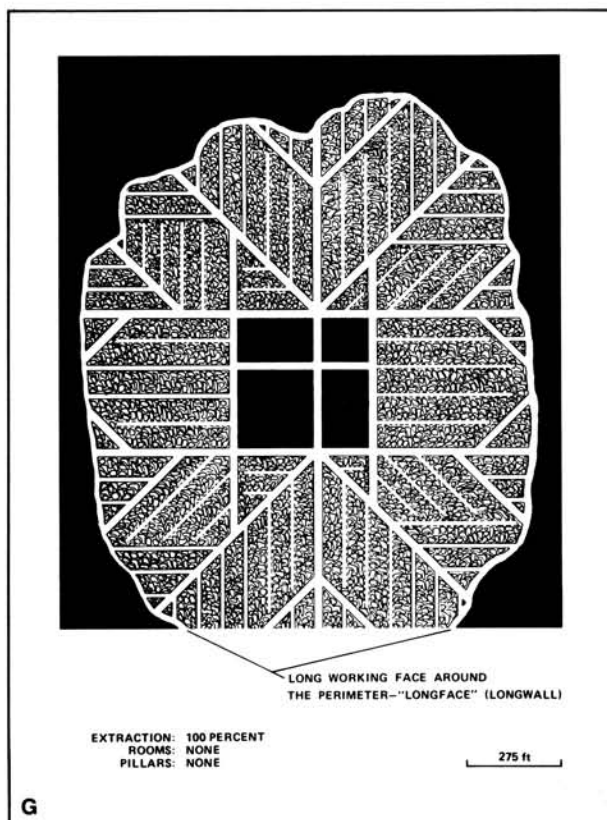
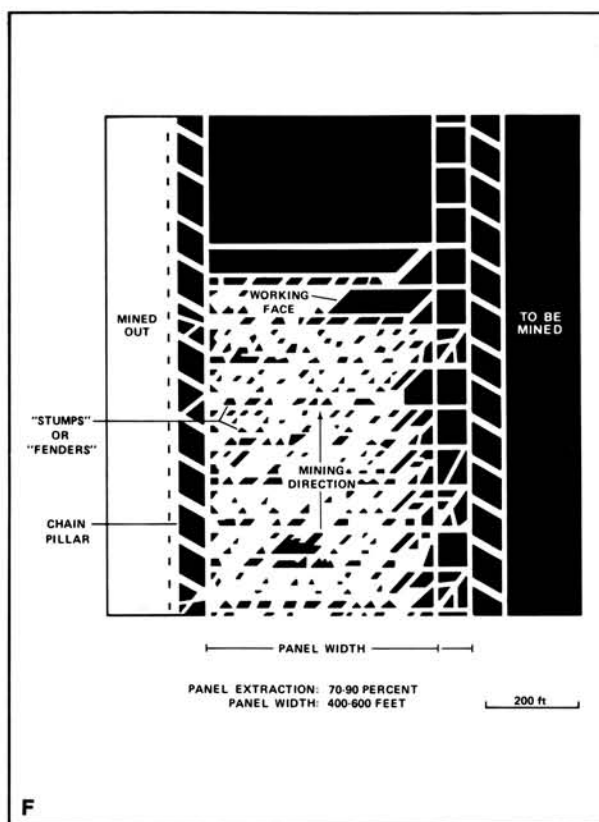
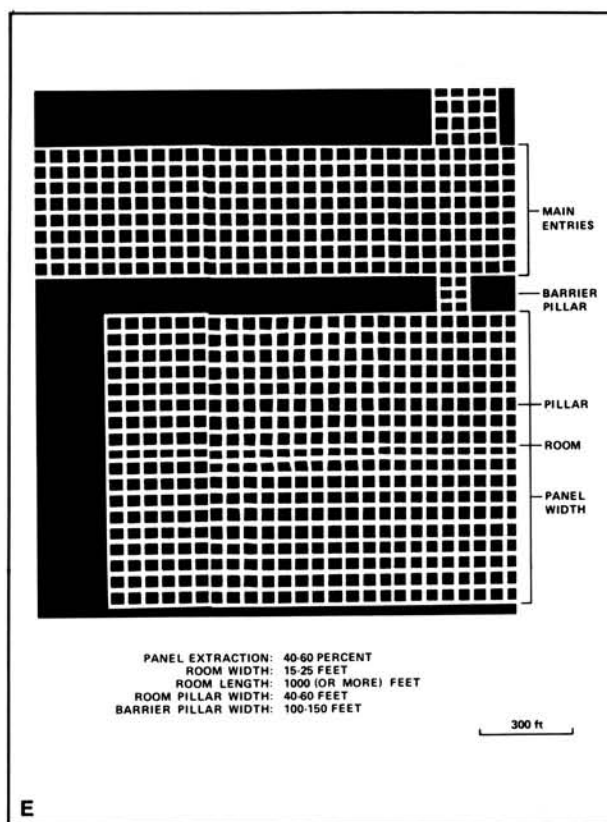


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall



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.

Harris, Elizabeth, 1987, Pontiac, Illinois Sesquicentennial, 1837-1987, 207p.

Jacobson, R. J., 1985, Coal Resources of Grundy, La Salle and Livingston Counties, Illinois, Illinois State Geological Survey, Circular 536, 58p.

PART II DIRECTORY OF MINES IN THE PONTIAC NW QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Pontiac NW 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 215

Pontiac Coal Mining Company, Pontiac Mine

Type: Underground Total mined-out acreage shown: 67 Production indicates approximately 15 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft (6' X 12')	Livingston	28N 5E	15	NE SE SW
Escape shaft	Livingston	28N 5E	15	SE SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Danville	200-210	4.0	6.5	4.5-5.0	MRP

Geologic Problems Reported: The gray shale roof did not require a great deal of timbering. A few pyrite concretions were present in the roof. The main roof problems came from the numerous horsebacks in the mine. The seam was often broken by slips filled with roof clay. Two persistent clay bands were present in the seam. The upper clay band was about 18 inches above the floor and was about ½ inch thick, and contained a lot of pyrite. The lower clay band was between 2 and 3 inches above the floor and was about 3 inches thick. Mother coal was common in the seam as well, so that the coal was sooty.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Brady Coal Company	Brady No. 1	1903-1905	14,179
Brady Coal Company	Brady No. 2	1905-1913 *	80,714
Murphy, Linsky & Kasher Coal Company	Murphy, Linsky & Kasher	1913-1920 **	222,614
Murphy, Linsky & Kasher Coal Company	Murphy, Linsky & Kasher	1920-1923	46,705 ***
Pontiac Coal Mining Company	Pontiac	1923-1925	18,000 ***
idle (abandoned) **		1925-1934	
Pontiac Mining Company	Pontiac	1934-1936	670 ***
			382,882

* Idle 1913

** This mine was abandoned after the top works burned in March 1925. ISGS field notes indicate this old shaft was reopened in 1933, although production was not reported until 1934.

*** Production after map date

Last reported production: 1936

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352530	9-1920	1:2400	1:4303	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Livingston County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Livingston County) - Mine type, shaft location & size, thickness, geologic problems.
 Microfilm map, document 352530, reel 03139, frame 253 - Shaft locations, mine outline, mining method.
 ISGS field notes (Livingston County) - Years of operation, mine location.
 ISGS Circular 536 - Seam.

Mine Index 5957
Diamond Coal Company, Diamond Mine

Type: Underground Total mined-out acreage shown: 12 A general area of mining is shown to indicate the probable extent of the mine, which production indicates is about 35 acres.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Livingston	28N 5E	15	NE SE
Escape / air shaft *	Livingston	28N 5E	15	NE SE

* A shaft is not shown on the source map, but the shape of the workings shown indicate a shaft was likely present.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Danville	200-233			5.0-5.5	MRP

Geologic Problems Reported: This mine was abandoned because the shaft caved in. A new mine was begun, which was opened as Brady Coal Company (mine index 215).

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Pontiac Union Coal Company	Pontiac Union	1887-1889	53,926
Pontiac Coal Company	Pontiac	1889-1892	57,427
Smith & Hill Company	Smith & Hill	1892-1894	29,989
Delgenio Coal Company	Delgenio	1894-1895	1,800
John T. Henry	Henry	1895-1896	2,600
Diamond Coal Company	Diamond	1896-1902	41,430
			187,830

Last reported production: 1902

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 352530	9-1920	1:2400	1:4303	Incomplete **

** The map was not coded as Secondary source because the Murphy, Linsky & Kasher source map for mine index 215 was presumed to have come from the common ownership of Diamond Coal Company and Brady Coal Company (previous owners of Murphy, Linsky & Kasher Coal Company).

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, depth, thickness, geologic problems.
 Directory of Illinois Coal Mines (Livingston County) - Mine names, mine index, ownership, years of operation.
 Microfilm map, document 352530, reel 03139, frame 253, map of Pontiac Mine (mine index 215) - Shaft locations, mine outline, mining method.
 Sanborn-Perris Map Company, Pontiac, Illinois, October 1892, December 1897 & July 1903 - Ownership, shaft location.
 ISGS Circular 536 - Seam.

OTHER MINES SHOWN ON PONTIAC NW QUADRANGLE

Mine Index 7022 SW SW 11-T29N-R4E source: Atlas of the State of Illinois, Union Atlas Company, 1876

MINES WHOSE LOCATIONS ARE NOT KNOWN, PONTIAC NW 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 Pontiac NW 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 387,789 (387,789 underground mined), which would represent approximately 80 to 160 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

CORNELL

Singer (Henry), 1896-1899, shaft, Springfield, 150, 3.5, RP	3,581 tons
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MARYVILLE

Lucas (James), 1916-1918, drift, Colchester, 20, 3.0, RP	100 tons
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PONTIAC

Leavers (W. H.), 1881-1883	7,000 tons
shaft, Danville Coal (135, 4.0), Springfield Coal (190, 4.5), & Colchester Coal (360, 3.67)	
This may include tonnages from another mine, which had worked out 30-40 acres by 1882.	

Evans (Richard), Pontiac Mine, 1894-1897	108,769 tons
Pontiac Coal Company, No. 1 Mine, 1897-1903	<u>268,339</u> tons
shaft, Springfield & Colchester, – & 446-464, 5.17 & 2.67, RP & LW	377,108 tons

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Henry (John T.)	10
Hill (Smith & Hill Company)	10
Kasher (Murphy, Linsky & Kasher Coal Company)	9
Leavers (W. H.)	11
Linsky (Murphy, Linsky & Kasher Coal Company)	9
Lucas (James)	11
Murphy, Linsky & Kasher Coal Company	9
Pontiac Coal Company, No. 1 Mine	11
Pontiac Coal Mining Company	9
Pontiac Mining Company	9
Pontiac Union Coal Company	10
Singer (Henry)	11
Smith & Hill Company	10

Funding for this project was supplied by the Illinois Department of Transportation.