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Danville Coal Elevation WILLIAMSON County

County Coal Map Series Andrew Louchios, Scott Elrick, Chris Korose, David Morse

Map construction: November 03, 2009

This product is under review and may not meet the

standards of the Illinois State Geological Survey.

County coal maps and select quadrangle maps available as downloadable PDF files at: http://www.isgs.illinois.edu/maps-data-pub/coal-maps/county-index.shtml

Macedonia HAMILION 6S 6E Hanaford 7S 6E 7S 3E Elkville 7S 1W JACKSON 8S 2W / Pittsburg WILLIAMSON 10S 6E 10S 3E 10S 2W 10S1E 10S 2E 11S 6E 118 5E McCormick UNION 12S 6E 12S 4E Simpson 12S 2W 12S 1E 12\$ 2E **JOHNSON** 13S 4E Fig. 1 The Danville Coal underlies about two thirds of been mined by both **Coal Elevation Map Explanation** Fig. 4 Pennsylvanian Stratigraphic Column Original Mined Remaining Available Illinois as well as portions of western Indiana and surface and under-Central and Southern Northern and Western Eastern and Southern Members and Beds Members and Beds 800 to 900 ft western Kentucky. The coal crops out along the ground methods. Indiana margins of the Illinois Basin and reaches a maxi-700 to 800 ft Except for mines in The maps and digital files of this study were compiled from data from a variety of public

> relatively thick underclay. At mined. Approximately 23% of the original Danville Coal resources, 4.5 billion -200 to -100 ft Anna Shale the type locality in Vermillion tons, are considered available for mining. (See Fig 3.) Available means that to be too thin or too -300 to -200 ft Herrin Coal Spring Lake Coal Bed Big Creek Sandstone Herrin Coal county, the Danville Coal is 6 the surface land-use and geologic conditions related to mining of the deposit poor in quality to jus--400 to -300 ft feet thick and occurs 20 feet (e.g. thickness, depth, in-place tonnage, stability of bedrock overburden) are tify recovery and was -500 to -400 ft above the Herrin Coal. (Hop-comparable to other coals currently being mined in the state. Of these resimply discarded in -600 to -500 ft The Illinois State Geological Survey and the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this the spoil pile with other rock overburden. (Modified from ISGS Pub. IM 124, Korose, et al) kins, 1968 - B95). (See Fig 4.) sources, 4 billion tons occur in coal 42 to 66 inches thick and 0.4 billion tons

> > of Illinois: Illinois State Geological Survey Illinois Minerals 124, 44 p.

Lonsdale Limestone

Gimlet Sandstone

Farmington Shale Danville Coal

Rock Branch (SW)/ DeGraff (S) Coal

Allenby Coal

- Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p.

- Christopher P. Korose, Colin G. Treworgy, Russell J. Jacobson, and Scott D. Elrick, 2002, Availabil-

ity of the Danville, Jamestown, Dekoven, Davis, and Seelyville Coals for mining in Selected Areas

Piasa Limestone

east-central Illinois,

most large surface

mines recover the

Danville Coal only as

part of their opera-

tion to remove over-

burden to mine the

Coal. In many cases,

the Danville seam

■ Avail. w/ potential restr.

occur in thicknesses greater than 66 inches.

ville Coal in the State of Illi- **T**he Danville Coal has been mined in Illinois for over 100 years, but only about

nois totals 19.6 billion tons, 1% of the original resource has been depleted. The most extensive area of

of which 0.2 billion have been mining was in east-central Illinois near the city of Danville where the coal has

12.5

mum depth in Illinois of about 1,200 feet. (See Fig

. and Fig 2.) The Danville Coal is in the Shelburn

formation which is part of the Desmoninesian

Series. The Danville Coal has been mined in Liv-

ingston, McLean, La Salle, and Marshall Counties

in addition to Vermilion County. In most of the

remainder of the state it is a thin coal, generally a

few inches to less than 3 feet thick. The Danville

The original resource of Dan-

Coal is generally overlain by the Farmington Shale Member of the Shelburn Formation,

but in places the immediate roof is 1-2 feet of black fissile shale. It is underlain by a

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and private sources and have varying degrees of completeness and accuracy. They

However, these interpretations are based on data that may vary with respect to accuracy

of geographic location, type, quantity, and reliability, as they were supplied to the Illinois

State Geological Survey. Consequently, the accuracy of the interpreted features shown

present interpretations of the geology of the area and are based on available data.

in these files is subject to the limitations of the data and varies from place to place.

Contoured features less than 7 million square feet (about 1/2 mile square) in area

may not be accurately portrayed or resolved. This data set provides a large-scale

These data are not intended for use in site-specific screening or decision-making.

Disclaimer

data set and accept no liability for the consequences of decisions made by others on the

conceptual model of the geology of the area on which to base further work.

600 to 700 ft

500 to 600 ft

400 to 500 ft

300 to 400 ft

200 to 300 ft

100 to 200 ft

0 to 100 ft

-100 to 0 ft

-700 to -600 ft

-800 to -700 ft

-900 to -800 ft

< -900 ft