Russell J. Jacobson and Zakaria Lasemi
2008

Bedrock Geology of Fishhook Quadrangle
Adams, Brown and Pike Counties, Illinois

EXPLANATION

Symbols

Dry hole
Dry hole, show of gas
Dry hole, show of oil
Gas well producing
Gas well producing, plugged
Oil well producing, plugged
Water well
Water well producing

Line Symbols

Anticline, direction of plunge indicated by arrows

Note: MAP and boundary maps were prepared by ORNL for the 2005 Geological Resources Data Clearinghouse and are available from the Illinois State Geological Survey.

FOR CLASSIFICATION

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For more information, contact:
800-942-3779
http://www.isgs.uiuc.edu
(217) 244-2414

A. Bayley Formation (Frye et al. 1964) consists of gray to light gray, fine-grained sandstone with zones of dispersed clasts of angular white and gray rock. Includes channel and bottomset deposits, interbedded siltstone and shale, and locally correlative as a sandstone and shale or sandstone and siltstone member. Channel deposits are characterized by tabular beds of sandstone and siltstone, with thin to medium planar lamination and numerous sets of thin lenticular sandstone beds. Bottomset deposits are characterized by thin to medium interbeds of sandstone and siltstone, with thin to medium planar lamination and numerous sets of thin lenticular sandstone beds. Note: See report accompanying this map for references.

B. Carboniferous Formation: Shale, siltstone, sandstone, limestone, coal, and dolomite. The Carboniferous Formation includes the following members:

1. Marcellus Shale Member: (0 to 180 feet) Light gray argillaceous shale containing grayish-white siltstone and sandstone, with interbedded green shale and tuff. Note: See report accompanying this map for references.

C. Ordovician Shale Member: (0 to 200 feet) Green shale interbeds occur locally. Some carbonate beds are present. In places, the formation is overlain by a thin bed of siltstone and shale. Note: See report accompanying this map for references.

D. Galena Formation: (0 to 120 feet) Black, fissile shale; sharp contact at boundary with underlying beds. Note: See report accompanying this map for references.

E. Galena Shale (0 to 50 feet) Black, fissile shale; sharp contact at boundary with underlying beds. Note: See report accompanying this map for references.

F. Galena Shale (0 to 50 feet) Black, fissile shale; sharp contact at boundary with underlying beds. Note: See report accompanying this map for references.

G. New Albany (150 to 200 feet) Gray, fissile shale; sharp contact at boundary with underlying beds. Note: See report accompanying this map for references.

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