

EXPLANATION
INDIANA GEOLOGICAL SURVEY
PETROLEUM WELL SYMBOLS

The following symbols include all of the primary petroleum well symbols used by the Indiana Geological Survey. These symbols may be modified using the five modifiers listed below to provide additional information about the status or source data for a particular well. This list may include symbols not shown on this particular map.

- permitted location
dry hole
oil
gas
oil and gas
gas storage
gas storage formerly oil
gas storage formerly gas
water injection (waterflood)
water injection formerly oil
water injection formerly gas
water injection formerly oil and gas
observation
observation and/formerly gas
observation formerly gas storage
salt water disposal
salt water disposal formerly oil
salt water disposal formerly gas
salt water disposal formerly gas storage
potable water supply
nonpotable water supply
nonpotable water supply formerly oil
nonpotable water supply formerly gas
waste disposal
temporarily abandoned new well
confidential well
confidential workover
boring
stratigraphic/structure test
surface location of deviated hole
point along the path of a deviated hole
nothing known, old Trenton well from map

SYMBOL MODIFIERS

Modifiers (shown here in red for clarity) may be added to any standard IGS well symbol to denote the following five criteria:

- abandoned
completion type uncertain
location uncertain
temporarily abandoned
dually completed

Note: The incorporated area of Indianapolis is considered to span the entirety of Marion County.

Petroleum field boundary; encloses wells classified in a single field, but is not intended to indicate the extent of producing reservoirs.

Federal Property

State Property

PETROLEUM WELL DATA LABELS

Petroleum well data labels displayed on this map represent the total depth of the well. In densely drilled areas, it is not possible to post well data labels for all wells present because the labels would overlap well symbols and other labels, making the map unreadable. For a more complete representation of well data in such areas, the IGS provides Petroleum Well Location Maps at larger scales.

ACCURACY OF WELL LOCATIONS

Locational coordinates of wells contained within the Indiana Geological Survey's Petroleum Database Management System (PDMS) and their corresponding locations as shown on maps are believed to be reasonably accurate when portrayed on a scale of 1 inch to 1 mile. Although the coordinates for a great many locations in the database have been very accurately determined, past practices and inherent limitations on the accuracy with which a well was spotted on a 1:24,000-scale USGS topographic map have resulted in well coordinates that locate wells a small distance from their actual locations. Depending on circumstances, this distance could be as great as 100 feet, or rarely, somewhat more. In general, such locations are sufficiently accurate for most petroleum exploration and field mapping purposes. Additionally, it is important to note that new and revised data continually are being entered into the PDMS and, despite the use of careful procedures and proofing of the entered data, human error always remains a possibility. Every effort is made to correct errors and discrepancies whenever they are identified, but it is the responsibility of the user to verify any information to the extent it is deemed important.

DATA AVAILABILITY

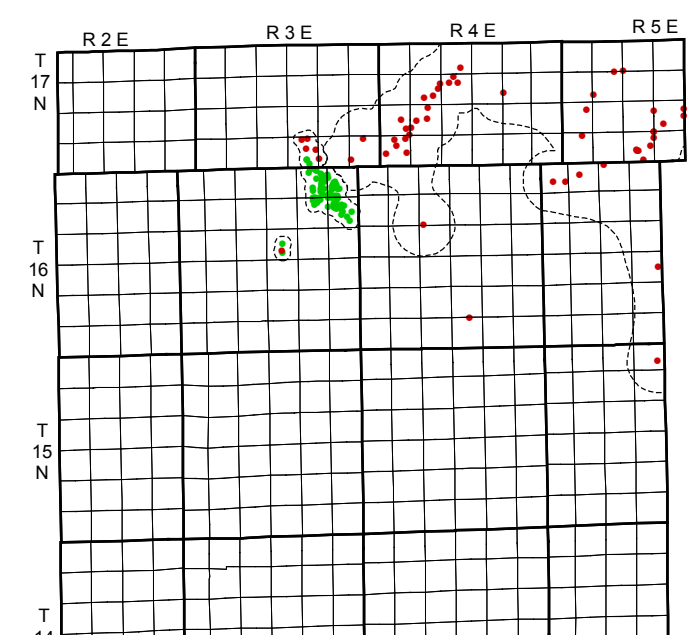
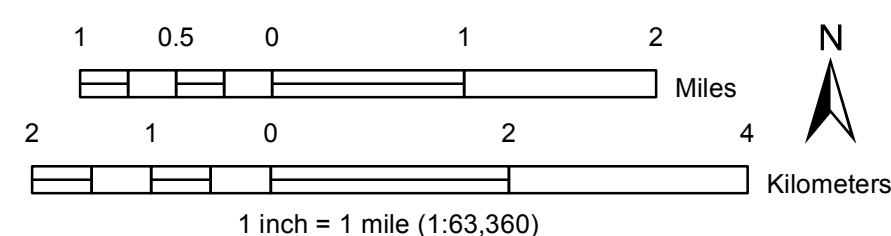
Paper copies, as well as digital Adobe Acrobat formats, are available for purchase through the Publications Sales Office of the Indiana Geological Survey, Indiana University. Larger-scale maps, optionally showing additional well information may also be obtained from the IGS. Availability may depend on the current status of information contained in the IGS's Petroleum Database Management System. Prices for larger-scale maps vary depending on the amount of custom preparation needed to produce the map. Requests for specific well information should be directed to the Subsurface Geology Section, Indiana Geological Survey.

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GENERAL DISCLAIMER

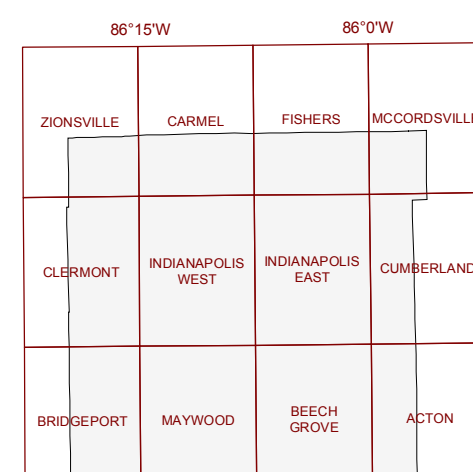
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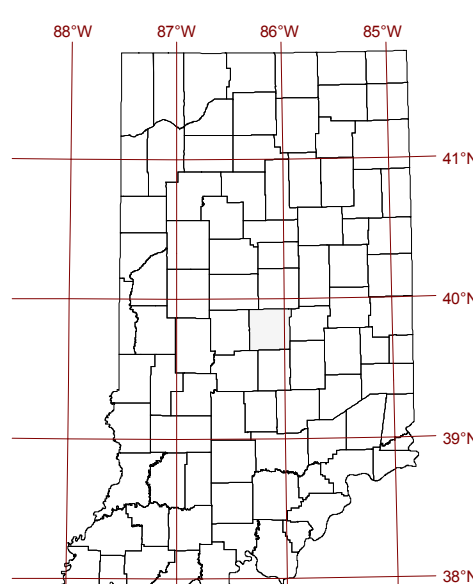
Index map of Marion County showing petroleum field boundaries and oil and gas productive areas

General diagram of Congressional township showing numbered sections. Ideal sections are 1 mile by 1 mile squares.

General diagram of Congressional township showing numbered sections. Ideal sections are 1 mile by 1 mile squares.



Index map of Marion County showing U.S. Geological Survey 7 1/2-minute topographic quadrangle map names



Index map of Indiana showing the location of Marion County

