

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
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

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

Artificial township boundary Liquefied petroleum gas storage reservoir

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.

SURVEYED LAND UNITS

In addition to land units that are designated as sections within the Congressional Township and Range System, Indiana contains tracts of land which were surveyed prior to the Congressional surveys of 1807. These tracts were grouped into different land-unit types based on the purpose of the particular survey in which they were determined. Individual parcels of land within each of these tracts were identified by their land-unit type plus a number and (or) name. Some tracts were not assigned a land-unit type, and are termed "named tracts." Named tracts may or may not be numbered. These land units are identified on the map by a prefix indicating the land-unit type, followed by the land-unit number (for example, L121). This list may include prefixes not shown on this particular map. Prefixes used to indicate the land-unit type are as follows:

- G Grant
L Location
D Military Donation
S Survey
M Michigan Road Line
Res. Reserve

ARTIFICIAL TOWNSHIPS

Because these land units are not part of the Congressional Township and Range System, they technically do not fall within specific townships. The Indiana Geological Survey superimposes artificial township boundaries onto the areas that were not surveyed in the Congressional system so that individual land units can be assigned to an unofficial township and range designation. The imaginary township boundaries follow the outline of individual land units so land units are not split into more than one artificial township, resulting in artificial township boundaries which do not follow straight lines, but rather zigzag as necessary. Well locations that fall in these land units are assigned an artificial township and range designation.

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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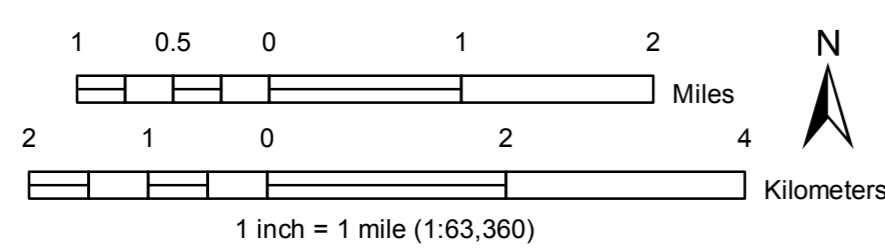


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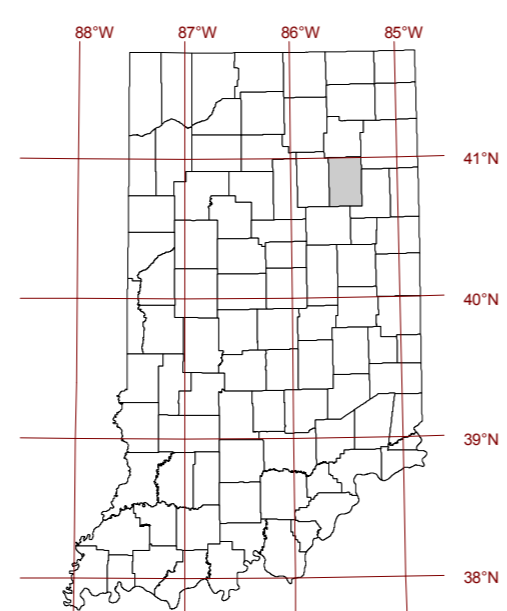
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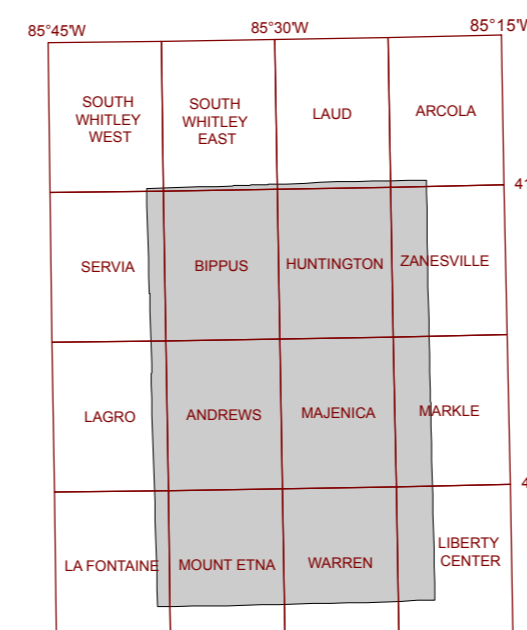


General diagram of Congressional township showing numbered sections. A 36x36 grid with sections numbered 1 to 36.

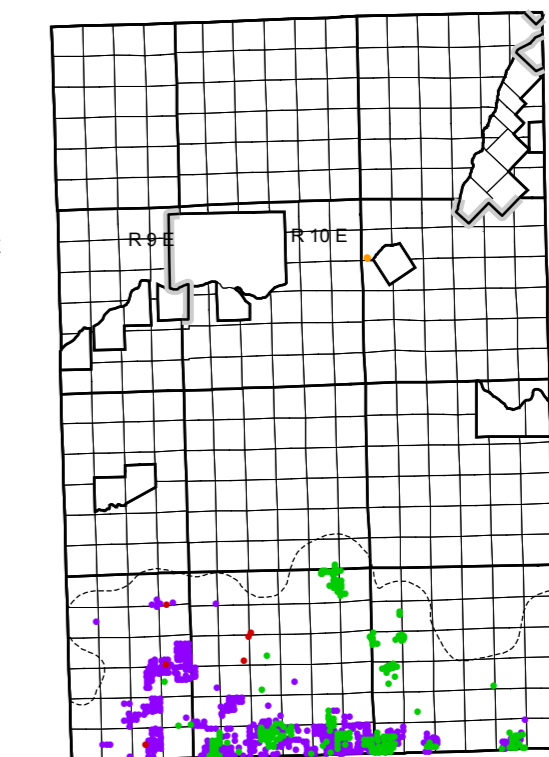
General diagram of Congressional township showing numbered sections. Ideal sections are 1 mile by 1 mile squares.



Index map of Indiana showing the location of Huntington County



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



Index map of Huntington County showing petroleum field boundaries and oil, gas and possibly productive areas