

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.
- New Albany Shale (NAS) gas field boundary; encloses wells classified in a single NAS field, but is not intended to indicate the extent of producing reservoirs.

- ▨ Federal Property
- ▨ State Property

COMPLETION FORMATIONS

- Unknown
- Salem
- Harrodsburg
- New Albany

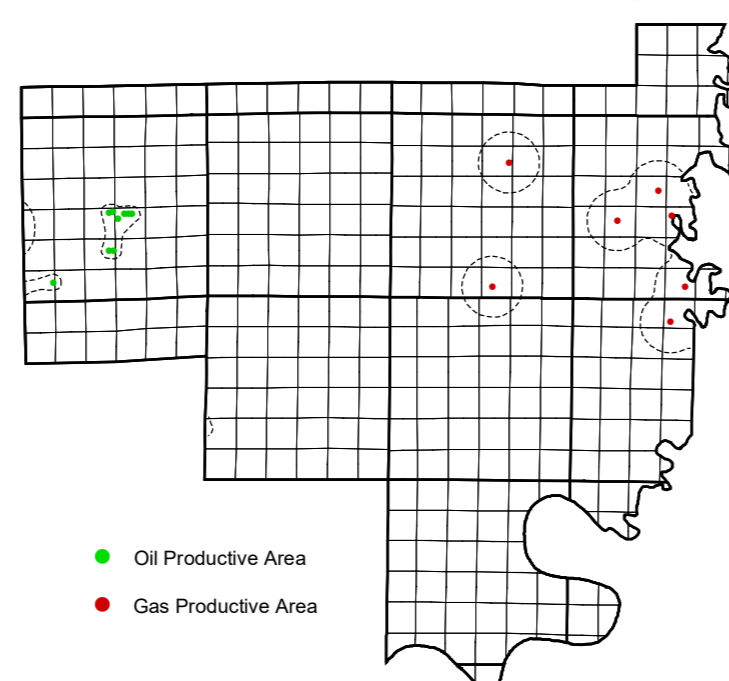
The horizons or stratigraphic units (completion formations) from which individual wells produce oil or gas are denoted by color-coded circles. The same color code is used throughout the state. Because some wells produce from multiple horizons, the colored circles are systematically offset around each well symbol so that multiple colors can be associated with an individual well.

The completion formation symbol pattern is modified to distinguish between oil and gas, gas storage, and water injection wells. The color of the symbol denotes the completion formation while the pattern of the symbol denotes the type of well.

- oil and gas
- gas storage
- water injection

ACCURACY OF WELL LOCATIONS

Local 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.



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

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

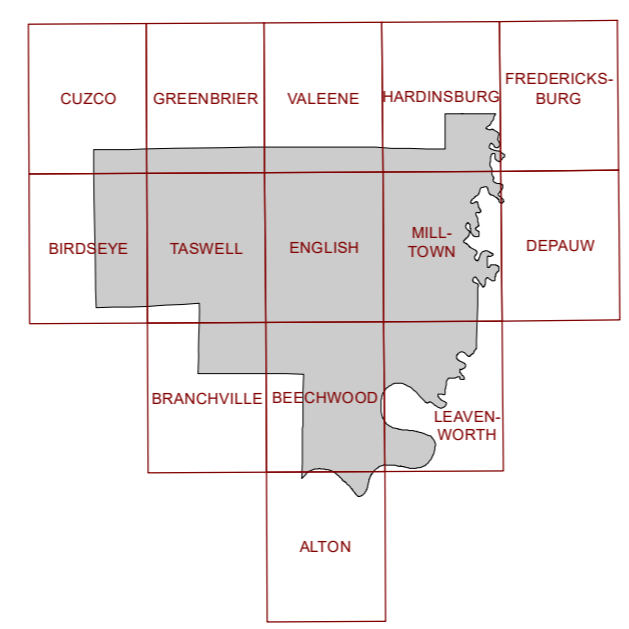
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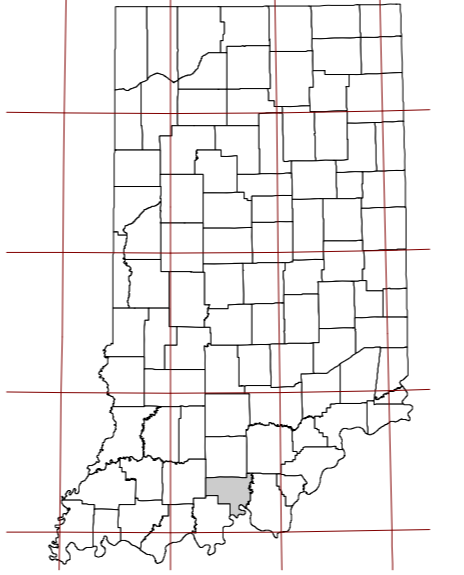
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6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
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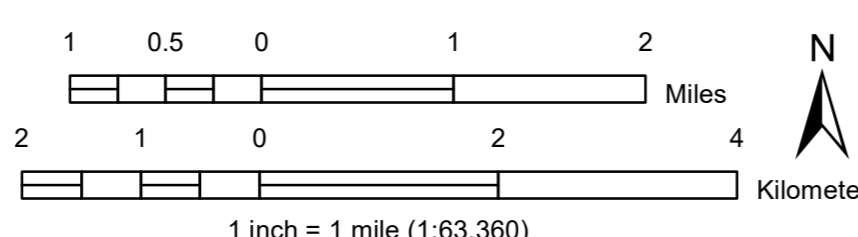
General diagram of Congressional township showing numbered sections. Ideal sections are 1 mile by 1 mile squares.



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



Index map of Indiana showing the location of Crawford County



Digital base map modified from Indiana Geological Survey, Digital Base Map 13, published 2000. Basemap features from U. S. Geological Survey topographic quadrangle maps; scale 1:24,000. Projection: Universal Transverse Mercator, Zone 16N. Horizontal Datum: North American Datum of 1983.

Digital compilation by T.A. Proffitt. Well data from the Indiana Geological Survey's Petroleum Database Management System, revised August 2011.