

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 three 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
shut-in gas
gas storage
gas storage formerly oil
gas storage formerly gas
water injection
water injection and/or formerly oil
water injection and/or formerly gas
water injection and/or formerly oil and gas
observation
observation and/or formerly gas
observation and/or formerly gas storage
Trenton well, possibly productive; only available information is an uncertain location

- salt water disposal
salt water disposal and/or formerly oil
salt water disposal and/or formerly gas storage
potable water supply
nonpotable water supply
nonpotable water supply formerly oil
waste disposal
temporarily abandoned
confidential well
confidential workover
confidential boring
boring
stratigraphic test
surface location of deviated hole
path of deviated hole

SYMBOL MODIFIERS

Modifiers may be added to any standard IGS well symbol to denote the following three criteria:

- abandoned
completion type uncertain
location uncertain

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

- Crude oil pipeline
Natural gas pipeline
Refined petroleum products pipeline

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 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.

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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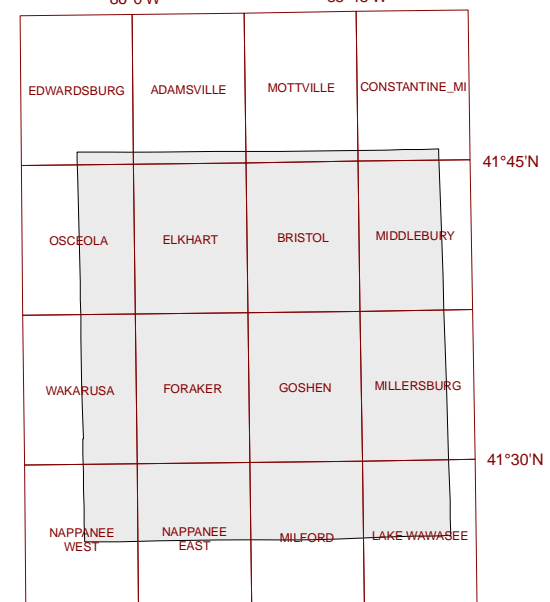
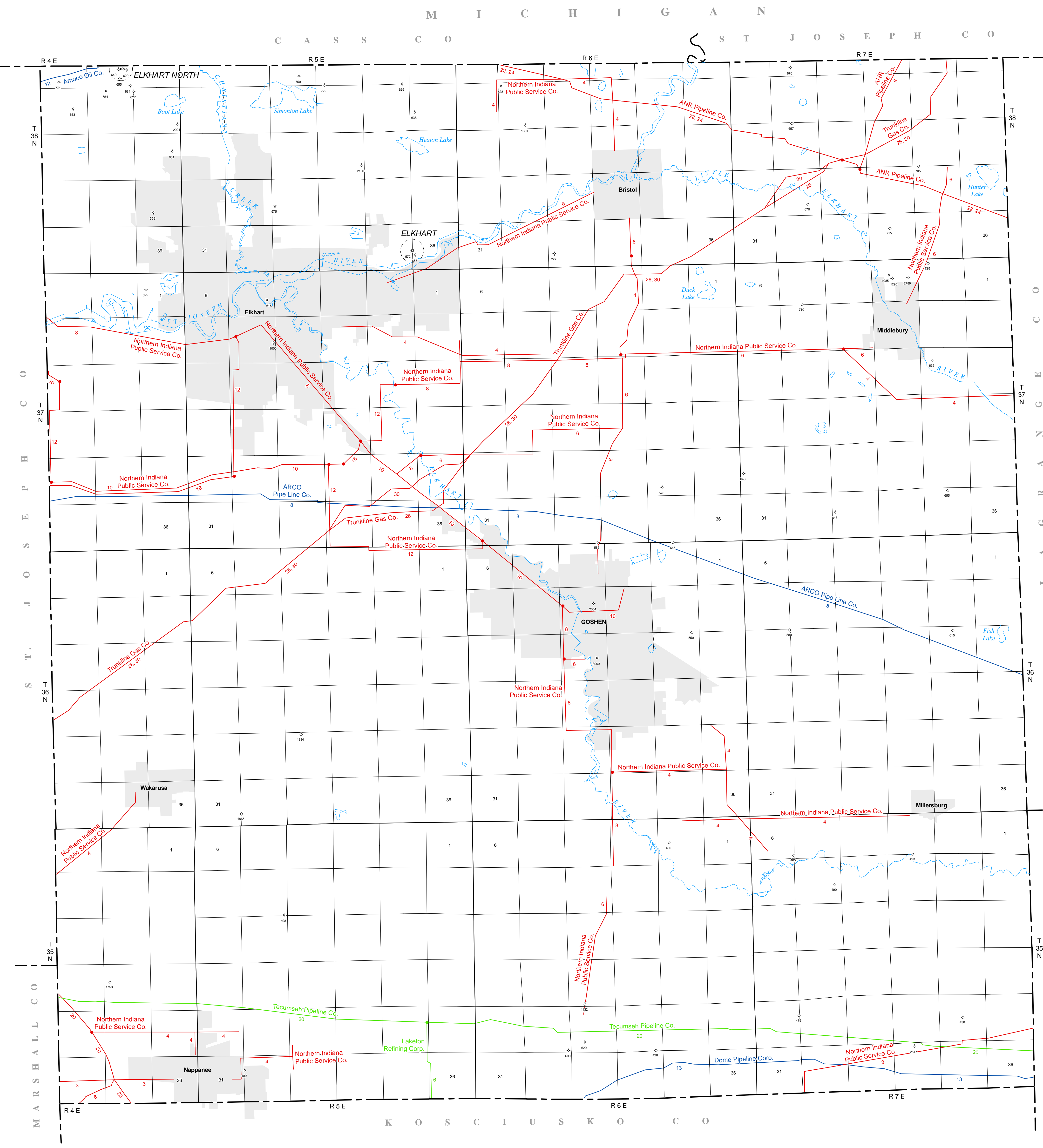
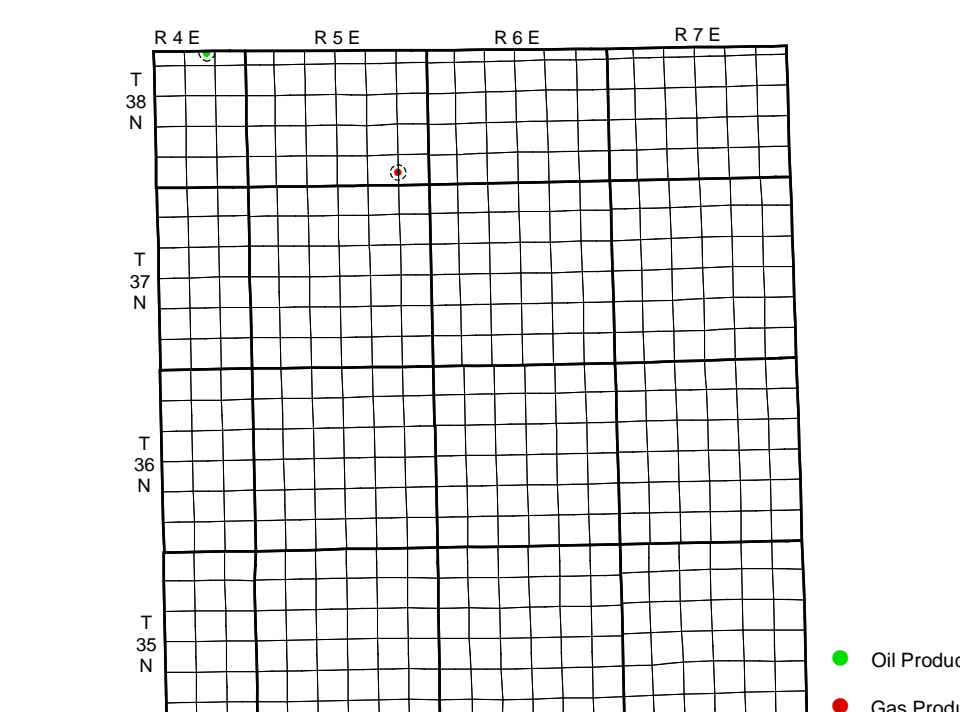
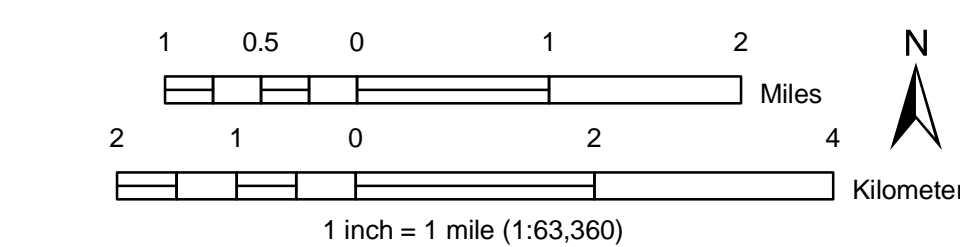


GENERAL DISCLAIMER

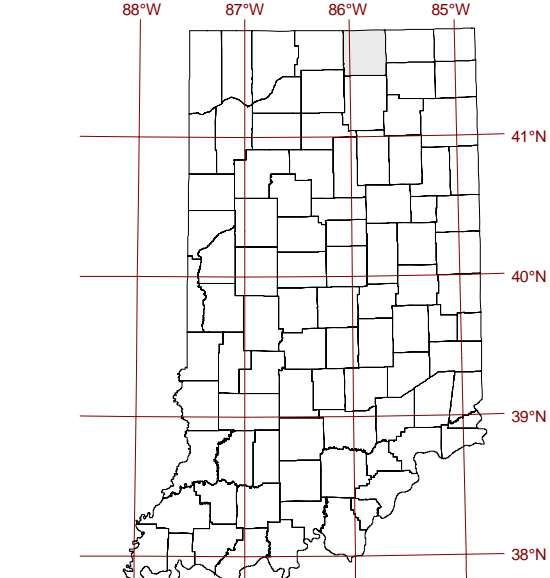
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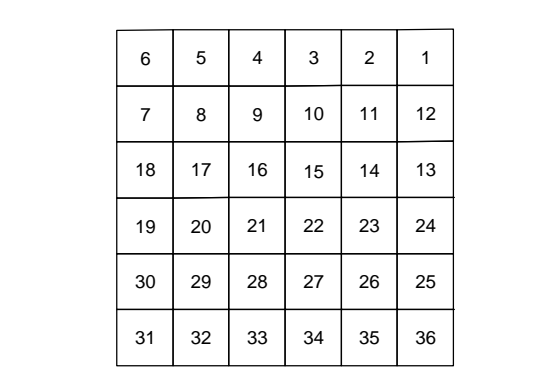
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Index map of Elkhart County showing U.S. Geological Survey 7 1/2-minute topographic quadrangle map names



Index map of Indiana showing the location of Elkhart County



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

Basemap features digitized from U.S. Geological Survey topographic quadrangle maps; scale 1:24,000. Water features from 2000 TIGERLine® files; intended scale 1:100,000 or smaller. Projection: Universal Transverse Mercator (UTM), Zone 16N. Horizontal Datum: North American Datum of 1983 (NAD83).

Digital compilation by R. D. Sluhsenrauch. Pipeline data from the Indiana Geological Survey's County Pipeline Work Maps, revised 1988 (intended scale 1:63,360 or smaller). Well data from the Indiana Geological Survey's Petroleum Database Management System, revised November 2007.