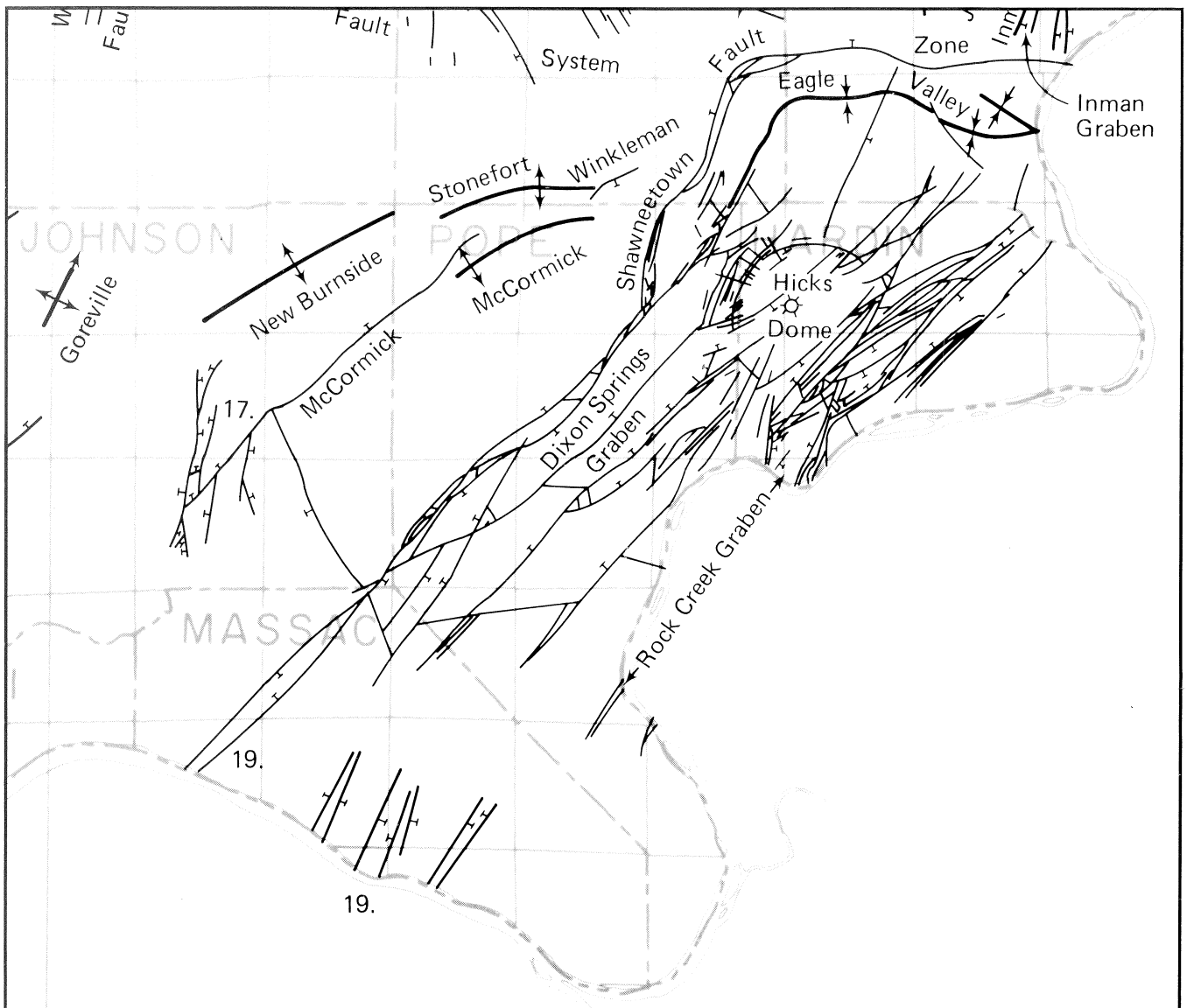


# STRUCTURAL FEATURES IN ILLINOIS – A COMPENDIUM

Janis D. Treworgy



*Cartography:* Fred Graszer

Treworgy, Janis D.

Structural features in Illinois—a compendium. Champaign,  
Ill. : State Geological Survey Division, 1981.

22 p. : 28 cm. — (Circular / Illinois State Geological Survey  
Division ; 519)

References: p. 14.

I. Geology, Structural—Illinois. II. Geology—Illinois—Nomenclature.  
1. Title.

Printed by authority of the State of Illinois (3,500/1981)

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## PLATE 1

Structural features in Illinois      back pocket

# STRUCTURAL FEATURES IN ILLINOIS – A COMPENDIUM

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## INTRODUCTION

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The following three lists of structural names and the accompanying map (pl. 1) constitute a compendium of nearly all of the structural features in Illinois that have been formally named in the literature. Much of the mapping in the past has been initiated by the search for oil and gas, coal, fluorspar, lead and zinc, and other mineral resources. This map reflects trends in mineral exploitation and, consequently, indicates areas where detailed geologic studies have been made.

Structural delineations on the map have been taken directly from the literature; therefore, the mapping horizon may differ from one structure to another. Although many of the structural features are shown to terminate at the state line on this map, most of them are known or suspected to continue into the adjacent states. There has been no attempt in this compilation to remap any structures on the basis of new data or new interpretations.

### Formally named structures

The first list consists of formally named structures. They are listed alphabetically and are followed by their locations (in parentheses), and references to original and major works on the structures. A few of these structures are not delineated on the map because they have not been substantiated by more recent mapping; an asterisk appears in front of their names. An asterisk also appears in front of names that have been replaced by newer names (the new names appear in parentheses after the former names). These structures with two names are listed twice—by the old and new names.

The structures of the Fluorspar Area Fault Complex have been treated differently because of their complexity. As many faults as possible from this area have been delineated on the map, and all of the formal structural names

within the complex are listed. With the exception of a few major features, however, the names are not indicated on the map because of a lack of space.

Named Silurian reefs are included in this compendium although they are not tectonically generated structures.

### Significant unnamed structures

Following the list of formally named structural features is a list of significant unnamed structures. This list includes two types of features. The first type (no. 1-13) consists of unnamed structural highs that are well delineated in published maps, and were selected because they were too large to be omitted. In all cases, the names given in the list refer to the oil field associated with the structure; only the identifying number appears with the delineation of the structure on the map. Many other known, but unnamed, structural features that are associated with oil fields (Van Den Berg, 1980) have been omitted.

The other type of feature (no. 14-19) consists of faults that appear on published maps, but have not been formally named. Besides these, there are still other faults that have been mapped and are documented only in unpublished field notes. Most of these are minor faults found in underground mines.

### Buried Precambrian hills

The third list of structural features contains the names and locations of all of the drill holes in Illinois that have encountered buried Precambrian hills. Although these hills are paleotopographic features, they generally correspond with structural highs in the younger Paleozoic rocks.

The list of references follows at the end.

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## FORMALLY NAMED STRUCTURES

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Structural names are followed by their locations (in parentheses) and references to original and major works on the structures.

\* An asterisk means one of two things: the structure is not delineated on the map, or the structure's name has been replaced by the new name that appears in parentheses after it. In the latter case, references are listed after the new name.

Abingdon Dome (D-3): Poor, 1927.

\* Albion Fault (see Albion-Ridgway Fault).

Albion-Ridgway Fault (I-7, J-7), formerly named Ridge-way-Omaha Monocline or Fault Zone (Cady et al., 1939): Bristol, 1975; Bristol and Treworgy, 1979; Harrison, 1951; Pullen, 1951; Smith and Cady, 1951.

\* America Graben: Heyl et al., 1965; Kolata et al., 1981; Ross, 1963.

Ancona Dome (C-6): Buschbach and Bond, 1974.

Anderson Anticline (G-4): Ball, 1952; Easton, 1942.

Argo Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Hubbert, 1944; Weller, J. M., et al., 1952.

Ashmore Dome (F-7, F-8, G-7, G-8): Buschbach and Bond, 1974; Clegg, 1965b; Meents, 1965.

Ashton Arch (B-5, B-6): Green, 1957; Kolata et al., 1978a and 1978b; Templeton and Willman, 1952; Willman and Templeton, 1951.

Astoria Anticline (E-3): Wanless, 1957.

Atwood Fault (K-5): Heyl et al., 1965; Weller, J. M., 1940.

\* Aurora Syncline: Cady, 1920; Willman and Payne, 1942.

\* Ava-Campbell Hill Anticline (see Campbell Hill Anticline).

Aviston Anticline (H-4): Bell, 1941.

Ayers Anticline (H-5): Blatchley, 1914; Bell, 1926c; Bell, 1928; Bell, 1941; Kay, 1915.

Babylon Anticline (D-3): Moulton, 1925.

Baldwin, Silurian reef (I-4): Bristol, 1974; Cahill et al., 1978.

Bardolph Anticline (D-2, E-2): Wanless, 1957.

Bartelso, Silurian reef (H-5): Bell, 1941; Bristol, 1974; Cahill et al., 1978; Carlton, 1940; Kay, 1915; Shaw, 1912; Shaw, 1923.

Bartelso East, Silurian reef (I-5): Bristol, 1974; Cahill et al., 1978.

Beckemeyer Dome (H-5): Bell, 1941.

\* Bellair-Champaign Uplift: Clegg, 1959; Mylius, 1923; Mylius, 1927.

\* Bellair Dome: Mylius, 1927.

Belleville Anticline (H-4, I-4): Bell, 1941.

Beltrees-Melville Anticline (H-3): Collingwood, 1933.

Big Creek Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Weller, J. M., et al., 1952; Weller, S., et al., 1920.

Birkbeck Syncline (A-3): Willman and Reynolds, 1947.

Black Jack Syncline (A-3): Willman and Reynolds, 1947.

Blackoak Dome (H-8): Easton, 1943.

Blairsville Dome (I-7): Rolley, 1951.

Blue Diggings Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Hubbert, 1944; Weller, J. M., et al., 1952; Weller, S., et al., 1920.

Bogota-Rinard Syncline (G-7, H-7): Du Bois and Siever, 1955; Lowenstam, 1951; Williams and Rolley, 1955.

Bonpas Anticline (H-8): Easton, 1943.

Boulder, Silurian reef (H-5): Bristol, 1974; Brownfield, 1954; Stevenson, 1968.

\* Bourbon Anticline: Clegg, 1959; Clegg, 1965b.

Bremen Anticline (J-4): Kay, 1916; Weller, S., 1915; Weller, S., and Weller, J. M., 1939.

Brereton Anticline (D-3, D-4): Wanless, 1957.

Brocton Dome (F-8), formerly named Oakland Dome (Clegg, 1959; Mylius, 1923): Buschbach and Bond, 1974; Clegg, 1965b.

- Brookville Dome (A-4, B-4): Buschbach and Bond, 1974; Kolata and Buschbach, 1976; Templeton and Willman, 1952.
- Brubaker, Silurian reef (H-6): Bristol, 1974.
- Brushy Anticline (J-6): Cady et al., 1939; Nelson and Krausse, in preparation.
- \* Brussels Syncline (see Troy-Brussels Syncline).
- Bryant Syncline (E-3, E-4): Wanless, 1957.
- Bungay Dome (I-7): Rolley, 1951.
- Burton Anticline (G-4): Ball, 1952; Easton, 1942.
- Bushnell Syncline (D-2, D-3): Wanless, 1957.
- Butler Anticline (G-4): Lee, 1915; Lee, 1926.
- Campbell Hill Anticline (J-4, J-5): Root, 1928; St. Clair, 1917a; Shaw, 1910; Weller, S., and Weller, J. M., 1939.
- Canton Anticline (D-3): Moulton, 1925.
- Canton Syncline (D-3, D-4): Wanless, 1957.
- Cap au Grès Faulted Flexure (H-2, H-3): Baxter, 1970; Cole, 1961; Collinson, 1957; Collinson et al., 1954; Douthit, 1959; Heigold and Ringler, 1979; Krey, 1924; Rubey, 1952; Treworgy, 1979a.
- Carlinville Anticline (G-4, G-3): Ball, 1952; Easton, 1942.
- \* Carlinville-Centralia Anticlinal Belt: Folk and Swann, 1946; Workman, 1940.
- Carlinville Dome (G-4): Blatchley, 1914; Easton, 1942; Kay, 1912; Kay, 1915; Lee, 1926.
- Carlinville North Dome (G-4): Ball, 1952; Easton, 1942.
- Carlyle Dome (H-5) (does not extend to depth): Bell, 1941; Kay, 1915; Shaw, 1912.
- Carrollton Anticline (north) (G-3): Collingwood, 1933.
- Carrollton Anticline (south) (G-3): Collingwood, 1933.
- Cedar Creek Dome (J-5): St. Clair, 1917a.
- Cedar Point Anticline (C-5): Willman and Payne, 1942.
- Centralia Anticline (H-5): Bell, 1939; Bristol and Howard, 1976; Brownfield, 1954; Koch and Farlee, 1939; Stevenson, 1969.
- Centralia Fault Zone (H-5, I-5): Bristol and Buschbach, 1973; Brownfield, 1954; Keys and Nelson, 1980.
- \* Chesterville Anticline: Clegg, 1959; Clegg, 1965b.
- Chicago Heights, Silurian reef (B-8): Bretz, 1939; Bretz, 1943; Willman, 1943.
- Clay City Anticlinal Belt (H-7, I-7), includes what was formerly named Noble Anticline: Bell, 1943; Du Bois and Siever, 1955; Lowenstam, 1951; Siever and Cady, 1951.
- \* Clifford Anticline: Cady, 1916.
- Clinton Syncline (D-5, E-5, E-6): Clegg, 1972.
- Colfax Syncline (D-6, E-6): Clegg, 1970; Clegg, 1972.
- Colmar Anticline (E-2): Hinds, 1919.
- Columbia Syncline (H-3, I-3): Bristol and Buschbach, 1973; Weller, J. M., 1939; Weller, S., and Weller, J. M., 1939.
- Conant Dome (I-5): Cady et al., 1940.
- Cooks Mills Anticline (F-7): Clegg, 1959; Clegg, 1965b.
- Cottage Anticline (J-7): Nelson and Krausse, in preparation.
- Cottage Grove Fault System (J-5, J-6, J-7): Bell and Leighton, 1949; Cady, 1919a; Cady et al., 1938; Cady et al., 1939; Clark and Royds, 1948; Henbest, 1929; Heyl and Brock, 1961; Heyl et al., 1965; Heyl, 1972; Nelson and Krausse, in preparation.
- Cottonwood Fault (J-7): Bristol, 1975; Bristol and Treworgy, 1979.
- Coulterville North, Silurian reef (I-4): Bristol, 1974; Cahill et al., 1978.
- Court Creek Dome (D-3): Poor, 1927.
- Crescent City Dome (D-8): Bell, 1961; Buschbach and Bond, 1974.
- Dahlgren Anticline (I-6): Rolley, 1951.
- Daisy Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Hubbert, 1944; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- Dale Dome (I-7, J-7): Cady et al., 1939; Rolley, 1951.

- Darmstadt, Silurian reef (I-4): Bristol, 1974; Cahill et al., 1978.
- \* Darmstadt Anticline: Bell, 1929a; Cady et al., 1940; Shaw, 1912; Shaw, 1921; Weller, J. M., and Bell, 1937.
- Davis Syncline (Fluorspar Area Fault Complex): Brecke, 1962.
- \* Dayton Syncline; Willman and Payne, 1942.
- Deer Lick Dome (H-2): Collinson, 1957; Rubey, 1952; Treworgy, 1979a.
- De Land Dome (E-6): Clegg, 1972; Heigold et al., 1964; Howard, 1964; Treworgy, 1979b.
- Delta Fault (K-5): Weller, J. M., 1940; Weller, J. M., and Ekblaw, 1940.
- Depue Anticline (C-5): Willman and Payne, 1942.
- Des Plaines Disturbance (A-8): Beck, 1965; Buschbach, 1964; Buschbach and Heim, 1972; Emrich and Bergstrom, 1962; Willman, 1971.
- Dimick Fault (Fluorspar Area Fault Complex): Weller, J. M., et al., 1952.
- Dixon Springs Graben (J-6, J-7, K-6, K-7) (Fluorspar Area Fault Complex): Baxter et al., 1967; Heyl et al., 1965; Kolata et al., 1981; Ross, 1963; Weller, J. M., et al., 1952; Weller, S., and Krey, 1939.
- Donnellson Anticline (G-5): Bell, 1941.
- Dowell Fault Zone (I-5, J-5): Nelson and Krausse, in preparation.
- Downs Anticline (D-6, E-6): Clegg, 1972; Heigold et al., 1964; Howard, 1964.
- Drake-White Hall Anticline (F-3, G-3): Collingwood, 1933.
- Dudley Dome (F-8): Clegg, 1965b.
- \* Dupo Anticline (see Waterloo-Dupo Anticline).
- \* Du Quoin Monocline (H-5, I-5, J-5): Bell, 1943; Bement, 1929; Brownfield, 1954; Cady et al., 1938; Clark and Royds, 1948; Cohee and Carter, 1939; Desborough, 1961a; Fisher, 1925; Keys and Nelson, 1980; McGinnis and Heigold, 1961; Moulton and Bell, 1929; Nelson and Krausse, in preparation.
- Dwight Anticline (C-6, C-7, D-7): Willman and Payne, 1942.
- Eagle Valley Syncline (J-7) (Fluorspar Area Fault Complex): Baxter et al., 1967; Butts, 1917; Butts, 1925; Cady, 1952; Heyl et al., 1965; McGinnis and Bradbury, 1964; Smith, 1957; Weller, S., et al., 1920.
- Earlville Sag (B-5, B-6): Willman and Payne, 1942.
- \* East Loudon Anticline: Newton, 1941.
- Elbridge, Silurian reef (F-8): Bristol, 1974; Buschbach and Bond, 1974; Clegg, 1965b.
- Elmwood Syncline (D-3, D-4): Wanless, 1957.
- Empire Fault (Fluorspar Area Fault Complex): Baxter et al., 1967; Weller, J. M., et al., 1952.
- \* Equality Fault: Bristol, 1975; Bristol and Treworgy, 1979.
- Eureka Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Weller, J. M., et al., 1952.
- Extension Fault, sometimes used for southern part of the Rosiclare Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Weller, J. M., et al., 1952.
- Fairfield Basin (inset map): Allgaier and Hopkins, 1975; Bell et al., 1964.
- Fairman Anticline (H-5): Bristol and Buschbach, 1973; Smoot, 1958.
- \* Fairview-Rosiclare Fault (see Rosiclare Fault): Hubbert, 1944.
- Fairview Syncline (D-3, D-4): Wanless, 1957.
- Fancher-Mode Anticline (G-6): Newton, 1941.
- Farmington Anticline (D-3, D-4): Wanless, 1957.
- Fishhook Anticline (F-2): Howard, 1961; Meents, 1958; Treworgy, 1979c.
- Flora Dome (H-7): Bristol and Howard, 1976; Lowenstam, 1951.
- Fluorspar Area Fault Complex (inset map): Bastin, 1931; Baxter and Desborough, 1965; Baxter et al., 1967; Baxter et al., 1963; Clegg and Bradbury, 1956; Heyl and Brock, 1961; Heyl et al., 1965; Hook, 1974; Hubbert, 1944; McGinnis and Bradbury, 1964; Pinckney, 1976; Stonehouse and Wilson, 1955; Trace, 1974; Weller, J. M., 1940; Weller, J. M., et al., 1952; Weller, S., et al., 1920; Weller, S., and Krey, 1939.
- Forreston Dome (A-4): Kolata and Buschbach, 1976.

- Fosterburg-Staunton Anticline (H-3, H-4): Bell, 1941.
- Frogtown North, Silurian reef (H-5): Bristol, 1974; Cahill et al., 1978.
- Galena Junction Syncline (A-3): Willman and Reynolds, 1947.
- Galena Syncline (A-3): Bradbury et al., 1956; Shaw and Trowbridge, 1916; Willman and Reynolds, 1947.
- Garfield Dome (C-6): Buschbach and Bond, 1974.
- Germantown East, Silurian reef (H-4, H-5): Bristol, 1974; Cahill et al., 1978.
- Gibson City Dome (E-7): Clegg, 1970; Heigold et al., 1964; Howard, 1964.
- Gilead Anticline (G-2): Rubey, 1952.
- Glasford Disturbance (D-4): Buschbach and Bond, 1974; Buschbach and Ryan, 1963.
- Glenridge Anticline (H-5): Bell, 1926c; Bell, 1927.
- \* Gold Hill Fault (see Shawneetown Fault Zone): Brokaw, 1916.
- \* Good Hope Fault (see Extension Fault).
- Goose Creek Fault System (Fluorspar Area Fault Complex): Baxter et al., 1963; Baxter and Desborough, 1965; Johnson, 1957.
- Goreville Anticlinal Nose (J-5, J-6): Weller, J. M., 1940.
- Graham-Ginte Syncline (A-3): Willman and Reynolds, 1947.
- Grandview Dome (F-8): Clegg, 1965b.
- Granville Basin (C-5): Willman and Payne, 1942.
- \* Greathouse Island Fault (now part of Mt. Carmel-New Harmony Fault): Bristol, 1975; Bristol and Treworgy, 1979.
- Greenridge Syncline (G-4): Ball, 1952.
- Greenville Dome (H-5), part of structure that was formerly named Pocahontas Anticline and then Stubblefield Anticline (see these names for references): Bell, 1941.
- Gridley Dome (D-6): Clegg, 1972.
- Grimes Anticline (G-3, G-4): Easton, 1942.
- Grindstaff Fault (Fluorspar Area Fault Complex): Butts, 1925; Smith, 1957.
- Hamp Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Baxter et al., 1967; Brown et al., 1954; Weller, J. M., et al., 1952.
- Hardin Syncline (G-2): Collinson, 1957; Collinson et al., 1954; Rubey, 1952; Treworgy, 1979a.
- \* Harrisburg Fault (now part of Cottage Grove Fault System): Cady, 1919a.
- Harrison Creek Anticline (J-5, K-5): Heyl et al., 1965; Weller, J. M., 1940; Weller, J. M., and Ekblaw, 1940.
- Haw Creek Dome (D-3): Poor, 1927.
- Hayes Dome (F-7): Bristol and Buschbach, 1973; Bristol and Prescott, 1968.
- Hennepin Syncline (C-5): Willman and Payne, 1942.
- Herald-Phillipstown Fault (I-7, I-8, J-7): Bristol, 1975; Bristol and Treworgy, 1979; Harrison, 1951; Pullen, 1951.
- Herod Fault Zone (Fluorspar Area Fault Complex): Baxter et al., 1967; Butts, 1917; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- Herscher Dome (C-7): Bell, 1961, Buschbach, 1964; Buschbach and Bond, 1974; Willman and Templeton, 1951.
- Hickory Grove Anticline (G-4): Easton, 1942.
- Hicks Dome (J-7) (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Baxter et al., 1967; Bradbury et al., 1955; Butts, 1917; Clegg and Bradbury, 1956; Heyl and Brock, 1961; Heyl et al., 1965; McGinnis and Bradbury, 1964; Weller, J. M., 1940; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- \* Highland Dome: Shaw, 1912.
- \* Hill Fault (see Inman West Fault): Bristol, 1975; Bristol and Treworgy, 1979.
- \* Hill Graben (see Inman Graben): Bristol, 1975; Bristol and Treworgy, 1979.
- Hillsboro Dome (G-5): Buschbach and Bond, 1974.



- Hillside Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Hubbert, 1944; Weller, J. M., et al., 1952.
- Hoffman Anticline (H-5): Bell, 1926b; Kay, 1915; St. Clair, 1917b; Shaw, 1912.
- Hogthief Creek Fault Zone (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Baxter et al., 1963; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- Holland Anticline (G-6): Newton, 1941.
- Hoodville Dome (I-6): Rolley, 1951.
- Hookdale Dome (H-5): Buschbach and Bond, 1974.
- Horton Hill Anticline (Fluorspar Area Fault Complex): Baxter et al., 1967; Butts, 1917; Butts, 1925; Cady, 1926; Weller, J. M., 1940; Weller, S., et al., 1920.
- Hudson Dome (D-5, D-6): Buschbach and Bond, 1974; Clegg, 1972.
- Hume Dome (F-8): Buschbach and Bond, 1974.
- Illinois Basin (inset map): Atherton, 1971; Bell et al., 1964; Bristol, 1968b; Bristol and Buschbach, 1971; Bristol and Buschbach, 1973; Bristol and Howard, 1976; Buschbach and Atherton, 1979; Clark and Royds, 1948; Eardley, 1962; King, 1951; Krause and Treworgy, 1979; Lockett, 1947; Potter and Pettijohn, 1963; Stevenson and Whiting, 1967; Swann and Bell, 1958; Wanless, 1955; Weller, J. M., 1936; Weller, J. M., and Bell, 1937.
- Illinois Furnace Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- Ina Dome (I-6): Cady et al., 1938.
- Inman East Fault (J-7): Bristol, 1975; Bristol and Treworgy, 1979; Pullen, 1951.
- Inman Fault (J-7): Bristol, 1975; Bristol and Treworgy, 1979.
- Inman Graben (J-7): Bristol and Treworgy, 1979.
- Inman West Fault (J-7): Bristol and Treworgy, 1979.
- Interstate Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965.
- \* Iola Dome: Weller, J. M., and Bell, 1936.
- \* Irishtown Anticline: Bell, 1941; Blatchley, 1914; Kay, 1915; Shaw, 1912.
- \* Iuka Anticline: Easton, 1944.
- Jamestown Anticline (I-4): Bell et al., 1931.
- Junction City Dome (H-5): Bell, 1926b; Brownfield, 1954; St. Clair, 1917b; Shaw, 1923.
- Junction Fault (J-7): Bristol, 1975; Bristol and Treworgy, 1979.
- \* Junction Horst: Bristol, 1975; Bristol and Treworgy, 1979.
- \* Junction West Fault: Bristol, 1975; Bristol and Treworgy, 1979.
- Kane Anticline: (G-3): Collingwood, 1933.
- Kankakee Arch (inset map): Bell et al., 1964; Buschbach, 1964; Ekblaw, 1938; Green, 1957; Kolata et al., 1978a and 1978b; Pirtle, 1932; Willman and Payne, 1942; Willman and Payne, 1943; Willman and Templeton, 1951.
- Kempton Syncline (C-7, D-7): Willman and Payne, 1942.
- Kenner Dome (H-6): Easton, 1944; Lowenstam, 1951.
- King Anticline (I-6): Folk and Swann, 1946.
- Kritesville Syncline (G-2): Rubey, 1952.
- Lake Bloomington Dome (D-6): Buschbach and Bond, 1974; Clegg, 1972.
- La Salle Anticlinal Belt (inset map): Bell, 1943; Bell et al., 1964; Blatchley, 1910; Blatchley, 1913; Bristol and Buschbach, 1973; Cady, 1912a; Cady, 1912b; Cady, 1915; Cady, 1919b; Cady, 1920; Clark and Royds, 1948; Clegg, 1959; Clegg, 1965a; Clegg, 1965b; Clegg, 1970; Cohee and Carter, 1939; Freeman, 1868; Green, 1957; Kay, 1917; McGinnis and Heigold, 1961; Mylius, 1921b; Mylius, 1927; Payne, 1939; Sauer, 1916; Swann and Bell, 1958; Thwaites, 1927; Weller, S., 1906; Willman and Payne, 1942; Worthen, 1890.
- Last Chance Fault (Fluorspar Area Fault Complex): Weller, J. M., et al., 1952.
- Leaf River Anticline (A-5): Buschbach and Bond, 1974; Kolata and Buschbach, 1976.
- Lee Fault (Fluorspar Area Fault Complex): Baxter and

- Desborough, 1965; Brown et al., 1954; Heyl et al., 1965; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- \* Lenzburg Anticline: Bell, 1929a.
- Levan Anticline (J-5): Root, 1928.
- Lexington Dome (D-6): Buschbach and Bond, 1974; Clegg, 1972.
- Lillyville North, Silurian reef (G-7): W. F. Meents, 1980, personal communication; Van Den Berg, 1980.
- Lincoln Dome (E-5): Buschbach and Bond, 1974; Heigold et al., 1964; Howard, 1964.
- Lincoln Fold (H-2, H-3): Baxter, 1970; Collingwood, 1933; Collinson et al., 1954; Koenig, 1961; Krey, 1924; McQueen et al., 1941; Rubey, 1952; Searight and Searight, 1961; Treworgy, 1979a.
- Littleton Anticline (E-2): Wanless, 1957.
- Lively Grove, Silurian reef (I-4): Bristol, 1974; Cahill et al., 1978.
- Longbranch Monocline (J-6, J-7): Cady et al., 1939.
- Louden Anticline (G-6, H-6): Bristol and Buschbach, 1973; Bristol and Howard, 1976; Buschbach and Bond, 1974; Cohee and Carter, 1939; Du Bois, 1951; Newton, 1941.
- Louisville Anticline (H-6): Weller, J. M., and Bell, 1936.
- Lowder Anticline (F-4): Easton, 1942.
- Lusk Creek Fault Zone (Fluorspar Area Fault Complex): Baxter et al., 1967; Heyl et al., 1965; Weller, J. M., et al., 1952.
- Macoupin Dome (G-4): Easton, 1942; Lee, 1915.
- Mahomet Dome (E-7): Bell, 1961; Buschbach and Bond, 1974; Heigold et al., 1964; Howard, 1964.
- Makanda Anticline (J-5): St. Clair, 1917a.
- Marine, Silurian reef (H-4): Bell and Leighton, 1949; Bristol, 1974; Lowenstam and Du Bois, 1946; Lowenstam, 1948; Lowenstam, 1950; Lowenstam, 1952; Lowenstam, 1957.
- Marissa Dome (I-4): Bell, 1929a; Cady et al., 1940.
- \* Marseilles Anticline: Willman and Payne, 1942.
- Marshall-Sidell Syncline (E-8, F-8, G-8), includes what was formerly named West Union Syncline (Moulton and Young, 1928): Cady, 1952; Clegg, 1965a; Clegg, 1965b; Mylius, 1927; Potter, 1956; Stevenson and Whiting, 1967.
- Martinsville Dome (G-8): Bristol and Buschbach, 1973; Clegg, 1965a; Clegg, 1965b; Cohee, 1941; Moulton, 1926a; Moulton and Young, 1928; Mylius, 1927.
- Mason Anticline (H-6): Newton, 1941.
- Mattoon Anticline (F-7, G-7): Clegg, 1959; Clegg, 1965b.
- Maunie Fault (I-7, I-8, J-7): Bristol, 1975; Bristol and Treworgy, 1979; Harrison, 1951; Pullen, 1951.
- McClure Anticlinal Nose (K-5): Weller, J. M., 1940.
- McCormick Anticline (J-6): Brokaw, 1916; Heyl et al., 1965; Stonehouse and Wilson, 1955; Weller, J. M., 1940.
- McCormick Fault (J-6, K-6): Potter, 1957; Stonehouse and Wilson, 1955.
- McKinley, Silurian reef (I-4): Bandy, 1950; Bristol, 1974; Cady et al., 1940; Cahill et al., 1978.
- McWade Fault (Fluorspar Area Fault Complex): Hubbert, 1944; Schwerin, 1928.
- Media Anticline (D-2): Bell and Workman, 1928.
- \* Mendota Anticline: Willman and Payne, 1942.
- Meppen Syncline (G-2): Collinson, 1957; Collinson et al., 1954; Rubey, 1952; Treworgy, 1979a.
- Millbrig Syncline (A-3): Shaw and Trowbridge, 1916; Willman and Reynolds, 1947.
- Millstadt Anticline (I-3): Bell, 1941.
- Minick Anticline (B-5): Willman and Payne, 1942.
- \* Mink Island Fault (now part of Inman East Fault): Bristol, 1975; Harrison, 1951.
- Mississippi River Arch (inset map): Bell et al., 1964; Edmund and Anderson, 1967; Howell, 1935; Wilson, 1939.
- Modesto Anticline (G-4): Ball, 1952; Easton, 1942.
- Monroe City Syncline (I-3): Bristol and Buschbach, 1973; Weller, S., and Weller, J. M., 1939.

- \* Morris Syncline: Willman and Payne, 1942.
- \* Mt. Carmel Fault (see Mt. Carmel-New Harmony Fault).
- Mt. Carmel-New Harmony Fault (I-8, I-7, J-7): Bristol and Treworgy, 1979; Cady et al., 1955; Pullen, 1951.
- Mud Creek Fault (A-5): Kolata et al., 1978a; Templeton and Willman, 1952.
- Murdock Syncline (F-7, G-7); Bristol and Prescott, 1968; Clegg, 1959; Clegg, 1965a; Clegg, 1965b.
- Nashville, Silurian reef (I-5): Bristol, 1974; Cahill et al., 1978; Kay, 1915; Shaw, 1912; Shaw, 1921.
- Nevins, Silurian reef (F-8): Bristol, 1974; Buschbach and Bond, 1974; Clegg, 1965b.
- New Baden East, Silurian reef (H-4): Bristol, 1968a; Bristol, 1974; Cahill et al., 1978.
- New Burnside Anticline (J-6): Brokaw, 1916; Stonehouse and Wilson, 1955; Weller, J. M., 1940.
- New Douglas Dome (G-4, H-4), formerly named Sorento Dome (see this name for references): Bell, 1926e; Bell, 1941.
- \* New Harmony Anticline (see Wabash River Anticline): Siever, 1951.
- \* New Harmony Fault (see Mt. Carmel-New Harmony Fault).
- New Memphis, Silurian reef (I-4): Bristol, 1974; Cahill et al., 1978; Van Horn, 1956.
- New Memphis South, Silurian reef (I-4): Bristol, 1974; Cahill et al., 1978.
- Nilwood Anticline (G-4): Ball, 1952; Easton, 1942.
- \* Noble Anticline (now part of Clay City Anticlinal Belt): Bell and Cohee, 1938; Siever and Cady, 1951.
- Nokomis Anticline (G-5): Moulton, 1925; Payne and Cady, 1944.
- North Fork Fault (J-7): Bristol, 1975; Bristol and Treworgy, 1979.
- Nutwood Anticline (G-2): Baxter, 1970; Collinson, 1957; Collinson et al., 1954; Rubey, 1952; Treworgy, 1979a.
- Oakdale Syncline (C-6, C-7, D-7): Willman and Payne, 1942.
- Oakland Anticlinal Belt (F-7, F-8, G-7, G-8): Clegg, 1959; Clegg, 1965b; Mylius, 1923; Mylius, 1927.
- \* Oakland Dome (see Brocton Dome): Clegg, 1959; Mylius, 1923.
- Odell Anticline (C-6, D-6): Willman and Payne, 1942.
- O'Fallon Dome (H-3): Bell, 1941; Kay, 1915.
- \* Oglesby Fault: Green, 1957.
- Oglesby Syncline (C-5): Willman and Payne, 1942.
- Ohlman Anticline (G-5): Blatchley, 1914; Kay, 1915; Moulton, 1925; Payne and Cady, 1944.
- Okawville, Silurian reef (I-4): Bristol, 1974; Cahill et al., 1978.
- Okawville North, Silurian reef (I-4): Bristol, 1974; Cahill et al., 1978.
- Old Ripley Anticline (H-4, H-5), formerly named Pocahontas Anticline and then Stubblefield Anticline (see these names for references): Bell, 1941.
- Omaha Dome (J-7), doming is due to igneous intrusion; Devonian and older rocks are undisturbed: Bradbury, 1962; Bristol, 1975; Cady et al., 1939; Clegg and Bradbury, 1956; English and Grogan, 1948; Pullen, 1951; Swann, 1951.
- Omaha Graben (J-7): Bristol, 1975.
- \* Omega Anticline: Weller, J. M., and Bell, 1936.
- Oregon Anticline (A-5, B-5): Bevan, 1935; Bevan, 1939; Kolata et al., 1978a and 1978b; Templeton and Willman, 1952; Willman and Templeton, 1951.
- \* Osman Monocline: Clegg, 1972.
- Oswego Syncline (B-6, B-7): Willman and Payne, 1942.
- Ottawa Anticline (C-6): Willman and Payne, 1942.
- \* Ottawa Horst: Green, 1957.
- Otter Creek Syncline (G-2, G-3): Baxter, 1970; Collinson, 1957; Collinson et al., 1954; Rubey 1952; Treworgy, 1979a.
- \* Paducah Graben: Heyl et al., 1965; Kolata et al., 1981; Ross, 1963; Ross, 1964.
- \* Paine Dome (see Xenia Dome): Easton, 1944.

- Panama Anticline (G-4), formerly named Sorento Dome (see this name for references): Bell, 1926e; Bell, 1941; Lee, 1926.
- \*Parker Dome (see Westfield Dome).
- Parkersburg Dome (H-8): Easton, 1943.
- Parnell Dome (E-6): Clegg, 1972; Heigold et al., 1964; Howard, 1964; Treworgy, 1979b.
- Patoka, Silurian reef (H-5): Bristol, 1974; Smoot, 1958; Squires et al., 1950.
- Patoka Anticline (H-5): Bristol, 1974; Bristol and Buschbach, 1973; Smoot, 1958.
- Patoka East, Silurian reef (H-5): Bristol, 1974; Lester, 1968.
- Payson Anticline (F-1): Cox, 1927.
- Pecatonica Dome (A-5): Buschbach and Bond, 1974.
- Pell Fault (Fluorspar Area Fault Complex): Baxter et al., 1967; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- Peru Anticline (C-5): Willman and Payne, 1942.
- \*Petersburg Basin: Workman and Gillette, 1956.
- Peters Creek Fault System (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Baxter et al., 1963; Brecke, 1964; Brown et al., 1954; Grogan, 1949; Heyl and Brock, 1961; Heyl et al., 1965; Hubbert, 1944; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- Pierce Fault (Fluorspar Area Fault Complex): Baxter et al., 1967; Weller, J. M., et al., 1952.
- Pinckneyville Anticline (I-5): Bell et al., 1931; Cady et al., 1938.
- Pitcher Lake Fault (J-7): Bristol, 1975; Bristol and Treworgy, 1979; Harrison, 1951.
- Pittsburg Anticline (J-6): Nelson and Krause, in preparation.
- Pittsfield Anticline (F-1, F-2): Bell, 1926d; Collingwood, 1933; Coryell, 1919; Krey, 1924; Weller, J. M., and Bell, 1937.
- Plainview Syncline (G-3, G-4): Easton, 1942.
- Plum River Fault Zone (A-3, A-4, A-5), formerly named Savanna-Sabula Anticline (see this name for references): Kolata and Buschbach, 1976.
- \*Pocahontas Anticline (see Stubblefield Anticline): Kay, 1915.
- Polo Basin (B-4): Kolata et al., 1978b; Templeton and Willman, 1952; Willman and Templeton, 1951.
- Pomona Fault (J-5): Desborough, 1958; Desborough, 1961b.
- Pontiac Dome (D-6): Buschbach and Bond, 1974.
- Portage Syncline (A-3): Willman and Reynolds, 1947.
- Potato Hill Syncline (Fluorspar Area Fault Complex): Butts, 1917; Butts, 1925; Cady, 1926; Weller, S., et al., 1920.
- Pottsville Syncline (J-5, K-5): Weller, J. M., 1940; Weller, J. M., and Ekblaw, 1940.
- Racoon Lake, Silurian reef (H-5): Bristol, 1974; Brownfield, 1954.
- Ransom Syncline (C-6, D-6): Willman and Payne, 1942.
- \*Rattlesnake Ferry Fault Zone (see Ste. Genevieve Fault Zone).
- Raum Fault (Fluorspar Area Fault Complex): Baxter et al., 1967.
- Redhead Anticline (H-8): Easton, 1943.
- Rend Lake Fault System (I-5, I-6, J-6): Keys and Nelson, 1980.
- Reno Anticline (H-4): Bell, 1941.
- Ribeyre Island Fault (I-8): Bristol and Treworgy, 1979.
- Ridge Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965.
- \*Ridgeway-Omaha Monocline or Fault Zone (see Albion-Ridgeway Fault): Cady et al., 1939.
- \*Ridgeway Fault (see Albion-Ridgeway Fault).
- Ridgeway Graben (J-7): Bristol, 1975; Bristol and Treworgy, 1979.
- Ripley Syncline (E-2, E-3): Wanless, 1957.
- Rock Creek Graben (J-7, K-7): Baxter and Desborough,

- 1965; Baxter et al., 1967; Baxter et al., 1963; Heyl et al., 1965; Kolata et al., 1981; McGinnis and Bradbury, 1964; Ross, 1963; Ross, 1964; Weller, J. M., et al., 1952.
- Rose Creek Fault (Fluorspar Area Fault Complex): Brown et al., 1954; Weller, J. M., et al., 1952.
- Rosiclare Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Hubbert, 1944; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- Rural Hill Anticline (I-6, J-6): Rolley, 1951.
- Sailor Springs Dome (H-7): Bristol and Howard, 1976; Lowenstam, 1951.
- St. David Anticline (D-4, E-3): Wanless, 1957.
- Ste. Genevieve Fault Zone (J-4, J-5, K-5), also known as Rattlesnake Ferry Fault Zone: Bristol and Buschbach, 1973; Desborough, 1958; Desborough, 1961c; Heyl et al., 1965; McGinnis and Heigold, 1961; Weller, J. M., and Ekblaw, 1940.
- St. Jacob Dome (H-4): Bell, 1961; Bristol and Buschbach, 1973; Buschbach and Bond, 1974; Lowenstam, 1948.
- St. James Anticline (H-6): Newton, 1941; Stevenson, 1964.
- St. Libory, Silurian reef (I-4): Bristol, 1974; Cahill et al., 1978.
- Salem Anticline (H-5, H-6, I-6): Arnold, 1939; Bristol and Buschbach, 1973; Brownfield, 1954; Cohee and Carter, 1939; Siever, 1950.
- Saline River Fault (Fluorspar Area Fault Complex): Butts, 1925; Cady et al., 1939; Smith, 1957.
- Samsville Anticline (I-7): Easton, 1943.
- Sandoval, Silurian reef (H-5): Bell, 1927; Bristol, 1974; Brownfield, 1954; Hoover, 1944; Moulton and Bell, 1929; St. Clair, 1917b; Spitznagel and Moore, 1939.
- Sandwich Fault Zone (B-5, B-6, B-7, C-7): Beck, 1965; Buschbach, 1964; Green, 1957; Heigold, 1972; Kolata et al., 1978a and 1978b; McGinnis and Heigold, 1961; Ostrom, 1957; Suter et al., 1959; Willman, 1971; Willman and Payne, 1942; Willman and Payne, 1943; Willman and Templeton, 1951.
- Sangamon Arch (inset map): Collinson, 1967; Whiting and Stevenson, 1965; Willman et al., 1975.
- Saratoga Anticlinal Nose (J-5, K-5): Weller, J. M., 1940.
- \*Savanna-Sabula Anticline (see Plum River Fault Zone): Cady, 1920; Carman, 1910; McGee, 1890; Savage, 1905; Templeton and Willman, 1952; Weller, J. M., 1935; Willman and Templeton, 1951.
- \*Schuyler Arch: Workman and Gillette, 1956.
- Sciota Anticline (D-2): Buschbach and Bond, 1974; Wanless, 1957.
- Seatonville Syncline (B-5, C-5): Willman and Payne, 1942.
- Seville Anticline (E-2, E-3): Wanless, 1957.
- Shanghai Dome (C-2, C-3): Buschbach and Bond, 1974.
- Shattuc Dome (H-5): Bristol and Buschbach, 1973; Brownfield, 1954.
- Shaw Dome (F-7): Bristol and Prescott, 1968.
- Shawneetown Fault Zone (J-6, J-7), formerly named Gold Hill Fault (Brokaw, 1916): Bristol and Treworgy, 1979; Butts, 1925; Cady, 1926; Cady et al., 1939; Clark and Royds, 1948; Clegg and Bradbury, 1956; Heyl and Brock, 1961; Heyl et al., 1965; McGinnis and Bradbury, 1964; McGinnis and Heigold, 1961; Smith, 1957; Swann and Bell, 1958; Weller, J. M., et al., 1952.
- Shelby Fault (Fluorspar Area Fault Complex): Baxter et al., 1967; Brown et al., 1954; Weller, J. M., et al., 1952.
- Shelbyville Anticline (G-6): Newton, 1941.
- Shetlerville Fault (Fluorspar Area Fault Complex): Baxter et al., 1967; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- Shipman Anticline (G-4): Easton, 1942.
- Shoal Creek Syncline (G-4): Lee, 1915.
- Sigel Anticline (G-6, G-7): Newton, 1941.
- \*Siggins Dome: Clegg, 1959; Mylius, 1927.
- Siloam Anticline (H-6): Bristol and Howard, 1976; Easton, 1944.
- Smallpox Creek Syncline (A-3): Bradbury et al., 1956.
- \*Sorento Dome (see New Douglas Dome and Panama Anticline): Bell, 1926e; Bell, 1941; Blatchley, 1914; Kay, 1915.

- South Johnson Dome (G-8): Mylius, 1927.
- South Litchfield Dome (G-4): Easton, 1942; Lee, 1915.
- Spanish Needle Creek Dome (G-4): Easton, 1942; Kay, 1916; Lee, 1915.
- Sparta Shelf (inset map): Meents and Swann, 1965; North, 1969.
- \*Sparta Syncline: Moulton, 1926b.
- Spring Valley Anticline (C-5): Willman and Payne, 1942.
- Star Union Syncline (C-5): Willman and Payne, 1942.
- State Line, Silurian reef (G-8): Buschbach and Bond, 1974.
- Staunton Dome (G-4): Bell, 1941; Blatchley, 1914; Easton, 1942; Kay, 1915; Lee, 1915.
- Stavanger Syncline (C-6): Willman and Payne, 1942.
- Steele Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Weller, J. M., et al., 1952.
- \*Stephenson-Ogle County Line Syncline (see Uptons Cave Syncline): Cady, 1920.
- Stewardson Anticline (G-6): Newton, 1941.
- Stewart Fault (Fluorspar Area Fault Complex): Baxter et al., 1967; Brecke, 1964; Weller, J. M., et al., 1952.
- Stone Church Fault (Fluorspar Area Fault Complex): Weller, J. M., et al., 1952.
- Stonefort Anticline (J-6): Heyl et al., 1965; Stonehouse and Wilson, 1955; Weller, J. M., 1940.
- Stony Island, Silurian reef (B-8): Bretz, 1943; Lowenstam, 1950; Lowenstam, 1957; Willman, 1943.
- \*Stubblefield Anticline (see Old Ripley Anticline and Greenville Dome): Blatchley, 1914; Moulton, 1925.
- Sugar Creek Syncline (G-4): Ball, 1952.
- Sugar Hill Dome (J-5): Root, 1928; St. Clair, 1917a.
- Swansea Anticline (H-3, H-4): Bell, 1941.
- Sycamore Fault (Fluorspar Area Fault Complex): Baxter et al., 1967; Weller, J. M., et al., 1952.
- Table Grove Syncline (E-2, E-3): Wanless, 1957.
- Thayer Dome (F-4, G-4): Easton, 1942.
- Thebes Anticline (K-5): Pryor and Ross, 1962; Weller, J. M., and Ekblaw, 1940.
- Thornton, Silurian reef (B-8): Bretz, 1939; Ingels, 1963; Lowenstam, 1950; Lowenstam, 1957; Lowenstam et al., 1956; McGovney, 1978; Pray, 1976; Willman et al., 1950.
- Three Mile Creek Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Baxter et al., 1967; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- Tilden, Silurian reef (I-4): Bristol, 1974; Cahill et al., 1978.
- Tilden North, Silurian reef (I-4): Bell, 1929a; Bell, 1961; Bristol, 1974; Buschbach and Bond, 1974; Cahill et al., 1978.
- Tolu Dome (Fluorspar Area Fault Complex): Baxter et al., 1963.
- Tonti, Silurian reef (H-6): Bristol, 1974.
- Toulon Dome (C-4): Treworgy, 1979d.
- Tower Rock Fault (Fluorspar Area Fault Complex): Baxter et al., 1963.
- Trowbridge Anticline (G-6, G-7): Newton, 1941.
- Troy-Brussels Syncline (H-2, H-3): Collinson, 1957; Collinson et al., 1954; Rubey, 1952; Treworgy, 1979a.
- Troy Grove Dome (C-5): Bell, 1961; Buschbach and Bond, 1974.
- Tuscola Anticline (E-7, F-7): Bell, 1943; Bristol and Prescott, 1968; Buschbach and Bond, 1974; Clegg, 1965b.
- \*Tuscola Fault: Green, 1957.
- Twitchell Fault (Fluorspar Area Fault Complex): Baxter et al., 1967.
- Uptons Cave Syncline (A-3, A-4), formerly named Stephenson-Ogle County Line Syncline (Cady, 1920b): Kolata and Buschbach, 1976.
- Valmeyer Anticline (I-3): Bristol and Buschbach, 1973; Odom et al., 1961; Weller, J. M., 1939; Weller, S., and Weller, J. M., 1939; Willman et al., 1949.
- \*Vandalia Arch: North, 1969; Workman and Gillette, 1956.

- Venedy Dome (I-4): Kay, 1915; Shaw, 1912.
- Vergennes Anticline (J-5): Nelson and Krausse, in preparation.
- Versailles Anticline (E-3, E-2, F-3): Wanless, 1957.
- \* Vevay Park Dome: Mylius, 1927.
- Vinegar Hill Syncline (A-3): Bradbury et al., 1956; Willman and Reynolds, 1947.
- Wabash River Anticline (I-8, I-7, J-7), formerly named New Harmony Anticline: Bell, 1943; Siever, 1951; Swann, 1951.
- Wabash Valley Fault System (inset map): Bristol, 1975; Bristol and Treworgy, 1979; Cady et al., 1939; Clark and Royds, 1948; Harrison, 1951; Heyl et al., 1965; Pryor, 1956; Pullen, 1951; Smith and Cady, 1951.
- Wallace Branch Fault Zone (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Baxter et al., 1967; Hubbert, 1944; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- Walpole Anticline (J-6): Cady et al., 1939; Rolley, 1951.
- Wamac Dome (H-5): Bell, 1926a; Brownfield, 1954.
- Wapella East Dome (E-6): Clegg, 1972; Heigold et al., 1964; Howard, 1963a; Howard, 1963b; Howard, 1964; Treworgy, 1979b.
- Warsaw Anticline (E-1): Bell, 1932.
- Waterloo-Dupo Anticline (H-3, I-3): Bell, 1929b; Bell, 1961; Bristol and Buschbach, 1973; Buschbach and Bond, 1974; Lamar, 1922; Mylius, 1921a; Weller, S., and Weller, J. M., 1939.
- Waverly Anticline (F-4): Easton, 1942.
- Waverly Dome (F-4): Bell, 1961; Buschbach and Bond, 1974.
- Weaver, Silurian reef (G-8): Bristol, 1974; Clegg, 1965b.
- Western Shelf (inset map): Bell et al., 1964.
- Westfield Dome (G-7, G-8), formerly named Parker Dome: Bristol and Buschbach, 1973; Clegg, 1959; Clegg, 1965a; Clegg, 1965b; Cohee, 1941; Moulton and Young, 1928; Mylius, 1923; Mylius, 1927.
- \* West Union Syncline (now part of Marshall-Sidell Syncline): Moulton and Young, 1928.
- West Green Fault Zone (Fluorspar Area Fault Complex): Brecke, 1962.
- White Ash Fault Zone (J-6): Nelson and Krausse, in preparation.
- \* White Oak Anticline: Kay, 1915; Shaw, 1912.
- Wine Hill Dome (J-4): Nelson and Krausse, in preparation; Root, 1928.
- Winkleman Fault (J-6): Cady, 1926.
- Wisconsin Arch (inset map): Bieber, 1949; Doyle, 1965; Green, 1957; Heyl et al., 1959; Kolata et al., 1978a and 1978b; Pirtle, 1932; Willman and Templeton, 1951.
- Wittenberg Trough (J-4, J-5): Meents and Swann, 1965; North, 1969.
- Wolrab Mill Fault (Fluorspar Area Fault Complex): Baxter and Desborough, 1965; Baxter et al., 1967; Baxter et al., 1963; Brown et al., 1954; Weller, J. M., et al., 1952; Weller, S., et al., 1920.
- \* Woodlawn-Drivers Anticline: Cady et al., 1938.
- Wyen Anticline (G-4): Easton, 1942.
- Xenia Dome (H-6), formerly named Paine Dome: Bristol and Howard, 1976; Easton, 1944; Lowenstam, 1951; Weller, J. M., and Bell, 1936.
- \* York Dome: Clegg, 1959; Mylius, 1927.
- \* Zeigler Anticline: Cady, 1916.

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## SIGNIFICANT UNNAMED STRUCTURES

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Numbers 1 to 19 correspond to numbered structures on the map. Names given below, following numbers 1 to 13, are informal and refer to the oil fields associated with the structures. Location designations, following numbers 14 to 19, refer to unnamed faults. Structural designations are followed by locations (in parentheses) and references to works in which the structures have been mapped.

1. Assumption structure (F-5): Bell and Leighton, 1949; Bristol and Howard, 1976; Whiting, 1956.
2. Woburn structure (G-5, H-5): Bristol and Buschbach, 1973, Bristol and Howard, 1976.
3. Oblong structure (G-8, H-8): Blatchley, 1913; Bristol and Howard, 1976; Cady, 1920; Potter, 1956.
4. Main structure (H-8): Blatchley, 1912; Blatchley, 1913; Bristol and Howard, 1976; Cady, 1920; Potter, 1956.
5. Lawrence County structure (H-8): Blatchley, 1913; Bristol and Howard, 1976; Cady, 1920; Potter, 1956.
6. Russellville structure (H-8): Bristol and Howard, 1976; Cohee and Carter, 1939.
7. Johnsonville structure (I-6): Bristol and Howard, 1976; Squires, 1946.
8. Boyd structure (I-5): Bristol and Buschbach, 1973; Bristol and Howard, 1976.
9. Cordes structure (I-5): Bristol and Howard, 1976; Cady et al., 1940.
10. Aden structure (I-7): Bristol and Howard, 1976; Meents and Swann, 1965.
11. Goldengate structure (I-7): Bristol and Howard, 1976; Meents and Swann, 1965.
12. Sesser structure (I-5, J-5): Bristol and Howard, 1976.
13. Benton structure (I-6, J-6): Bristol and Howard, 1976; Cameron, 1951; Howell, 1948; Parkison, 1957.
14. Faults in the greater Chicago Area, Cook and Du Page Counties (A-8, B-8): Buschbach and Heim, 1972.
15. Faults in the Pomona and Cobden Quadrangles, Jackson County (J-5): Desborough, 1958; Desborough, 1961b.
16. Faults in Union County (J-5, K-5): Heyl et al., 1965; Weller, J. M., 1940.
17. Faults in Johnson County (K-6): Heyl et al., 1965; Weller, J. M., 1940.
18. Faults in Thebes Gap, Alexander County (K-5): Kolata et al., 1981.
19. Faults beneath the Mississippi Embayment sediments, Pulaski and Massac Counties (K-5, K-6): Kolata et al., 1981.

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## BURIED PRECAMBRIAN HILLS

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Letters a to g correspond to lettered structures on the map. Letters are followed by well names associated with the structures, locations (in parentheses), and references, if they exist, to works on the structures.

- a. Panhandle-Eastern 1 Mumford, 21-5S-4W, Pike County (F-2): Bell et al., 1964; Bond, 1971; Workman and Bell, 1948.
- b. Mississippi River Transmission Corp. S-5 Huldah Baer, 27-3N-6W, Madison County (H-4).
- c. C. E. Brehm Drilling and Producing 1 Hemminghaus, 33-3N-1W, Clinton County (H-5).
- d. Mississippi River Fuel Corp. A-15 Theobald, 35-1S-10W, Monroe County (I-3): Bell et al., 1964; Bond, 1971.
- e. C. E. Brehm Drilling and Producing 1 Bochantin Comm., 35-3S-2W, Washington County (I-5).
- f. Richard W. Beeson 1 Joseph Poiter Unit, 28-5S-3W, Perry County (I-5).
- g. Texaco 1 E. Cuppy, 6-6S-7E, Hamilton County (I-7): Bond, 1971.



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#### ACKNOWLEDGMENTS

I thank Hubert M. Bristol, Geologist Emeritus of the Illinois State Geological Survey (ISGS), for his efforts in the early 1970s in compiling a card file of all the structural features in Illinois. This file, modified and updated, served as a basis for this compendium. I also thank Richard H. Howard and Dennis R. Kolata of the ISGS for their support and advice throughout the course of this project. In addition, the suggestions and comments of Howard R. Schwalb, Wayne F. Meents (Geological Engineer Emeritus), and W. John Nelson, all of the ISGS, and Thomas C. Buschbach, of St. Louis University, were greatly appreciated.