

# ILLINOIS STATE GEOLOGICAL SURVEY

Page 1

| Water Well                  | Top  | Bottom |
|-----------------------------|------|--------|
| lime, soft, gray            | 0    | 65     |
| lime                        | 65   | 110    |
| lime, green and gray        | 110  | 150    |
| lime, gray                  | 150  | 245    |
| shale                       | 245  | 255    |
| slate                       | 255  | 260    |
| lime                        | 260  | 280    |
| shale                       | 280  | 290    |
| shale, some lime            | 290  | 300    |
| shale                       | 300  | 360    |
| lime                        | 360  | 600    |
| lime, hard                  | 600  | 700    |
| sand                        | 700  | 825    |
| shale                       | 825  | 835    |
| lime, gray                  | 835  | 865    |
| lime, brown                 | 865  | 900    |
| lime, gray                  | 900  | 1020   |
| sand, gray                  | 1020 | 1095   |
| lime, brown                 | 1095 | 1115   |
| some red                    | 1115 | 1125   |
| lime, brown                 | 1125 | 1140   |
| shale streak, green         | 1140 | 1205   |
| lime, dark brown            | 1205 | 1236   |
| lime, brown, little lighter | 1236 | 1250   |
| same, with little sand      | 1250 | 1260   |
| brown-gray (some sand)      | 1260 | 1280   |
| shale, gray                 | 1280 | 1290   |
| lime, some sand and shale   | 1290 | 1305   |
| shale, green                | 1305 | 1355   |
| lime                        | 1355 | 1362   |
| lime and sand               | 1362 | 1375   |

**Permit Date:**

**Permit #:**

**COMPANY** Thorne, W. L. Co.

**FARM** Ill State Prison

**DATE DRILLED** January 1, 1937

**NO.** 4

**ELEVATION** 640' GL

**COUNTY NO.** 01289

**LOCATION** 1700'N line, 1500'W line of

**LATITUDE** 41.576681

**LONGITUDE** -88.097182

**COUNTY** Will

**API#** 1219701289 00

**28-36N-10E**

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Page 2

|                |      |      |
|----------------|------|------|
| flint          | 1375 | 1380 |
| lime           | 1380 | 1386 |
| lime, sandy    | 1386 | 1395 |
| sand           | 1395 | 1558 |
| sand and lime  | 1558 | 1570 |
| lime           | 1570 | 1618 |
| lime, shale    | 1618 | 1624 |
| lime           | 1624 | 1631 |
| lime, shale    | 1631 | 1640 |
| lime           | 1640 | 1647 |
| lime and shale | 1647 | 1653 |
| lime           | 1653 | 1662 |
| lime and shale | 1662 | 1830 |
| lime           | 1830 | 1836 |
| lime and shale | 1836 | 1952 |
| lime and sand  | 1952 | 1958 |
| lime and shale | 1958 | 1960 |
| lime           | 1960 | 1965 |
| sand           | 1965 | 2007 |
| Maquoketa      | 245  |      |
| Galena         | 360  |      |
| St Peter       | 700  |      |
| Knox           | 827  |      |
| Franconia      | 1280 |      |
| Ironton        | 1395 |      |
| Eau Claire     | 1570 |      |
| Mount Simon    | 1965 |      |

**Description by:** State Geological Survey on 1/1/1937

| Description                                      | Top  | Bottom |
|--------------------------------------------------|------|--------|
| Pleistocene system glacial drift                 | 0.0  | 65.0   |
| Niagaran and Alexandrian dolomite, water-bearing | 65.0 | 245.0  |

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Page 3

|                                                |        |        |
|------------------------------------------------|--------|--------|
| shale                                          | 245.0  | 260.0  |
| dolomite                                       | 260.0  | 280.0  |
| shale and some dolomite                        | 280.0  | 360.0  |
| Galena-Platteville dolomite                    | 360.0  | 700.0  |
| St. Peter sandstone, water-bearing             | 700.0  | 827.0  |
| Shakopee, dolomite, shaly                      | 827.0  | 880.0  |
| Oneota dolomite                                | 880.0  | 1055.0 |
| Jordan dolomite and sandstone                  | 1055.0 | 1087.0 |
| Trempealeau dolomite                           | 1087.0 | 1280.0 |
| Franconia shale, dolomite & sandstone          | 1280.0 | 1410.0 |
| Galesville (Dresbach) sandstone, water-bearing | 1410.0 | 1570.0 |
| Eau Claire dolomite, shale, and sandstone      | 1570.0 | 1965.0 |
| Mt. Simon sandstone, water-bearing             | 1965.0 | 2007.0 |

**Description by:** F. E. Tippie                      **on 3/1/1940**

| <b>Description</b>     | <b>Top</b> | <b>Bottom</b> |
|------------------------|------------|---------------|
| "lime, soft, gray"     | 0.0        | 65.0          |
| "lime"                 | 65.0       | 110.0         |
| "lime, green and gray" | 110.0      | 150.0         |
| "lime, gray"           | 150.0      | 245.0         |
| "shale and slate"      | 245.0      | 260.0         |
| "lime"                 | 260.0      | 280.0         |
| "shale"                | 280.0      | 290.0         |
| "shale, some lime"     | 290.0      | 300.0         |
| "shale"                | 300.0      | 360.0         |
| "lime"                 | 360.0      | 600.0         |
| "lime, hard"           | 600.0      | 700.0         |

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Page 4

|                                                                                                                         |        |        |
|-------------------------------------------------------------------------------------------------------------------------|--------|--------|
| "sand"                                                                                                                  | 700.0  | 795.0  |
| sandstone, whtie to brownish, fine to coarse, rounded, frosted, incoherent to calcareous and friable at base            | 795.0  | 827.0  |
| dolomite, sandy, cherty, white, pink, fine; shale, sandy, blue, brown, very weak                                        | 827.0  | 830.0  |
| shale as above; shale, calcareous, sandy, red, very weak; siltstone, very dolomitic, red, compact                       | 830.0  | 835.0  |
| dolomite, sandy, cherty, buff, pinkish tinge, extra fine; little shale, calcareous, sandy, red at base                  | 835.0  | 850.0  |
| shale, sandy, green, dolomite fragment, very weak; dolomite, sandy, cherty, buff, very fine                             | 850.0  | 855.0  |
| dolomite, as above                                                                                                      | 855.0  | 860.0  |
| same; shale, green, pyritic, very weak; sandstone, white, fine to coarse, incoherent                                    | 860.0  | 865.0  |
| dolomite, sandy, cherty, buff, very fine                                                                                | 865.0  | 870.0  |
| dolomite, sandy, buff, fine to medium, crystalline; sandstone, calcareous, white, fine, and shale, sandy, green at base | 870.0  | 880.0  |
| dolomite, partly sandy, white to grayish, fine to lithographic                                                          | 880.0  | 890.0  |
| dolomite, sandy, white to brownish, very fine to medium                                                                 | 890.0  | 900.0  |
| dolomite, as above, white, buff, sometimes pinkish; chert, partly oolitic, white                                        | 900.0  | 1025.0 |
| dolomite, cherty, white, light gray, light brown, very fine to fine, pinkish at base                                    | 1025.0 | 1055.0 |
| shale, sandy, green, dolomite fragment, weak; dolomite, sandy, cherty, pinkish, very fine                               | 1055.0 | 1060.0 |
| dolomite, as above; shale, sandy, green at base                                                                         | 1060.0 | 1067.0 |
| dolomite as above                                                                                                       | 1067.0 | 1078.0 |
| little shale, sandy, red; sandstone, white, fine to coarse, incoherent; little chert                                    | 1078.0 | 1087.0 |
| dolomite, sandy, slightly cherty, white, brownish, pinkish, fine to medium, slightly glauconitic                        | 1087.0 | 1105.0 |
| shale, sandy, green, very weak; dolomite, sandy, light gray to pinkish, very fine                                       | 1105.0 | 1110.0 |
| dolomite, sandy, slightly cherty, light gray, brownish, very fine to fine                                               | 1110.0 | 1120.0 |
| dolomite, very sandy, light brown, pinkish; chert, oolitic, sandy, white, abundant                                      | 1120.0 | 1125.0 |
| dolomite, sandy, white, brownish, pinkish, very fine to fine; sandstone and green shale streaks                         | 1125.0 | 1135.0 |

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Page 5

|                                                                                                                      |        |        |
|----------------------------------------------------------------------------------------------------------------------|--------|--------|
| dolomite as above; few sandstone streaks; little chert and glauconite at base                                        | 1135.0 | 1175.0 |
| dolomite, slightly sandy, white, very fine                                                                           | 1175.0 | 1185.0 |
| dolomite, partly cherty, partly glauconitic, white, pink at base, very fine                                          | 1185.0 | 1205.0 |
| dolomite, white, very fine                                                                                           | 1205.0 | 1215.0 |
| dolomite, slightly argillaceous, gray, very fine                                                                     | 1215.0 | 1225.0 |
| "lime, dark brown"                                                                                                   | 1225.0 | 1250.0 |
| "same, with little sand"                                                                                             | 1250.0 | 1260.0 |
| "lime, brownish gray, little sand"                                                                                   | 1260.0 | 1280.0 |
| "shale, gray"                                                                                                        | 1280.0 | 1290.0 |
| "lime, some sand and shale"                                                                                          | 1290.0 | 1305.0 |
| "shale, green"                                                                                                       | 1305.0 | 1355.0 |
| "lime"                                                                                                               | 1355.0 | 1362.0 |
| "lime and sand"                                                                                                      | 1362.0 | 1375.0 |
| dolomite, sandy, buff, grayish, very fine, glauconitic                                                               | 1375.0 | 1380.0 |
| dolomite, as above, mottled gray                                                                                     | 1380.0 | 1395.0 |
| dolomite, very sandy, white, buff, fine, slightly glauconitic; sandstone, white, fine to coarse, rounded, incoherent | 1395.0 | 1410.0 |
| sandstone as above, dolomite streaks                                                                                 | 1410.0 | 1425.0 |
| dolomite, very sandy, white to pinkish, very fine; sandstone as above                                                | 1425.0 | 1440.0 |
| sandstone as above; dolomite streaks; little sandstone, very dolomitic, friable                                      | 1440.0 | 1545.0 |
| "sand and lime"                                                                                                      | 1545.0 | 1570.0 |
| "lime, shale streaks"                                                                                                | 1570.0 | 1662.0 |
| "lime and shale"                                                                                                     | 1662.0 | 1952.0 |
| "lime and sand"                                                                                                      | 1952.0 | 1958.0 |
| "lime and shale"                                                                                                     | 1958.0 | 1960.0 |
| "lime"                                                                                                               | 1960.0 | 1965.0 |
| "sand"                                                                                                               | 1965.0 | 2007.0 |

**Total Depth**

**2007**

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Page 6

Casing: 12" from 0' to 1433'  
10" from 1590' to 1910'

Size hole below casing: 10"

Survey Sample Study filed.

Driller's Log filed.

Sample set # 1782 0' - 1545' Received: 1/1/1936

Address of well: "outside well"

Location source: Location from a log

Verified by: VJA on 7/1/2014

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