

# ILLINOIS STATE GEOLOGICAL SURVEY

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| Water Well                        | Top | Bottom |
|-----------------------------------|-----|--------|
| topsoil                           | 0   | 4      |
| clay, yellow                      | 4   | 7      |
| clay, blue                        | 7   | 21     |
| lime, gray                        | 21  | 57     |
| lime, blue                        | 57  | 65     |
| lime, gray, hard                  | 65  | 75     |
| lime, blue                        | 75  | 90     |
| shale, blue                       | 90  | 95     |
| lime, gray, hard                  | 95  | 100    |
| lime, blue                        | 100 | 104    |
| lime, gray, very hard             | 104 | 112    |
| lime, gray and shale streaks      | 112 | 121    |
| lime and shale, blue              | 121 | 143    |
| lime, gray, hard                  | 143 | 147    |
| lime, gray and shale              | 147 | 150    |
| shale, sandy, gray                | 150 | 158    |
| shale, blue, sticky               | 158 | 160    |
| lime, broken, brown               | 160 | 170    |
| lime, gray,                       | 170 | 203    |
| shale, brown, muddy               | 203 | 206    |
| lime, broken                      | 206 | 208    |
| shale, gray                       | 208 | 227    |
| shale, brown                      | 227 | 232    |
| shale, brown with limestone       | 232 | 236    |
| shale, brown, sticky              | 236 | 241    |
| shale, brown, muddy               | 241 | 244    |
| shale, brown, sticky              | 244 | 246    |
| lime, brown, brown shale caving   | 246 | 257    |
| shale, dark gray                  | 257 | 263    |
| shale, brown                      | 263 | 283    |
| lime, gray, brown shale caving in | 283 | 291    |

**Permit Date:**

**Permit #:**

**COMPANY** Varner C.W.

**FARM** Kankakee Ordnance Works

**DATE DRILLED** January 1, 1941

**NO.** 5

**ELEVATION** 575' GL

**COUNTY NO.** 00660

**LOCATION** 3166'S line, 2737'E line of

**LATITUDE** 41.372062

**LONGITUDE** -88.144636

**COUNTY** Will

**API#** 1219700660 00

**1-33N-9E**

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**Description by:** R. Storm **on** 4/1/1942

Permit Date: Permit #:

|        |      |      |               |          |
|--------|------|------|---------------|----------|
| COUNTY | Will | API# | 1219700660 00 | 1-33N-9E |
|--------|------|------|---------------|----------|

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|                                                                   |       |       |
|-------------------------------------------------------------------|-------|-------|
| SILURIAN SYSTEM-- Naigaran & Alexandrian dolomites, water-bearing | 20.0  | 143.0 |
| ORDOVICIAN SYSTEM-- Maquoketa formation                           | 143.0 | 287.0 |
| shale                                                             | 143.0 | 167.0 |
| dolomite                                                          | 167.0 | 205.0 |
| shale                                                             | 205.0 | 287.0 |
| Galena-Platteville dolomites                                      | 287.0 | 642.0 |
| sandstone, water-bearing                                          | 610.0 | 815.0 |
| Glenwood sandstone                                                | 642.0 | 650.0 |
| St. Peter formation                                               | 650.0 | 838.0 |
| shale and chert                                                   | 815.0 | 838.0 |
| Shakopee dolomite                                                 | 838.0 | 870.0 |
| New Richmond sandstone                                            | 870.0 | 890.0 |
| Oneota dolomite                                                   | 890.0 | 935.0 |

**Total Depth 935**

Casing: 22" 30' from ' to '  
18" 300' from ' to '

Strip Log filed.

Driller's Log filed.

Sample set # 7261 0' - 935' Received: 1/1/1942

Location source: Location from a log

Verified by: VJA on 10/22/2013

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