

ILLINOIS STATE GEOLOGICAL SURVEY

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Water Well	Top	Bottom
lime	0	102
shale, blue, streaks of lime	102	139
lime, shale streaks	139	291
lime, gray & brown	291	645
sand	645	849
shale	849	978
lime	978	1167
dolomite, gray & brown	1167	1494
sand	1494	1645
lime, black, hard	1645	1652
Maquoketa	130	
Galena	285	
St Peter	645	
Knox	975	
Franconia	1342	
Ironston	1460	
Eau Claire	1648	

Description by: Paul Herbert on 7/1/1942

Description	Top	Bottom
till, brown, weathered	0.0	12.0
dolomite, cherty, white, fine	12.0	35.0
dolomite, light gray, some pale green	35.0	50.0
dolomite, light gray, fine	50.0	85.0
dolomite, cherty, light gray, fine	85.0	105.0
shale, micaceous, light gray, soft	105.0	112.0
dolomite, silty, gray, fine	112.0	130.0
shale, silty, dolomitic, gray	130.0	160.0
dolomite, silty, mottled buff to gray	160.0	170.0

Permit Date: **Permit #:**

COMPANY Varner C.W.

FARM Kankakee Ordnance Works

DATE DRILLED June 1, 1942

NO. 5A

ELEVATION 570' TM

COUNTY NO. 00661

LOCATION 2416'S line, 2737'E line of

LATITUDE 41.369998

LONGITUDE -88.144527

COUNTY Will

API# 1219700661 00

1-33N-9E

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dolomite, mottled, gray to buff, coarse	170.0	200.0
shale, silty, dolomitic, brownish gray	200.0	222.0
dolomite, silty, grading to shale	222.0	235.0
shale, silty, dolomitic, brownish gray	235.0	285.0
dolomite, calcareous, buff, medium	285.0	465.0
dolomite, calcareous, cherty, gray	465.0	500.0
dolomite, calcareous, buff to gray	500.0	525.0
limestone, buff to gray, lithographic	525.0	540.0
dolomite, calcareous, buff to gray, fine	540.0	595.0
dolomite, calcareous, buff to brown, fine	595.0	635.0
"dolomite"	635.0	645.0
sandstone, medium to fine, incoherent	645.0	720.0
siltstone, slightly sandy	720.0	725.0
sandstone, slightly silty, some siltstone	725.0	780.0
"sandstone"	780.0	820.0
sandstone, clean, medium to fine	820.0	840.0
"sandstone"	840.0	855.0
dolomite, conglomerate, shale; sandstone	855.0	865.0
"sandstone"	865.0	890.0
conglomerate, mainly shale, silty, sandy, and dolomite, some chert and sandstone	890.0	960.0
shale, silty, some sandy, green	960.0	975.0
dolomite, cherty, white to light gray, medium to fine, thin shale beds	975.0	1055.0
dolomite, cherty, white, fine, slightly sandy	1055.0	1110.0
dolomite, light buff, fine, cherty	1110.0	1150.0
dolomite, partly sandy and shaley	1150.0	1170.0
dolomite, light gray, fine, sandy at base	1170.0	1230.0
dolomite, light gray to light buff, fine	1230.0	1342.0

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sandstone, very dolomitic, white to gray, fine, gradig to shale, silty gray	1342.0	1400.0
dolomite, sandy, buff to gray, fine	1400.0	1460.0
sandstone, dolomitic, medium to coarse	1460.0	1470.0
dolomite, partly sandy, light buff, fine	1470.0	1490.0
sandstone, slightly to very dolomitic, medium to coarse; some dolomite	1490.0	1580.0
sandstone, fine to coarse, incoherent	1580.0	1648.0
sandstone, fine, gray; shale, gray brown	1648.0	1650.0

Total Depth **1652**

Casing: 7" 22" OD 35' from ' to '
 1" 18' OD 303'1" from ' to '
 16" LINER from 778' to 968'

Pumping level ' when pumping at 470 gpm for hr(s)

Survey Sample Study filed.

Driller's Log filed.

Sample set # 8207 3' - 1650' Received: 1/1/1942

Location source: Location from a log

Verified by: VJA on 10/22/2013

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