

ILLINOIS STATE GEOLOGICAL SURVEY

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Water Well	Top	Bottom
sand, gravel & clay	0	38
clay & gravel	38	46
yellow clay & gravel	46	70
fine sand	70	81
yellow sand & gravel, light brown	81	102
brownish fine sand	102	126
brownish clay & sand	126	138
brown clay	138	165
gray clay	165	182
blue gray lime; hard	182	205
gray lime	205	220
brown lime	220	225
gray lime & shale	225	246
lime	246	250
lime & sand	250	255
sand	255	275
gray sand, heavy with salt	275	313
gray sand	313	450
sand into lime red & white quartz	450	455
white lime, quartz like	455	460
red & white dolomite	460	476
red muddy dolomite	476	495
gray dolomite	495	594
brown muddy lime	586	608
brown lime & red shale	594	586
gray dolomite & red marl	608	618
muddy red shale streaks & dolomite	618	633
red marl	633	639
red marl & green shale	639	655
light red & green sandy shale	655	660
dolomite & sand	660	663

Permit Date:

Permit #:

COMPANY Varner C.W.

FARM Rockford, City of

DATE DRILLED February 1, 1941

NO. 6

ELEVATION 790' GL

COUNTY NO. 00367

LOCATION 1540'N line, 820'W line of

LATITUDE 42.248340

LONGITUDE -89.054643

COUNTY Winnebago

API# 1220100367 00

31-44N-2E

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gray dolomite & shale	663	683
dolomite & pink shale	683	694
dolomite, shale & light red; hard	694	698
pink dolomite	698	724
buff sand with red & green shale	724	755
gray sand	755	781
white sand	781	815
sand into shale; gray	815	820
shale, red & gray	820	827
blue & red shale	827	836
gray shale	836	840
reddish brown shale	840	852
red shale & gray dolomite	852	865
gray dolomite, shale	865	890
gray; greenish red shale & dolomite	890	902
shale & dolomite, sticky	902	908
gray shale & dolomite	908	920
gray shale & fine gray sand	920	925
fine gray sand, hard	925	945
gray dolomite	945	969
gray sand	969	994
gray dolomite	994	1009
gray dolomite, hard	1009	1012
dark bluish gray dolomitic lime	1012	1020
gray dolomite	1020	1025
dolomite with fine gray sand	1025	1053
white sand	1053	1070
gray sand & dolomite	1070	1089
white sand	1089	1109
gray sand & dolomite	1109	1115
fine sand, hard, gray	1115	1117
gray dolomite	1117	1124
fine sand, hard, gray	1124	1145

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Description by: M.H. Smith & F.E. Tippie on 9/8/1941

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Gravel, dirty, fine, fairly well sorted	8.0	21.0
Gravel, sandy, dull, dirty, fine, rounded to angular, fairly well sorted	21.0	36.0
Gravel, sandy, dull, dirty, fine, rounded, well sorted	36.0	46.0
Gravel, clean, fine, rounded, well sorted	46.0	66.0
Gravel, dirty, sandy, dull, rounded to angular, fairly well sorted	66.0	71.0
Gravel, dull, fine to medium, rounded	71.0	76.0
Gravel, sandy, dirty, dull, fine, rounded, well sorted	76.0	86.0
Sand, light brown, fine to some medium, incoherent, angular	86.0	101.0
Gravel, slightly sandy, dull, granular	101.0	106.0
Gravel, sandy, shiny, clean, granular	106.0	109.0
Till, calcareous, gravelly, brown	109.0	126.0
Till, sandy, calcareous, gravelly, brown	126.0	151.0
Till, calcareous, sandy, brown	151.0	177.0
Dolomite, silty, slightly argillaceous, light gray, dark gray, mottled, some speckled, fine	177.0	186.0
Dolomite, light gray, dark gray, mottled, part spotted, sublithographic to fine	186.0	199.0
Dolomite, gray, dark gray, partly mottled, fine, partly slightly vesicular	199.0	216.0
Dolomite, sandy, light buff, light gray, very fine	216.0	221.0
Sandstone, dolomitic, buff to light gray, yellowish, very fine, coarse, compact; little dolomite	221.0	226.0
Dolomite, very finely sandy, light gray, greenish, sublithographic	226.0	246.0
Same, partly weathered, yellow; sandstone, dolomitic, light gray, yellow, very fine, medium, compact	246.0	251.0
Sandstone, white, very fine to coarse, incoherent	251.0	271.0
Sandstone, very silty, light buff, fine to coarse, incoherent	271.0	326.0
Sandstone as above, partly compact to friable	326.0	371.0
Sandstone, silty, light gray, fine to coarse, incoherent	371.0	381.0
Sandstone, light gray, very fine to coarse, incoherent	381.0	401.0
Sandstone, silty, light gray, fine to coarse, incoherent	401.0	426.0

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Sandstone, silty, white, fine to coarse, crumbly to mostly incoherent	426.0	441.0
Sandstone as above, slightly cherty	441.0	446.0
Sandstone, cherty, silty, pink, fine to medium, partly cemented with chert to incoherent	446.0	461.0
Chert, white, some mottled pink, red, buff	461.0	466.0
Sandstone, silty, red, very fine to fine, compact, cemented with chert	466.0	471.0
Chert, oolitic, pink, some white	471.0	476.0
Sandstone, silty, pink, fine to coarse, incoherent; oolites, large, white, cemented with chert	476.0	481.0
Sandstone, cherty, pink, fine to coarse, compact, incoherent	481.0	486.0
Dolomite, light buff, fine, partly vesicular	486.0	541.0
Dolomite as above with glauconitic specks	541.0	561.0
Dolomite, glauconitic specks, buff, pink, fine	561.0	581.0
Sandstone, dolomitic, silty, glauconitic, light buff, very fine, compact	581.0	586.0
Sandstone, glauconitic, dolomitic, silty, micaceous, argillaceous, red, buff, very fine, friable	586.0	607.0
Shale, glauconitic, green, weak	607.0	611.0
Shale, glauconitic, red, green, pink, buff, weak	611.0	616.0
Shale, dolomitic, glauconitic, red, some green, weak	616.0	623.0
Sandstone, argillaceous, silty, glauconitic, very fine, compact	623.0	627.0
Sandstone, glauconitic, silty, brown, very fine, incoherent	627.0	641.0
Shale, sandy, dolomitic, cherty, brown, some red, weak	641.0	651.0
Shale, sandy, dolomitic, red, light gray, weak	651.0	656.0
Sandstone, glauconitic, silty, buff, some gray, very fine to fine, compact to some incoherent	656.0	666.0
Sandstone, silty, light buff, very fine to coarse, incoherent	666.0	671.0
Sandstone, partly dolomitic, silty, light buff, fine to coarse, compact to incoherent	671.0	676.0
Sandstone, partly dolomitic, silty, light buff, fine to coarse, incoherent to partly compact	676.0	706.0
Sandstone, silty, dolomitic, pink, light buff, fine to coarse, compact to partly incoherent	706.0	711.0

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Sandstone as above, compact	711.0	716.0
Sandstone, silty, partly dolomitic, light gray, very fine to very coarse, incoherent to partly compact	716.0	721.0
Sandstone, silty, light gray, very fine to very coarse, incoherent	721.0	756.0
Sandstone, silty, white, fine to some medium, incoherent	756.0	811.0
Shale, slightly sandy, gray, firm to weak	811.0	816.0
Shale, sandy, dolomitic, red, some green, weak to partly firm	816.0	826.0
Shale, silty, green, partly red, weak, plastic	826.0	831.0
Shale, micaceous, silty, red, green; siltstone, dolomitic, buff, red, compact	831.0	836.0
Shale, silty, slightly dolomitic, red, green, weak	836.0	846.0
Shale, slightly dolomitic, micaceous, silty, red, weak	846.0	851.0
Siltstone, dolomitic, red, buff, compact	851.0	856.0
Shale, silty, slightly dolomitic, red, green, weak	856.0	861.0
Sandstone, silty, dolomitic, some glauconitic specks, buff, gray, very fine, compact	861.0	881.0
Shale, silty, sandy, dolomitic, light gray, red, weak; siltstone, dolomitic, micaceous, sandy, buff, compact	881.0	888.0
Shale, silty, slightly dolomitic, light gray, weak	888.0	891.0
Shale, silty, micaceous, green, weak with sandstone layer, silty, dolomitic, glauconitic, buff, compact	891.0	902.0
Shale, silty, dolomitic, light gray, weak	902.0	911.0
Sandstone, dolomitic, silty, light gray, green, fine to coarse, compact to mostly incoherent	911.0	916.0
Sandstone, light gray, very fine to medium, some coarse, incoherent	916.0	926.0
Sandstone, light gray, fine to medium, some coarse, incoherent	926.0	931.0
Sandstone, silty, light gray, fine to coarse, incoherent	931.0	946.0
Sandstone, silty, light gray, fine, incoherent	946.0	951.0
Sandstone, silty, light gray, some black, fine to coarse, incoherent; dolomite, buff, very fine	951.0	961.0
Sandstone, silty, light gray, fine to coarse, incoherent	961.0	971.0
Sandstone, light gray, fine to coarse, incoherent	971.0	986.0

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Sandstone, silty, light gray, fine to coarse, incoherent	986.0	991.0
Sandstone, dolomitic, light gray, fine to some medium, incoherent to compact	991.0	996.0
Sandstone, dolomitic, silty, light brown, very fine to fine, compact	996.0	1011.0
Sandstone, dolomitic, green, very fine, compact	1011.0	1016.0
Sandstone, dolomitic, gray, part buff, fine to medium, compact	1016.0	1021.0
Sandstone, silty, dolomitic, light gray, fine to coarse, compact to incoherent	1021.0	1026.0
Sandstone, light gray, fine to coarse, incoherent	1026.0	1036.0
Sandstone, dolomitic, silty, light gray, greenish cast, fine to coarse, crumbly to incoherent	1036.0	1046.0
Sandstone, white, very fine to fine, incoherent	1046.0	1051.0
Sandstone, light gray, fine to coarse, incoherent	1051.0	1061.0
Sandstone, very silty, dolomitic, light gray, fine to coarse, incoherent	1061.0	1066.0
Sandstone, silty, light gray, fine to coarse, incoherent	1066.0	1076.0
Sandstone, dolomitic, light gray, fine to coarse, compact to mostly incoherent	1076.0	1081.0
Sandstone, light gray, very fine to coarse, incoherent	1081.0	1126.0
Sandstone, silty, light gray, fine to coarse, incoherent	1126.0	1136.0
Sandstone, silty, light gray, some with sooty appearance, fine to coarse, incoherent, inclusions	1136.0	1156.0
Sandstone, light gray, fine to coarse, incoherent; shale, sandy, green between 1178-1180'	1156.0	1201.0
Same sandstone: sandstone, light buff, extra fine, compact	1201.0	1216.0
Sandstone, buff, very coarse, incoherent	1216.0	1246.0
Sandstone, buff, fine to coarse, incoherent; little dolomite, light buff, very fine	1246.0	1261.0
Sandstone, buff, fine to very coarse, incoherent	1261.0	1326.0
Sandstone, pink, fine to coarse, incoherent, very fine to base	1326.0	1372.0
no record	1372.0	1376.0

Total Depth

1376

Casing: 30" STEEL 165' from ' to '
 20" IRON 186 58/100' from ' to '

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Survey Sample Study filed.

Driller's Log filed.

Sample set # 5507 0' - 1376' Received: 12/1/1940

Address of well: NE cor. 19th & 22nd St., 24' E. line, 47'S. line
24' E. line

Add'l loc info: Lot: 84 Subdivision: Broadway Hieghts

Location source: Aerial Photograph verified

Verified by: VJA on 9/14/2022

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