

ILLINOIS STATE GEOLOGICAL SURVEY

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Water Well	Top	Bottom
brown clay	0	40
blue clay	40	189
sand & gravel	189	200
blue clay	200	215
sand & gravel	215	236
limestone	236	243

Description by: **Drew Walgen** **on 6/20/2005**

Description	Top	Bottom
very dark gray brown 10YR 3/2 silty clay loam w/fine gravel & sand	0.0	0.0
brown 10YR 5/3 silty clay loam w/fine gravel & sand	4.0	4.0
pale brown 10YR 6/3 silty clay loam w/medium coarse gravel & sand	5.0	5.0
brown 10YR 5/3 silty clay loam w/medium coarse gravel & sand	10.0	10.0
gray brown 10YR 5/2 silty clay loam w/fine gravel & sand	19.0	19.0
gray brown 10YR 5/2 silty clay	25.0	25.0
gray 10YR 5/1 silty clay	30.0	30.0
gray 10YR 5/1 silty clay	35.0	35.0
drilling on boulder, gray limestone, gray 10YR 5/1 silty clay w/fine sand	37.0	37.0
gray 10YR 5/1 silty clay w/fine sand (mos)	43.0	43.0
drilling on boulder, gray limestone, gray 10YR 5/1 silty clay w/fragment of limestone that were chipped loose by drilling bit	45.0	45.0
gray 10YR 5/1 silty clay w/coarse sand	51.0	51.0
gray 10YR 5/1 silty clay w/medium sand	55.0	55.0
gray 10YR 5/1 sandy, gravel silty loam	60.0	60.0
gray 10YR 5/1 sandy, silty loam w/fine gravel	65.0	65.0
same as above w/coarse sand	70.0	70.0
driller thinks they are going though a sand lense, coarse sand & silty sand	72.0	72.0

Permit Date: June 8, 2005

Permit #:

COMPANY Rosset, Richard D.

FARM Snell, Lynn & Tim

DATE DRILLED June 22, 2005

NO. 2

ELEVATION 0'

COUNTY NO. 49841

LOCATION

LATITUDE 42.294666

LONGITUDE -87.919867

COUNTY Lake

API# 1209749841 00

14-44N-11E

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gray 10YR 5/1 sandy, silty loam	75.0	75.0
sandy 10YR 5/1 sandy, silty loam w/coarse sand	80.0	80.0
drilling became slow and difficult probably because they hit stiff clay	83.0	83.0
10YR 5/1 gray silty clay (stiff) 1/8" worn also same sand from above lense	83.0	90.0
gray 10YR 5/1 coarse silty sand, sample 21 is probably sediment from the above lense which fell down the hole.	85.0	85.0
10YR 5/1 silty loam & coarse sand	95.0	95.0
gray 10YR 5/1 silty clay 1/8" worn w/sand from above	100.0	100.0
gray 10YR 5/1 coarse sand & gravel with chips of igneous rock (diosite?) probably chipped off boulder	110.0	110.0
gray 10YR 6/1 silty clay loam w/sand & gravel	115.0	115.0
gray 10YR 5/1 silty clay loam w/fine gravel 1/8" worn	120.0	120.0
10YR 5/1 gray silty clay loam w/coarse sand & fine gravel also ? fragments from drilling bit	125.0	125.0
same as above 1/8" worn	130.0	130.0
10YR 5/1 gray medium to coarse sand with silty clay layer >2mm worn	135.0	135.0
same as above w/fine gravel	140.0	140.0
same as above	145.0	145.0
10YR 5/1 gray loam w/medium coarse sand <2.5cm ribbon	145.0	150.0
10YR 5/2 gray brown <2.5cm ribbon	155.0	155.0
same as above	160.0	160.0
10YR 5/1 gray sandy clay loam, one piece of chert gravel	165.0	165.0
10YR 5/1 gray silty clay loam < 5cm ribbon	170.0	170.0
same as above	175.0	175.0
10YR 5/1 gray loam < 2.5cm ribbon	180.0	180.0
same as above w/medium gravel	185.0	185.0
10YR 5/1 gray same as above w/gravel, driller stopped and had to remove clay form rod. silty clay probably lake deposited (low urg) >5cm ribbon	190.0	190.0
10YR 6/1 light gray/gray silty clay loam <5cm ribbon and a layer of medium to coarse sand w/coarse gravel	192.0	192.0

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silty clay loam w/layer of coarse sand	195.0	195.0
silt loam w/coarse sand <2.5cm ribbon	200.0	200.0
10YR 5/1 gray silty clay loam w/layer of sand and a >2.5cm ribbon	205.0	205.0
layer of medium-coarse sand w/a separate layer of fine sand	210.0	210.0
sandy clay loam >2.5cm ribbon	215.0	215.0
sandy clay loam	215.0	220.0
coarse sand and gravel w/chipped limestone	233.0	233.0
coarse sand & gravel w/chipped limestone also d? intergated limestone layer	235.0	235.0

Total Depth 243

Casing: 5" PVC ASTM D-2241 from 0' to 236'
4.75" ROCK from 236' to 243'

Grout: BENTONITE from 0 to 236

Water from limestone at 236' to 243'

Static level 96' below casing top which is 2' above GL

Pumping level 105' when pumping at 12 gpm for 6 hr(s)

Permanent pump installed at 169' on 7/2/2005, with a capacity of 12 gpm

Remarks: gamma log, drl's est well yield 80 gpm

Owner Address: 1045 Crest Rd. Green Oaks, IL

Address of well: 1045 Crest Rd. Green Oaks, IL Green Oaks IL

Location source: Field verified

Verified by: CJS on 6/21/2005

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