

799933

County Mower
Quad Ostrander
Quad ID 6C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
Minnesota Statutes Chapter 1031

Entry Date 01/22/2016
Update Date 08/04/2025
Received Date 07/22/2015

Well Name RETTERATH,					Township 101	Range 14	Dir W	Section 27	Subsection AACCCC	Well Depth 310 ft.			Depth Completed 310 ft.			Date Well Completed 06/17/2015																			
Elevation 1299.2					Elev. Method LiDAR 1m DEM (MNDNR)					Drill Method Dual Rotary			Drill Fluid																						
Address										Use irrigation			Status Active																						
Well 115TH ST LE ROY MN 55951										Well Hydrofractured?			Yes ☐		No ☐		From		To																
Contact 120 5TH AV SE BOCA RATON FL 33432										Casing Type Step down			Joint																						
Stratigraphy Information										Drive Shoe?			Yes ☐		No ☐		Above/Below																		
Geological Material					From		To (ft.)		Color		Hardness		Casing Diameter				Weight		Hole Diameter																
TOP SOIL					0		1		BLACK		SOFT		10 in. To 185 ft. 40.45 lbs./ft.						16 in. To 185 ft.																
CLAY					1		17		TAN		MEDIUM		16 in. To 40 ft. 62.5 lbs./ft.						10 in. To 310 ft.																
GRAVEL					17		39		TAN		MEDIUM																								
LIMESTONE BROKEN					39		42		TAN																										
LIMESTONE/SHALE					42		114		TAN/GRN		MEDIUM																								
LIMESTONE/SHALE					114		121		TAN/BRN		MEDIUM																								
LIMESTONE/SHALE					121		185		TAN/GRN		MEDIUM																								
LIMESTONE/SHALE					185		235		GRAY		HARD																								
LIMESTONE/SHALE					235		310		GRY/GRN		MEDIUM																								
Open Hole																		From		185 ft.		To		310 ft.											
Screen? ☐																		Type						Make											
Static Water Level																		22 ft.		land surface						Measure		06/17/2015							
Pumping Level (below land surface)																		77 ft.		1 hrs.		Pumping at				800		g.p.m.							
Wellhead Completion																		Pitless adapter manufacturer						WELL SEAL				Model							
☒ Casing Protection																		☒ 12 in. above grade																	
☐ At-grade (Environmental Wells and Borings ONLY)																																			
Grouting Information																		Well Grouted?						☒ Yes		☐ No		☐ Not Specified							
Material										Amount				From				To																	
neat cement										195 Sacks				ft. 185				ft.																	
Nearest Known Source of Contamination																		feet		Direction						Type									
Well disinfected upon completion?																		☐ Yes		☐ No															
Pump ☐ Not Installed																		Date Installed				06/17/2015													
Manufacturer's name																		BERKELEY																	
Model Number										8T-50-650				HP		50		Volt		460															
Length of drop pipe										147 ft		Capacity		700 g.p.		Typ		Submersible																	
Abandoned																		Does property have any not in use and not sealed well(s)? ☐ Yes ☒ No																	
Variance																		Was a variance granted from the MDH for this well? ☐ Yes ☒ No																	
Miscellaneous																		First Bedrock																	
Last Strat																		Aquifer										Depth to Bedrock						ft	
Located by																		Minnesota Geological Survey																	
Locate Method																		Digitization (Screen) - Map (1:24,000) (15 meters or																	
System										UTM - NAD83, Zone 15, Meters				X 540891		Y 4819345																			
Unique Number Verification										Info/GPS from data				Input Date		08/04/2025																			
Angled Drill Hole																																			
Well Contractor																		DMB Drilling Co., Inc.																	
Licensee Business										1647				BRESSER, D.																					
										Lic. or Reg. No.				Name of Driller																					
Minnesota Well Index Report										799933								Printed on 09/01/2026 HE-01205-15																	

Minnesota Unique Well No.

799933

County Mower
Quad Ostrander
Quad ID 6C

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Entry Date 01/22/2016
Update 07/22/2015
Received Date 08/04/2025

Well Name		Township	Range	Dir	Section	Subsection	Use	Status	Well Depth	Depth Completed	Date Well Completed				Lic/Reg. No.						
RETTERATH,		101	14	W	27	AACCCC	irrigation	A	310 ft.	310 ft.	06/17/2015				1647						
Elevation	1299.2	Elev. Method		LiDAR 1m DEM (MNDNR)			Aquifer		Depth to Bedrock		ft	Open Hole		185	-	310	ft	Static Water Level		22	ft
Field Located By		Minnesota Geological Survey				Locate Method		Digitization (Screen) - Map (1:24,000) (15 meters)			Universal Transverse Mercator (UTM) - NAD83 - Zone 15 -										
Unique No. Verified		Info/GPS from data source				Input Source		Minnesota Geological Survey			UTM Easting (X)				540891						
Geological Interpretation						Input Date		08/04/2025			UTM Northing (Y)				481934						
Agency (Interpretation)						Interpretaion Method															
						Depth (ft.)		Elevation (ft.)													
Geological Material		Color	Hardness	From	To	Thickness	From	To	Stratigraphy		Primary Lithology		Secondary		Minor Lithology						
TOP SOIL		BLACK	SOFT	0	1	1	1299.2	1298.2													
CLAY		TAN	MEDIUM	1	17	16	1298.2	1282.2													
GRAVEL		TAN	MEDIUM	17	39	22	1282.2	1260.2													
LIMESTONE BROKEN		TAN		39	42	3	1260.2	1257.2													
LIMESTONE/SHALE		TAN/GRN	MEDIUM	42	114	72	1257.2	1185.2													
LIMESTONE/SHALE		TAN/BRN	MEDIUM	114	121	7	1185.2	1178.2													
LIMESTONE/SHALE		TAN/GRN	MEDIUM	121	185	64	1178.2	1114.2													
LIMESTONE/SHALE		GRAY	HARD	185	235	50	1114.2	1064.2													
LIMESTONE/SHALE		GRY/GRN	MEDIUM	235	310	75	1064.2	989.2													



Minnesota Well Index

General Information

Unique Well ID:	799933	Well Name:	RETTERATH, STEVE	County:	Mower	Aquifer:	
Well Elevation (msl in feet):	1299.2	Drilled Depth (ft):	310	Well Completed (ft):	310	Date Drilled:	06/17/2015
Township:	101	Range:	14	Dir:	W	Section:	27
Subsection:	AACCCC	Use:	irrigation	Well Status:	Active	Depth To Bedrock:	
Driller:	DMB Drilling Co., Inc.	Entry Date:	01/22/2016	Update Date:	08/04/2025		

Related Resources:

Go to MN Well Index Map	Well Log Report	Scanned Record(s)	Scanned Record(s)	Stratigraphy Report
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- More Details
- Stratigraphy
- Address
- Chemical Data
- Construction
- Pump Test
- Static Water
- Comments
- Location Changes
- Overview Map

First Bedrock:	Last Strat:	Open hole top (ft):	185
Strat Source:	Strat Method:	Open hole bottom (ft):	310
Strat Date:	01/22/2016	Strat Update Date:	02/07/2016
		MGS Quadrangle:	6C

WELL OR BORING LOCATION

County Name

Mower

Township Name

Le Roy

Township No

101

Range No

14

Section No

27

Fraction

NE SW 1/4 NE 1/4

GPS LOCATION

Latitude

43

degrees

31

minutes

33

seconds

3

Longitude

92

degrees

29

minutes

38

seconds

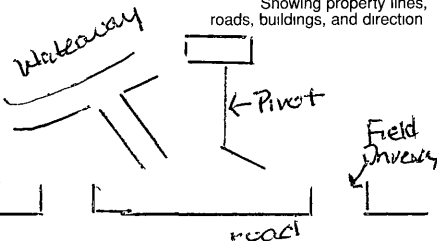
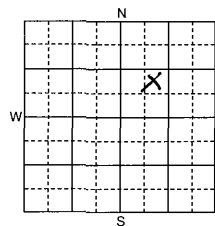
36

House Number, Street Name, City, and ZIP Code of Well Location

Not assigned 115th St, Le Roy MN 55951

Show exact location of well/boring in section grid with "X"

Sketch map of well/boring location Showing property lines, roads, buildings, and direction



PROPERTY OWNER'S NAME/COMPANY NAME

Retteworth, Steve

Property owner's mailing address if different than well location address indicated above

120 SE Fifth Avenue
Suite 223
Boca Raton, FL 33432

WELL OWNER'S NAME/COMPANY NAME

Well/boring owner's mailing address if different than property owner's address indicated above

GEOLOGICAL MATERIALS	COLOR	HARDNESS OF MATERIAL	FROM	TO
top soil	black	soft	0	1
clay	tan	med	1	17
gravel	tan	med	17	39
limestone	tan	broken	39	42
limestone/shale	tan/green	med	42	114
limestone/shale	tan/brown	med	114	121
limestone/shale	tan/green	med	121	185
limestone/shale	gray	hard	185	235
limestone/shale	gray/green	med	235	310

REMARKS, ELEVATION, SOURCE OF DATA, etc



MINN. DEPT. OF HEALTH COPY

799933

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD

Minnesota Statutes, Chapter 103I

MINNESOTA UNIQUE WELL
AND BORING NO

799933

WELL/BORING DEPTH (completed)

310

DATE WORK COMPLETED

June 17, 2015

DRILLING METHOD

☐ Cable Tool
☐ Auger
☐ Other

☐ Driven
☐ Rotary

Dual Rotary

DRILLING FLUID

None

WELL HYDROFRACTURED? ☐ Yes ☐ No

From _____ ft To _____ ft

USE

☐ Domestic
☐ Noncommunity PWS
☐ Community PWS
☐ Elevator

☐ Monitoring
☐ Environ Bore Hole
☒ Irrigation
☐ Dewatering

☐ Heating/Cooling
☐ Industry/Commercial
☐ Remedial

CASING MATERIAL

☒ Steel
☐ Plastic

 Drive Shoe? ☐ Yes ☐ No
☐ Threaded ☐ Welded

HOLE DIAM

CASING Diameter

16

in To

40

Weight

62.5

lbs/ft

Specifications

A53B

16

in To

185

10

in To

185

Weight

40.45

lbs/ft

Specifications

A53B

10

in To

310

SCREEN

Make

Type

Slot/Gauze

Set between

ft and

ft

Fittings

OPEN HOLE

From

185

ft To

310

ft

STATIC WATER LEVEL

22

ft

Below

Above land surface

Measured from

Top

Date measured

June 17, 2015

PUMPING LEVEL (below land surface)

77

ft after

1

hrs pumping

800

g p m

WELLHEAD COMPLETION

☐ Pitless/adaptor manufacturer

Model

☒ Casing protection

well seal

☒ 12 in above grade☐ At-grade☐ Well House☐ Hand Pump

GROUTING INFORMATION (specify bentonite, cement-sand, neat-cement, concrete, cuttings, or other)

Material

Cement

From

185

To

0

ft

A5

Yds

☒ Bags

Material

From

To

ft

Yds

☐ Bags

Material

From

To

ft

Yds

☐ Bags

Driven casing seal

From

To

Bags

NEAREST KNOWN SOURCE OF CONTAMINATION

None

feet

direction

type

Well disinfected upon completion? ☐ Yes ☐ No

PUMP

☐ Not installed

Date installed

June 17, 2015

Manufacturer's name

Berkeley

Model Number

BT-50-650

HP

50

Volts

460

Length of drop pipe

147

ft

Capacity

700

g p m

Type ☒ Submersible☐ L S Turbine☐ Reciprocating☐ Jet☐

ABANDONED WELLS

Does property have any not in use and not sealed well(s)? ☐ Yes ☒ No

VARIANCE

Was a variance granted from the MDH for this well? ☐ Yes ☒ No TN#

WELL CONTRACTOR CERTIFICATION

This well was drilled under my supervision and in accordance with Minnesota Rules, Chapter 4725

The information contained in this report is true to the best of my knowledge

Licensee Business Name

Dan Bresser

Lic or Reg No

1147

Certified Representative Signature

Dan Bresser

Certified Rep No

1147

Date

6/17/15

Name of Driller

Dan Bresser

Water Level Data – MN Test Pumping

Well Owner: Steve Retterath	Date: June 17, 2015	Unique Well # 799933 Job 37213
Casing Diameter (inches): 10	Measuring point Description (ex. Top of Casing):	Well Depth (ft): 310
Driller/Crew: Clint Redeker, Dan Bresser Marty and Tommy	Test Pump Setting (ft): 147	Static Water Level Measurement and Time: 22 June 17, 2015 3:45PM

Time test pumping started:

[illegible]