

Appendix E

MDH Well Log Reports

227989

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 12/04/1992
Update Date 08/31/2018
Received Date

| | | | | | | | |
|--|---|------------------------------------|----------------------------|-----------------------------|--|---------------------------------|--|
| Well Name MWCC PROP. | Township 27 | Range 23 | Dir Section W 18 | Subsection CDBACD | Well Depth 8 ft. | Depth Completed 8 ft. | Date Well Completed 05/20/1988 |
| Elevation 722 ft. | Elev. Method LiDAR 1m DEM (MNDNR) | Drill Method Power Auger | | | | Drill Fluid | |
| Address Contact 702 POST OFFICE BLDG. ST PAUL MN 55101 | | | | | Use monitor well Status Sealed | | |
| Stratigraphy Information Geological Material From To (ft.) Color Hardness FIBROUS PEAT 0 8 BLACK SOFT | | | | | Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> From To | | |
| | | | | | Casing Type Single casing Joint | | |
| | | | | | Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Above/Below 3 ft. | | |
| | | | | | Casing Diameter 2 in. To 5 ft. Weight lbs./ft. Hole Diameter 7 in. To 8 ft. | | |
| | | | | | Open Hole From ft. To ft. | | |
| | | | | | Screen? <input checked="" type="checkbox"/> Type stainless Make JOHNSON | | |
| | | | | | Diameter Slot/Gauze Length Set 2 in. 10 3 ft. 5 ft. 8 ft. | | |
| | | | | | Static Water Level | | |
| | | | | | Pumping Level (below land surface) | | |
| | | | | | Wellhead Completion Pitless adapter manufacturer Model <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | |
| | | | | | Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified Material Amount From To neat cement ft. 3 ft. | | |
| | | | | | Nearest Known Source of Contamination 20 feet South Direction <u>Other</u> Type Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| | | | | | Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name Model Number HP Volt Length of drop pipe ft Capacity g.p. Typ | | |
| | | | | | Abandoned Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| | | | | | Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| | | | | | Miscellaneous First Bedrock Aquifer Quat. Water Last Strat peat-black 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 482528 Y 4963207 Unique Number Verification Site Plan Input Date 08/31/2018 | | |
| | | | | | Angled Drill Hole | | |
| | | | | | Well Contractor U.S. Geol Survey M0113 Licensee Business Lic. or Reg. No. Name of Driller | | |

Remarks
40' W. OF NICOLS RD. & 100' N. OF RR.
CONTAMINATION: MWCC STATION.
WELL SEALED 10-1-1990 BY 27194.
ORIGINAL USE MW - MONITOR WELL.

Minnesota Unique Well Number

277770

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 02/25/2017
Update Date 07/02/2021
Received Date

| | | | | | | | | | | | | | | |
|--|----------|--------------|----------|---------|------------|--------------------------------------|-------------------------------------|-----------------------------|-------------|------------|------|-----|----|-----|
| Well Name | Township | Range | Dir | Section | Subsection | Well Depth | Depth Completed | Date Well Completed | | | | | | |
| OWT-5 | 27 | 23 | W | 18 | CADCAC | 7 ft. | 7 ft. | 08/22/1989 | | | | | | |
| Elevation | 716.7 | Elev. Method | Surveyed | | | | | | | | | | | |
| Address | | | | | | Drill Method | Hand Auger | Drill Fluid | | | | | | |
| | | | | | | Use | monitor well | | Status | Active | | | | |
| | | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | From | To | | | | |
| Stratigraphy Information Geological MaterialFromTo (ft.)ColorHardness DECOMPOSED PEAT05 SILT, PEAT57 | | | | | | Casing Type | Single casing | Joint | | | | | | |
| | | | | | | Drive Shoe? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Above/Below | 4.8 ft. | | | | |
| | | | | | | Casing Diameter | Weight | | | | | | | |
| | | | | | | 2 in. To | 3.9 ft. | lbs./ft. | | | | | | |
| | | | | | | Open Hole | | | | | From | ft. | To | ft. |
| | | | | | | Screen? | <input checked="" type="checkbox"/> | Type | Make | | | | | |
| | | | | | | Diameter | Slot/Gauze | Length | Set | | | | | |
| | | | | | | in. | | ft. | 3.9 ft. | 6.9 ft. | | | | |
| | | | | | | Static Water Level | | | | | | | | |
| | | | | | | 0 | ft. | land surface | Measure | 08/22/1989 | | | | |
| Pumping Level (below land surface) | | | | | | | | | | | | | | |
| Wellhead Completion | | | | | | | | | | | | | | |
| Pitless adapter manufacturerModel | | | | | | | | | | | | | | |
| <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade | | | | | | | | | | | | | | |
| <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | | | | | |
| Grouting InformationWell Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Specified | | | | | | | | | | | | | | |
| Nearest Known Source of Contamination | | | | | | | | | | | | | | |
| feetDirectionType | | | | | | | | | | | | | | |
| Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | |
| Pump <input checked="" type="checkbox"/> Not InstalledDate Installed | | | | | | | | | | | | | | |
| Manufacturer's name | | | | | | | | | | | | | | |
| Model NumberHPVolt | | | | | | | | | | | | | | |
| Length of drop pipeftCapacityg.p.Typ | | | | | | | | | | | | | | |
| Abandoned | | | | | | | | | | | | | | |
| Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | |
| Variance | | | | | | | | | | | | | | |
| Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | |
| Miscellaneous | | | | | | | | | | | | | | |
| First BedrockAquiferQuat. Water | | | | | | | | | | | | | | |
| Last Stratpeat,muckDepth to Bedrockft | | | | | | | | | | | | | | |
| Located byMinnesota Geological Survey | | | | | | | | | | | | | | |
| Locate MethodDigitization (Screen) - Map (1:24,000) (15 meters or | | | | | | | | | | | | | | |
| SystemUTM - NAD83, Zone 15, MetersX 482671Y 4963348 | | | | | | | | | | | | | | |
| Unique Number VerificationInfo/GPS from dataInput Date02/25/2017 | | | | | | | | | | | | | | |
| Angled Drill Hole | | | | | | | | | | | | | | |
| Well Contractor | | | | | | | | | | | | | | |
| Minnesota DNRM0058GULLETT, T. | | | | | | | | | | | | | | |
| Licensee BusinessLic. or Reg. No.Name of Driller | | | | | | | | | | | | | | |
| Remarks THIS NUMBER GIVEN TO DNR-KEYLOR ANDREWS TO TRACK THIS WELL. | | | | | | 277770 | | | | | | | | |
| | | | | | | Minnesota Well Index Report | | | | | | | | |
| | | | | | | Printed on 10/25/2022 HE-01205-15 | | | | | | | | |

Minnesota Unique Well Number

277771

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 02/25/2017
Update Date 07/02/2021
Received Date

| | | | | | | | | | | | |
|--|----------|--------------|----------|----------|------------|--|------------------------------|--|--|----------|-----|
| Well Name | Township | Range | Dir | Section | Subsection | Well Depth | Depth Completed | Date Well Completed | | | |
| OWT-3 | 27 | 23 | W | 18 | CADACA | 8 ft. | 8 ft. | 08/22/1989 | | | |
| Elevation | 716.1 | Elev. Method | Surveyed | | | | | | | | |
| Address | | | | | | Drill Method | Hand Auger | Drill Fluid | | | |
| | | | | | | Use | monitor well | | Status | Active | |
| | | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | From | To | |
| Stratigraphy Information | | | | | | Casing Type | Single casing | Joint | | | |
| | | | | | | Drive Shoe? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Above/Below | 2.12 ft. | |
| | | | | | | Casing Diameter | Weight | | | | |
| Geological Material | From | To (ft.) | Color | Hardness | 2 | in. To | 5 | ft. | lbs./ft. | | |
| DECOMPOSED PEAT | 0 | 5 | | | | | | | | | |
| SILT, PEAT | 5 | 8 | | | | | | | | | |
| Open Hole | | | | | | From | ft. | To | ft. | | |
| Screen? | | | | | | <input checked="" type="checkbox"/> | Type | Make | | | |
| Diameter | | | | | | Slot/Gauze | Length | Set | | | |
| in. | | | | | | | ft. | 5 | ft. | 8 | ft. |
| Static Water Level | | | | | | | | | | | |
| 0 | | | | | | ft. | land surface | Measure | 08/22/1989 | | |
| Pumping Level (below land surface) | | | | | | | | | | | |
| Wellhead Completion | | | | | | | | | | | |
| Pitless adapter manufacturer | | | | | | Model | | | | | |
| <input type="checkbox"/> Casing Protection | | | | | | <input type="checkbox"/> 12 in. above grade | | | | | |
| <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | | |
| Grouting Information | | | | | | Well Grouted? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Not Specified | | |
| Nearest Known Source of Contamination | | | | | | | | | | | |
| feet | | | | | | Direction | | Type | | | |
| Well disinfected upon completion? | | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | | |
| Pump | | | | | | <input checked="" type="checkbox"/> Not Installed | Date Installed | | | | |
| Manufacturer's name | | | | | | | | | | | |
| Model Number | | | | | | HP | Volt | | | | |
| Length of drop pipe | | | | | | ft | Capacity | g.p. | Typ | | |
| Abandoned | | | | | | | | | | | |
| Does property have any not in use and not sealed well(s)? | | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | | |
| Variance | | | | | | | | | | | |
| Was a variance granted from the MDH for this well? | | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | | |
| Miscellaneous | | | | | | | | | | | |
| First Bedrock | | | | | | Aquifer | Quat. | Water | | | |
| Last Strat | | | | | | peat,muck | 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 | 482739 | Y 4963409 | | |
| Unique Number Verification | | | | | | Info/GPS from data | Input Date | 02/25/2017 | | | |
| Angled Drill Hole | | | | | | | | | | | |
| Well Contractor | | | | | | | | | | | |
| Minnesota DNR | | | | | | M0058 | GULLETT, T. | | | | |
| Licensee Business | | | | | | Lic. or Reg. No. | Name of Driller | | | | |
| Remarks | | | | | | | | | | | |
| THIS UNIQUE NUMBER GIVEN TO DNR-KEYLOR ANDREWS TO TRACK THIS WELL. | | | | | | | | | | | |

Minnesota Well Index Report

277771

Printed on 10/25/2022
HE-01205-15

Minnesota Unique Well Number

277772

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 02/25/2017
Update Date 07/02/2021
Received Date

| | | | | | | | | | | |
|--|----------|--------------|----------|----------|------------|--|------------------------------|--|--|----------|
| Well Name | Township | Range | Dir | Section | Subsection | Well Depth | Depth Completed | Date Well Completed | | |
| OWT-4 | 27 | 23 | W | 18 | DBCBBC | 6 ft. | 6 ft. | 08/22/1989 | | |
| Elevation | 712.3 | Elev. Method | Surveyed | | | | | | | |
| Address | | | | | | Drill Method | Hand Auger | Drill Fluid | | |
| | | | | | | Use | monitor well | | Status | Active |
| | | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | From | To |
| Stratigraphy Information | | | | | | Casing Type | Single casing | Joint | | |
| | | | | | | Drive Shoe? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Above/Below | 1.33 ft. |
| | | | | | | Casing Diameter | Weight | | | |
| Geological Material | From | To (ft.) | Color | Hardness | 2 in. | To | 2 ft. | lbs./ft. | | |
| DESCOMPOSED PEAT | 0 | 5 | | | | | | | | |
| SILT, PEAT | 5 | 6 | | | | | | | | |
| Open Hole | | | | | | From | ft. | To | ft. | |
| Screen? | | | | | | <input checked="" type="checkbox"/> | Type | Make | | |
| Diameter | | | | | | Slot/Gauze | Length | Set | | |
| in. | | | | | | | ft. | 2 ft. | 5 ft. | |
| Static Water Level | | | | | | | | | | |
| 0 ft. | | | | | | land surface | Measure | 08/22/1989 | | |
| Pumping Level (below land surface) | | | | | | | | | | |
| Wellhead Completion | | | | | | | | | | |
| Pitless adapter manufacturer | | | | | | Model | | | | |
| <input type="checkbox"/> Casing Protection | | | | | | <input type="checkbox"/> 12 in. above grade | | | | |
| <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | |
| Grouting Information | | | | | | Well Grouted? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Not Specified | |
| Nearest Known Source of Contamination | | | | | | | | | | |
| feet | | | | | | Direction | Type | | | |
| Well disinfected upon completion? | | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | |
| Pump | | | | | | <input checked="" type="checkbox"/> Not Installed | Date Installed | | | |
| Manufacturer's name | | | | | | | | | | |
| Model Number | | | | | | HP | Volt | | | |
| Length of drop pipe | | | | | | ft | Capacity | g.p. | Typ | |
| Abandoned | | | | | | | | | | |
| Does property have any not in use and not sealed well(s)? | | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | |
| Variance | | | | | | | | | | |
| Was a variance granted from the MDH for this well? | | | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | |
| Miscellaneous | | | | | | | | | | |
| First Bedrock | | | | | | Aquifer | Quat. | Water | | |
| Last Strat | | | | | | peat,muck | 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 482821 | Y 4963448 | | |
| Unique Number Verification | | | | | | Info/GPS from data | Input Date | 02/25/2017 | | |
| Angled Drill Hole | | | | | | | | | | |
| Well Contractor | | | | | | | | | | |
| Minnesota DNR | | | | | | M0058 | GULLETT, T. | | | |
| Licensee Business | | | | | | Lic. or Reg. No. | Name of Driller | | | |
| Remarks | | | | | | | | | | |
| THIS UNIQUE NUMBER GIVEN TO DNR-KEYLOR ANDREWS TO TRACK THIS WELL. | | | | | | | | | | |

Minnesota Well Index Report

277772

Printed on 10/25/2022
HE-01205-15

Minnesota Unique Well Number

277774

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 02/25/2017
Update Date 07/02/2021
Received Date

| | | | | | | | | |
|--|--------------------------|-------------|---------------------|----------------------|------------------------------------|--|---------------------|---------|
| Well Name WN1-USGS | Township 27 | Range 23 | Dir Section W 18 | Subsection CADCDA | Well Depth 17.9 ft. | Depth Completed 17.9 ft. | Date Well Completed | |
| Elevation 719.92 | Elev. Method Surveyed | | | | Drill Method | Drill Fluid | | |
| Address | | | | | Use | Status | | |
| | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> No <input type="checkbox"/> | From | To |
| Stratigraphy Information | | | | | Casing Type | Joint | | |
| | | | | | Drive Shoe? | Yes <input type="checkbox"/> No <input type="checkbox"/> | Above/Below | 2.8 ft. |
| | | | | | Casing Diameter | Weight | | |
| | | | | | 1.2 in. To | ft. | lbs./ft. | |
| | | | | | Open Hole | | | |
| | | | | | From | ft. | To | ft. |
| | | | | | Screen? | <input type="checkbox"/> | Type | Make |
| | | | | | Static Water Level | | | |
| | | | | | Pumping Level (below land surface) | | | |
| | | | | | Wellhead Completion | | | |
| Pitless adapter manufacturer | | | | | | | | |
| Model | | | | | | | | |
| <input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade | | | | | | | | |
| <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | |
| Grouting Information | | | | | | | | |
| Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Specified | | | | | | | | |
| Nearest Known Source of Contamination | | | | | | | | |
| feet Direction | | | | | | | | |
| Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | |
| Type | | | | | | | | |
| Pump | | | | | | | | |
| <input type="checkbox"/> Not Installed Date Installed | | | | | | | | |
| Manufacturer's name | | | | | | | | |
| Model Number | | | | | | | | |
| HP | | | | | | | | |
| Volt | | | | | | | | |
| Length of drop pipe | | | | | | | | |
| ft Capacity g.p. Typ | | | | | | | | |
| Abandoned | | | | | | | | |
| Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | |
| Variance | | | | | | | | |
| Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | |
| Miscellaneous | | | | | | | | |
| First Bedrock | | | | | | | | |
| Aquifer | | | | | | | | |
| Last Strat | | | | | | | | |
| 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 482691 Y 4963325 | | | | | | | | |
| Unique Number Verification | | | | | | | | |
| Info/GPS from data | | | | | | | | |
| Input Date | | | | | | | | |
| 02/25/2017 | | | | | | | | |
| Angled Drill Hole | | | | | | | | |
| Well Contractor | | | | | | | | |
| Minnesota Dept. of Natural | | | | | | | | |
| MNDNR | | | | | | | | |
| Licensee Business | | | | | | | | |
| Lic. or Reg. No. | | | | | | | | |
| Name of Driller | | | | | | | | |
| Remarks | | | | | | | | |
| THIS UNIQUE NUMBER GIVEN TO DNR-KEYLOR ANDREWS TO TRACK THIS WELL. | | | | | | | | |

Minnesota Well Index Report

277774

Printed on 10/25/2022
HE-01205-15

Minnesota Unique Well Number

452922

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 09/22/2008
Update Date 10/22/2021
Received Date

| | | | | | | | | | | | |
|---|--------------------------|-------------|----------|---------------|----------------------|---------------------------------------|-------------------------------------|--|---------------|----------|-------|
| Well Name MW - FEN-1 | Township 27 | Range 23 | Dir W | Section 18 | Subsection DBCBBC | Well Depth 75 ft. | Depth Completed 73 ft. | Date Well Completed 05/22/1989 | | | |
| Elevation 712.4 | Elev. Method Surveyed | | | | | Drill Method Multiple methods used | Drill Fluid Bentonite | | | | |
| Address | | | | | | Use monitor well | Status Active | | | | |
| | | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | From | To | |
| | | | | | | Casing Type Single casing | Joint | | | | |
| Stratigraphy Information Geological MaterialFromTo (ft.)ColorHardness PEAT07BLACK ORGANIC CLAY712GRAYSOFT M-C SAND LOOSE1216BRN/GRY F SAND DENSE V1631BRN/GRY CLAYEY SAND3139RED/BRN SFT-MED F-M SAND LOOSE3942BROWN FINE SAND V DENSE4275BROWN | | | | | | Drive Shoe? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | Above/Below | 2.92 ft. | |
| | | | | | | Casing Diameter | Weight | | Hole Diameter | | |
| | | | | | | 2 in. To | 62.4 ft. | lbs./ft. | 6 in. To | 74.5 ft. | |
| | | | | | | Open Hole | | | | | |
| | | | | | | From | | ft. | To | ft. | |
| | | | | | | Screen? | <input checked="" type="checkbox"/> | Type | plastic | Make | TIMCO |
| | | | | | | Diameter | Slot/Gauze | Length | Set | | |
| | | | | | | 2 in. | 10 | 10 ft. | 62.4 ft. | 72.4 ft. | |
| | | | | | | Static Water Level | | | | | |
| | | | | | | Pumping Level (below land surface) | | | | | |
| Wellhead Completion | | | | | | | | | | | |
| Pitless adapter manufacturer | | | | | | | | | | | |
| Model | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Casing Protection | | | | | | | | | | | |
| <input checked="" type="checkbox"/> 12 in. above grade | | | | | | | | | | | |
| <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | | |
| Grouting Information | | | | | | | | | | | |
| Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified | | | | | | | | | | | |
| Material | | | | | | | | | | | |
| Amount | | | | | | | | | | | |
| From | | | | | | | | | | | |
| To | | | | | | | | | | | |
| neat cement | | | | | | | | | | | |
| ft. 50 ft. | | | | | | | | | | | |
| Nearest Known Source of Contamination | | | | | | | | | | | |
| feet | | | | | | | | | | | |
| Direction | | | | | | | | | | | |
| Well disinfected upon completion? | | | | | | | | | | | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |
| Type | | | | | | | | | | | |
| Pump | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Not Installed | | | | | | | | | | | |
| Date Installed | | | | | | | | | | | |
| Manufacturer's name | | | | | | | | | | | |
| Model Number | | | | | | | | | | | |
| HP | | | | | | | | | | | |
| Volt | | | | | | | | | | | |
| Length of drop pipe | | | | | | | | | | | |
| ft | | | | | | | | | | | |
| Capacity | | | | | | | | | | | |
| g.p. | | | | | | | | | | | |
| Typ | | | | | | | | | | | |
| Abandoned | | | | | | | | | | | |
| Does property have any not in use and not sealed well(s)? | | | | | | | | | | | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |
| Variance | | | | | | | | | | | |
| Was a variance granted from the MDH for this well? | | | | | | | | | | | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |
| Miscellaneous | | | | | | | | | | | |
| First Bedrock | | | | | | | | | | | |
| Aquifer | | | | | | | | | | | |
| Last Strat | | | | | | | | | | | |
| sand-brown | | | | | | | | | | | |
| Depth to Bedrock | | | | | | | | | | | |
| ft | | | | | | | | | | | |
| Located by | | | | | | | | | | | |
| Minnesota Geological Survey | | | | | | | | | | | |
| Locate Method | | | | | | | | | | | |
| GPS SA Off (averaged) (15 meters) | | | | | | | | | | | |
| System | | | | | | | | | | | |
| UTM - NAD83, Zone 15, Meters | | | | | | | | | | | |
| X 482821 | | | | | | | | | | | |
| Y 4963450 | | | | | | | | | | | |
| Unique Number Verification | | | | | | | | | | | |
| Tag on well | | | | | | | | | | | |
| Input Date | | | | | | | | | | | |
| 03/08/2018 | | | | | | | | | | | |
| Angled Drill Hole | | | | | | | | | | | |
| Well Contractor | | | | | | | | | | | |
| Gislason, John | | | | | | | | | | | |
| M0070 | | | | | | | | | | | |
| NELSON, T. | | | | | | | | | | | |
| Licensee Business | | | | | | | | | | | |
| Lic. or Reg. No. | | | | | | | | | | | |
| Name of Driller | | | | | | | | | | | |

Remarks
LOCATION: 1150" E OF ICOLS RD - N OF RR RIGHT OF WAY

Minnesota Well Index Report

452922

Printed on 10/25/2022
HE-01205-15

Minnesota Unique Well Number

452923

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 09/22/2008
Update Date 09/25/2018
Received Date

| | | | | | | | | | | | |
|---|--------------------------|------------------------------|----------|-----------------|---------------------|------------------------------------|-------------------------------------|--|---------------|--------|-------|
| Well Name MW-FEN-2B | Township 27 | Range 23 | Dir W | Section 18 | Subsection DBCBB | Well Depth 15 ft. | Depth Completed 15 ft. | Date Well Completed 05/23/1989 | | | |
| Elevation 714.7 | Elev. Method Surveyed | | | | | Drill Method Power Auger | Drill Fluid | | | | |
| Address | | | | | | Use monitor well | Status Active | | | | |
| | | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | From | To | |
| | | | | | | Casing Type Single casing | Joint | | | | |
| Stratigraphy Information Geological MaterialFromTo (ft.)ColorHardness NO SAMPLES TAKEN010 ORGANIC CLAY1012GRAYSOFT MED TO COARSE1215BRN/GRY | | | | | | Drive Shoe? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | Above/Below | 2 ft. | |
| | | | | | | Casing Diameter | Weight | | Hole Diameter | | |
| | | | | | | 2 in. To | 10 ft. | lbs./ft. | 8 in. To | 15 ft. | |
| | | | | | | Open Hole | | | | | |
| | | | | | | From | | ft. | To | ft. | |
| | | | | | | Screen? | <input checked="" type="checkbox"/> | Type | plastic | Make | TIMCO |
| | | | | | | Diameter | Slot/Gauze | Length | Set | | |
| | | | | | | 2 in. | 10 | 5 ft. | 10 ft. | 15 ft. | |
| | | | | | | Static Water Level | | | | | |
| | | | | | | Pumping Level (below land surface) | | | | | |
| Wellhead Completion | | | | | | | | | | | |
| Pitless adapter manufacturerModel | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade | | | | | | | | | | | |
| <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | | |
| Grouting Information | | | | | | | | | | | |
| Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified | | | | | | | | | | | |
| Material | | Amount | | From | To | | | | | | |
| neat cement | | | | ft. 6.8 | ft. | | | | | | |
| Nearest Known Source of Contamination | | | | | | | | | | | |
| feet | | Direction | | Type | | | | | | | |
| Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |
| Pump <input checked="" type="checkbox"/> Not InstalledDate Installed | | | | | | | | | | | |
| Manufacturer's name | | | | | | | | | | | |
| Model Number | | HP | Volt | | | | | | | | |
| Length of drop pipe | | ft | Capacity | g.p. | Typ | | | | | | |
| Abandoned | | | | | | | | | | | |
| Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |
| Variance | | | | | | | | | | | |
| Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |
| Miscellaneous | | | | | | | | | | | |
| First Bedrock | | Aquifer | | | | | | | | | |
| Last Strat | sand | Depth to Bedrock | | ft | | | | | | | |
| Located by Minnesota Geological Survey | | | | | | | | | | | |
| Locate Method GPS SA Off (averaged) (15 meters) | | | | | | | | | | | |
| System | | UTM - NAD83, Zone 15, Meters | | X 482824 | Y 4963447 | | | | | | |
| Unique Number Verification | | Tag on well | | Input Date | 03/08/2018 | | | | | | |
| Angled Drill Hole | | | | | | | | | | | |
| Well Contractor | | | | | | | | | | | |
| Gislason, John | | M0070 | | MISHLER, T | | | | | | | |
| Licensee Business | | Lic. or Reg. No. | | Name of Driller | | | | | | | |
| Remarks LOCATION: 1150' E OF NICOLS RD - N OF RR RIGHT OF WAY | | | | | | | | | | | |

Minnesota Well Index Report

452923

Printed on 10/25/2022
HE-01205-15

452924

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date09/22/2008
Update Date03/12/2020
Received Date

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------------|--|----------------|--|-------------|--|---------------------|--|----------------------|--|--|--|---|--|-----------------------------------|--|--|--|--|--|------------|--|---------------|--|------|--|
| Well Name MW-FEN-3 | | | | Township 27 | | Range 23 | | Dir Section W 18 | | Subsection CADCDA | | Well Depth 75 ft. | | Depth Completed 75 ft. | | Date Well Completed 05/25/1989 | | | | | | | | | | | |
| Elevation 720.2 | | Elev. Method Surveyed | | | | | | | | | | Drill Method Multiple methods used | | Drill Fluid Bentonite | | | | | | | | | | | | | |
| Address | | | | | | | | | | | | Use monitor well | | Status Active | | | | | | | | | | | | | |
| | | | | | | | | | | | | Well Hydrofractured? | | Yes <input type="checkbox"/> No <input type="checkbox"/> | | From | | To | | | | | | | | | |
| Stratigraphy Information Geological MaterialFromTo (ft.)ColorHardness PEAT03BLACK ORGANIC CLAY DK.315VARIEDSOFT FINE SAND LOOSE TO1521BRN/GRY CLAY STIFF2124RED/BRN FINE SAND DENSE2448BROWN SILTY SAND VERY4853RED/BRN FINE SAND VERY5375BROWN | | | | | | | | | | | | Casing Type Single casing | | Joint | | | | | | | | | | | | | |
| | | | | | | | | | | | | Drive Shoe? | | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | Above/Below | | 2.2 ft. | | | | | | | | | |
| | | | | | | | | | | | | Casing Diameter | | Weight | | Hole Diameter | | | | | | | | | | | |
| | | | | | | | | | | | | 2 in. To | | 64.5 ft. lbs./ft. | | 6 in. To | | 74.5 ft. | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Open Hole | | From | | ft. | | To | | ft. | | | | | | | |
| | | | | | | | | | | | | Screen? | | <input checked="" type="checkbox"/> | | Type | | plastic | | Make | | TIMCO | | | | | |
| | | | | | | | | | | | | Diameter | | Slot/Gauze | | Length | | Set | | | | | | | | | |
| | | | | | | | | | | | | 2 in. | | 10 | | 10 ft. | | 64.5 ft. | | 74.5 ft. | | | | | | | |
| | | | | | | | | | | | | Static Water Level | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Pumping Level (below land surface) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Wellhead Completion | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Pitless adapter manufacturer | | | | | | Model | | | | | | | | | |
| | | | | | | | | | | | | <input checked="" type="checkbox"/> Casing Protection | | | | | | <input checked="" type="checkbox"/> 12 in. above grade | | | | | | | | | |
| | | | | | | | | | | | | <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Grouting Information | | | | | | Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified | | | | | | | | | |
| | | | | | | | | | | | | Material | | | | | | Amount | | | | | | From | | To | |
| | | | | | | | | | | | | neat cement | | | | | | | | | | | | ft. 50.2 | | ft. | |
| | | | | | | | | | | | | Nearest Known Source of Contamination | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | feet | | | | | | Direction | | | | | | | | Type | |
| | | | | | | | | | | | | Well disinfected upon completion? | | | | | | <input type="checkbox"/> Yes | | <input checked="" type="checkbox"/> No | | | | | | | |
| | | | | | | | | | | | | Pump | | | | | | <input checked="" type="checkbox"/> Not Installed | | Date Installed | | | | | | | |
| | | | | | | | | | | | | Manufacturer's name | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Model Number | | | | | | HP | | Volt | | | | | | | |
| | | | | | | | | | | | | Length of drop pipe | | | | | | ft | | Capacity | | g.p. | | Typ | | | |
| | | | | | | | | | | | | Abandoned | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Does property have any not in use and not sealed well(s)? | | | | | | <input type="checkbox"/> Yes | | <input type="checkbox"/> No | | | | | | | |
| | | | | | | | | | | | | Variance | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Was a variance granted from the MDH for this well? | | | | | | <input type="checkbox"/> Yes | | <input type="checkbox"/> No | | | | | | | |
| | | | | | | | | | | | | Miscellaneous | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | First Bedrock | | | | | | Aquifer | | | | | | indeterminate | | | |
| | | | | | | | | | | | | Last Strat | | | | | | sand-brown | | Depth to Bedrock | | | | | | ft | |
| | | | | | | | | | | | | Located by | | | | | | Minnesota Geological Survey | | | | | | | | | |
| | | | | | | | | | | | | Locate Method | | | | | | GPS SA Off (averaged) (15 meters) | | | | | | | | | |
| | | | | | | | | | | | | System | | | | | | UTM - NAD83, Zone 15, Meters | | X 482694 | | Y 4963326 | | | | | |
| | | | | | | | | | | | | Unique Number Verification | | | | | | Tag on well | | Input Date | | 03/08/2018 | | | | | |
| | | | | | | | | | | | | Angled Drill Hole | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Well Contractor | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Gislason, John | | | | | | M0070 | | NELSON, T. | | | | | | | |
| | | | | | | | | | | | | Licensee Business | | | | | | Lic. or Reg. No. | | Name of Driller | | | | | | | |

Minnesota Unique Well Number

452925

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 09/22/2008
Update Date 10/22/2021
Received Date

| | | | | | | | | | | | |
|---|--------------------------|------------------------------|----------|-----------------|----------------------|------------------------------------|-------------------------------------|--|-------------|----------|-------|
| Well Name MW-FEN-4 | Township 27 | Range 23 | Dir W | Section 18 | Subsection CADCDA | Well Depth 21 ft. | Depth Completed 20 ft. | Date Well Completed 05/26/1989 | | | |
| Elevation 721.2 | Elev. Method Surveyed | | | | | Drill Method Power Auger | Drill Fluid | | | | |
| Address | | | | | | Use monitor well | Status Active | | | | |
| | | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | From | To | |
| | | | | | | Casing Type Single casing | Joint | | | | |
| Stratigraphy Information Geological MaterialFromTo (ft.)ColorHardness LOG FROM ADJACENT03BLACK ORGANIC CLAY DK315VARIEDSOFT FINE SAND LOOSE TO1521BRN/GRY | | | | | | Drive Shoe? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | Above/Below | 2.4 ft. | |
| | | | | | | Casing Diameter | Weight | Hole Diameter | | | |
| | | | | | | 2 in. To | 14.6 ft. lbs./ft. | 8 in. To 21 ft. | | | |
| | | | | | | Open Hole | | | | | |
| | | | | | | From | | ft. | To | ft. | |
| | | | | | | Screen? | <input checked="" type="checkbox"/> | Type | plastic | Make | TIMCO |
| | | | | | | Diameter | Slot/Gauze | Length | Set | | |
| | | | | | | 2 in. | 10 | 5 ft. | 14.6 ft. | 19.6 ft. | |
| | | | | | | Static Water Level | | | | | |
| | | | | | | Pumping Level (below land surface) | | | | | |
| Wellhead Completion | | | | | | | | | | | |
| Pitless adapter manufacturerModel | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade | | | | | | | | | | | |
| <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | | |
| Grouting Information | | | | | | | | | | | |
| Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified | | | | | | | | | | | |
| Material | | Amount | | From | To | | | | | | |
| neat cement | | | | | ft. 10.5 ft. | | | | | | |
| Nearest Known Source of Contamination | | | | | | | | | | | |
| feet | | Direction | | Type | | | | | | | |
| Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | | | |
| Pump <input checked="" type="checkbox"/> Not InstalledDate Installed | | | | | | | | | | | |
| Manufacturer's name | | | | | | | | | | | |
| Model Number | | HP | | Volt | | | | | | | |
| Length of drop pipe | | ft | Capacity | g.p. | Typ | | | | | | |
| Abandoned | | | | | | | | | | | |
| Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |
| Variance | | | | | | | | | | | |
| Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |
| Miscellaneous | | | | | | | | | | | |
| First Bedrock | | Aquifer | | | | | | | | | |
| Last Strat | sand | Depth to Bedrock | | ft | | | | | | | |
| Located by Minnesota Geological Survey | | | | | | | | | | | |
| Locate Method GPS SA Off (averaged) (15 meters) | | | | | | | | | | | |
| System | | UTM - NAD83, Zone 15, Meters | | X 482693 | Y 4963326 | | | | | | |
| Unique Number Verification | | Tag on well | | Input Date | 03/08/2018 | | | | | | |
| Angled Drill Hole | | | | | | | | | | | |
| Well Contractor | | | | | | | | | | | |
| Gislason, John | | M0070 | | NELSON, T. | | | | | | | |
| Licensee Business | | Lic. or Reg. No. | | Name of Driller | | | | | | | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |

Minnesota Well Index Report

452925

Printed on 10/25/2022
HE-01205-15

462718

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 10/31/2013
Update Date 09/25/2018
Received Date 07/01/2008

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------------------------------|----------------------------|----------------------------|---|----------------------------------|--|-------------------------|----------|--------------|---|---|-------|------|--------------|---|----|--------|------|-----------|----|----|------|------|--------------|----|----|-------|------|----------------|----|----|-------|--|-----------------|----|----|-------|--|----------------|----|----|-------|--|----------------|----|----|-------|--|--|--|--|--|
| Well Name OBS-11A | Township 27 | Range 23 | Dir Section W 18 | Subsection DBCDB | Well Depth 33 ft. | Depth Completed 32 ft. | Date Well Completed 03/23/1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elevation 716 ft. | Elev. Method LiDAR 1m DEM (MNDNR) | Drill Method Power Auger | | | | Drill Fluid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address Well 3750 PLANT RD EAGAN MN 55122 | | | | | Use monitor well | | | Status Sealed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stratigraphy Information | | | | | Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> From To | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>ORGANIC CLAY</td><td>0</td><td>4</td><td>BLACK</td><td>SOFT</td></tr><tr><td>ORGANIC CLAY</td><td>4</td><td>12</td><td>VARIED</td><td>SOFT</td></tr><tr><td>LEAN CLAY</td><td>12</td><td>14</td><td>GRAY</td><td>SOFT</td></tr><tr><td>GRAVEL LOOSE</td><td>14</td><td>17</td><td>BROWN</td><td>SOFT</td></tr><tr><td>MEDIUM TO FINE</td><td>17</td><td>21</td><td>BROWN</td><td></td></tr><tr><td>FINE SAND LOOSE</td><td>21</td><td>27</td><td>BROWN</td><td></td></tr><tr><td>MEDIUM TO FINE</td><td>27</td><td>29</td><td>BROWN</td><td></td></tr><tr><td>FINE SAND VERY</td><td>29</td><td>33</td><td>BROWN</td><td></td></tr></table> | | | | | Geological Material | From | To (ft.) | Color | Hardness | ORGANIC CLAY | 0 | 4 | BLACK | SOFT | ORGANIC CLAY | 4 | 12 | VARIED | SOFT | LEAN CLAY | 12 | 14 | GRAY | SOFT | GRAVEL LOOSE | 14 | 17 | BROWN | SOFT | MEDIUM TO FINE | 17 | 21 | BROWN | | FINE SAND LOOSE | 21 | 27 | BROWN | | MEDIUM TO FINE | 27 | 29 | BROWN | | FINE SAND VERY | 29 | 33 | BROWN | | Casing Type Single casing Joint | | | |
| Geological Material | From | To (ft.) | Color | Hardness | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ORGANIC CLAY | 0 | 4 | BLACK | SOFT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ORGANIC CLAY | 4 | 12 | VARIED | SOFT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LEAN CLAY | 12 | 14 | GRAY | SOFT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRAVEL LOOSE | 14 | 17 | BROWN | SOFT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEDIUM TO FINE | 17 | 21 | BROWN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINE SAND LOOSE | 21 | 27 | BROWN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEDIUM TO FINE | 27 | 29 | BROWN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FINE SAND VERY | 29 | 33 | BROWN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Above/Below 2.5 ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Casing Diameter Weight Hole Diameter 2 in. To 27 ft. lbs./ft. 10 in. To 33 ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Open Hole From ft. To ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Screen? <input checked="" type="checkbox"/> Type plastic Make TIMCO Diameter Slot/Gauze Length Set 2 in. 10 5 ft. 27 ft. 32 ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Static Water Level 8.5 ft. land surface Measure 03/23/1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Pumping Level (below land surface) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Wellhead Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified Material Amount From To neat cement 3 ft. 23 ft. concrete 0 ft. 3 ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Nearest Known Source of Contamination feet Direction Type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name Model Number HP Volt Length of drop pipe ft Capacity g.p. Typ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Abandoned Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Miscellaneous First Bedrock Aquifer Quat. Water Last Strat sand-brown Depth to Bedrock ft Located by Minnesota Geological Survey Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 482865 Y 4963427 Unique Number Verification Tag on well Input Date 03/08/2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Angled Drill Hole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Well Contractor Gislason, John M0070 NELSON, T. Licensee Business Lic. or Reg. No. Name of Driller | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks SEALED 6-6-2008 BY 1404. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

462719

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date
Update Date 09/25/2018
Received Date 07/01/2008

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------------------------------|----------------------------|----------------------------|--|----------------------------------|--|-------|----------|--------------|---|---|-------|------|--------------|---|----|--------|------|-----------|----|----|------|------|---|--|--|
| Well Name OBS-11B | Township 27 | Range 23 | Dir Section W 18 | Subsection DBCDB | Well Depth 13 ft. | Depth Completed 12 ft. | Date Well Completed 03/22/1990 | | | | | | | | | | | | | | | | | | | | |
| Elevation 716 ft. | Elev. Method LiDAR 1m DEM (MNDNR) | Drill Method Power Auger | | | | Drill Fluid | | | | | | | | | | | | | | | | | | | | | |
| Address Well 3750 PLANT RD EAGAN MN 55122 | | | | | Use monitor well Status Sealed | | | | | | | | | | | | | | | | | | | | | | |
| Stratigraphy Information | | | | | Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> From To | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>ORGANIC CLAY</td><td>0</td><td>4</td><td>BLACK</td><td>SOFT</td></tr><tr><td>ORGANIC CLAY</td><td>4</td><td>12</td><td>VARIED</td><td>SOFT</td></tr><tr><td>LEAN CLAY</td><td>12</td><td>13</td><td>GRAY</td><td>SOFT</td></tr></table> | | | | | Geological Material | From | To (ft.) | Color | Hardness | ORGANIC CLAY | 0 | 4 | BLACK | SOFT | ORGANIC CLAY | 4 | 12 | VARIED | SOFT | LEAN CLAY | 12 | 13 | GRAY | SOFT | Casing Type Single casing Joint | | |
| Geological Material | From | To (ft.) | Color | Hardness | | | | | | | | | | | | | | | | | | | | | | | |
| ORGANIC CLAY | 0 | 4 | BLACK | SOFT | | | | | | | | | | | | | | | | | | | | | | | |
| ORGANIC CLAY | 4 | 12 | VARIED | SOFT | | | | | | | | | | | | | | | | | | | | | | | |
| LEAN CLAY | 12 | 13 | GRAY | SOFT | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Drive Shoe? Yes <input type="checkbox"/> No <input type="checkbox"/> Above/Below 2.5 ft. | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Casing Diameter Weight 2 in. To 7 ft. lbs./ft. | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Open Hole From ft. To ft. | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Screen? <input checked="" type="checkbox"/> Type plastic Make TIMCO Diameter Slot/Gauze Length Set 2 in. 10 5 ft. 7 ft. 12 ft. | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Static Water Level 8.5 ft. land surface Measure 03/22/1990 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Pumping Level (below land surface) | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Wellhead Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified Material Amount From To concrete 0 ft. 3 ft. | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Nearest Known Source of Contamination feet Direction Type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name Model Number HP Volt Length of drop pipe ft Capacity g.p. Typ | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Abandoned Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Miscellaneous First Bedrock Aquifer Quat. Water Last Strat clay-gray Depth to Bedrock ft Located by Minnesota Geological Survey Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 482866 Y 4963425 Unique Number Verification Tag on well Input Date 03/08/2018 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Angled Drill Hole | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Well Contractor Gislason, John M0070 NELSON, M. Licensee Business Lic. or Reg. No. Name of Driller | | | | | | | | | | | | | | | | | | | | | | |

Remarks
SEALED 60602008 BY 1404.

509094

County Dakota
Quad
Quad ID

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

Entry Date 04/19/2013
Update Date 09/24/2018
Received Date 07/12/1996

| | | | | | | | |
|--|-----------------------|--------------------|----------------------------|--------------------------|--|--|--|
| Well Name IW4 METRO | Township 27 | Range 23 | Dir Section W 18 | Subsection DBC | Well Depth 73 ft. | Depth Completed 73 ft. | Date Well Completed 07/02/1990 |
| Elevation | Elev. Method | | | | Drill Method Cable Tool | Drill Fluid Bentonite | |
| Address | | | | | Use injection | Status Sealed | |
| Contact 3752 PLANT RD EAGAN MN | | | | | Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> From To | | |
| Well SEE REMARKS MN | | | | | Casing Type Step down Joint | | |
| Stratigraphy Information | | | | | Drive Shoe? Yes <input type="checkbox"/> No <input type="checkbox"/> Above/Below | | |
| Geological Material | | From | To (ft.) | Color | Hardness | Casing Diameter 8 in. To 28 ft. lbs./ft. | |
| CLAY/PEAT | | 0 | 11 | BLACK | SOFT | 45 in. To 23 ft. | |
| SAND | | 11 | 73 | | | 2.5 in. To 22 ft. lbs./ft. | |
| | | | | | Open Hole From ft. To ft. | | |
| | | | | | Screen? <input checked="" type="checkbox"/> Type Make JOHNSON | | |
| | | | | | Diameter Slot/Gauze Length Set | | |
| | | | | | in. 30 ft. 20 ft. 73 ft. | | |
| | | | | | Static Water Level 20 ft. land surface Measure 07/10/1990 | | |
| | | | | | Pumping Level (below land surface) 30 ft. 3 hrs. Pumping at 100 g.p.m. | | |
| | | | | | Wellhead Completion Pitless adapter manufacturer Model | | |
| | | | | | <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade | | |
| | | | | | <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | |
| | | | | | Grouting Information Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified | | |
| | | | | | Material Amount From To | | |
| | | | | | neat cement 3 Cubic yards ft. 28 ft. | | |
| | | | | | Nearest Known Source of Contamination feet Direction Type | | |
| | | | | | Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| | | | | | Pump <input checked="" type="checkbox"/> Not Installed Date Installed | | |
| | | | | | Manufacturer's name | | |
| | | | | | Model Number HP Volt | | |
| | | | | | Length of drop pipe ft Capacity g.p. Typ | | |
| | | | | | Abandoned Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| | | | | | Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| | | | | | Miscellaneous First Bedrock Aquifer | | |
| | | | | | Last Strat Depth to Bedrock ft | | |
| | | | | | Located by | | |
| | | | | | Locate Method | | |
| | | | | | System UTM - NAD83, Zone 15, Meters X Y | | |
| | | | | | Unique Number Verification Input Date | | |
| | | | | | Angled Drill Hole | | |
| | | | | | Well Contractor Keys Well Co. 62012 | | |
| | | | | | Licensee Business Lic. or Reg. No. Name of Driller | | |
| Remarks WELL ADDRESS: 1500' NE NICOLAS RD AND C&NW RAILROAD SEALED 1-17-1996 BY 27118 | | | | | | | |

Minnesota Unique Well Number

509096

County Dakota

Quad

Quad ID

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date04/19/2013

Update Date03/10/2014

Received Date07/12/1996

| | | | | | | | | | | | | | | |
|---|--------------|-------|-----|---------|------------|---|---|--------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|---------------|
| Well Name | Township | Range | Dir | Section | Subsection | Well Depth | Depth Completed | Date Well Completed | | | | | | |
| IW-2 METRO | 27 | 23 | W | 18 | DBC | 73 ft. | 73 ft. | 07/00/1990 | | | | | | |
| Elevation | Elev. Method | | | | | Drill Method | Cable Tool | Drill Fluid | Bentonite | | | | | |
| Address | | | | | | Use | injection | Status | Sealed | | | | | |
| Well | | | | | | SEE REMARKS MN | | | | | | | | |
| Stratigraphy Information | | | | | | Well Hydrofractured? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | From | To | | |
| Geological Material | | | | | | Casing Type | Step down | | Joint | | | | | |
| PEAT/CLAY | | | | | | Drive Shoe? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | Above/Below | | | |
| SAND | | | | | | Casing Diameter | Weight | | Hole Diameter | | | | | |
| | | | | | | 20 in. To | 20 ft. | lbs./ft. | 16 in. To | | | ft. | | |
| | | | | | | 28 in. To | 28 ft. | lbs./ft. | | | | | | |
| | | | | | | Open Hole | From | ft. | To | ft. | | | | |
| | | | | | | Screen? | <input checked="" type="checkbox"/> | Type | Make | JOHNSON | | | | |
| | | | | | | Diameter | Slot/Gauze | Length | Set | | | | | |
| | | | | | | in. | 30 | 0 ft. | 28 ft. | 73 ft. | | | | |
| | | | | | | Static Water Level | | | | | | | | |
| | | | | | | 10 ft. | land surface | Measure | 08/06/1990 | | | | | |
| | | | | | | Pumping Level (below land surface) | | | | | | | | |
| | | | | | | Wellhead Completion | | | | | | | | |
| | | | | | | Pitless adapter manufacturer | | | | Model | | | | |
| | | | | | | <input type="checkbox"/> | Casing Protection | | <input checked="" type="checkbox"/> | 12 in. above grade | | | | |
| | | | | | | <input type="checkbox"/> | At-grade (Environmental Wells and Borings ONLY) | | | | | | | |
| | | | | | | Grouting Information | | Well Grouted? | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | Not Specified |
| | | | | | | Material | Amount | From | To | | | | | |
| | | | | | | neat cement | 3 Cubic yards | ft. | 20 ft. | | | | | |
| | | | | | | Nearest Known Source of Contamination | | | | | | | | |
| | | | | | | feet | Direction | | Type | | | | | |
| | | | | | | Well disinfected upon completion? | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No | | | | |
| | | | | | | Pump | <input checked="" type="checkbox"/> | Not Installed | Date Installed | | | | | |
| | | | | | | Manufacturer's name | | | | | | | | |
| | | | | | | Model Number | HP | Volt | | | | | | |
| | | | | | | Length of drop pipe | ft | Capacity | g.p. | Typ | | | | |
| | | | | | | Abandoned | | | | | | | | |
| | | | | | | Does property have any not in use and not sealed well(s)? | | | | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No | |
| | | | | | | Variance | | | | | | | | |
| | | | | | | Was a variance granted from the MDH for this well? | | | | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No | |
| | | | | | | Miscellaneous | | | | | | | | |
| | | | | | | First Bedrock | Aquifer | | | | | | | |
| | | | | | | Last Strat | Depth to Bedrock | | ft | | | | | |
| | | | | | | Located by | | | | | | | | |
| | | | | | | Locate Method | | | | | | | | |
| | | | | | | System | UTM - NAD83, Zone 15, Meters | | X | Y | | | | |
| | | | | | | Unique Number Verification | | Input Date | | | | | | |
| | | | | | | Angled Drill Hole | | | | | | | | |
| | | | | | | Well Contractor | | | | | | | | |
| | | | | | | Keys Well Co. | | 62012 | | | | | | |
| | | | | | | Licensee Business | | Lic. or Reg. No. | | Name of Driller | | | | |
| Remarks | | | | | | | | | | | | | | |
| WELL ADDRESS: 1500' NE NICOLAS RD AND C&NW RAILROAD | | | | | | | | | | | | | | |
| SEALED 1-17-1996 BY 27118 | | | | | | | | | | | | | | |

Minnesota Well Index Report

509096

Printed on 10/25/2022

HE-01205-15

512173

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date08/22/1991
Update Date09/24/2018
Received Date04/03/1990

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|----------------------|----------|------------------|-------------------|---|--|---|-------------|---------------|------|---|---|--|--|------|---|----|--|--|----------|----|----|--|--|------|----|----|--|--|------|----|----|--|--|------|----|----|--|--|------------------------------|-----------------|
| Well Name NWCC | Township 27 | Range 23 | Dir W | Section 18 | Subsection DBC | Well Depth 73 ft. | Depth Completed 71 ft. | Date Well Completed 03/17/1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elevation | Elev. Method | | | | | Drill Method Power Auger | Drill Fluid Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address | | | | | | Use injection | Status Sealed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C/W 3752 PLANT RD MN | | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> No <input type="checkbox"/> | From To | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stratigraphy Information <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>PEAT</td><td>0</td><td>8</td><td></td><td></td></tr><tr><td>CLAY</td><td>8</td><td>12</td><td></td><td></td></tr><tr><td>BOULDERS</td><td>12</td><td>14</td><td></td><td></td></tr><tr><td>SAND</td><td>14</td><td>50</td><td></td><td></td></tr><tr><td>CLAY</td><td>50</td><td>55</td><td></td><td></td></tr><tr><td>SAND</td><td>55</td><td>73</td><td></td><td></td></tr></table> | | | | | | Geological Material | From | To (ft.) | Color | Hardness | PEAT | 0 | 8 | | | CLAY | 8 | 12 | | | BOULDERS | 12 | 14 | | | SAND | 14 | 50 | | | CLAY | 50 | 55 | | | SAND | 55 | 73 | | | Casing Type Single casing | Joint Welded |
| | | | | | | Geological Material | From | To (ft.) | Color | Hardness | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | PEAT | 0 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | CLAY | 8 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | BOULDERS | 12 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | SAND | 14 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | CLAY | 50 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | SAND | 55 | 73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Drive Shoe? | | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Above/Below | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Casing Diameter | | Weight | | Hole Diameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 in. To | | 15.5 ft. 28 lbs./ft. | | 42 in. To 20 ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 36 in. To 30 ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 24 in. To 70 ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Open Hole | | | | | | From | ft. | To | ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Screen? | | | | | | <input checked="" type="checkbox"/> | Type stainless | Make JOHNSON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diameter | | | | | | Slot/Gauze | Length | Set | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 in. | | | | | | 30 | 55 ft. | 15.5 ft. | 70.5 ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Static Water Level | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 ft. | | | | | | land surface | Measure | 03/17/1990 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pumping Level (below land surface) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wellhead Completion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pitless adapter manufacturer | | | | | | Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Casing Protection | | | | | | <input checked="" type="checkbox"/> 12 in. above grade | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grouting Information | | | | | | Well Grouted? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Material | | | | | | Amount | From | To | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| neat cement | | | | | | 5 Cubic yards | ft. | 10 ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nearest Known Source of Contamination | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| feet | | | | | | Direction | Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Well disinfected upon completion? | | | | | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pump | | | | | | <input checked="" type="checkbox"/> Not Installed | Date Installed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer's name | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model Number | | | | | | HP | Volt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Length of drop pipe | | | | | | ft | Capacity | g.p. | Typ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abandoned | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Does property have any not in use and not sealed well(s)? | | | | | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Variance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Was a variance granted from the MDH for this well? | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| First Bedrock | | | | | | Aquifer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Last Strat | | | | | | Depth to Bedrock | | | ft | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Located by | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Locate Method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| System | | | | | | UTM - NAD83, Zone 15, Meters | X | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unique Number Verification | | | | | | Input Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angled Drill Hole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Well Contractor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tri-state Well Co. | | | | | | 27118 | HICKMAN, J. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Licensee Business | | | | | | Lic. or Reg. No. | Name of Driller | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Minnesota Unique Well Number

522299

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 03/14/1994
Update Date 10/22/2021
Received Date

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--------------------------|--|-------------|--|---------------------|--|----------------------|--|--|--|--|--|---|--|-----------------------------|--|--|--|---------|--|
| Well Name MW-1LS | | | | Township 27 | | Range 23 | | Dir Section W 18 | | Subsection CDDCAA | | Well Depth 10 ft. | | Depth Completed 8 ft. | | Date Well Completed 02/02/1993 | | | | | | | |
| Elevation 748.8 | | | | Elev. Method Surveyed | | | | | | | | Drill Method Non-specified Rotary | | Drill Fluid | | | | | | | | | |
| Address | | | | | | | | | | | | Use monitor well | | Status Active | | | | | | | | | |
| Contact 230 FIFTH ST ST PAUL MN 55101 | | | | | | | | | | | | Well Hydrofractured? | | Yes <input type="checkbox"/> | | No <input type="checkbox"/> | | From | | To | | | |
| Well 3800 NICHOLS RD MN | | | | | | | | | | | | Casing Type Single casing | | Joint | | | | | | | | | |
| Stratigraphy Information | | | | | | | | | | | | Drive Shoe? | | Yes <input type="checkbox"/> | | No <input type="checkbox"/> | | Above/Below | | 2.05 ft. | | | |
| Geological Material | | | | From | | To (ft.) | | Color | | Hardness | | Casing Diameter | | Weight | | Hole Diameter | | | | | | | |
| PEAT/MUCK | | | | 0 | | 10 | | BLACK | | SOFT | | 2 in. To 3 ft. | | lbs./ft. | | 8 in. To 9 ft. | | | | | | | |
| | | | | | | | | | | | | Open Hole | | From | | ft. | | To | | ft. | | | |
| | | | | | | | | | | | | Screen? | | <input checked="" type="checkbox"/> | | Type | | plastic | | Make | | JOHNSON | |
| | | | | | | | | | | | | Diameter | | Slot/Gauze | | Length | | Set | | | | | |
| | | | | | | | | | | | | 2 in. | | 10 | | 5 ft. | | 3 ft. | | 8 ft. | | | |
| | | | | | | | | | | | | Static Water Level | | | | | | | | | | | |
| | | | | | | | | | | | | 1.3 ft. | | land surface | | | | Measure | | 02/05/1993 | | | |
| | | | | | | | | | | | | Pumping Level (below land surface) | | | | | | | | | | | |
| | | | | | | | | | | | | Wellhead Completion | | | | | | | | | | | |
| | | | | | | | | | | | | Pitless adapter manufacturer | | | | | | | | | | | |
| | | | | | | | | | | | | Model | | | | | | | | | | | |
| | | | | | | | | | | | | <input checked="" type="checkbox"/> Casing Protection | | | | | | | | | | | |
| | | | | | | | | | | | | <input type="checkbox"/> 12 in. above grade | | | | | | | | | | | |
| | | | | | | | | | | | | <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | | | | |
| | | | | | | | | | | | | Grouting Information | | Well Grouted? | | <input checked="" type="checkbox"/> Yes | | <input type="checkbox"/> No | | <input type="checkbox"/> Not Specified | | | |
| | | | | | | | | | | | | Material | | Amount | | From | | To | | | | | |
| | | | | | | | | | | | | neat cement | | 1 Sacks | | | | ft. 2 | | ft. | | | |
| | | | | | | | | | | | | Nearest Known Source of Contamination | | | | | | | | | | | |
| | | | | | | | | | | | | feet | | Direction | | | | | | Type | | | |
| | | | | | | | | | | | | Well disinfected upon completion? | | <input type="checkbox"/> Yes | | <input checked="" type="checkbox"/> No | | | | | | | |
| | | | | | | | | | | | | Pump | | <input checked="" type="checkbox"/> Not Installed | | Date Installed | | | | | | | |
| | | | | | | | | | | | | Manufacturer's name | | | | | | | | | | | |
| | | | | | | | | | | | | Model Number | | HP | | Volt | | | | | | | |
| | | | | | | | | | | | | Length of drop pipe | | ft | | Capacity | | g.p. | | Typ | | | |
| | | | | | | | | | | | | Abandoned | | | | | | | | | | | |
| | | | | | | | | | | | | Does property have any not in use and not sealed well(s)? | | | | | | | | | | | |
| | | | | | | | | | | | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | | | |
| | | | | | | | | | | | | Variance | | | | | | | | | | | |
| | | | | | | | | | | | | Was a variance granted from the MDH for this well? | | | | | | | | | | | |
| | | | | | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | |
| | | | | | | | | | | | | Miscellaneous | | | | | | | | | | | |
| | | | | | | | | | | | | First Bedrock | | | | Aquifer | | Quat. Water | | | | | |
| | | | | | | | | | | | | Last Strat | | peat-black | | 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 482674 | | Y 4962978 | | | | | |
| | | | | | | | | | | | | Unique Number Verification | | Information from | | Input Date | | 07/22/2019 | | | | | |
| | | | | | | | | | | | | Angled Drill Hole | | | | | | | | | | | |
| | | | | | | | | | | | | Well Contractor | | | | | | | | | | | |
| | | | | | | | | | | | | Twin City Testing | | M0122 | | BRABENDER, L. | | | | | | | |
| | | | | | | | | | | | | Licensee Business | | Lic. or Reg. No. | | Name of Driller | | | | | | | |
| Minnesota Well Index Report | | | | | | | | | | | | 522299 | | Printed on 10/25/2022 HE-01205-15 | | | | | | | | | |

526701

County

Dakota

Quad

St Paul SW

Quad ID

103C

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date

09/22/2008

Update Date

11/05/2021

Received Date

| | | | | | | | | | | | | | | | | |
|--|---|--|----------|-------|----------|------|---|----|-------|------|------------|----|----|-------|--|--|
| <div>Well Name</div> PZ-1 LN <div>Township</div> 27 <div>Range</div> 23 <div>Dir Section</div> W 18 <div>Subsection</div> CDDCAA | <div>Well Depth</div> 28 ft. <div>Depth Completed</div> 28 ft. <div>Date Well Completed</div> 02/02/1993 | | | | | | | | | | | | | | | |
| <div>Elevation</div> 748.8 <div>Elev. Method</div> Surveyed | <div>Drill Method</div> Driven <div>Drill Fluid</div> | | | | | | | | | | | | | | | |
| <div>Address</div> <div>Well3800 NICOLS RD MN</div> | <div>Use</div> piezometer <div>Status</div> Active | | | | | | | | | | | | | | | |
| <div>Stratigraphy Information</div> <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>PEAT</td><td>0</td><td>18</td><td>BLACK</td><td>SOFT</td></tr><tr><td>SAND LOOSE</td><td>18</td><td>28</td><td>BROWN</td><td></td></tr></table> | Geological Material | From | To (ft.) | Color | Hardness | PEAT | 0 | 18 | BLACK | SOFT | SAND LOOSE | 18 | 28 | BROWN | | <div>Well Hydrofractured?</div> <div>Yes<input type="checkbox"/></div> <div>No<input type="checkbox"/></div> <div>From</div> <div>To</div> |
| | Geological Material | From | To (ft.) | Color | Hardness | | | | | | | | | | | |
| | PEAT | 0 | 18 | BLACK | SOFT | | | | | | | | | | | |
| | SAND LOOSE | 18 | 28 | BROWN | | | | | | | | | | | | |
| | <div>Casing Type</div> Single casing <div>Joint</div> | <div>Drive Shoe?</div> <div>Yes<input checked="" type="checkbox"/></div> <div>No<input type="checkbox"/></div> <div>Above/Below</div> 3.16 ft. | | | | | | | | | | | | | | |
| | <div>Casing Diameter</div> 1.2 in. To 26 ft. <div>Weight</div> lbs./ft. | | | | | | | | | | | | | | | |
| | <div>Open Hole</div> <div>From</div> <div>ft.</div> <div>To</div> <div>ft.</div> | | | | | | | | | | | | | | | |
| | <div>Screen?</div> <input checked="" type="checkbox"/> <div>Type</div> stainless <div>Make</div> TEEL | <div>Diameter</div> 1.2 in. <div>Slot/Gauze</div> 60 <div>Length</div> 2 ft. <div>Set</div> 26 ft. 28 ft. | | | | | | | | | | | | | | |
| | <div>Static Water Level</div> <div>1.1 ft.</div> <div>land surface</div> <div>Measure</div> 02/05/1993 | | | | | | | | | | | | | | | |
| | <div>Pumping Level (below land surface)</div> | | | | | | | | | | | | | | | |
| <div>Wellhead Completion</div> <div>Pitless adapter manufacturer</div> <div>Model</div> <div><input checked="" type="checkbox"/> Casing Protection</div> <div><input type="checkbox"/> 12 in. above grade</div> <div><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</div> | | | | | | | | | | | | | | | | |
| <div>Grouting Information</div> <div>Well Grouted?</div> <div><input type="checkbox"/> Yes</div> <div><input checked="" type="checkbox"/> No</div> <div><input type="checkbox"/> Not Specified</div> | | | | | | | | | | | | | | | | |
| <div>Nearest Known Source of Contamination</div> <div>feet</div> <div>Direction</div> <div>Well disinfected upon completion?</div> <div><input type="checkbox"/> Yes</div> <div><input checked="" type="checkbox"/> No</div> <div>Type</div> | | | | | | | | | | | | | | | | |
| <div>Pump</div> <input checked="" type="checkbox"/> Not Installed <div>Date Installed</div> <div>Manufacturer's name</div> <div>Model Number</div> <div>HP</div> <div>Volt</div> <div>Length of drop pipe</div> <div>ft</div> <div>Capacity</div> <div>g.p.</div> <div>Typ</div> | | | | | | | | | | | | | | | | |
| <div>Abandoned</div> <div>Does property have any not in use and not sealed well(s)?</div> <div><input type="checkbox"/> Yes</div> <div><input checked="" type="checkbox"/> No</div> | | | | | | | | | | | | | | | | |
| <div>Variance</div> <div>Was a variance granted from the MDH for this well?</div> <div><input type="checkbox"/> Yes</div> <div><input type="checkbox"/> No</div> | | | | | | | | | | | | | | | | |
| <div>Remarks</div> | <div>Miscellaneous</div> <div>First Bedrock</div> <div>Aquifer</div> <div>Quat. Water</div> <div>Last Strat</div> sand-brown <div>Depth to Bedrock</div> ft | | | | | | | | | | | | | | | |
| | <div>Located by</div> Minnesota Geological Survey | | | | | | | | | | | | | | | |
| | <div>Locate Method</div> Digitization (Screen) - Map (1:24,000) (15 meters or | | | | | | | | | | | | | | | |

526702

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 09/22/2008
Update Date 09/05/2020
Received Date

| | | | | | | | | |
|---|---------------------------------|--------------------|-----------------|----------------------|-----------------------------|--|----------------------------------|--|
| Well Name PZ-1RN | Township 27 | Range 23 | Dir W | Section 18 | Subsection CDDBDD | Well Depth 36 ft. | Depth Completed 36 ft. | Date Well Completed 02/03/1993 |
| Elevation 753.08 | Elev. Method Surveyed | | | | | Drill Method Driven | Drill Fluid | |
| Address Well 3800 NICOLS RD MN | | | | | | Use piezometer | Status Sealed | |
| Stratigraphy Information Geological Material From To (ft.) Color Hardness PEAT 0 26 BLACK SOFT SAND LOOSE 26 36 BROWN | | | | | | Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> From To | | |
| | | | | | | Casing Type Single casing <input type="checkbox"/> Joint | | |
| | | | | | | Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Above/Below 1.92 ft. | | |
| | | | | | | Casing Diameter 1.2 in. Weight 34 ft. lbs./ft. | | |
| | | | | | | Open Hole From ft. To ft. | | |
| | | | | | | Screen? <input checked="" type="checkbox"/> Type stainless Make TEEL | | |
| | | | | | | Diameter Slot/Gauze Length Set | | |
| | | | | | | 1.2 in. 60 2 ft. 34 ft. 36 ft. | | |
| | | | | | | Static Water Level 7.3 ft. land surface Measure 02/05/1993 | | |
| | | | | | | Pumping Level (below land surface) | | |
| Wellhead Completion Pitless adapter manufacturer Model <input checked="" type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | | | | | | |
| Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Specified | | | | | | | | |
| Nearest Known Source of Contamination feet Direction Type Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | |
| Pump <input checked="" type="checkbox"/> Not Installed Date Installed Manufacturer's name Model Number HP Volt Length of drop pipe ft Capacity g.p. Typ | | | | | | | | |
| Abandoned Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | |
| Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | |
| Miscellaneous First Bedrock Aquifer Quat. Water Last Strat sand-brown 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 482693 Y 4963000 Unique Number Verification Information from Input Date 07/22/2019 | | | | | | | | |
| Angled Drill Hole | | | | | | | | |
| Well Contractor Twin City Testing M0122 Licensee Business Lic. or Reg. No. Name of Driller | | | | | | | | |

Remarks
SEALED 03-31-1997 BY M0143

526703

County

Dakota

Quad

St Paul SW

Quad ID

103C

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date

09/22/2008

Update Date

09/05/2020

Received Date

| | |
|--|---|
| <div>Well Name</div> PZ-1 RS <div>Township</div> 27 <div>Range</div> 23 <div>Dir Section</div> W 18 <div>Subsection</div> CDDBDD | <div>Well Depth</div> 11 ft. <div>Depth Completed</div> 11 ft. <div>Date Well Completed</div> 02/03/1993 |
| <div>Elevation</div> 753.08 <div>Elev. Method</div> Surveyed | <div>Drill Method</div> Driven <div>Drill Fluid</div> |
| <div>Address</div> <div>Well3800 NICOLS RD MN</div> | <div>Use</div> piezometer <div>Status</div> Sealed |
| <div>Stratigraphy Information</div> <div>Geological Material</div> PEAT <div>From</div> 0 <div>To (ft.)</div> 11 <div>Color</div> BLACK <div>Hardness</div> SOFT | <div>Well Hydrofractured?</div> <div>Yes</div> <input type="checkbox"/> <div>No</div> <input type="checkbox"/> <div>From</div> <div>To</div> |
| | <div>Casing Type</div> Single casing <div>Joint</div> |
| | <div>Drive Shoe?</div> <div>Yes</div> <input checked="" type="checkbox"/> <div>No</div> <input type="checkbox"/> <div>Above/Below</div> 2.58 ft. |
| | <div>Casing Diameter</div> 1.2 in. To <div>Weight</div> 7.5 ft. lbs./ft. |
| | <div>Open Hole</div> <div>From</div> <div>ft.</div> <div>To</div> <div>ft.</div> |
| | <div>Screen?</div> <input checked="" type="checkbox"/> <div>Type</div> stainless <div>Make</div> TEEL <div>Diameter</div> 1.2 in. <div>Slot/Gauze</div> 60 <div>Length</div> 3 ft. <div>Set</div> 7.5 ft. 10.5 ft. |
| | <div>Static Water Level</div> <div>1.9 ft.</div> <div>land surface</div> <div>Measure</div> 02/05/1993 |
| | <div>Pumping Level (below land surface)</div> |
| | <div>Wellhead Completion</div> <div>Pitless adapter manufacturer</div> <div>Model</div> <div><input checked="" type="checkbox"/> Casing Protection</div> <div><input type="checkbox"/> 12 in. above grade</div> <div><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</div> |
| | <div>Grouting Information</div> <div>Well Grouted?</div> <input type="checkbox"/> Yes <div><input checked="" type="checkbox"/> No</div> <input type="checkbox"/> Not Specified |
| <div>Remarks</div> SEALED 03-31-1997 BY M0143 | <div>Nearest Known Source of Contamination</div> <div>feet</div> <div>Direction</div> <div>Well disinfected upon completion?</div> <input type="checkbox"/> Yes <div><input checked="" type="checkbox"/> No</div> <div>Type</div> |
| | <div>Pump</div> <input checked="" type="checkbox"/> Not Installed <div>Date Installed</div> <div>Manufacturer's name</div> <div>Model Number</div> <div>HP</div> <div>Volt</div> <div>Length of drop pipe</div> ft <div>Capacity</div> g.p. <div>Typ</div> |
| | <div>Abandoned</div> <div>Does property have any not in use and not sealed well(s)?</div> <input type="checkbox"/> Yes <div><input checked="" type="checkbox"/> No</div> |
| | <div>Variance</div> <div>Was a variance granted from the MDH for this well?</div> <input type="checkbox"/> Yes <div><input type="checkbox"/> No</div> |
| | <div>Miscellaneous</div> <div>First Bedrock</div> <div>Aquifer</div> <div>Quat. Water</div> <div>Last Strat</div> peat-black <div>Depth to Bedrock</div> ft |
| | <div>Located by</div> Minnesota Geological Survey |
| | <div>Locate Method</div> Digitization (Screen) - Map (1:24,000) (15 meters or |

| | | | | | | | |
|---|--|-----------------|--|---|--|------------------------|--|
| Minnesota Unique Well Number | | County Dakota | | MINNESOTA DEPARTMENT OF HEALTH | | Entry Date 09/22/2008 | |
| 526704 | | Quad St Paul SW | | WELL AND BORING REPORT | | Update Date 09/05/2020 | |
| | | Quad ID 103C | | Minnesota Statutes Chapter 1031 | | Received Date | |
| Well Name PZ 2 LN Township 27 Range 23 Dir Section W 18 Subsection CDDBBB | | | | Well Depth 36 ft. Depth Completed 36 ft. Date Well Completed 02/02/1993 | | | |
| Elevation 738.97 Elev. Method Surveyed | | | | Drill Method Driven Drill Fluid | | | |
| Address | | | | Use piezometer Status Sealed | | | |
| Well 3800 NICOLS RD MN | | | | Well Hydrofractured? Yes No From To | | | |
| Stratigraphy Information | | | | Casing Type Single casing Joint | | | |
| Geological Material From To (ft.) Color Hardness | | | | Drive Shoe? Yes No Above/Below 4.25 ft. | | | |
| PEAT 0 26 BLACK SOFT | | | | Casing Diameter Weight | | | |
| SAND LOOSE 26 36 BROWN | | | | 1.2 in. To 34 ft. lbs./ft. | | | |
| | | | | Open Hole From ft. To ft. | | | |
| | | | | Screen? Slot/Gauze Type stainless Make TEEL | | | |
| | | | | Diameter Length Set | | | |
| | | | | 1.2 in. 60 2 ft. 34 ft. 36 ft. | | | |
| | | | | Static Water Level | | | |
| | | | | -4.2 ft. land surface Measure 02/05/1993 | | | |
| | | | | Pumping Level (below land surface) | | | |
| | | | | Wellhead Completion | | | |
| | | | | Pitless adapter manufacturer Model | | | |
| | | | | Casing Protection 12 in. above grade | | | |
| | | | | At-grade (Environmental Wells and Borings ONLY) | | | |
| | | | | Grouting Information Well Grouted? Yes No Not Specified | | | |
| | | | | Nearest Known Source of Contamination | | | |
| | | | | feet Direction Type | | | |
| | | | | Well disinfected upon completion? Yes No | | | |
| | | | | Pump Not Installed Date Installed | | | |
| | | | | Manufacturer's name | | | |
| | | | | Model Number HP Volt | | | |
| | | | | Length of drop pipe ft Capacity g.p. Typ | | | |
| | | | | 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 Aquifer Quat. Water | | | |
| | | | | Last Strat sand-brown 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 482616 Y 4963070 | | | |
| | | | | Unique Number Verification Information from Input Date 07/22/2019 | | | |
| | | | | Angled Drill Hole | | | |
| | | | | Well Contractor | | | |
| | | | | Twin City Testing M0122 BRANBENDER, L | | | |
| | | | | Licensee Business Lic. or Reg. No. Name of Driller | | | |
| Remarks | | | | | | | |
| STATIC WATER LEVEL: -4.2 FROZEN | | | | | | | |
| SEALED 03-31-1997 BY M0143 | | | | | | | |
| Minnesota Well Index Report | | 526704 | | | | Printed on 10/25/2022 | |
| | | | | | | HE-01205-15 | |

526705

County

Dakota

Quad

St Paul SW

Quad ID

103C

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date

09/22/2008

Update Date

09/05/2020

Received Date

| | |
|---|---|
| <div>Well Name</div> PZ 2 LS <div>Township</div> 27 <div>Range</div> 23 <div>Dir Section</div> W 18 <div>Subsection</div> CDDBBB | <div>Well Depth</div> 6 ft. <div>Depth Completed</div> 6 ft. <div>Date Well Completed</div> 02/02/1993 |
| <div>Elevation</div> 738.97 <div>Elev. Method</div> Surveyed | <div>Drill Method</div> Driven <div>Drill Fluid</div> |
| <div>Address</div> <div>Well</div> 3800 NICOLS RD MN | <div>Use</div> piezometer <div>Status</div> Sealed |
| <div>Stratigraphy Information</div> <div>Geological Material</div> PEAT <div>From</div> 0 <div>To (ft.)</div> 6 <div>Color</div> BLACK <div>Hardness</div> SOFT | <div>Well Hydrofractured?</div> <div>Yes</div> <input type="checkbox"/> <div>No</div> <input type="checkbox"/> <div>From</div> <div>To</div> |
| | <div>Casing Type</div> Single casing <div>Joint</div> |
| | <div>Drive Shoe?</div> <div>Yes</div> <input checked="" type="checkbox"/> <div>No</div> <input type="checkbox"/> <div>Above/Below</div> 2.43 ft. |
| | <div>Casing Diameter</div> 1.2 in. <div>To</div> 3 <div>Weight</div> ft. lbs./ft. |
| | <div>Open Hole</div> <div>From</div> <div>ft.</div> <div>To</div> <div>ft.</div> |
| | <div>Screen?</div> <input checked="" type="checkbox"/> <div>Type</div> stainless <div>Make</div> TEEL <div>Diameter</div> 1.2 in. <div>Slot/Gauze</div> 60 <div>Length</div> 3 ft. <div>Set</div> 3 ft. <div>6</div> ft. |
| | <div>Static Water Level</div> |
| | <div>Pumping Level (below land surface)</div> |
| | <div>Wellhead Completion</div> <div>Pitless adapter manufacturer</div> <div>Model</div> <div><input checked="" type="checkbox"/> Casing Protection</div> <div><input type="checkbox"/> 12 in. above grade</div> <div><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</div> |
| | <div>Grouting Information</div> <div>Well Grouted?</div> <div><input type="checkbox"/> Yes</div> <div><input checked="" type="checkbox"/> No</div> <div><input type="checkbox"/> Not Specified</div> |
| <div>Nearest Known Source of Contamination</div> <div>feet</div> <div>Direction</div> <div>Well disinfected upon completion?</div> <div><input type="checkbox"/> Yes</div> <div><input checked="" type="checkbox"/> No</div> <div>Type</div> | |
| <div>Pump</div> <div><input checked="" type="checkbox"/> Not Installed</div> <div>Date Installed</div> <div>Manufacturer's name</div> <div>Model Number</div> <div>HP</div> <div>Volt</div> <div>Length of drop pipe</div> ft <div>Capacity</div> g.p. <div>Typ</div> | |
| <div>Abandoned</div> <div>Does property have any not in use and not sealed well(s)?</div> <div><input type="checkbox"/> Yes</div> <div><input checked="" type="checkbox"/> No</div> | |
| <div>Variance</div> <div>Was a variance granted from the MDH for this well?</div> <div><input type="checkbox"/> Yes</div> <div><input type="checkbox"/> No</div> | |
| <div>Remarks</div> STATIC WATER LEVEL: FROZEN SEALED 03-31-1997 BY M0143 | <div>Miscellaneous</div> <div>First Bedrock</div> <div>Aquifer</div> <div>Quat. Water</div> <div>Last Strat</div> peat-black <div>Depth to Bedrock</div> ft <div>Located by</div> Minnesota Geological Survey <div>Locate Method</div> Digitization (Screen) - Map (1:24,000) (15 meters or |

System

X

Y

Unique Number Verification

Input Date

Minnesota Unique Well Number

526706

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 09/22/2008
Update Date 09/05/2020
Received Date

| | | | | | | | | | |
|----------------------------|----------|--------------|----------|---------|------------|---|---|-----------------------------|----------------------|
| Well Name | Township | Range | Dir | Section | Subsection | Well Depth | Depth Completed | Date Well Completed | |
| PZ 2 RN | 27 | 23 | W | 18 | CDDBBA | 37 ft. | 37 ft. | 02/01/1993 | |
| Elevation | 738.82 | Elev. Method | Surveyed | | | | | | |
| Address | | | | | | Use | piezometer | Status | Sealed |
| Well | | | | | | 3800 NICOLS RD MN | | | |
| Stratigraphy Information | | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | From To |
| Geological Material | | | | | | Casing Type | Single casing | Joint | |
| PEAT | | | | | | Drive Shoe? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Above/Below 7.25 ft. |
| SAND LOOSE | | | | | | Casing Diameter | Weight | | |
| | | | | | | 1.2 in. To | 34.8 ft. | lbs./ft. | |
| | | | | | | Open Hole | From | ft. | To ft. |
| | | | | | | Screen? | <input checked="" type="checkbox"/> | Type | stainless |
| | | | | | | Diameter | Slot/Gauze | Length | Set |
| | | | | | | 1.2 in. | 60 | 2 ft. | 34.8 ft. 36.8 ft. |
| | | | | | | Static Water Level | | | |
| | | | | | | -3.1 ft. | land surface | Measure | 02/05/1993 |
| | | | | | | Pumping Level (below land surface) | | | |
| | | | | | | Wellhead Completion | | | |
| | | | | | | Pitless adapter manufacturer Model | | | |
| | | | | | | <input checked="" type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade | | | |
| | | | | | | <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | | |
| | | | | | | Grouting Information Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Specified | | | |
| | | | | | | Nearest Known Source of Contamination | | | |
| | | | | | | feet | Direction | | Type |
| | | | | | | Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| | | | | | | Pump | <input checked="" type="checkbox"/> Not Installed | Date Installed | |
| | | | | | | Manufacturer's name | | | |
| | | | | | | Model Number | HP | Volt | |
| | | | | | | Length of drop pipe | ft | Capacity | g.p. Typ |
| | | | | | | Abandoned | | | |
| | | | | | | Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| | | | | | | Variance | | | |
| | | | | | | Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| | | | | | | Miscellaneous | | | |
| | | | | | | First Bedrock | Aquifer | Quat. Water | |
| | | | | | | Last Strat | sand-brown | 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 482644 | Y 4963080 |
| | | | | | | Unique Number Verification | Information from | Input Date | 07/22/2019 |
| | | | | | | Angled Drill Hole | | | |
| | | | | | | Well Contractor | | | |
| | | | | | | Twin City Testing | M0122 | BRABENDER, L. | |
| | | | | | | Licensee Business | Lic. or Reg. No. | Name of Driller | |
| Remarks | | | | | | | | | |
| SEALED 03-31-1997 BY M0143 | | | | | | | | | |

Minnesota Well Index Report

526706

Printed on 10/25/2022
HE-01205-15

| | | | | | | | |
|--|--|-----------------|--|--|--|--------------------------------|--|
| Minnesota Unique Well Number | | County Dakota | | MINNESOTA DEPARTMENT OF HEALTH | | Entry Date 09/22/2008 | |
| 526707 | | Quad St Paul SW | | WELL AND BORING REPORT | | Update Date 09/05/2020 | |
| | | Quad ID 103C | | Minnesota Statutes Chapter 1031 | | Received Date | |
| Well Name PZ-2 RS | | | | Township 27 | | Range 23 | |
| Dir Section W 18 | | | | Subsection CDDDBA | | Well Depth 8 ft. | |
| Elevation 738.82 | | | | Elev. Method Surveyed | | Depth Completed 8 ft. | |
| Address | | | | Use piezometer | | Date Well Completed 02/01/1993 | |
| Well 3800 NICOLS RD MN | | | | Well Hydrofractured? | | Status Sealed | |
| | | | | Yes No | | From To | |
| Stratigraphy Information | | | | Casing Type Single casing | | Joint | |
| Geological Material From To (ft.) Color Hardness | | | | Drive Shoe? Yes No | | Above/Below 2.47 ft. | |
| PEAT 0 8 BLACK SOFT | | | | Casing Diameter Weight | | | |
| | | | | 1.2 in. To 4.8 ft. lbs./ft. | | | |
| | | | | Open Hole From ft. To ft. | | | |
| | | | | Screen? Slot/Gauze Type stainless Make TEEL | | | |
| | | | | Diameter Length Set | | | |
| | | | | 1.2 in. 60 3 ft. 4.8 ft. 7.8 ft. | | | |
| | | | | Static Water Level | | | |
| | | | | Pumping Level (below land surface) | | | |
| | | | | Wellhead Completion | | | |
| | | | | Pitless adapter manufacturer Model | | | |
| | | | | Casing Protection 12 in. above grade | | | |
| | | | | At-grade (Environmental Wells and Borings ONLY) | | | |
| | | | | Grouting Information Well Grouted? Yes No | | Not Specified | |
| | | | | Nearest Known Source of Contamination | | | |
| | | | | feet Direction | | Type | |
| | | | | Well disinfected upon completion? Yes No | | | |
| | | | | Pump Not Installed Date Installed | | | |
| | | | | Manufacturer's name | | | |
| | | | | Model Number HP Volt | | | |
| | | | | Length of drop pipe ft Capacity g.p. Typ | | | |
| | | | | 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 | | Aquifer Quat. Water | |
| | | | | Last Strat peat-black | | 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 482644 Y 4963080 | | | |
| | | | | Unique Number Verification Information from Input Date 07/22/2019 | | | |
| | | | | Angled Drill Hole | | | |
| | | | | Well Contractor | | | |
| | | | | Twin City Testing M0122 BRABENDER, L. | | | |
| | | | | Licensee Business Lic. or Reg. No. Name of Driller | | | |
| Remarks | | 526707 | | | | | |
| STATIC WATER LEVEL: FROZEN | | | | | | Printed on 10/25/2022 | |
| SEALED 03-31-1997 BY M0143 | | | | | | HE-01205-15 | |

526708

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 09/22/2008
Update Date 09/05/2020
Received Date

| | | | | | | | | |
|--|---------------------------------|--------------------|-----------------|----------------------|-----------------------------|---|--|--|
| Well Name PZ-3 LN | Township 27 | Range 23 | Dir W | Section 18 | Subsection CDBDAD | Well Depth 40 ft. | Depth Completed 40 ft. | Date Well Completed 02/02/1993 |
| Elevation 727.71 | Elev. Method Surveyed | | | | | | Drill Method Driven | Drill Fluid |
| Address Well 3800 NICOLS RD MN | | | | | | Use piezometer | Status Sealed | |
| | | | | | | Well Hydrofractured? Yes <input type="checkbox"/> No <input type="checkbox"/> | From | To |
| Stratigraphy Information | | | | | | Casing Type Single casing | Joint | |
| | | | | | | Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Above/Below | 3.91 ft. |
| Geological Material PEAT SAND LOOSE | | | | | | From 0 30 | To (ft.) 30 40 | Color BLACK BROWN |
| | | | | | | Hardness SOFT | | |
| | | | | | | Casing Diameter 1.2 in. | Weight 38 ft. | lbs./ft. |
| | | | | | | Open Hole From | ft. | To |
| | | | | | | Screen? <input checked="" type="checkbox"/> | Type stainless | Make TEEL |
| | | | | | | Diameter 1.2 in. | Slot/Gauze 60 | Length 2 ft. |
| | | | | | | Set 38 ft. | 40 ft. | |
| | | | | | | Static Water Level | | |
| | | | | | | Pumping Level (below land surface) | | |
| | | | | | | Wellhead Completion Pitless adapter manufacturer | | |
| | | | | | | <input checked="" type="checkbox"/> Casing Protection | <input type="checkbox"/> 12 in. above grade | Model |
| | | | | | | <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | |
| | | | | | | Grouting Information | Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Specified | |
| | | | | | | Nearest Known Source of Contamination feet Direction | | |
| | | | | | | Well disinfected upon completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Type | |
| | | | | | | Pump <input checked="" type="checkbox"/> Not Installed | Date Installed | |
| | | | | | | Manufacturer's name | | |
| | | | | | | Model Number | HP | Volt |
| | | | | | | Length of drop pipe ft | Capacity g.p. | Typ |
| | | | | | | Abandoned Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| | | | | | | Variance Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| | | | | | | Miscellaneous First Bedrock | | |
| | | | | | | Last Strat sand-brown | Aquifer | Quat. Water Depth to Bedrock |
| | | | | | | Located by Minnesota Geological Survey | | |
| | | | | | | Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or | | |
| | | | | | | System UTM - NAD83, Zone 15, Meters | X 482580 | Y 4963140 |
| | | | | | | Unique Number Verification | Information from | Input Date 07/22/2019 |
| | | | | | | Angled Drill Hole | | |
| | | | | | | Well Contractor Twin City Testing | | |
| | | | | | | M0122 | BRABENDER, L. | |
| | | | | | | Licensee Business | Lic. or Reg. No. | Name of Driller |

Remarks
STATIC WATER LEVEL: FROZEN
SEALED 03-31-1997 BY M0143

| | | | | | | | |
|--|--|----------------------------|--|--|--|--------------------------------|--|
| Minnesota Unique Well Number | | County Dakota | | MINNESOTA DEPARTMENT OF HEALTH | | Entry Date 09/22/2008 | |
| 526709 | | Quad St Paul SW | | WELL AND BORING REPORT | | Update Date 09/05/2020 | |
| | | Quad ID 103C | | Minnesota Statutes Chapter 1031 | | Received Date | |
| Well Name PZ-3 LS | | | | Township 27 | | Range 23 | |
| Dir Section W 18 | | | | Subsection CDBDAD | | Well Depth 6 ft. | |
| Elevation 727.71 | | | | Elev. Method Surveyed | | Depth Completed 6 ft. | |
| Address | | | | Use piezometer | | Date Well Completed 02/02/1993 | |
| Well 3800 NICOLS RD MN | | | | Well Hydrofractured? | | Status Sealed | |
| | | | | Yes No | | From To | |
| Stratigraphy Information | | | | Casing Type Single casing | | Joint | |
| Geological Material From To (ft.) Color Hardness | | | | Drive Shoe? Yes No | | Above/Below 2.56 ft. | |
| PEAT 0 6 BLACK SOFT | | | | Casing Diameter Weight | | | |
| | | | | 1.2 in. To 2.7 ft. lbs./ft. | | | |
| | | | | Open Hole From ft. To ft. | | | |
| | | | | Screen? Slot/Gauze Type stainless Make TEEL | | | |
| | | | | Diameter Length Set | | | |
| | | | | 1.2 in. 60 3 ft. 2.7 ft. 5.7 ft. | | | |
| | | | | Static Water Level | | | |
| | | | | 1.2 ft. land surface Measure 02/05/1993 | | | |
| | | | | Pumping Level (below land surface) | | | |
| | | | | Wellhead Completion | | | |
| | | | | Pitless adapter manufacturer Model | | | |
| | | | | Casing Protection 12 in. above grade | | | |
| | | | | At-grade (Environmental Wells and Borings ONLY) | | | |
| | | | | Grouting Information Well Grouted? Yes No Not Specified | | | |
| | | | | Nearest Known Source of Contamination | | | |
| | | | | feet Direction | | Type | |
| | | | | Well disinfected upon completion? Yes No | | | |
| | | | | Pump Not Installed Date Installed | | | |
| | | | | Manufacturer's name | | | |
| | | | | Model Number HP Volt | | | |
| | | | | Length of drop pipe ft Capacity g.p. Typ | | | |
| | | | | 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 | | Aquifer Quat. Water | |
| | | | | Last Strat peat-black | | 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 482580 Y 4963140 | | | |
| | | | | Unique Number Verification Information from Input Date 07/22/2019 | | | |
| | | | | Angled Drill Hole | | | |
| | | | | Well Contractor | | | |
| | | | | Twin City Testing M0122 BRABENDER, L. | | | |
| | | | | Licensee Business Lic. or Reg. No. Name of Driller | | | |
| Remarks | | SEALED 03-31-1997 BY M0143 | | | | | |
| Minnesota Well Index Report | | 526709 | | | | Printed on 10/25/2022 | |
| | | | | | | HE-01205-15 | |

526710

County

Dakota

Quad

St Paul SW

Quad ID

103C

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date

09/22/2008

Update Date

09/05/2020

Received Date

| | | | | | | | | | | | | | | | | |
|--|--|------|----------|-------|----------|------|---|----|-------|------|------------|----|----|-------|--|--|
| <div>Well Name</div> PZ-2 RN <div>Township</div> 27 <div>Range</div> 23 <div>Dir Section</div> W 18 <div>Subsection</div> CDACBC | <div>Well Depth</div> 40 ft. <div>Depth Completed</div> 40 ft. <div>Date Well Completed</div> 02/02/1993 | | | | | | | | | | | | | | | |
| <div>Elevation</div> 726.35 <div>Elev. Method</div> Surveyed | <div>Drill Method</div> Driven <div>Drill Fluid</div> | | | | | | | | | | | | | | | |
| <div>Address</div> <div>Well3800 NICOLS RD MN</div> | <div>Use</div> piezometer <div>Status</div> Sealed | | | | | | | | | | | | | | | |
| <div>Stratigraphy Information</div> <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>PEAT</td><td>0</td><td>30</td><td>BLACK</td><td>SOFT</td></tr><tr><td>SAND LOOSE</td><td>30</td><td>40</td><td>BROWN</td><td></td></tr></table> | Geological Material | From | To (ft.) | Color | Hardness | PEAT | 0 | 30 | BLACK | SOFT | SAND LOOSE | 30 | 40 | BROWN | | <div>Well Hydrofractured?</div> <div>Yes</div> <input type="checkbox"/> <div>No</div> <input type="checkbox"/> <div>From</div> <div>To</div> |
| | Geological Material | From | To (ft.) | Color | Hardness | | | | | | | | | | | |
| | PEAT | 0 | 30 | BLACK | SOFT | | | | | | | | | | | |
| | SAND LOOSE | 30 | 40 | BROWN | | | | | | | | | | | | |
| | <div>Casing Type</div> Single casing <div>Joint</div> | | | | | | | | | | | | | | | |
| | <div>Drive Shoe?</div> <div>Yes</div> <input checked="" type="checkbox"/> <div>No</div> <input type="checkbox"/> <div>Above/Below</div> 1.98 ft. | | | | | | | | | | | | | | | |
| | <div>Casing Diameter</div> 1.2 in. <div>Weight</div> 38 ft. lbs./ft. | | | | | | | | | | | | | | | |
| | <div>Open Hole</div> <div>From</div> <div>ft.</div> <div>To</div> <div>ft.</div> | | | | | | | | | | | | | | | |
| | <div>Screen?</div> <input checked="" type="checkbox"/> <div>Type</div> stainless <div>Make</div> TEEL <div>Diameter</div> 1.2 in. <div>Slot/Gauze</div> 60 <div>Length</div> 2 ft. <div>Set</div> 38 ft. <div>40</div> ft. | | | | | | | | | | | | | | | |
| | <div>Static Water Level</div> <div>2.1</div> ft. <div>land surface</div> <div>Measure</div> 02/05/1993 | | | | | | | | | | | | | | | |
| <div>Pumping Level (below land surface)</div> | | | | | | | | | | | | | | | | |
| <div>Wellhead Completion</div> <div>Pitless adapter manufacturer</div> <div>Model</div> <div><input checked="" type="checkbox"/> Casing Protection</div> <div><input type="checkbox"/> 12 in. above grade</div> <div><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)</div> | | | | | | | | | | | | | | | | |
| <div>Grouting Information</div> <div>Well Grouted?</div> <input type="checkbox"/> Yes <div><input checked="" type="checkbox"/> No</div> <input type="checkbox"/> Not Specified | | | | | | | | | | | | | | | | |
| <div>Nearest Known Source of Contamination</div> <div>feet</div> <div>Direction</div> <div>Well disinfected upon completion?</div> <input type="checkbox"/> Yes <div><input checked="" type="checkbox"/> No</div> <div>Type</div> | | | | | | | | | | | | | | | | |
| <div>Pump</div> <input checked="" type="checkbox"/> Not Installed <div>Date Installed</div> <div>Manufacturer's name</div> <div>Model Number</div> <div>HP</div> <div>Volt</div> <div>Length of drop pipe</div> ft <div>Capacity</div> g.p. <div>Typ</div> | | | | | | | | | | | | | | | | |
| <div>Abandoned</div> <div>Does property have any not in use and not sealed well(s)?</div> <input type="checkbox"/> Yes <div><input checked="" type="checkbox"/> No</div> | | | | | | | | | | | | | | | | |
| <div>Variance</div> <div>Was a variance granted from the MDH for this well?</div> <input type="checkbox"/> Yes <div><input type="checkbox"/> No</div> | | | | | | | | | | | | | | | | |
| <div>Miscellaneous</div> <div>First Bedrock</div> <div>Last Strat</div> sand-brown <div>Aquifer</div> <div>Quat. Water</div> <div>Depth to Bedrock</div> ft <div>Located by</div> Minnesota Geological Survey <div>Locate Method</div> Digitization (Screen) - Map (1:24,000) (15 meters or | | | | | | | | | | | | | | | | |

System

X

Y

Unique Number Verification

Information from

Input Date

Minnesota Unique Well Number

526711

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 09/22/2008
Update Date 09/05/2020
Received Date

| | | | | | | | | |
|----------------------------|----------|--------------|----------|---------|------------|---|---|--|
| Well Name | Township | Range | Dir | Section | Subsection | Well Depth | Depth Completed | Date Well Completed |
| PZ-2 RS | 27 | 23 | W | 18 | CDACBC | 7 ft. | 7 ft. | 02/02/1993 |
| Elevation | 726.35 | Elev. Method | Surveyed | | | | | |
| Address | | | | | | Use | piezometer | Status |
| Well | | | | | | Sealed | | |
| 3800 NICOLS RD MN | | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> No <input type="checkbox"/> | From To |
| Stratigraphy Information | | | | | | Casing Type | Single casing | Joint |
| Geological Material | | | | | | Drive Shoe? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Above/Below 2.08 ft. |
| PEAT | | | | | | Casing Diameter | Weight | |
| | | | | | | 1.2 in. To | 3.2 ft. | lbs./ft. |
| | | | | | | Open Hole | From ft. | To ft. |
| | | | | | | Screen? | <input checked="" type="checkbox"/> | Type stainless |
| | | | | | | Diameter | Slot/Gauze | Length Set |
| | | | | | | 1.2 in. | 60 | 3 ft. 3.2 ft. 6.2 ft. |
| | | | | | | Static Water Level | | |
| | | | | | | 1.9 ft. | land surface | Measure 02/05/1993 |
| | | | | | | Pumping Level (below land surface) | | |
| | | | | | | Wellhead Completion | | |
| | | | | | | Pitless adapter manufacturer | Model | |
| | | | | | | <input checked="" type="checkbox"/> Casing Protection | <input type="checkbox"/> 12 in. above grade | |
| | | | | | | <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | |
| | | | | | | Grouting Information | Well Grouted? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Specified |
| | | | | | | Nearest Known Source of Contamination | | |
| | | | | | | feet | Direction | Type |
| | | | | | | Well disinfected upon completion? | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| | | | | | | Pump | <input checked="" type="checkbox"/> Not Installed | Date Installed |
| | | | | | | Manufacturer's name | | |
| | | | | | | Model Number | HP | Volt |
| | | | | | | Length of drop pipe | ft | Capacity g.p. Typ |
| | | | | | | Abandoned | | |
| | | | | | | Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| | | | | | | Variance | | |
| | | | | | | Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| | | | | | | Miscellaneous | | |
| | | | | | | First Bedrock | Aquifer | Quat. Water |
| | | | | | | Last Strat | peat-black | 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 482608 Y 4963150 |
| | | | | | | Unique Number Verification | Information from | Input Date 07/22/2019 |
| | | | | | | Angled Drill Hole | | |
| | | | | | | Well Contractor | | |
| | | | | | | Twin City Testing | M0122 | BRABENDER, L. |
| | | | | | | Licensee Business | Lic. or Reg. No. | Name of Driller |
| Remarks | | | | | | | | |
| SEALED 03-31-1997 BY M0143 | | | | | | | | |

Minnesota Well Index Report

526711

Printed on 10/25/2022
HE-01205-15

Minnesota Unique Well Number

526712

County Dakota
Quad St Paul SW
Quad ID 103C

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

Entry Date 09/22/2008
Update Date 09/05/2020
Received Date

| | | | | | | | | |
|----------------------------|----------|--------------|----------|---------|------------|--|---|--|
| Well Name | Township | Range | Dir | Section | Subsection | Well Depth | Depth Completed | Date Well Completed |
| PZ-4 LN | 27 | 23 | W | 18 | CDBDBB | 33 ft. | 33 ft. | 02/04/1993 |
| Elevation | 723.99 | Elev. Method | Surveyed | | | | | |
| Address | | | | | | Use | piezometer | Status |
| Well | | | | | | Sealed | | |
| 3800 NICOLS RD MN | | | | | | Well Hydrofractured? | Yes <input type="checkbox"/> No <input type="checkbox"/> | From To |
| Stratigraphy Information | | | | | | Casing Type | Single casing | Joint |
| Geological Material | | | | | | Drive Shoe? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Above/Below 2.08 ft. |
| PEAT | | | | | | Casing Diameter | Weight | |
| SAND LOOSE | | | | | | 1.2 in. To 31 ft. | lbs./ft. | |
| | | | | | | Open Hole | From ft. To ft. | |
| | | | | | | Screen? | <input checked="" type="checkbox"/> Slot/Gauze | Type stainless |
| | | | | | | Diameter | Length | Make TEEL |
| | | | | | | 1.2 in. | 60 | 2 ft. 31 ft. 33 ft. |
| | | | | | | Static Water Level | | |
| | | | | | | 32.4 ft. | land surface | Measure 02/05/1993 |
| | | | | | | Pumping Level (below land surface) | | |
| | | | | | | Wellhead Completion | | |
| | | | | | | Pitless adapter manufacturer | Model | |
| | | | | | | <input checked="" type="checkbox"/> Casing Protection | <input type="checkbox"/> 12 in. above grade | |
| | | | | | | <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY) | | |
| | | | | | | Grouting Information | Well Grouted? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Specified |
| | | | | | | Nearest Known Source of Contamination | | |
| | | | | | | feet | Direction | Type |
| | | | | | | Well disinfected upon completion? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| | | | | | | Pump | <input checked="" type="checkbox"/> Not Installed | Date Installed |
| | | | | | | Manufacturer's name | | |
| | | | | | | Model Number | HP | Volt |
| | | | | | | Length of drop pipe | ft Capacity | g.p. Typ |
| | | | | | | Abandoned | | |
| | | | | | | Does property have any not in use and not sealed well(s)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| | | | | | | Variance | | |
| | | | | | | Was a variance granted from the MDH for this well? | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| | | | | | | Miscellaneous | | |
| | | | | | | First Bedrock | Aquifer | Quat. Water |
| | | | | | | Last Strat | sand-brown | 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 482522 Y 4963180 |
| | | | | | | Unique Number Verification | Information from | Input Date 07/22/2019 |
| | | | | | | Angled Drill Hole | | |
| | | | | | | Well Contractor | | |
| | | | | | | Twin City Testing | M0122 | BRABENDER, L. |
| | | | | | | Licensee Business | Lic. or Reg. No. | Name of Driller |
| Remarks | | | | | | | | |
| SEALED 03-31-1997 BY M0143 | | | | | | | | |

Minnesota Well Index Report

526712

Printed on 10/25/2022
HE-01205-15

| | | | | | | | |
|--|--|----------------------------|--|--|--|--------------------------------|--|
| Minnesota Unique Well Number | | County Dakota | | MINNESOTA DEPARTMENT OF HEALTH | | Entry Date 09/22/2008 | |
| 526713 | | Quad St Paul SW | | WELL AND BORING REPORT | | Update Date 09/05/2020 | |
| | | Quad ID 103C | | Minnesota Statutes Chapter 1031 | | Received Date | |
| Well Name PZ-4 LS | | | | Township 27 | | Range 23 | |
| Dir Section W 18 | | | | Subsection CDBDBB | | Well Depth 7 ft. | |
| Elevation 723.99 | | | | Elev. Method Surveyed | | Depth Completed 7 ft. | |
| Address | | | | Use piezometer | | Date Well Completed 02/04/1993 | |
| Well 3800 NICOLS RD MN | | | | Well Hydrofractured? | | Status Sealed | |
| | | | | Yes No | | From To | |
| Stratigraphy Information | | | | Casing Type Single casing | | Joint | |
| Geological Material From To (ft.) Color Hardness | | | | Drive Shoe? Yes No | | Above/Below 2.11 ft. | |
| PEAT 0 7 BLACK SOFT | | | | Casing Diameter Weight | | | |
| | | | | 1.2 in. To 3.2 ft. lbs./ft. | | | |
| | | | | Open Hole | | From ft. To ft. | |
| | | | | Screen? Slot/Gauze | | Type stainless Make TEEL | |
| | | | | Diameter Length Set | | | |
| | | | | 1.2 in. 60 3 ft. 3.2 ft. 6.2 ft. | | | |
| | | | | Static Water Level | | | |
| | | | | 1.7 ft. land surface Measure | | 02/05/1993 | |
| | | | | Pumping Level (below land surface) | | | |
| | | | | Wellhead Completion | | | |
| | | | | Pitless adapter manufacturer Model | | | |
| | | | | Casing Protection 12 in. above grade | | | |
| | | | | At-grade (Environmental Wells and Borings ONLY) | | | |
| | | | | Grouting Information Well Grouted? | | Yes No Not Specified | |
| | | | | Nearest Known Source of Contamination | | | |
| | | | | feet Direction | | Type | |
| | | | | Well disinfected upon completion? | | Yes No | |
| | | | | Pump Not Installed | | Date Installed | |
| | | | | Manufacturer's name | | | |
| | | | | Model Number HP Volt | | | |
| | | | | Length of drop pipe ft Capacity g.p. Typ | | | |
| | | | | 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 | | Aquifer Quat. Water | |
| | | | | Last Strat peat-black | | 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 482522 Y 4963180 | | | |
| | | | | Unique Number Verification Information from Input Date 07/22/2019 | | | |
| | | | | Angled Drill Hole | | | |
| | | | | Well Contractor | | | |
| | | | | Twin City Testing M0122 | | BRABENDER, L. | |
| | | | | Licensee Business Lic. or Reg. No. | | Name of Driller | |
| Remarks | | SEALED 03-31-1997 BY M0143 | | 526713 | | Printed on 10/25/2022 | |
| Minnesota Well Index Report | | | | | | HE-01205-15 | |

