



Physical Development Division

Dakota County
Western Service Center
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Apple Valley, MN 55124-8579
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Environmental Mgmt. Department
Farmland & Natural Areas Program
Office of GIS
Parks Department
Office of Planning
Surveyor's Office
Transit Office
Transportation Department
Water Resources Office

TO: Installers of Drive-Point Wells
FROM: Jeff Luehrs, Water Resources Department 
SUBJECT: Requirements for installation of Drive-point Wells

Minnesota Statutes, Chapter 103I, does allow individuals to construct wells on land that they own or lease and use for farming or as their place of abode. All well installation must be done in accordance with Minnesota Statutes, Chapter 103I, Minnesota Rules, Chapter 4725, and in Dakota County, Dakota County Ordinance 114.

The Minnesota Department of Health has delegated the authority to regulate well construction and sealing in Dakota County to the Dakota County Water Resources Department (Department). The Department requires permits for all well construction and sealing activities.

Enclosed is a well construction permit application, which must be approved prior to well construction activities beginning on site. The permit fee for small well construction (drive-points) for 2009 is \$238.00. Wells constructed without a permit may be subject to a triple permit fee. Please complete the enclosed permit application and return it to the Department with the permit application fee. You must have an approved permit and follow all procedures on that permit prior to beginning well construction activities.

Please note that only licensed well contractors may seal wells, including unsuccessful attempts at Drive-Point Well construction. Only licensed well contractors may remove casing or seal wells

Also, enclosed is information from the Minnesota Department of Health about Drive-Point Well construction. This information includes requirements for construction and a list of isolation distances. You are not required to notify the Minnesota Department of Health, the permit required by the County replaces this requirement. The Department will also send you a Well and Boring Record along with water sample bottles. Please the Well and Boring Record and the water sample to the Department, following the instructions included with the bottles.

If you have any questions please call the Dakota County Water Resources Office at 952-891-7557.

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DAKOTA COUNTY WATER RESOURCES OFFICE
 14955 Galaxie Avenue, Apple Valley, MN 55124 (952) 891-7000 Fax (952) 891-7588
APPLICATION FOR WATER SUPPLY WELL CONSTRUCTION PERMIT

Unique Well No. _____

Use: Domestic Non Community Heating/Cooling Industrial/Commercial

Please print or type. Include appropriate fee. Make checks payable to Dakota County Treasurer.
Please provide all information; incomplete applications may be returned.

FOR COUNTY USE ONLY

APPLICANT _____
 License No. _____ Fax _____ Phone _____

Permit No. _____
 Reviewer _____
 Fee Received _____
 Date Received _____

WELL SITE ADDRESS _____
 Township/Municipality _____
 Property Identification Number (PIN) _____
 (PIN Numbers are available from Dakota County Tax Info 651-438-4576.)

PLS _____ ¼ _____ ¼ _____ ¼ (smallest to largest) of Section _____ T _____ N. R _____ W.

Approval date _____
 Comments: _____

PROPERTY OWNER _____ Phone _____
 Street address _____
 City _____ State _____ Zip _____

WELL OWNER (if different) _____ Phone _____
 Street address _____
 City _____ State _____ Zip _____

Inspection _____
 Violation _____
 Aquifer _____
 Review Completed _____

Number of other wells on the property _____
 _____ IN USE _____ SEALED _____ NOT IN USE and NOT SEALED

Anticipated Geologic Formations
 _____ to _____ ft
 _____ to _____ ft
 _____ to _____ ft
 _____ to _____ ft
 Static Water Level _____ ft

PROPOSED CONSTRUCTION DETAILS
Hole Diameter _____ in. to _____ ft
Casing Type/Diameter/Length _____ in. to _____ ft
 _____ in. to _____ ft
 _____ in. to _____ ft
 Screen Open hole from _____ to _____
 Joints: Threaded & Coupled Welded Other _____

Capacity of pump (gpm): _____
Grout Type and Interval
 _____ from _____ to _____ ft
 _____ from _____ to _____ ft
 _____ from _____ to _____ ft

Source of geologic formation information: _____

- Yes No Will this well connect to 15 or more service connections or 15 or more living units?
- Yes No Will this well service 25 or more persons daily?
- Yes No Will this well pump more than 10,000 gallons per day or more than 1,000,000 gallons per year?
- Yes No Is a variance required? (All variance requests must first be approved by the Minnesota Department of Health)

Submit a Written Agreement if Property Owner is different from Well Owner (required by MN Stat. 1031.205 sub 8).

Charge Applicant's credit card ending in _____ for the amount of \$ _____, Signature _____

DECLARATION

I declare that the above information is correct and that all materials, design, equipment, construction methods, workmanship, well records and notifications will be in accordance with Dakota County Ordinance No. 114, "Well and Water Supply Management". The permit applicant and property owner agree to defend and save Dakota County harmless from any claims, demands, actions, or causes of action arising out of any acts or omission on the part of the permit applicant, or his agents, servants or employees in the performance of or with relation to any of the work or services provided or to be performed or furnished by the permit applicant under the terms of this application.

Property Owner, Property Owner's Agent or Licensed Well Contractor
 (Signature) _____ (Print) _____ Date _____

Notify Dakota County Water Resources Office at 952-891-7000 24 hours prior to beginning well construction activities.

Requirements for Construction of a Drive-Point Well

- Well must have at least 15 feet of watertight casing (not including screen).
- Well casing (pipe) must be new steel casing meeting one of the following standards: ASTM A53, ASTM A589, or API 5L.
- When driving casing, a cone-shaped depression must be maintained around the outside of the casing and kept filled with bentonite clay.
- If augering, jetting, or other drilling techniques are used which create a hole which is larger than the well casing, the space between the well casing and bore hole wall must be filled from the bottom up to the surface with a cement or bentonite grout pumped through a tremie pipe. Please contact the Minnesota Department of Health (MDH) for additional details on grouting requirements before you begin well construction.
- Top of the well casing must extend at least 12 inches above-ground.
- Connections made to the well casing below the ground surface or less than 12 inches above the ground surface must be made with a pitless adapter or pitless unit approved by this department.
- If the water line between the well and pump is below-ground and under suction, it must be protected by being installed within an outer, concentric pipe with the annular space between the pipes filled with water from the system and maintained at system pressure.
- If your attempt to construct a well is unsuccessful, the unsuccessful well must be sealed by a licensed well contractor. Unlicensed persons are not authorized to seal wells or remove well casing from the ground.
- A well must not be located in a pit.
- Well must not be located within a building, except for a building constructed exclusively to protect the well, pump, and other water supply equipment. A well building may not be used to store materials or chemicals which may contaminate the well.
- Well must be located at least 3 feet horizontally from the farthest exterior projection of a building, including roofs, decks, and overhangs.
- Well must be at least 10 feet from a gas line, electric line, or propane tank, or at least 5 feet from a gas line which contains no flammable gas or an electric line which has been shielded or deenergized.
- Well must be located at least 35 feet horizontally from the ordinary high-water mark of a river stream, lake, or pond.
- Well casing must extend at least 5 feet above the regional flood level.
- Well must be disinfected using chlorine, and water quality samples must be collected and analyzed for coliform bacteria, arsenic, and nitrate.



ISOLATION DISTANCES FROM A SHALLOW DRIVE-POINT WELL

This list is summarized from Minnesota Rules, Chapter 4725, and Minnesota Statutes, Chapter 103I. Please contact the Minnesota Department of Health, Well Management Section at 651/201-4600 or 800/383-9808 with any questions.

Building or building projection (overhang).....	3 feet
Gas pipe, electric transmission line less than 50 kv.....	5 feet ¹
Lp tank.....	5 feet ¹
Frost proof yard hydrant.....	10 feet
Approved pressure-tested buried sewer.....	20 feet
Approved, air-tested buried pressure sewer serving a single family residence.....	20 feet
Pit or unfilled space.....	20 feet
Watertight sewage sump.....	20 feet
In-ground swimming pool.....	20 feet
Above ground petroleum storage tank less than 1,100 gallons.....	20 feet
Storm water drain pipe 8 inches or greater in diameter.....	20 feet
Agricultural chemical supply tank.....	20 feet ²
Animal confinement area (0.1 to 1.0 animal unit or 100-1,000 pounds).....	25 feet
Ordinary high water level of a stream, river, pond or lake.....	35 feet
Agricultural chemical storage or preparation area with safeguards covered with a roof, more than 25 gallons or 100 pounds dry weight.....	50 feet
Grave.....	50 feet
Interceptor (waste).....	50 feet
Septic tank, holding tank.....	50 feet
Sewage lift station, nonwatertight sewage sump.....	50 feet
Underground petroleum storage tank of less than 1,100 gallons.....	50 feet
Unused, unsealed well or boring.....	50 feet
Pollutant, contaminant or hazardous substance.....	50 feet
Buried collector, municipal, pressurized, open jointed, or unapproved materials sewer.....	50 feet
Agricultural chemical storage or preparation area with safeguards, more than 25 gallons or 100 pounds dry weight.....	100 feet
Animal feedlot (more than 1 and less than 300 animal units).....	100 feet
Animal feeding or watering area within a pasture.....	100 feet
Animal or poultry building.....	100 feet
Petroleum or hazardous substance storage tank with safeguards, more than 25 gallons or 100 pounds dry weight.....	100 feet
Subsurface disposal field (drainfield).....	100 feet
Privy.....	100 feet
Agricultural chemical, petroleum, or hazardous substance storage or preparation area, more than 25 gallons or 100 pounds dry weight.....	150 feet
Cesspool, seepage pit, leaching pit, dry well (sewage).....	150 feet
Animal feedlot (more than 300 animal units).....	200 feet
Manure storage area.....	200 feet
Sanitary landfill, dump, waste stabilization pond.....	600 feet

¹ A well between 5 and 10 feet of an electric transmission line, gas pipe or LP tank must be placarded and work must not be performed on the well unless the line is deenergized and grounded or shielded, and the gas pipe or LP tank does not contain flammable gas.

² The 20 foot distance applies only to an irrigation well and an agricultural chemical supply tank (chemigation) protected with safeguards.