



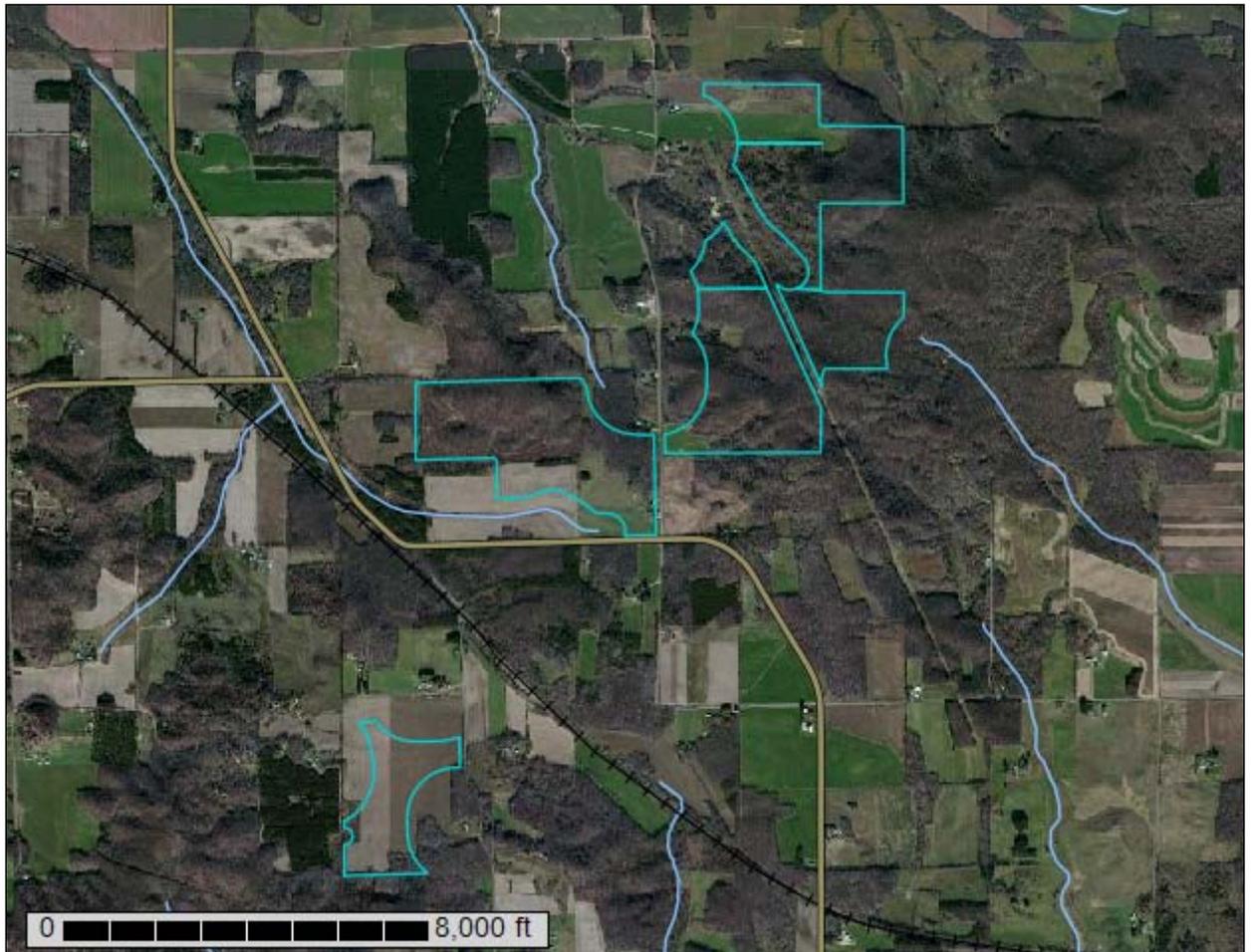
United States
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Agriculture

NRCS

Natural
Resources
Conservation
Service

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Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Chippewa County, Wisconsin**



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

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individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chippewa County, Wisconsin
 Survey Area Data: Version 10, Sep 9, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 1, 2010—Sep 10, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Chippewa County, Wisconsin (WI017)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AoA	Arenzville silt loam, 0 to 3 percent slopes	2.9	0.6%
BIA	Billett sandy loam, 0 to 2 percent slopes	16.0	3.4%
BIB	Billett sandy loam, 2 to 6 percent slopes	22.7	4.9%
BoE	Boone fine sand, 20 to 45 percent slopes	117.1	25.1%
CkD2	Chetek-Mahtomedi complex, 12 to 25 percent slopes, eroded	2.1	0.5%
EIB	Eleva sandy loam, 2 to 6 percent slopes	16.2	3.5%
EIC2	Eleva sandy loam, 6 to 12 percent slopes, eroded	22.8	4.9%
EmC2	Elk mound loam, 6 to 12 percent slopes, eroded	40.2	8.6%
EmD2	Elk mound loam, 12 to 20 percent slopes, eroded	7.8	1.7%
EmE	Elk mound loam, 20 to 45 percent slopes	0.5	0.1%
HeB	Hiles silt loam, 2 to 6 percent slopes	3.8	0.8%
HuB	Humbird sandy loam, 2 to 6 percent slopes	3.0	0.7%
KeB	Kert silt loam, 1 to 6 percent slopes	19.1	4.1%
MkB	Menahga loamy sand, 0 to 6 percent slopes	37.2	8.0%
MkC	Menahga loamy sand, 6 to 12 percent slopes	12.0	2.6%
PdB	Plainbo loamy sand, 2 to 6 percent slopes	23.3	5.0%
PdC	Plainbo loamy sand, 6 to 12 percent slopes	16.7	3.6%
PdD	Plainbo loamy sand, 12 to 20 percent slopes	98.7	21.2%
So	Shiffer loam, 0 to 2 percent slopes	3.3	0.7%
Ve	Vesper silt loam, 0 to 2 percent slopes	0.4	0.1%
Totals for Area of Interest		465.6	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly

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indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Chippewa County, Wisconsin

AoA—Arenzville silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: g418

Elevation: 800 to 1,950 feet

Mean annual precipitation: 28 to 33 inches

Mean annual air temperature: 39 to 45 degrees F

Frost-free period: 120 to 135 days

Farmland classification: Prime farmland if protected from flooding or not frequently flooded during the growing season

Map Unit Composition

Arenzville and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Arenzville

Setting

Landform: Flood plains

Landform position (two-dimensional): Toeslope

Down-slope shape: Linear

Across-slope shape: Concave

Parent material: Silty alluvium

Typical profile

Ap - 0 to 8 inches: silt loam

C,Ab - 8 to 50 inches: silt loam

C' - 50 to 60 inches: silt loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Moderately well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)

Depth to water table: About 42 to 60 inches

Frequency of flooding: Occasional

Frequency of ponding: None

Available water storage in profile: Very high (about 12.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B

Other vegetative classification: High AWC, adequately drained (G105XY008WI)

BIA—Billett sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: g4lm
Elevation: 400 to 1,500 feet
Mean annual precipitation: 25 to 40 inches
Mean annual air temperature: 39 to 57 degrees F
Frost-free period: 130 to 190 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Billett and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Billett

Setting

Landform: Outwash plains
Landform position (two-dimensional): Summit
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy drift over sandy outwash

Typical profile

Ap - 0 to 9 inches: sandy loam
E, BE, Bt - 9 to 30 inches: sandy loam
BC - 30 to 36 inches: loamy sand
C1, C2 - 36 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 20 percent
Available water storage in profile: Moderate (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: A
Other vegetative classification: Mod AWC, adequately drained (G090BY005WI)

BIB—Billett sandy loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: g4ln
Elevation: 400 to 1,500 feet
Mean annual precipitation: 25 to 40 inches
Mean annual air temperature: 39 to 57 degrees F
Frost-free period: 130 to 190 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Billett and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Billett

Setting

Landform: Outwash plains
Landform position (two-dimensional): Summit
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy drift over sandy outwash

Typical profile

Ap - 0 to 9 inches: sandy loam
E, BE, Bt - 9 to 30 inches: sandy loam
BC - 30 to 36 inches: loamy sand
C1, C2 - 36 to 60 inches: loamy sand

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 20 percent
Available water storage in profile: Moderate (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: A
Other vegetative classification: Mod AWC, adequately drained (G105XY005WI)

BoE—Boone fine sand, 20 to 45 percent slopes

Map Unit Setting

National map unit symbol: g4lr
Elevation: 700 to 1,400 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 135 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Boone and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Boone

Setting

Landform: Hills
Landform position (two-dimensional): Backslope, shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Sandy residuum over sandstone

Typical profile

A - 0 to 2 inches: fine sand
C1,C2,C3 - 2 to 22 inches: fine sand
Cr - 22 to 60 inches: bedrock

Properties and qualities

Slope: 20 to 45 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Natural drainage class: Excessively drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.14 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 1.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Other vegetative classification: Low AWC, adequately drained with limitations
(G105XY003WI)

CKD2—Chetek-Mahtomedi complex, 12 to 25 percent slopes, eroded

Map Unit Setting

National map unit symbol: g4m3
Elevation: 670 to 1,950 feet
Mean annual precipitation: 22 to 33 inches
Mean annual air temperature: 36 to 45 degrees F
Frost-free period: 88 to 142 days
Farmland classification: Not prime farmland

Map Unit Composition

Chetek and similar soils: 55 percent
Mahtomedi and similar soils: 45 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chetek

Setting

Landform: End moraines, outwash plains
Landform position (two-dimensional): Backslope, shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Thin loamy drift over stratified sandy and gravelly outwash

Typical profile

Ap - 0 to 8 inches: sandy loam
E - 8 to 13 inches: sandy loam
Bt1 - 13 to 17 inches: gravelly loamy sand
2Bt2,2C - 17 to 60 inches: stratified coarse sand to sand

Properties and qualities

Slope: 12 to 25 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Other vegetative classification: Low AWC, adequately drained with limitations
(G105XY003WI)

Description of Mahtomedi

Setting

Landform: End moraines, outwash plains
Landform position (two-dimensional): Backslope, shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Sandy and gravelly outwash

Typical profile

Ap - 0 to 8 inches: loamy sand
Bw1 - 8 to 18 inches: sand
Bw2 - 18 to 24 inches: gravelly sand
C - 24 to 60 inches: sand

Properties and qualities

Slope: 12 to 25 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Excessively drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Other vegetative classification: Low AWC, adequately drained with limitations (G105XY003WI)

EIB—Eleva sandy loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: g4m7
Elevation: 680 to 1,360 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 140 to 190 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Eleva and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eleva

Setting

Landform: Hills

Landform position (two-dimensional): Summit, footslope

Down-slope shape: Convex, linear

Across-slope shape: Convex, concave

Parent material: Loamy drift over sandstone and/or sandy residuum

Typical profile

Ap - 0 to 9 inches: sandy loam

BA,Bt1,Bt2 - 9 to 36 inches: sandy loam

C - 36 to 40 inches: sand

Cr - 40 to 60 inches: bedrock

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.14 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: A

Other vegetative classification: Mod AWC, adequately drained (G105XY005WI)

EIC2—Eleva sandy loam, 6 to 12 percent slopes, eroded

Map Unit Setting

National map unit symbol: g4m8

Elevation: 680 to 1,360 feet

Mean annual precipitation: 28 to 35 inches

Mean annual air temperature: 45 to 54 degrees F

Frost-free period: 140 to 190 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Eleva and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eleva

Setting

Landform: Hills

Landform position (two-dimensional): Backslope, shoulder

Custom Soil Resource Report

Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy drift over sandstone and/or sandy residuum

Typical profile

Ap - 0 to 9 inches: sandy loam
BA,Bt1,Bt2 - 9 to 36 inches: sandy loam
C - 36 to 40 inches: sand
Cr - 40 to 60 inches: bedrock

Properties and qualities

Slope: 6 to 12 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.14 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: A
Other vegetative classification: Mod AWC, adequately drained (G105XY005WI)

EmC2—Elkmound loam, 6 to 12 percent slopes, eroded

Map Unit Setting

National map unit symbol: g4mc
Elevation: 680 to 1,360 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 140 to 190 days
Farmland classification: Not prime farmland

Map Unit Composition

Elkmound and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Elkmound

Setting

Landform: Hills
Landform position (two-dimensional): Backslope, shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Thin loamy drift over sandstone

Typical profile

Ap - 0 to 7 inches: loam

Custom Soil Resource Report

BE,Bw1 - 7 to 16 inches: sandy loam
Bw2 - 16 to 19 inches: loamy sand
R - 19 to 23 inches: bedrock

Properties and qualities

Slope: 6 to 12 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Natural drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.14 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Other vegetative classification: Low AWC, adequately drained (G105XY002WI)

EmD2—Elkmound loam, 12 to 20 percent slopes, eroded

Map Unit Setting

National map unit symbol: g4md
Elevation: 680 to 1,360 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 140 to 190 days
Farmland classification: Not prime farmland

Map Unit Composition

Elkmound and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Elkmound

Setting

Landform: Hills
Landform position (two-dimensional): Backslope, shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Thin loamy drift over sandstone

Typical profile

Ap - 0 to 7 inches: loam
BE,Bw1 - 7 to 16 inches: sandy loam
Bw2 - 16 to 19 inches: loamy sand
R - 19 to 23 inches: bedrock

Properties and qualities

Slope: 12 to 20 percent

Custom Soil Resource Report

Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Natural drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.14 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: D
Other vegetative classification: Low AWC, adequately drained with limitations
(G105XY003WI)

EmE—Elkmound loam, 20 to 45 percent slopes

Map Unit Setting

National map unit symbol: g4mf
Elevation: 680 to 1,360 feet
Mean annual precipitation: 28 to 35 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 140 to 190 days
Farmland classification: Not prime farmland

Map Unit Composition

Elkmound and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Elkmound

Setting

Landform: Hills
Landform position (two-dimensional): Backslope, shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Thin loamy drift over sandstone

Typical profile

Ap - 0 to 7 inches: loam
BE,Bw1 - 7 to 16 inches: sandy loam
Bw2 - 16 to 19 inches: loamy sand
R - 19 to 23 inches: bedrock

Properties and qualities

Slope: 20 to 45 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Natural drainage class: Well drained
Runoff class: Very high

Custom Soil Resource Report

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.14 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Other vegetative classification: Low AWC, adequately drained with limitations
(G105XY003WI)

HeB—Hiles silt loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: g4mw

Elevation: 700 to 1,400 feet

Mean annual precipitation: 28 to 33 inches

Mean annual air temperature: 39 to 45 degrees F

Frost-free period: 120 to 135 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Hiles and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hiles

Setting

Landform: Hills

Landform position (two-dimensional): Summit

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Silty drift over weathered sandstone and/or interbedded shale

Typical profile

Ap - 0 to 8 inches: silt loam

E,B/E - 8 to 22 inches: silt loam

2Bt1 - 22 to 26 inches: silty clay loam

2Bt2 - 26 to 30 inches: loam

2Cr - 30 to 60 inches: bedrock

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Natural drainage class: Moderately well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.57 in/hr)

Depth to water table: About 18 to 30 inches

Custom Soil Resource Report

Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Other vegetative classification: Mod AWC, adequately drained (G105XY005WI)

HuB—Humbird sandy loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: g4n0
Elevation: 700 to 1,400 feet
Mean annual precipitation: 28 to 33 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 120 to 135 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Humbird and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Humbird

Setting

Landform: Hills
Landform position (two-dimensional): Summit
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy drift over weathered sandstone and/or interbedded shale

Typical profile

Ap - 0 to 8 inches: sandy loam
Bs - 8 to 16 inches: sandy loam
2E,2Bt1 - 16 to 25 inches: sandy loam
3Bt2 - 25 to 36 inches: silty clay
3Cr - 36 to 60 inches: weathered bedrock

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: 24 to 40 inches to paralithic bedrock
Natural drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Other vegetative classification: Mod AWC, adequately drained (G090BY005WI)

KeB—Kert silt loam, 1 to 6 percent slopes

Map Unit Setting

National map unit symbol: g4n2

Elevation: 700 to 1,400 feet

Mean annual precipitation: 28 to 33 inches

Mean annual air temperature: 39 to 45 degrees F

Frost-free period: 120 to 135 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Kert and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kert

Setting

Landform: Hills

Landform position (two-dimensional): Footslope

Down-slope shape: Linear

Across-slope shape: Concave

Parent material: Silty drift and/or loamy drift over silty residuum and/or sandy residuum and/or clayey residuum over weathered sandstone and/or interbedded shale

Typical profile

Ap - 0 to 8 inches: silt loam

E,E/B - 8 to 22 inches: silt loam

2Bt1 - 22 to 28 inches: silt loam

2Bt2 - 28 to 40 inches: silty clay loam

3Cr1,3Cr2 - 40 to 60 inches: weathered bedrock

Properties and qualities

Slope: 1 to 6 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Natural drainage class: Somewhat poorly drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.57 in/hr)

Depth to water table: About 12 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Moderate (about 7.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Custom Soil Resource Report

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B/D

Other vegetative classification: Mod AWC, high water table (G105XY004WI)

Minor Components

Vesper

Percent of map unit:

Landform: Depressions

MkB—Menahga loamy sand, 0 to 6 percent slopes

Map Unit Setting

National map unit symbol: g4nf

Elevation: 670 to 1,600 feet

Mean annual precipitation: 22 to 33 inches

Mean annual air temperature: 36 to 45 degrees F

Frost-free period: 88 to 150 days

Farmland classification: Not prime farmland

Map Unit Composition

Menahga and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Menahga

Setting

Landform: Outwash plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy outwash

Typical profile

Ap - 0 to 8 inches: loamy sand

Bw1 - 8 to 15 inches: coarse sand

Bw2 - 15 to 40 inches: coarse sand

C - 40 to 60 inches: coarse sand

Properties and qualities

Slope: 0 to 6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 4.0 inches)

Custom Soil Resource Report

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: A

Other vegetative classification: Low AWC, adequately drained (G105XY002WI)

Minor Components

Friendship

Percent of map unit: 3 percent

Landform: Stream terraces, outwash plains

Landform position (three-dimensional): Tread, rise

Down-slope shape: Linear

Across-slope shape: Linear

Other vegetative classification: Low AWC, adequately drained (G090BY002WI)

Plainbo

Percent of map unit: 2 percent

Landform: Stream terraces, outwash plains

Landform position (three-dimensional): Tread, rise

Down-slope shape: Linear

Across-slope shape: Linear

Other vegetative classification: Low AWC, adequately drained (G105XY002WI)

MkC—Menahga loamy sand, 6 to 12 percent slopes

Map Unit Setting

National map unit symbol: g4ng

Elevation: 670 to 1,600 feet

Mean annual precipitation: 22 to 33 inches

Mean annual air temperature: 36 to 45 degrees F

Frost-free period: 88 to 150 days

Farmland classification: Not prime farmland

Map Unit Composition

Menahga and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Menahga

Setting

Landform: Outwash plains

Landform position (two-dimensional): Backslope, shoulder

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Convex

Parent material: Sandy outwash

Custom Soil Resource Report

Typical profile

Ap - 0 to 8 inches: loamy sand
Bw1 - 8 to 15 inches: coarse sand
Bw2 - 15 to 40 inches: coarse sand
C - 40 to 60 inches: coarse sand

Properties and qualities

Slope: 6 to 12 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Other vegetative classification: Low AWC, adequately drained (G105XY002WI)

Minor Components

Plainbo

Percent of map unit: 5 percent
Landform: Outwash plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Other vegetative classification: Low AWC, adequately drained (G105XY002WI)

PdB—Plainbo loamy sand, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: g4ny
Elevation: 800 to 1,950 feet
Mean annual precipitation: 28 to 33 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 120 to 135 days
Farmland classification: Not prime farmland

Map Unit Composition

Plainbo and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Plainbo

Setting

Landform: Stream terraces, outwash plains
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Sandy drift over sandstone

Typical profile

Ap - 0 to 6 inches: loamy sand
Bw,BC - 6 to 20 inches: sand
C - 20 to 28 inches: sand
2Cr - 28 to 60 inches: bedrock

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Natural drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: A
Other vegetative classification: Low AWC, adequately drained (G105XY002WI)

PdC—Plainbo loamy sand, 6 to 12 percent slopes

Map Unit Setting

National map unit symbol: g4nz
Elevation: 800 to 1,950 feet
Mean annual precipitation: 28 to 33 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 120 to 135 days
Farmland classification: Not prime farmland

Map Unit Composition

Plainbo and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Plainbo

Setting

Landform: Hills

Custom Soil Resource Report

Landform position (two-dimensional): Foothslope
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Sandy drift over sandstone

Typical profile

Ap - 0 to 6 inches: loamy sand
Bw,BC - 6 to 20 inches: sand
C - 20 to 28 inches: sand
2Cr - 28 to 60 inches: bedrock

Properties and qualities

Slope: 6 to 12 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Natural drainage class: Excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Other vegetative classification: Low AWC, adequately drained (G105XY002WI)

PdD—Plainbo loamy sand, 12 to 20 percent slopes

Map Unit Setting

National map unit symbol: g4p0
Elevation: 800 to 1,950 feet
Mean annual precipitation: 28 to 33 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 120 to 135 days
Farmland classification: Not prime farmland

Map Unit Composition

Plainbo and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Plainbo

Setting

Landform: Hills
Landform position (two-dimensional): Shoulder, backslope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Sandy drift over sandstone

Custom Soil Resource Report

Typical profile

Ap - 0 to 6 inches: loamy sand
Bw,BC - 6 to 20 inches: sand
C - 20 to 28 inches: sand
2Cr - 28 to 60 inches: bedrock

Properties and qualities

Slope: 12 to 20 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Natural drainage class: Excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Other vegetative classification: Low AWC, adequately drained with limitations (G105XY003WI)

So—Shiffer loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: g4pt
Elevation: 680 to 1,360 feet
Mean annual precipitation: 29 to 35 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 140 to 160 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Shiffer and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Shiffer

Setting

Landform: Drainageways on valley floors, depressions on stream terraces
Landform position (two-dimensional): Toeslope
Down-slope shape: Linear, concave
Across-slope shape: Concave

Typical profile

Ap - 0 to 9 inches: loam
Bt1,Bt2 - 9 to 27 inches: loam
2BC - 27 to 31 inches: sandy loam
2C - 31 to 60 inches: sand

Custom Soil Resource Report

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Somewhat poorly drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)

Depth to water table: About 12 to 36 inches

Frequency of flooding: Rare

Frequency of ponding: None

Available water storage in profile: Moderate (about 7.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B/D

Other vegetative classification: Mod AWC, high water table (G090BY004WI)

Minor Components

Lows

Percent of map unit:

Landform: Depressions

Ve—Vesper silt loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: g4q1

Elevation: 700 to 1,950 feet

Mean annual precipitation: 28 to 33 inches

Mean annual air temperature: 37 to 45 degrees F

Frost-free period: 90 to 125 days

Farmland classification: Prime farmland if drained

Map Unit Composition

Vesper and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Vesper

Setting

Landform: Drainageways on hills

Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Thin silty drift over weathered sandstone and/or interbedded shale

Typical profile

Ap,E - 0 to 12 inches: silt loam

2Bg1,3Bg2 - 12 to 38 inches: stratified sand to clay

4Cg - 38 to 60 inches: stratified fine sand to clay

Custom Soil Resource Report

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Poorly drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: None

Frequency of ponding: Frequent

Available water storage in profile: Moderate (about 8.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: C/D

Other vegetative classification: Mod AWC, high water table (G105XY004WI)

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Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER HJ286

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Form 3300-77A
 (R 8/00)

Property Owner **MICHELS, BEVERLY M** Telephone **715-962-4462**
 Number
 Mailing Address **RT 3 BOX 186B**
 City **COLFAX** State **WI** Zip Code **54730**
 County of Well Location **Chippewa** County Well Permit No. **W W09113** Well Completion Date **11/19/1993**

I. Well Location
 Town City Village
 of **HOWARD**
 Fire # (if available)
 Grid or Street Address or Road Name and Number
CTY HWY N
 Subdivision Name Lot # Block #

Well Constructor (Business Name) **MICHAEL J WETTSTEIN** License # **206** Facility ID Number (Public Wells)
 Address **RT 2 BOX 130C** Public Well Plan Approval #
 W--
 City **EAU CLAIRE** State **WI** Zip Code **54703-9802** Date of Approval (mm/dd/yyyy)
 Hicap Permanent well # Common Well # Specific Capacity
 gpm/ft

Gov't Lot # or **SE** 1/4 of **NW** 1/4 of
 Section **29** T **29** N; R **10** E W
 Latitude Deg. Min. Longitude Deg. Min.
 2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**
 of previous unique well # constructed in Reason for replaced or Reconstructed Well?
NEED FOR WATER
 Drilled Driven Point Jetted Other:

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
 High capacity Well? Yes No
 Property? Yes No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
 Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No
 Distance in Feet from Well to Nearest:
 1. Landfill
14 2. Building Overhang
60 3. Septic Holding Tank
84 4. Sewage Absorption Unit
 5. Nonconforming Pit
 6. Buried Home Heating Oil Tank
 7. Buried Petroleum Tank
 8. Shoreline Swimming Pool
 9. Downspout/Yard Hydrant
 10. Privy
 11. Foundation Drain to Clearwater
 12. Foundation Drain to Sewer
 >**10** 13. Building Drain
 Cast Iron or Plastic Other
 >**50** 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
 15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
 16. Clearwater Sump

17. Wastewater Sump
 18. Paved Animal Barn Pen
 19. Animal Yard or Shelter
 20. Silo
 21. Barn Gutter
 22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
 23. Other Manure Storage
 24. Ditch
 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Lower Open Bedrock	
From (ft.)	To (ft.)	Upper Enlarged Drillhole	Lower Open Bedrock
6	0	180	
		<input type="checkbox"/> ---1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> ---2. Rotary - Air-----	<input type="checkbox"/>
		<input type="checkbox"/> ---3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> ---4. Drill-Through Casing Hammer	
		<input type="checkbox"/> ---5. Reverse Rotary	
		<input type="checkbox"/> ---6. Cable-tool Bit in. dia-----	<input type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)	
		Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		If no, why not?	

8. Geology	From (ft.)	To (ft.)
T-Y- BROWN SAND @ GRAVEL	0	58
T-C- BROWN CLAY	58	63
T-N- BROWN SANDROCK	63	80
G-N- LIGHT GRAY SANDROCK	80	140
T-N- LIGHT BROWN SANDROCK	140	180

6. Casing, Liner, Screen Material, Weight, Specification From (ft.) To (ft.)
6 NEW STEEL THREADED @ CUPPLED 20 LBS PER FT ASTM A53 B 1800 PSI SAWHILL PIPE 0 63
 Dia. (in.) Screen type, material & slot size
NONE

9. Static Water Level ft. above ground surface
110 ft. below ground surface
 11. Well is: Above Grade Below Grade
21 in.
 Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No
 10. Pump Test
 Pumping Level **110** ft. below surface
 Pumping at **15** GPM for **4** hours

7. Grout or Other Sealing Material. Method From (ft.) To (ft.) # Sacks Cement
 Method: **NONE** 0 0
 Kind of Sealing Material
NONE

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:
 13. Signature of the Well Constructor or Supervisory Driller Date signed
MW **12/05/1993**
 Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued Yes No

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 254

**Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER **HO835****

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Form 3300-77A
(R 8/00)

Property Owner **DACHEL, JOE**
Telephone **715-962-3230**
Number

Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

Mailing Address **RT 3**

I. Well Location
 Town City Village
Fire # (if available)

City **COLAX** State **WI** Zip Code **54730**

of **HOWARD**

County of Well Location **Chippewa** County Well Permit No. **W W09178** Well Completion Date **05/09/1994**

Grid or Street Address or Road Name and Number
SCENIC RD

Subdivision Name Lot # Block #

Well Constructor (Business Name) **MICHAEL J WETTSTEIN** License # **206** Facility ID Number (Public Wells)

Gov't Lot # or **SW** 1/4 of **NW** 1/4 of
Section **17** T **29** N; R **10** E W

Address **RT 2 BOX 130C** Public Well Plan Approval #
W--

Latitude Deg. Min. Longitude Deg. Min.

City **EAU CLAIRE** State **WI** Zip Code **54703-9802** Date of Approval (mm/dd/yyyy)

2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**

Hicap Permanent well # Common Well # Specific Capacity **9** gpm/ft

of previous unique well # constructed in
Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.) High capacity Well? Yes No Property? Yes No

PUMP STUCK IN WELL
 Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:

Well located in floodplain? Yes No Distance in Feet from Well to Nearest:

- 1. Landfill
- 30** 2. Building Overhang
- 60** 3. Septic Holding Tank **>13** 13. Building Drain Cast Iron or Plastic Other
- 75** 4. Sewage Absorption Unit
- 5. Nonconforming Pit
- 50** 14. Building Sewer Gravity Pressure Cast Iron or Plastic Other
- 6. Buried Home Heating Oil Tank
- 7. Buried Petroleum Tank
- 15. Collector or Street Sewer: Sanitary units in. diam. Storm =< 6 > 6
- 8. Shoreline Swimming Pool
- 16. Clearwater Sump

- 17. Wastewater Sump
- 18. Paved Animal Barn Pen
- 19. Animal Yard or Shelter
- 20. Silo
- 21. Barn Gutter
- 22. Manure Pipe Gravity Pressure Cast Iron or Plastic Other
- 23. Other Manure Storage
- 24. Ditch
- 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Lower Open Bedrock	
From (ft.)	To (ft.)	Upper Enlarged Drillhole	Lower Open Bedrock
10	0	42	<input type="checkbox"/>
6	42	90	<input type="checkbox"/>
		<input checked="" type="checkbox"/> ---1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> ---2. Rotary - Air-----	<input type="checkbox"/>
		<input checked="" type="checkbox"/> ---3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> ---4. Drill-Through Casing Hammer	<input type="checkbox"/>
		<input type="checkbox"/> ---5. Reverse Rotary	<input type="checkbox"/>
		<input type="checkbox"/> ---6. Cable-tool Bit in. dia-----	<input type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input checked="" type="checkbox"/> 8. Temp. Outer Casing 10 in. dia. depth (ft)	<input type="checkbox"/>
		Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		If no, why not?	

8. Geology	From (ft.)	To (ft.)
T-C- BROWN CLAY	0	7
T-N- LIGHT BROWN SANDROCK	7	65
G-N- LIGHT GRAY SANDROCK	65	90

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
6	NEW STEEL THREADED @ CUPPLED 20 LBS PER FT ASTMA53B 1800 PSI SAWHILL PIPE	0	42
Dia. (in.)	Screen type, material & slot size		

9. Static Water Level
ft. above ground surface
50 ft. below ground surface

11. Well is: Above Grade Below Grade
20 in.

10. Pump Test
Pumping Level **52** ft. below surface
Pumping at **18** GPM for **5** hours

Developed? Yes No
Disinfected? Yes No
Capped? Yes No

7. Grout or Other Sealing Material. Method	From (ft.)	To (ft.)	# Sacks Cement
Method: PRESSURE TREMIE LINE Kind of Sealing Material CLEAR CEMENT @ WATER	0	42	13

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain: **WELL STILL IN USE**

13. Signature of the Well Constructor or Supervisory Driller **MW** Date signed **05/25/1994**
Signature of Drill Rig Operator (Mandatory unless same as above) **MW** Date signed **05/25/1994**

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 268

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER IJ407

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Form 3300-77A
 (R 8/00)

Property Owner **CHRISTIANSON, JACK** Telephone **715-962-3801**
 Mailing Address **RT 3**
 City **COLFAX** State **WI** Zip Code **54730**
 County of Well Location **Chippewa** County Well Permit No. **W W12101** Well Completion Date **07/19/1995**

I. Well Location
 Town City Village
 of **HOWARD**
 Fire # (if available)
 Grid or Street Address or Road Name and Number
SCENIC RD
 Subdivision Name Lot # Block #

Well Constructor (Business Name) **OLSON KEN WELL DRLG @ PUM** License # **215** Facility ID Number (Public Wells)
 Address **3188 SUNDET RD** Public Well Plan Approval #
 City **EAU CLAIRE** State **WI** Zip Code **54703-0346** Date of Approval (mm/dd/yyyy)
 Hicap Permanent well # Common Well # Specific Capacity **1.7** gpm/ft

Gov't Lot # or **NE** 1/4 of **NE** 1/4 of
 Section **19** T **29** N; R **10** E W
 Latitude Deg. Min. Longitude Deg. Min.
 2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**
 of previous unique well # constructed in Reason for replaced or Reconstructed Well?
NEW HOME

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
 High capacity Well? Yes No
 Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
 Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No
 Distance in Feet from Well to Nearest:
 1. Landfill
20 2. Building Overhang
92 3. Septic Holding Tank
189 4. Sewage Absorption Unit
 5. Nonconforming Pit
 6. Buried Home Heating Oil Tank
 7. Buried Petroleum Tank
 8. Shoreline Swimming Pool
 9. Downspout/Yard Hydrant
 10. Privy
 11. Foundation Drain to Clearwater
 12. Foundation Drain to Sewer
70 13. Building Drain
 Cast Iron or Plastic Other
70 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
 15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
 16. Clearwater Sump

17. Wastewater Sump
 18. Paved Animal Barn Pen
 19. Animal Yard or Shelter
 20. Silo
 21. Barn Gutter
 22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
 23. Other Manure Storage
 24. Ditch
 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole		Lower Open Bedrock	
From (ft.)	To (ft.)	From (ft.)	To (ft.)	From (ft.)	To (ft.)
10	0	30			
6	30	110			
		<input type="checkbox"/> --1. Rotary - Mud Circulation----- <input type="checkbox"/> --2. Rotary - Air----- <input type="checkbox"/> --3. Rotary - Air and Foam----- <input type="checkbox"/> --4. Drill-Through Casing Hammer <input type="checkbox"/> --5. Reverse Rotary <input checked="" type="checkbox"/> --6. Cable-tool Bit 10 in. dia----- <input type="checkbox"/> 7. Dual Rotary <input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, why not?			

8. Geology	From (ft.)	To (ft.)
--I- TOPSOIL	0	1
--X- SAND @ CLAY	1	4
-QN- SOFT CAVING SANDSTONE YELLOW	4	18
Y-N- MEDIUM SANDSTONE YELLOW	18	54
-HN- FIRM YELLOW SANDSTONE	54	110

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
6	STEEL T@C NEW BLACK 19 45 LB PER FT 280 WALL ASTMA53 SAWHILL @ IPSCO STEEL	0	54
Dia. (in.)	Screen type, material & slot size		

9. Static Water Level
 ft. above ground surface
72 ft. below ground surface

10. Pump Test
 Pumping Level **81** ft. below surface
 Pumping at **15** GPM for **2** hours

11. Well is: Above Grade
12 in. Below Grade
 Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No

7. Grout or Other Sealing Material. Method:	From (ft.)	To (ft.)	# Sacks Cement
PRESSURE TREMIE Kind of Sealing Material			
CLAY SLURRY	0	3	
NEAT CEMENT	3	30	12

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **DB/** Date signed **08/03/1995**
 Signature of Drill Rig Operator (Mandatory unless same as above) **KDO** Date signed **08/03/1995**

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued Yes No

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 340

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER LF151

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Form 3300-77A
 (R 8/00)

Property Owner **ROTHBAUER, DAVE** Telephone **715-879-5081**
 Mailing Address **N7075 STATE HWY 40**
 City **ELK MOUND** State **WI** Zip Code **54739**
 County of Well Location **Chippewa** County Well Permit No. **W W13659** Well Completion Date **09/14/1996**

Please type or Print using a black Pen
 Please Use Decimals Instead of Fractions.

1. Well Location
 Town City Village
 of **HOWARD**
 Fire # (if available)

Grid or Street Address or Road Name and Number
20TH AVE
 Subdivision Name Lot # Block #

Well Constructor (Business Name) **MICHAEL J WETTSTEIN** License # **206** Facility ID Number (Public Wells)
 Address **RT 2 BOX 130C** Public Well Plan Approval #
 City **EAU CLAIRE** State **WI** Zip Code **54703-9802** Date of Approval (mm/dd/yyyy)
 Hicap Permanent well # Common Well # Specific Capacity **2.5** gpm/ft

Gov't Lot # or SW 1/4 of SW 1/4 of
 Section **17** T **29** N; R **10** E W
 Latitude Deg. Min. Longitude Deg. Min.
 2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
 High capacity Well? Yes No
 Property? Yes No

of previous unique well # constructed in Reason for replaced or Reconstructed Well?
NEED FOR WATER
 Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
 Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No Distance in Feet from Well to Nearest:
 1. Landfill **20** 2. Building Overhang **70** 3. Septic Holding Tank
100 4. Sewage Absorption Unit 5. Nonconforming Pit 6. Buried Home Heating Oil Tank 7. Buried Petroleum Tank
 8. Shoreline Swimming Pool
 9. Downspout/Yard Hydrant 10. Privy 11. Foundation Drain to Clearwater 12. Foundation Drain to Sewer
20 13. Building Drain Cast Iron or Plastic Other
20 14. Building Sewer Gravity Pressure Cast Iron or Plastic Other
 15. Collector or Street Sewer: Sanitary units in. diam. Storm =< 6 > 6
 16. Clearwater Sump

17. Wastewater Sump 18. Paved Animal Barn Pen 19. Animal Yard or Shelter 20. Silo
 21. Barn Gutter 22. Manure Pipe Gravity Pressure Cast Iron or Plastic Other
 23. Other Manure Storage 24. Ditch
 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Lower Open Bedrock	
From (ft.)	To (ft.)	Upper Enlarged Drillhole	Lower Open Bedrock
10	0	42	<input type="checkbox"/> ---1. Rotary - Mud Circulation----- <input type="checkbox"/>
			<input type="checkbox"/> ---2. Rotary - Air----- <input type="checkbox"/>
6	42	150	<input checked="" type="checkbox"/> ---3. Rotary - Air and Foam----- <input type="checkbox"/>
			<input type="checkbox"/> ---4. Drill-Through Casing Hammer <input type="checkbox"/>
			<input type="checkbox"/> ---5. Reverse Rotary <input type="checkbox"/>
			<input type="checkbox"/> ---6. Cable-tool Bit in. dia----- <input type="checkbox"/>
			<input type="checkbox"/> 7. Dual Rotary <input type="checkbox"/>
			<input checked="" type="checkbox"/> 8. Temp. Outer Casing 10 in. dia. depth (ft) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, why not?

8. Geology	From (ft.)	To (ft.)
--C- CLAY	0	12
T-N- BROWN SANDROCK	12	100
T-N- LIGHT BROWN SANDROCK	100	150

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)			
	6 NEW STEEL THREADED @ CUPPLED 20 LBS PER FT ASTM A53 B 1800 PSI SAWHILL PIPE	0	42
Dia. (in.)	Screen type, material & slot size NONE		

9. Static Water Level
 ft. above ground surface
90 ft. below ground surface

11. Well is: Above Grade Below Grade
14 in. Yes No
 Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No

10. Pump Test
 Pumping Level **96** ft. below surface
 Pumping at **15** GPM for **4** hours

7. Grout or Other Sealing Material. Method	From (ft.)	To (ft.)	# Sacks Cement
Method: TREMIE PIPE PUMPED Kind of Sealing Material CLEAR CEMENT @ WATER	0	42	12

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **MW** Date signed **10/22/1996**
 Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 419

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER LI164

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Form 3300-77A
 (R 8/00)

Property Owner **SURLAK, STEVE** Telephone -- Number
 Mailing Address **8287 13TH ST**
 City **COLFAX** State **WI** Zip Code **54730**
 County of Well Location **Chippewa** County Well Permit No. **W13665** Well Completion Date **10/24/1996**

I. Well Location
 Town City Village
 of **HOWARD** Fire # (if available) **8287**
 Grid or Street Address or Road Name and Number
8287 13TH ST
 Subdivision Name Lot # Block #

Well Constructor (Business Name) **OLSON KEN WELL DRLG @ PUM** License # **215** Facility ID Number (Public Wells)
 Address **3188 SUNDET RD** Public Well Plan Approval #
 W--
 City **EAU CLAIRE** State **WI** Zip Code **54703-0346** Date of Approval (mm/dd/yyyy)
 Hicap Permanent well # Common Well # Specific Capacity **.9** gpm/ft

Gov't Lot # or NW 1/4 of SE 1/4 of
 Section **30** T **29** N; R **10** E W
 Latitude Deg. Min. Longitude Deg. Min.
 2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**
 of previous unique well # constructed in Reason for replaced or Reconstructed Well?
HOME

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
 High capacity Well? Yes No
 Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
 Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No
 Distance in Feet from Well to Nearest:
 1. Landfill
13 2. Building Overhang
113 3. Septic Holding Tank
127 4. Sewage Absorption Unit
 5. Nonconforming Pit
 6. Buried Home Heating Oil Tank
 7. Buried Petroleum Tank
 8. Shoreline Swimming Pool
 9. Downspout/Yard Hydrant
 10. Privy
 11. Foundation Drain to Clearwater
 12. Foundation Drain to Sewer
56 13. Building Drain
 Cast Iron or Plastic Other
56 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
 15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
 16. Clearwater Sump

17. Wastewater Sump
 18. Paved Animal Barn Pen
 19. Animal Yard or Shelter
 20. Silo
 21. Barn Gutter
 22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
 23. Other Manure Storage
 24. Ditch
 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole		Lower Open Bedrock	
From (ft.)	To (ft.)	From (ft.)	To (ft.)	From (ft.)	To (ft.)
10	0	30			
6	30	107			
		<input type="checkbox"/> --1. Rotary - Mud Circulation----- <input type="checkbox"/> --2. Rotary - Air----- <input type="checkbox"/> --3. Rotary - Air and Foam----- <input type="checkbox"/> --4. Drill-Through Casing Hammer <input type="checkbox"/> --5. Reverse Rotary <input checked="" type="checkbox"/> --6. Cable-tool Bit 10 in. dia----- <input type="checkbox"/> 7. Dual Rotary <input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, why not?			

8. Geology	From (ft.)	To (ft.)
--I- TOPSOIL	0	1
--Y- SAND @ GRAVEL	1	3
-SN- SOFT SANDSTONE	3	7
-MN- MEDIUM SANDSTONE	7	107

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
6 STEEL T@C NEW BLACK 19 45 LB PER FT 280 WALL ASTMA53 IPSCO STEEL		0	36
Dia. (in.)	Screen type, material & slot size		

9. Static Water Level
 ft. above ground surface
43 ft. below ground surface
 11. Well is: Above Grade
14 in. Below Grade
 Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No
 10. Pump Test
 Pumping Level **66** ft. below surface
 Pumping at **20** GPM for **2** hours

7. Grout or Other Sealing Material. Method	From (ft.)	To (ft.)	# Sacks Cement
Method: TREMIE PIPE PUMPED Kind of Sealing Material			
CLAY SLURRY	0	1	
NEAT CEMENT	1	30	17

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:
 13. Signature of the Well Constructor or Supervisory Driller **DBO** Date signed **10/28/1996**
 Signature of Drill Rig Operator (Mandatory unless same as above) **KDO** Date signed **10/25/1996**

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued Yes No

Well Codes and Identifiers

Geologic Log No
SID Number
Common Well Name
Well Notification #
Batch Seq # 415

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER MF759

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Form 3300-77A
 (R 8/00)

Property Owner **GEISSLER, DALE** Telephone **715-962-3714**
 Number

Please type or Print using a black Pen
 Please Use Decimals Instead of Fractions.

Mailing Address **10585 20TH ST**

1. Well Location
 Town City Village
 Fire # (if available)

City **COLFAX**

State **WI** Zip Code **54730**

of **HOWARD**

Grid or Street Address or Road Name and Number
20TH

County of Well Location
Chippewa

County Well Permit No.
W W14899

Well Completion Date
12/17/1997

Subdivision Name Lot # Block #
1562

Well Constructor (Business Name)
MICHAEL J WETTSTEIN

License #
206

Facility ID Number (Public Wells)

Gov't Lot # or SW 1/4 of NW 1/4 of
 Section **17** T **29** N; R **10** E W

Address
5038 20TH AVE

Public Well Plan Approval #
 W--

Latitude Deg. Min. Longitude Deg. Min.

City **EAU CLAIRE**

State **WI** Zip Code **54703-6819**

Date of Approval (mm/dd/yyyy)

2. Well Type New Replacement Reconstruction
 Lat/Long Method **GPS008**

Hicap Permanent well #

Common Well #

Specific Capacity
3 gpm/ft

of previous unique well # constructed in
 Reason for replaced or Reconstructed Well?

NEED FOR WATER

3. Well serves **1** # of homes and/or
 (e.g. barn, restaurant, church, school, industry, etc.)

High capacity Well? Yes No
 Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:

Well located in floodplain? Yes No

Distance in Feet from Well to Nearest:

- 1. Landfill
- 9 2. Building Overhang
- 42 3. Septic Holding Tank
- 58 4. Sewage Absorption Unit
- 5. Nonconforming Pit
- 6. Buried Home Heating Oil Tank
- 7. Buried Petroleum Tank

- 9. Downspout/Yard Hydrant
- 10. Privy
- 11. Foundation Drain to Clearwater
- 12. Foundation Drain to Sewer
- >10 13. Building Drain
 Cast Iron or Plastic Other
- >10 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
- 15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
- 16. Clearwater Sump

- 17. Wastewater Sump
- 18. Paved Animal Barn Pen
- 19. Animal Yard or Shelter
- 20. Silo
- 21. Barn Gutter
- 22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
- 23. Other Manure Storage
- 24. Ditch

25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method			8. Geology		
From (ft.)	To (ft.)	Upper Enlarged Drillhole	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
10	0	42	T-X- BROWN SAND @ CLAY	0	5
6	42	140	T-N- BROWN SANDROCK	5	35
			G-N- LIGHT GRAY SANDROCK	35	140

6. Casing, Liner, Screen Material, Weight, Specification From (ft.) To (ft.)
6 NEW STEEL THREADED @ CUPPLED 20 LBS PER FT ASTMA53B 1800 PSI SAWHILL PIPE 0 42

Dia. (in.)	Screen type, material & slot size

9. Static Water Level ft. above ground surface **88** ft. below ground surface
 10. Pump Test Pumping Level **92** ft. below surface Pumping at **12** GPM for **4** hours
 11. Well is: Above Grade **20** in. Below Grade
 Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No

7. Grout or Other Sealing Material. Method: **TREMIE PIPE PUMPED** From (ft.) To (ft.) # Sacks Cement
 Kind of Sealing Material **CLEAR CEMENT @ WATER** 0 42 13

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:
 13. Signature of the Well Constructor or Supervisory Driller **MW** Date signed **01/09/1998**
 Signature of Drill Rig Operator (Mandatory unless same as above) **MW** Date signed **01/09/1998**

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 490

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER MM859

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Form 3300-77A
 (R 8/00)

Property Owner **DIEGER, RON** Telephone -- Number
 Mailing Address **2284 ST HWY 40**
 City **COLFAX** State **WI** Zip Code **54730**
 County of Well Location **Chippewa** County Well Permit No. **W W16133** Well Completion Date **07/20/1998**

I. Well Location
 Town City Village
 of **HOWARD**
 Fire # (if available)
 Grid or Street Address or Road Name and Number
90TH ST
 Subdivision Name Lot # Block #

Well Constructor (Business Name) **DONALD S FEDIE** License # **127** Facility ID Number (Public Wells)
 Address **W536 U S HWY 10** Public Well Plan Approval #
 W--
 City **MONDOVI** State **WI** Zip Code **54755-7729** Date of Approval (mm/dd/yyyy)
 Hicap Permanent well # Common Well # Specific Capacity **.4** gpm/ft

Gov't Lot # or NW 1/4 of NW 1/4 of
 Section **29** T **29** N; R **10** E W
 Latitude Deg. Min. Longitude Deg. Min.
 2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**
 of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
 High capacity Well? Yes No
 Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
 Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No
 Distance in Feet from Well to Nearest:
 1. Landfill **20** 2. Building Overhang **>60** 3. Septic Holding Tank **>80** 4. Sewage Absorption Unit
 5. Nonconforming Pit 6. Buried Home Heating Oil Tank 7. Buried Petroleum Tank
 8. Shoreline Swimming Pool
 9. Downspout/Yard Hydrant 10. Privy 11. Foundation Drain to Clearwater 12. Foundation Drain to Sewer 13. Building Drain
 Cast Iron or Plastic Other
>40 14. Building Sewer Gravity Pressure Cast Iron or Plastic Other
 15. Collector or Street Sewer: Sanitary units in diam. Storm =< 6 > 6
 16. Clearwater Sump

17. Wastewater Sump 18. Paved Animal Barn Pen 19. Animal Yard or Shelter 20. Silo 21. Barn Gutter 22. Manure Pipe Gravity Pressure Cast Iron or Plastic Other 23. Other Manure Storage 24. Ditch 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		From (ft.)		To (ft.)	Upper Enlarged Drillhole	Lower Open Bedrock
Dia (in.)	From (ft.)	To (ft.)				
10	0	40		<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>	
				<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>	
6	40	81		<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>	
				<input type="checkbox"/> --4. Drill-Through Casing Hammer		
				<input type="checkbox"/> --5. Reverse Rotary		
				<input checked="" type="checkbox"/> --6. Cable-tool Bit 10 in. dia-----	<input type="checkbox"/>	
				<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>	
				<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)		
				Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No		
				If no, why not?		

8. Geology	From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc		
--I- TOP SOIL	0	1
-VZ- NONCAVING CLAY @ GRAVEL	1	11
-VH- SOFT NONCAVING BROWN SHALE	11	23
-MH- SEMIFIRM BROWN SHALE	23	35
-MN- SEMIFIRM BROWN SANDSTONE	35	45
-HN- FIRM BROWN SANDSTONE	45	79
-HH- FIRM GRAY SHALE	79	81

6. Casing, Liner, Screen Material, Weight, Specification From (ft.) To (ft.)
6 T C PIPE ASTM A 53 GR B 19 45# FT IPSCO USA A FSEIDEMAN CO 0 45
 Dia. (in.) Screen type, material & slot size

9. Static Water Level ft. above ground surface 43 ft. below ground surface
 10. Pump Test Pumping Level 65 ft. below surface Pumping at 8 GPM for 2 hours
 11. Well is: Above Grade 15 in. Below Grade
 Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No

7. Grout or Other Sealing Material. Method: **TREMIE PIPE PRESSURE** From (ft.) To (ft.) # Sacks Cement
 Kind of Sealing Material **NEAT CEMENT GROUT** 0 40 16

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? Yes No If no, explain:
 13. Signature of the Well Constructor or Supervisory Driller **DSF** Date signed **07/20/1998**
 Signature of Drill Rig Operator (Mandatory unless same as above) **DSF** Date signed **07/20/1998**

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 547

**Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER NI670**

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Form 3300-77A
(R 8/00)

Property Owner **SVEE, DAN**
Telephone **715-831-9052**
Number

Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

Mailing Address **704 WALNUT ST**

I. Well Location
 Town City Village
Fire # (if available) **9340**

City **EAU CLAIRE** State **WI** Zip Code **54703**

of **HOWARD**
Grid or Street Address or Road Name and Number
9340 E 20TH ST

County of Well Location **Chippewa** County Well Permit No. **W 18695** Well Completion Date **08/22/2000**

Subdivision Name Lot # Block #

Well Constructor (Business Name) **OLSON KEN WELL DRLG & PUM** License # **215** Facility ID Number (Public Wells)

Gov't Lot # or **NE** 1/4 of **SE** 1/4 of

Address **10224 20TH AVE** Public Well Plan Approval #
W--

Section **19** T **29** N; R **10** E W

City **EAU CLAIRE** State **WI** Zip Code **54703-0288** Date of Approval (mm/dd/yyyy)

Latitude Deg. Min. Longitude Deg. Min.

Hicap Permanent well # Common Well # Specific Capacity **.7** gpm/ft

2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**

of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
High capacity Well? Yes No
Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:

Well located in floodplain? Yes No

Distance in Feet from Well to Nearest:

- 1. Landfill
- 27 2. Building Overhang
- 110 3. Septic Holding Tank
- 90 4. Sewage Absorption Unit
- 5. Nonconforming Pit
- 6. Buried Home Heating Oil Tank
- 7. Buried Petroleum Tank
- 8. Shoreline Swimming Pool

- 9. Downspout/Yard Hydrant
- 10. Privy
- 11. Foundation Drain to Clearwater
- 12. Foundation Drain to Sewer
- 60 13. Building Drain
 - Cast Iron or Plastic Other
- 110 14. Building Sewer Gravity Pressure
 - Cast Iron or Plastic Other
- 15. Collector or Street Sewer:
 - Sanitary units in. diam.
 - Storm =< 6 > 6
- 16. Clearwater Sump

- 17. Wastewater Sump
- 18. Paved Animal Barn Pen
- 19. Animal Yard or Shelter
- 20. Silo
- 21. Barn Gutter
- 22. Manure Pipe Gravity Pressure
 - Cast Iron or Plastic Other
- 23. Other Manure Storage
- 24. Ditch
- 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole		Lower Open Bedrock	
From (ft.)	To (ft.)	From (ft.)	To (ft.)	From (ft.)	To (ft.)
10	0	50			
6	50	136			
---1. Rotary - Mud Circulation----- <input type="checkbox"/> ---2. Rotary - Air----- <input type="checkbox"/> ---3. Rotary - Air and Foam----- <input type="checkbox"/> ---4. Drill-Through Casing Hammer <input type="checkbox"/> ---5. Reverse Rotary <input type="checkbox"/> <input checked="" type="checkbox"/> ---6. Cable-tool Bit 10 in. dia----- <input type="checkbox"/> ---7. Dual Rotary <input type="checkbox"/> ---8. Temp. Outer Casing in. dia. depth (ft) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, why not?					

8. Geology	From (ft.)	To (ft.)
--Y- SAND & GRAVEL	0	5
--X- SAND & CLAY	5	13
-SN- SOFT SANDSTONE	13	14
-MN- MEDIUM SANDSTONE	14	54
-HN- FIRM SANDSTONE	54	136

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
6 STEEL NEW BLACK T&C ASTM A53 .280 WALL 19.45#/FT SAWHILL & IPSCO		0	54

7. Grout or Other Sealing Material. Method	From (ft.)	To (ft.)	# Sacks Cement
Method: TREMIE PIPE PUMPED Kind of Sealing Material NEAT CEMENT GROUT	0	50	23

9. Static Water Level
ft. above ground surface
90 ft. below ground surface

11. Well is: Above Grade
20 in. Below Grade

10. Pump Test
Pumping Level **105** ft. below surface
Pumping at **10** GPM for **2** hours

Developed? Yes No
Disinfected? Yes No
Capped? Yes No

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **KDO** Date signed **08/22/2000**
Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued Yes No

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 679

**Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER OL427**

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Form 3300-77A
(R 8/00)

Property Owner **NIERENHAUSEN, BRUCE** Telephone **715-839-1259**
Number

Mailing Address **3309 JILL AVE**

City **EAU CLAIRE** State **WI** Zip Code **54701**

County of Well Location **Chippewa** County Well Permit No. **W 18735** Well Completion Date **09/13/2000**

I. Well Location
 Town City Village
of **HOWARD**

Fire # (if available)

Grid or Street Address or Road Name and Number
25TH ST

Subdivision Name Lot # Block #

Well Constructor (Business Name) **MICHAEL J WETTSTEIN** License # **206** Facility ID Number (Public Wells)

Address **5038 20TH AVE** Public Well Plan Approval #
W--

City **EAU CLAIRE** State **WI** Zip Code **54703-6819** Date of Approval (mm/dd/yyyy)

Hicap Permanent well # Common Well # Specific Capacity
gpm/ft

Gov't Lot # or NW 1/4 of NW 1/4 of
Section **32** T **29** N; R **10** E W

Latitude Deg. Min. Longitude Deg. Min.

2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**

of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.) High capacity Well? Yes No Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
Well located in floodplain? Yes No Distance in Feet from Well to Nearest:

1. Landfill
15 2. Building Overhang
70 3. Septic Holding Tank
86 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline Swimming Pool

9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
25 13. Building Drain
 Cast Iron or Plastic Other
50 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Lower Open Bedrock	
From (ft.)	To (ft.)	Upper Enlarged Drillhole	Lower Open Bedrock
6	0	80	
		<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
		<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> --4. Drill-Through Casing Hammer	
		<input type="checkbox"/> --5. Reverse Rotary	
		<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)	
		Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		If no, why not?	

8. Geology	From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc		
T-S- BROWN SAND	0	38
T-X- BROWN SAND & CLAY	38	44
T-N- BROWN SANDROCK	44	80

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)			
	6 NEW STEEL THREADED & CUPPLED 20 LBS PER FT ASTM A53 B 1800 PSI SAWHILL PIPE	0	44
Dia. (in.)	Screen type, material & slot size NONE		

9. Static Water Level
ft. above ground surface
39 ft. below ground surface

11. Well is: Above Grade **17** in. Below Grade

10. Pump Test
Pumping Level **39** ft. below surface
Pumping at **15** GPM for **3** hours

Developed? Yes No
Disinfected? Yes No
Capped? Yes No

7. Grout or Other Sealing Material. Method:	From (ft.)	To (ft.)	# Sacks Cement
Kind of Sealing Material			
NONE	0		

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **MW** Date signed **12/09/2000**

Signature of Drill Rig Operator (Mandatory unless same as above) **MW** Date signed **12/09/2000**

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued Yes No

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 712

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER **QI548**

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Form 3300-77A
(R 8/00)

Property Owner **GEISSLER, DAN**
Telephone **715-720-2303**
Number

Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

Mailing Address **10015 CTY HWY S**

1. Well Location
 Town City Village
Fire # (if available)

City **CHIPPEWA FALLS**

State **WI**
Zip Code **54729**

of **HOWARD**
Grid or Street Address or Road Name and Number
10557 20TH STREET

County of Well Location **Chippewa**
County Well Permit No. **W 19422**

Well Completion Date
07/02/2001

Subdivision Name Lot # Block #

Well Constructor (Business Name)
MICHAEL J WETTSTEIN

License #
206

Facility ID Number (Public Wells)

Gov't Lot # or NW 1/4 of SW 1/4 of
Section **17** T **29** N; R **10** E W

Address
5038 20TH AVE

Public Well Plan Approval #
W--

Latitude Deg. Min.
Longitude Deg. Min.

City **EAU CLAIRE** State **WI** Zip Code **54703-6819**

Date of Approval (mm/dd/yyyy)

2. Well Type New Replacement Reconstruction
Lat/Long Method **GPS008**

Hicap Permanent well #

Common Well #

Specific Capacity
4 gpm/ft

of previous unique well # constructed in
Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or
(e.g. barn, restaurant, church, school, industry, etc.)

High capacity Well? Yes No
Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:

Well located in floodplain? Yes No

Distance in Feet from Well to Nearest:

- 1. Landfill
- 25 2. Building Overhang
- 65 3. Septic Holding Tank
- 90 4. Sewage Absorption Unit
- 5. Nonconforming Pit
- 6. Buried Home Heating Oil Tank
- 7. Buried Petroleum Tank

- 9. Downspout/Yard Hydrant
- 10. Privy
- 11. Foundation Drain to Clearwater
- 12. Foundation Drain to Sewer
- 40 13. Building Drain
 Cast Iron or Plastic Other
- 60 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
- 15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
- 16. Clearwater Sump

- 17. Wastewater Sump
- 18. Paved Animal Barn Pen
- 19. Animal Yard or Shelter
- 20. Silo
- 21. Barn Gutter
- 22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
- 23. Other Manure Storage
- 24. Ditch
- 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method			Lower Open Bedrock	
Dia. (in.)	From (ft.)	To (ft.)	Upper Enlarged Drillhole	
10	0	42	<input type="checkbox"/> ---1. Rotary - Mud Circulation-----	<input type="checkbox"/>
			<input type="checkbox"/> ---2. Rotary - Air-----	<input type="checkbox"/>
6	42	155	<input checked="" type="checkbox"/> ---3. Rotary - Air and Foam-----	<input checked="" type="checkbox"/>
			<input type="checkbox"/> ---4. Drill-Through Casing Hammer	
			<input type="checkbox"/> ---5. Reverse Rotary	
			<input type="checkbox"/> ---6. Cable-tool Bit in. dia-----	<input type="checkbox"/>
			<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
			<input checked="" type="checkbox"/> 8. Temp. Outer Casing 10 in. dia. depth (ft)	
			Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
			If no, why not?	

8. Geology		From (ft.)	To (ft.)
Type	Caving/Noncaving, Color, Hardness, etc		
TVX-	Tan/Brown, Non-Caving, Sand & Clay	0	10
THN-	Tan/Brown, Hard/Firm, Sandstone	10	95
GHN-	Gray, Hard/Firm, Sandstone	95	155

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)			
	6 NEW STEEL THREADED AND CUPPLED 20 LBS PER FT ASTM A 53 B 1800 PSI IPSCO PIPE	0	42

9. Static Water Level	ft. above ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade
	95 ft. below ground surface	<input type="checkbox"/> Below Grade
10. Pump Test		Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Pumping Level	98 ft. below surface	Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Pumping at	12 GPM for 5 hours	Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7. Grout or Other Sealing Material. Method	From (ft.)	To (ft.)	# Sacks Cement
Method: Tremie Pipe - Pumped			
Kind of Sealing Material			
Neat cement grout	0	42	14

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:
13. Signature of the Well Constructor or Supervisory Driller	Date signed
MW	11/17/2001
Signature of Drill Rig Operator (Mandatory unless same as above)	Date signed
MW	11/17/2001

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued Yes No

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 888888888

**Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER QL298**

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Form 3300-77A
(R 8/00)

Property Owner **HALVORSON, RON** Telephone **715-962-3025**
Mailing Address **1485 80TH AVENUE**
City **COLFAX** State **WI** Zip Code **54730**
County of Well Location **Chippewa** County Well Permit No. **W 19581** Well Completion Date **10/18/2001**

I. Well Location
 Town City Village
of **HOWARD**
Fire # (if available)
Grid or Street Address or Road Name and Number
1485 80TH AVENUE
Subdivision Name Lot # Block #

Well Constructor (Business Name) **MICHAEL J WETTSTEIN** License # **206** Facility ID Number (Public Wells)
Address **5038 20TH AVE** Public Well Plan Approval #
City **EAU CLAIRE** State **WI** Zip Code **54703-6819** Date of Approval (mm/dd/yyyy)
Hicap Permanent well # Common Well # Specific Capacity **7.5** gpm/ft

Gov't Lot # or NW 1/4 of NE 1/4 of
Section **31** T **29** N; R **10** E W
Latitude Deg. Min. Longitude Deg. Min.
2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**
of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
High capacity Well? Yes No
Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
Well located in floodplain? Yes No Distance in Feet from Well to Nearest:
1. Landfill
10 2. Building Overhang
30 3. Septic Holding Tank
90 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline Swimming Pool
9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain
 Cast Iron or Plastic Other
14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		From (ft.)		To (ft.)		Upper Enlarged Drillhole		Lower Open Bedrock	
Dia. (in.)	From (ft.)	To (ft.)	From (ft.)	To (ft.)	From (ft.)	To (ft.)	From (ft.)	To (ft.)	From (ft.)
10	0	42					<input type="checkbox"/> --1. Rotary - Mud Circulation-----		<input type="checkbox"/>
							<input type="checkbox"/> --2. Rotary - Air-----		<input type="checkbox"/>
6	42	160					<input checked="" type="checkbox"/> --3. Rotary - Air and Foam-----		<input checked="" type="checkbox"/>
							<input type="checkbox"/> --4. Drill-Through Casing Hammer		
							<input type="checkbox"/> --5. Reverse Rotary		
							<input type="checkbox"/> --6. Cable-tool Bit in. dia-----		<input type="checkbox"/>
							<input type="checkbox"/> 7. Dual Rotary		<input type="checkbox"/>
							<input checked="" type="checkbox"/> 8. Temp. Outer Casing 10 in. dia.		7 depth (ft)
							Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
							If no, why not?		

8. Geology		From (ft.)	To (ft.)
Type	Caving/Noncaving, Color, Hardness, etc		
TVC-	Tan/Brown, Non-Caving, Clay	0	7
THN-	Tan/Brown, Hard/Firm, Sandstone	7	160

6. Casing, Liner, Screen		Material, Weight, Specification		From (ft.)	To (ft.)
Dia. (in.)	Screen type, material & slot size				
		6 NEW STEEL THREADED AND CUPPLED 20 LBS PER FT ASTM A 53 B 1800 PSI IPSCO PIPE		0	42

9. Static Water Level
ft. above ground surface
100 ft. below ground surface

11. Well is: Above Grade
20 in. Below Grade

10. Pump Test
Pumping Level **102** ft. below surface
Pumping at **15** GPM for **3** hours

11. Well is: Developed? Yes No
Disinfected? Yes No
Capped? Yes No

7. Grout or Other Sealing Material. Method:		From (ft.)	To (ft.)	# Sacks Cement
Method:	Kind of Sealing Material			
	Tremie Pipe - Pumped			
	Neat cement grout	0	42	14

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **MW** Date signed **03/28/2002**
Signature of Drill Rig Operator (Mandatory unless same as above) **MW** Date signed **03/28/2002**

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued Yes No

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq #

888888888

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER **QW215**

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Form 3300-77A
(R 8/00)

Property SVEE, OLAV Owner		Telephone 715-962-4321 Number	
Mailing BOX 365 Address			
City COLFAX		State WI	Zip Code 54730
County of Well Location Chippewa	County Well Permit No. W 21755	Well Completion Date 04/28/2003	

I. Well Location <input checked="" type="checkbox"/> Town <input type="checkbox"/> City <input type="checkbox"/> Village		Fire # (if available) 1899
of HOWARD		
Grid or Street Address or Road Name and Number 1899 CO HWY N		
Subdivision Name	Lot #	Block #

Well Constructor (Business Name) OLSON KEN WELL DRLG & PUM		License # 215	Facility ID Number (Public Wells)
Address 10224 20TH AVE		Public Well Plan Approval # W--	
City EAU CLAIRE	State WI	Zip Code 54703-0288	Date of Approval (mm/dd/yyyy)
Hicap Permanent well #	Common Well #	Specific Capacity .3 gpm/ft	

Gov't Lot #	or	NE 1/4 of	SE 1/4 of
Section 19	T	29 N; R 10	<input type="checkbox"/> E <input checked="" type="checkbox"/> W
Latitude Deg.	Min.		
Longitude Deg.	Min.		
2. Well Type		Lat/Long Method	
<input checked="" type="checkbox"/> New	<input type="checkbox"/> Replacement	<input type="checkbox"/> Reconstruction	GPS008
of previous unique well # _____ constructed in _____ Reason for replaced or Reconstructed Well?			

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)

High capacity Well? Yes No
Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry: _____

Well located in floodplain? Yes No

Distance in Feet from Well to Nearest:

1. Landfill
2. Building Overhang
3. Septic Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline Swimming Pool
9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain
 - Cast Iron or Plastic Other
14. Building Sewer Gravity Pressure
 - Cast Iron or Plastic Other
15. Collector or Street Sewer:
 - Sanitary _____ units _____ in. diam.
 - Storm _____ =< 6 _____ > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe Gravity Pressure
 - Cast Iron or Plastic Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method			8. Geology		
From (ft.)	To (ft.)	Upper Enlarged Drillhole	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
10	0	30	--S- SAND	0	6
6	30	104	-FN- MEDIUM FRACTURED SANDSTONE	6	10
			TMN- MEDIUM BROWN SANDSTONE	10	36.5
			THN- FIRM TAN SANDSTONE	36.5	104

6. Casing, Liner, Screen			9. Static Water Level		
Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)	ft. above ground surface	ft. below ground surface
6	STL NEW BLK T&C ASTM A53 .280 WALL 19.45#/FT WHEATLAND	0	36.5	40	

7. Grout or Other Sealing Material. Method: TREMIE PIPE PUMPED		From (ft.)	To (ft.)	# Sacks Cement
Kind of Sealing Material NEAT CEMENT GROUT		0	30	14

10. Pump Test		11. Well is:	
Pumping Level	84 ft. below surface	<input checked="" type="checkbox"/> Above Grade	<input type="checkbox"/> Below Grade
Pumping at	12 GPM for 2 hours	16 in.	<input type="checkbox"/> Below Grade
		Developed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Disinfected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Capped?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?			
<input type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:			
13. Signature of the Well Constructor or Supervisory Driller KDO		Date signed 04/28/2003	
Signature of Drill Rig Operator (Mandatory unless same as above)		Date signed	

13. Signature of the Well Constructor or Supervisory Driller KDO			
Signature of Drill Rig Operator (Mandatory unless same as above)		Date signed	

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued Yes No

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 849

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER SP766

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Form 3300-77A
 (R 8/00)

Property Owner **LANGE, RICHARD** Telephone **715-962-2296**
 Mailing Address **7885 17TH ST**
 City **COLFAX** State **WI** Zip Code **54730**
 County of Well Location **Chippewa** County Well Permit No. **W 25021** Well Completion Date **06/16/2005**

I. Well Location
 Town City Village
 of **HOWARD**
 Fire # (if available) **7885**
 Grid or Street Address or Road Name and Number
7885 17TH ST
 Subdivision Name Lot # Block #

Well Constructor (Business Name) **OLSON KEN WELL DRLG & PUM** License # **215** Facility ID Number (Public Wells)
 Address **10224 20TH AVE** Public Well Plan Approval #
 City **EAU CLAIRE** State **WI** Zip Code **54703-0288** Date of Approval (mm/dd/yyyy)
 Hicap Permanent well # Common Well # Specific Capacity **1.5** gpm/ft

Gov't Lot # or **NE** 1/4 of **NE** 1/4 of
 Section **31** T **29** N; R **10** E W
 Latitude Deg. Min. Longitude Deg. Min.
 2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**
 of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
 High capacity Well? Yes No
 Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
 Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No
 Distance in Feet from Well to Nearest:
 1. Landfill
13 2. Building Overhang
100 3. Septic Holding Tank
200 4. Sewage Absorption Unit
 5. Nonconforming Pit
 6. Buried Home Heating Oil Tank
 7. Buried Petroleum Tank
 8. Shoreline Swimming Pool
 9. Downspout/Yard Hydrant
 10. Privy
14 11. Foundation Drain to Clearwater
 12. Foundation Drain to Sewer
20 13. Building Drain
 Cast Iron or Plastic Other
79 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
 15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
 16. Clearwater Sump

17. Wastewater Sump
 18. Paved Animal Barn Pen
 19. Animal Yard or Shelter
 20. Silo
 21. Barn Gutter
 22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
 23. Other Manure Storage
 24. Ditch
 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Lower Open Bedrock	
From (ft.)	To (ft.)	Upper Enlarged Drillhole	Lower Open Bedrock
10	0	30	<input type="checkbox"/>
6	30	140	<input type="checkbox"/>
		<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
		<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> --4. Drill-Through Casing Hammer	<input type="checkbox"/>
		<input type="checkbox"/> --5. Reverse Rotary	<input type="checkbox"/>
		<input checked="" type="checkbox"/> --6. Cable-tool Bit 10 in. dia-----	<input checked="" type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)	<input type="checkbox"/>
		Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		If no, why not?	

8. Geology	From (ft.)	To (ft.)
T-CS SANDY BROWN CLAY	0	13
T-NH SHALEY BROWN SANDSTONE	13	22
TMN- MED TAN SANDSTONE	22	48
THN- FIRM TAN SANDSTONE	48	95
--N- LAYERED BLUE & BROWN SANDSTONE	95	110
TMN- MED TAN SANDSTONE	110	140

6. Casing, Liner, Screen Material, Weight, Specification From (ft.) To (ft.)
6 STEEL NEW BLACK T&C ASTM A53 .280 WALL 19.45#/FT PARAGON & WHEATLAND 0 48
 Dia. (in.) Screen type, material & slot size

9. Static Water Level ft. above ground surface **100** ft. below ground surface
 10. Pump Test Pumping Level **110** ft. below surface Pumping at **15** GPM for **2** hours
 11. Well is: Above Grade **16** in. Below Grade
 Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No

7. Grout or Other Sealing Material. Method **TREMIE PIPE PUMPED** From (ft.) To (ft.) # Sacks Cement
 Kind of Sealing Material **NEAT CEMENT GROUT** 0 30 14

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:
 13. Signature of the Well Constructor or Supervisory Driller **KDO** Date signed **06/20/2005**
 Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification # 19549107

Batch Seq # 987

**Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER ST268**

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Form 3300-77A
(R 8/00)

Property Owner **GROSSMEIER, ALAN** Telephone -- Number
Mailing Address **8539 13TH ST**
City **COLFAX** State **WI** Zip Code **54730**
County of Well Location **Chippewa** County Well Permit No. **W** Well Completion Date **08/29/2005**

Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.
1. Well Location
 Town City Village
of **HOWARD**
Grid or Street Address or Road Name and Number
Subdivision Name Lot # Block #

Well Constructor (Business Name) **CHRISTOPHER J OLSON** License # **5820** Facility ID Number (Public Wells)
Address **OLSON BROS WELL DRLG** Public Well Plan Approval #
City **EAU CLAIRE** State **WI** Zip Code **54701** Date of Approval (mm/dd/yyyy)
Hicap Permanent well # Common Well # Specific Capacity **1.2** gpm/ft

Gov't Lot # or NW 1/4 of SE 1/4 of
Section **30** T **29** N; R **10** E W
Latitude Deg. Min. Longitude Deg. Min.
2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**
of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
High capacity Well? Yes No
Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
Well located in floodplain? Yes No
Distance in Feet from Well to Nearest:
1. Landfill
10 2. Building Overhang
>100 3. Septic Holding Tank
>100 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline Swimming Pool
9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain
 Cast Iron or Plastic Other
>50 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole		Lower Open Bedrock	
From (ft.)	To (ft.)	From (ft.)	To (ft.)	From (ft.)	To (ft.)
9.875	0	39			
6	39	221			
		<input type="checkbox"/> --1. Rotary - Mud Circulation-----		<input type="checkbox"/>	
		<input type="checkbox"/> --2. Rotary - Air-----		<input type="checkbox"/>	
		<input checked="" type="checkbox"/> --3. Rotary - Air and Foam-----		<input checked="" type="checkbox"/>	
		<input type="checkbox"/> --4. Drill-Through Casing Hammer			
		<input type="checkbox"/> --5. Reverse Rotary			
		<input type="checkbox"/> --6. Cable-tool Bit in. dia-----		<input type="checkbox"/>	
		<input type="checkbox"/> 7. Dual Rotary		<input type="checkbox"/>	
		<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)			
		Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No			
		If no, why not?			

8. Geology	From (ft.)	To (ft.)
--F- FILL	0	4
T-N- TAN SANDSTONE	4	221

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)			
	6 USA SAWHILL 18.97 FT .280 WALL WELDED JOINTS	0	39
Dia. (in.)	Screen type, material & slot size		

9. Static Water Level
ft. above ground surface
153.5 ft. below ground surface
11. Well is: Above Grade
16 in. Below Grade
Developed? Yes No
Disinfected? Yes No
Capped? Yes No
10. Pump Test
Pumping Level **162** ft. below surface
Pumping at **10** GPM for **1** hours

7. Grout or Other Sealing Material. Method	From (ft.)	To (ft.)	# Sacks Cement
Method: TREMIE PIPE PUMPED Kind of Sealing Material			
NEAT CEMENT GROUT	0	39	13

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain: **NA**
13. Signature of the Well Constructor or Supervisory Driller **CJO** Date signed **09/19/2005**
Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued Yes No

Well Codes and Identifiers

Geologic Log No
SID Number
Common Well Name
Well Notification # 20640515
Batch Seq # 994

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER TG543

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Form 3300-77A
 (R 8/00)

Property Owner **DREGER, RANDY** Telephone -- Number
 Mailing Address **8620 13TH ST**
 City **COLFAX** State **WI** Zip Code **54730**
 County of Well Location **Chippewa** County Well Permit No. **W 26081** Well Completion Date **11/14/2005**

I. Well Location
 Town City Village
 of **HOWARD**
 Fire # (if available)
 Grid or Street Address or Road Name and Number
 Subdivision Name Lot # Block #

Well Constructor (Business Name) **CHRISTOPHER J OLSON** License # **5820** Facility ID Number (Public Wells)
 Address **OLSON BROS WELL DRLG** Public Well Plan Approval #
 W--
 City **EAU CLAIRE** State **WI** Zip Code **54701** Date of Approval (mm/dd/yyyy)
 Hicap Permanent well # Common Well # Specific Capacity **.1** gpm/ft

Gov't Lot # or **SE** 1/4 of **NW** 1/4 of
 Section **30** T **29** N; R **10** E W
 Latitude Deg. Min. Longitude Deg. Min.
 2. Well Type New Replacement Reconstruction Lat/Long Method
 of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
 High capacity Well? Yes No
 Property? Yes No

Drilled Driven Point Jetted Other:
 Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

4. Is the well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No
 Distance in Feet from Well to Nearest:
 1. Landfill
 2. Building Overhang
 >100 3. Septic Holding Tank
 >100 4. Sewage Absorption Unit
 5. Nonconforming Pit
 6. Buried Home Heating Oil Tank
 7. Buried Petroleum Tank
 8. Shoreline Swimming Pool
 9. Downspout/Yard Hydrant
 10. Privy
 11. Foundation Drain to Clearwater
 12. Foundation Drain to Sewer
 13. Building Drain
 Cast Iron or Plastic Other
 >80 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
 15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
 16. Clearwater Sump

17. Wastewater Sump
 18. Paved Animal Barn Pen
 19. Animal Yard or Shelter
 20. Silo
 21. Barn Gutter
 22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
 23. Other Manure Storage
 24. Ditch
 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method			8. Geology		
From (ft.)	To (ft.)	Upper Enlarged Drillhole	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
9.875	0	39	T-C- BRW CLAY	0	4
6	39	122	T-N- TAN SANDSTONE	4	122
---1. Rotary - Mud Circulation----- <input type="checkbox"/> ---2. Rotary - Air----- <input type="checkbox"/> ---3. Rotary - Air and Foam----- <input type="checkbox"/> <input checked="" type="checkbox"/> ---4. Drill-Through Casing Hammer ---5. Reverse Rotary <input type="checkbox"/> ---6. Cable-tool Bit in. dia----- <input type="checkbox"/> 7. Dual Rotary <input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, why not?					

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
6 USA IPSCO .280 WALL 18.97 FT WELDED JOINTS		0	39
Dia. (in.)	Screen type, material & slot size		

7. Grout or Other Sealing Material. Method **TREMIE PUMPED**
 Kind of Sealing Material **NEAT CEMENT** From (ft.) **0** To (ft.) **39** # Sacks Cement **13**

9. Static Water Level
 ft. above ground surface
73.6 ft. below ground surface
 11. Well is: Above Grade
16 in. Below Grade
 Developed? Yes No
 Disinfected? Yes No
 Pumping at **1** GPM for **8** hours
 Capped? Yes No

10. Pump Test
 Pumping Level **87** ft. below surface
 Pumping at **1** GPM for **8** hours

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:
 13. Signature of the Well Constructor or Supervisory Driller **CJO** Date signed **12/17/2005**
 Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Well Codes and Identifiers

Geologic Log No
SID Number
Common Well Name
Well Notification # 21834580
Batch Seq # 1011

**Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER TT255**

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Form 3300-77A
(R 8/00)

Property Owner **DEMOE, RANDY** Telephone **715-874-6789**
Mailing Address **10050 810TH AVENUE**
City **COLFAX** State **WI** Zip Code **54730**
County of Well Location **Dunn** County Well Permit No. **W** Well Completion Date **10/12/2004**

Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

1. Well Location
 Town City Village
of **COLFAX** Fire # (if available)

Grid or Street Address or Road Name and Number
10050 810TH AVENUE

Subdivision Name Lot # Block #

Well Constructor (Business Name) **MICHAEL J WETTSTEIN** License # **206** Facility ID Number (Public Wells)
Address **WETTSTEIN WELL DRILLING** Public Well Plan Approval #
City **EAU CLAIRE** State **WI** Zip Code **54703-6819** Date of Approval (mm/dd/yyyy)
Hicap Permanent well # Common Well # Specific Capacity **3** gpm/ft

Gov't Lot # or **NE** 1/4 of **SE** 1/4 of
Section **25** T **29** N; R **11** E W
Latitude Deg. Min. Longitude Deg. Min.
2. Well Type New Replacement Reconstruction Lat/Long Method **GPS008**
of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
High capacity Well? Yes No
Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
Well located in floodplain? Yes No Distance in Feet from Well to Nearest:
1. Landfill
50 2. Building Overhang
100 3. Septic Holding Tank
130 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline Swimming Pool
9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
70 13. Building Drain
 Cast Iron or Plastic Other
75 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		From (ft.)		To (ft.)	Upper Enlarged Drillhole	Lower Open Bedrock
Dia. (in.)						
10	0	42			<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
					<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
6	42	220			<input checked="" type="checkbox"/> --3. Rotary - Air and Foam-----	<input checked="" type="checkbox"/>
					<input type="checkbox"/> --4. Drill-Through Casing Hammer	
					<input type="checkbox"/> --5. Reverse Rotary	
					<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>
					<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
					<input checked="" type="checkbox"/> 8. Temp. Outer Casing 10 in. dia. 4 depth (ft)	
					Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
					If no, why not?	

8. Geology		From (ft.)	To (ft.)
Type, Caving/Noncaving, Color, Hardness, etc			
TVC-	Tan/Brown, Non-Caving, Clay	0	4
THN-	Tan/Brown, Hard/Firm, Sandstone	4	140
GHN-	Gray, Hard/Firm, Sandstone	140	220

6. Casing, Liner, Screen		Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)				
		6 NEW STEEL THREADED AND CUPPLED 20 LBS PER FT ASTM A 53 B 1800 PSI IPSCO PIPE	0	42
Dia. (in.)	Screen type, material & slot size			

9. Static Water Level
ft. above ground surface
150 ft. below ground surface

11. Well is: Above Grade
18 in. Below Grade

10. Pump Test
Pumping Level **155** ft. below surface
Pumping at **15** GPM for **4** hours

Developed? Yes No
Disinfected? Yes No
Capped? Yes No

7. Grout or Other Sealing Material. Method		From (ft.)	To (ft.)	# Sacks Cement
Method: Tremie Pipe - Pumped				
Kind of Sealing Material				
Neat cement grout		0	42	14

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **MW** Date signed **03/14/2005**
Signature of Drill Rig Operator (Mandatory unless same as above) **MW** Date signed **03/14/2005**

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 888888888

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER VK578

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Form 3300-77A
 (R 8/00)

Property Owner **PAGENKOPF, BERNIE** Telephone **715-874-6789**
 Mailing Address **617 WESTWOOD DRIVE**
 City **CHIPPEWA FALLS** State **WI** Zip Code **54729**
 County of Well Location **Chippewa** County Well Permit No. **W 26004** Well Completion Date **09/14/2005**

I. Well Location
 Town City Village
 of **HOWARD**
 Grid or Street Address or Road Name and Number
11251 20TH STREET
 Subdivision Name Lot # Block #

Well Constructor (Business Name) **MICHAEL J WETTSTEIN** License # **206** Facility ID Number (Public Wells)
 Address **WETTSTEIN WELL DRILLING** Public Well Plan Approval #
 City **EAU CLAIRE** State **WI** Zip Code **54703-6819** Date of Approval (mm/dd/yyyy)
 Hicap Permanent well # Common Well # Specific Capacity **15** gpm/ft

Gov't Lot # or **SE** 1/4 of **SW** 1/4 of
 Section **8** T **29** N; R **10** E W
 Latitude Deg. Min. Longitude Deg. Min.
 2. Well Type New Replacement Reconstruction Lat/Long Method
 of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and or **POND** High capacity Well? Yes No
 (e.g. barn, restaurant, church, school, industry, etc.) Property? Yes No

Drilled Driven Point Jetted Other:
 4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No Distance in Feet from Well to Nearest:
 1. Landfill 2. Building Overhang 3. Septic Holding Tank
 4. Sewage Absorption Unit 5. Nonconforming Pit 6. Buried Home Heating Oil Tank 7. Buried Petroleum Tank
 8. Shoreline Swimming Pool
 9. Downspout/Yard Hydrant 10. Privy 11. Foundation Drain to Clearwater 12. Foundation Drain to Sewer
 13. Building Drain Cast Iron or Plastic Other
 14. Building Sewer Gravity Pressure Cast Iron or Plastic Other
 15. Collector or Street Sewer: Sanitary units in. diam. Storm =< 6 > 6
 16. Clearwater Sump

17. Wastewater Sump 18. Paved Animal Barn Pen 19. Animal Yard or Shelter 20. Silo
 21. Barn Gutter 22. Manure Pipe Gravity Pressure Cast Iron or Plastic Other
 23. Other Manure Storage 24. Ditch 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Lower Open Bedrock	
From (ft.)	To (ft.)	Upper Enlarged Drillhole	Lower Open Bedrock
6	0	63	
		<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
		<input type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
		<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
		<input type="checkbox"/> --4. Drill-Through Casing Hammer	
		<input type="checkbox"/> --5. Reverse Rotary	
		<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>
		<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
		<input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft)	
		Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		If no, why not?	

8. Geology	From (ft.)	To (ft.)
TSS- Tan/Brown, Soft/Loose, Sand	0	35
TVX- Tan/Brown, Non-Caving, Sand & Clay	35	60
THN- Tan/Brown, Hard/Firm, Sandstone	60	63

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
Dia. (in.)			
	6 NEW STEEL THREADED AND CUPPLED 20 LBS PER FT ASTM A 53 B 1800 PSI IPSCO PIPE	0	60
Dia. (in.)	Screen type, material & slot size		

9. Static Water Level
 ft. above ground surface
25 ft. below ground surface
 10. Pump Test
 Pumping Level **26** ft. below surface
 Pumping at **15** GPM for **4** hours
 11. Well is: Above Grade Below Grade
18 in. Below Grade
 Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No

7. Grout or Other Sealing Material. Method:	From (ft.)	To (ft.)	# Sacks Cement
Kind of Sealing Material			
	0		

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:
 13. Signature of the Well Constructor or Supervisory Driller **MW** Date signed **09/24/2005**
 Signature of Drill Rig Operator (Mandatory unless same as above) **MW** Date signed **09/24/2005**

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued Yes No

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification # 20862992

Batch Seq # 888888888

**Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER WH584**

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Form 3300-77A
(R 8/00)

Property Owner **JENSON, DAN**
Telephone **715-874-6789**
Number

Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

Mailing Address **N8298 994TH STREET**

1. Well Location
 Town City Village
Fire # (if available)

City **COLFAX** State **WI** Zip Code **54730**

of **COLFAX**
Grid or Street Address or Road Name and Number
YOUNG ROAD

County of Well Location **Dunn** County Well Permit No. **W** Well Completion Date **09/15/2006**

Subdivision Name Lot # Block #

Well Constructor (Business Name) **MICHAEL J WETTSTEIN** License # **206** Facility ID Number (Public Wells)

Gov't Lot # or **SE** 1/4 of **SE** 1/4 of
Section **24** T **29** N; R **11** E W

Address **WETTSTEIN WELL DRILLING** Public Well Plan Approval #
W--

Latitude Deg. Min. Longitude Deg. Min.

City **EAU CLAIRE** State **WI** Zip Code **54703-6819** Date of Approval (mm/dd/yyyy)

2. Well Type New Replacement Reconstruction Lat/Long Method

Hicap Permanent well # Common Well # Specific Capacity **2** gpm/ft

of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.) High capacity Well? Yes No Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:

Well located in floodplain? Yes No

Distance in Feet from Well to Nearest:

- 1. Landfill
- 20** 2. Building Overhang
- 80** 3. Septic Holding Tank
- 100** 4. Sewage Absorption Unit
- 5. Nonconforming Pit
- 6. Buried Home Heating Oil Tank
- 7. Buried Petroleum Tank

- 9. Downspout/Yard Hydrant
- 10. Privy
- 11. Foundation Drain to Clearwater
- 12. Foundation Drain to Sewer
- 32** 13. Building Drain Cast Iron or Plastic Other
- 45** 14. Building Sewer Gravity Pressure Cast Iron or Plastic Other
- 15. Collector or Street Sewer: Sanitary units in. diam. Storm =< 6 > 6
- 16. Clearwater Sump

- 17. Wastewater Sump
- 18. Paved Animal Barn Pen
- 19. Animal Yard or Shelter
- 20. Silo
- 21. Barn Gutter
- 22. Manure Pipe Gravity Pressure Cast Iron or Plastic Other
- 23. Other Manure Storage
- 24. Ditch

25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		From		To		Upper		Lower	
Dia. (in.)	(ft.)	(ft.)	(ft.)	Enlarged Drillhole		Open Bedrock			
10	0	42		<input type="checkbox"/>	---1. Rotary - Mud Circulation-----	<input type="checkbox"/>			
				<input type="checkbox"/>	---2. Rotary - Air-----	<input type="checkbox"/>			
6	42	140		<input checked="" type="checkbox"/>	---3. Rotary - Air and Foam-----	<input checked="" type="checkbox"/>			
				<input type="checkbox"/>	---4. Drill-Through Casing Hammer	<input type="checkbox"/>			
				<input type="checkbox"/>	---5. Reverse Rotary	<input type="checkbox"/>			
				<input type="checkbox"/>	---6. Cable-tool Bit in. dia-----	<input type="checkbox"/>			
				<input type="checkbox"/>	7. Dual Rotary	<input type="checkbox"/>			
				<input checked="" type="checkbox"/>	8. Temp. Outer Casing 10 in. dia.	<input type="checkbox"/>	10	depth	(ft)
					Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
					If no, why not?				

8. Geology		From	To
Type, Caving/Noncaving, Color, Hardness, etc		(ft.)	(ft.)
TVC-	Tan/Brown, Non-Caving, Clay	0	10
THN-	Tan/Brown, Hard/Firm, Sandstone	10	72
GHN-	Gray, Hard/Firm, Sandstone	72	90
THN-	Tan/Brown, Hard/Firm, Sandstone	90	140

6. Casing, Liner, Screen		Material, Weight, Specification		From	To
Dia. (in.)				(ft.)	(ft.)
	6 NEW STEEL THREADED AND CUPPLED 20 LBS PER FT ASTM A 53 B 1800 PSI IPSCO PIPE			0	42

9. Static Water Level	ft. above ground surface	11. Well is:	<input checked="" type="checkbox"/> Above Grade
	80 ft. below ground surface		<input type="checkbox"/> Below Grade
10. Pump Test	Pumping Level 85 ft. below surface	Developed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Pumping at 10 GPM for 3 hours	Disinfected?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Capped?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7. Grout or Other Sealing Material. Method		From	To	# Sacks
Method: TREMIE PIPE PUMPED	Kind of Sealing Material	(ft.)	(ft.)	Cement
	NEAT CEMENT GROUT	0	42	15

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller Date signed
MW **11/01/2006**
Signature of Drill Rig Operator (Mandatory unless same as above) Date signed
MW **11/01/2006**

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification # 24024170

Batch Seq # 888888888