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Nicolet Minerals COMPANY

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December 18, 1998

Mr. Charles Fitzgerald
Wisconsin Department of Natural Resources
North Central District
107 Sutcliff Avenue
Rhinelander, WI 54501

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Ms. Char Hauger
U.S. Army Corps of Engineers
St. Paul District
190 Fifth Street East
St. Paul, MN 55101

Dear Mr. Fitzgerald and Ms. Hauger:

Re: Crandon Project - *High Capacity Well Permit Application*

Nicolet Minerals Company (NMC) is pleased to submit the attached updated report titled *High Capacity Well Permit Application* for its Crandon Project. This application has been prepared in accordance with Chapter NR 182, Wis. Admin. Code, and outlines the planned project groundwater withdrawal activities, which include mine dewatering and potable and non-potable water supply well construction and uses. This *High Capacity Well Permit Application* is submitted under Section 293.65(3), Wis. Stats., which requires that groundwater withdrawal be approved under Section 281.17(1), Wis. Stats.

The *High Capacity Well Permit Application* has been prepared on behalf of NMC by Foth & Van Dyke and Associates, Inc. As noted on the attached distribution list, NMC has distributed the document to appropriate state and federal agencies, to local officials, and to various interested parties. It is our understanding that the Wisconsin Department of Natural Resources (WDNR) and the U.S. Army Corps of Engineers (USCOE) will be responsible for distribution of the document to their appropriate staff members.

NMC is requesting that the WDNR review this application as expeditiously as possible, such that permitting activities associated with the project can continue in a timely

manner. If you or your staff have any questions regarding the report, please contact me at (715) 478-3393.

Sincerely,

Gordon Reid
Manager of Engineering
Nicolet Minerals Company

GR:cer1

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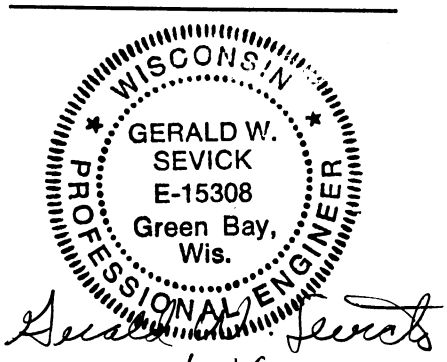
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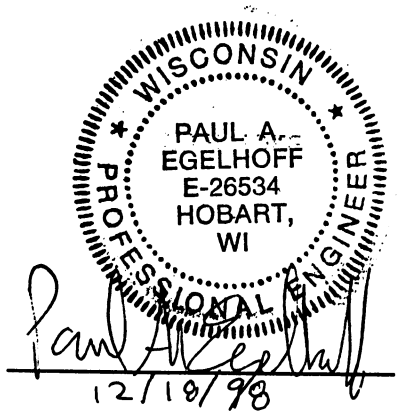
Scope ID: 93C049

Prepared for
Nicolet Minerals Company
7 North Brown Street, 3rd Floor
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Prepared by
Foth & Van Dyke and Associates Inc.

Originally Issued October 1995
Updated December 1998





Foth & Van Dyke 1998
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Nicolet Minerals Company
High Capacity Well Permit Application

Executive Summary

Introduction

As part of the Crandon Project permitting process, Nicolet Minerals Company (NMC) must secure from the Wisconsin Department of Natural Resources (WDNR) a permit to withdraw groundwater for mine-related activities. The *High Capacity Well Permit Application* describes these activities and the effects they are estimated to have on water resources in the area.

Groundwater Drawdown

The best engineering judgement is that water will enter the mine at about 450 gallons per minute (gpm). Some water will be used in the mine for operations like drilling and dust control. Water will also be pumped to the surface, treated to WDNR water quality standards, and discharged to a soil absorption system. NMC will use proven, widely-used grouting methods to minimize groundwater seepage into the mine.

Groundwater modeling indicates that the mine inflow could range from a low of about 250 gpm to a practical worst case of about 775 gpm. Because of mine inflow, groundwater around the mine will be drawn down slowly over several years. This slow process will be monitored closely by measuring a series of monitoring wells. Under the most likely impact scenario, modeled by the best engineering judgement case, at approximately 1,000 feet (0.2 mile) from the ore body, the groundwater will be drawn down by about 10 feet. At approximately 7,000 feet (1.3 miles) from the ore body the drawdown will be about 2 feet, which is the smallest change that can be typically distinguished from natural variation in water levels. The area in which the water table will be drawn down is confined mostly to property owned by NMC.

Effects on Water Wells

Effects of the groundwater withdrawal on private water supplies will be limited to an area within approximately 5,000 feet of the mine. NMC studies show that 11 wells on land not owned by the company may be affected. To assure an ample water supply for these property owners should any of these wells become unusable, NMC will either lower the pump in the existing well, deepen the well and lower the pump, or drill a new well, if it is required. These options will be discussed with the affected property owners. A groundwater monitoring program will be in place to measure changes in water levels long before any impacts on private wells could occur so that appropriate actions to protect the well owner can be taken, if needed.

To measure likely effects on area wells, NMC conducted an inventory of public and private water supplies around the mine in the summer of 1994. The inventory was expanded in 1996 to include a larger area. This work, covering portions of Forest and Langlade counties, added to

similar inventories conducted in 1982 and 1984. In all, these inventories gathered information on more than 200 wells within an approximate 20-square-mile area.

Effects on Water Resources

Skunk Lake, a 6-acre lake on the mine property with a maximum depth of 6 feet, no fish population and no cottages is estimated to be the only lake that, under normal climatic conditions, will experience a notable lowering of its water level due to mine dewatering. To mitigate the impact, NMC will install a water discharge pipeline to allow pumping of treated mine water into the lake when necessary. Of the other six lakes nearest the mine, there will be no effect on Oak Lake, Lake 19-11 (Popple Pond), and Lake 6-8, and negligible effects under normal climatic conditions on Little Sand, Duck and Deep Hole Lakes. Water level changes on Mole Lake, Lake 35-7, Lake 34-1, and Rolling Stone Lakes will be too small to measure. There will be no change at all in water levels on Lucerne, Metonga, Ground Hemlock, Rice, Crane, Pickerel, St. Johns, Walsh, Kimberly, Clark or any other lakes more than 2 miles from the mine.

Creek 19-14 is categorized as a Level I hard water stream. The creek is a gaining stream. Mine dewatering will likely reduce the amount of groundwater discharging to this water body. Since this water body is groundwater fed, and will remain groundwater fed during mine operations, flow will not be lost to the aquifer during the drawdown period. To mitigate the impact, NMC will install a mitigation well and water discharge pipeline to allow pumping of groundwater into the creek when necessary. Since the mitigation discharge point for this water body is at its headwater, the flow in the creek will be mitigated along its entire reach.

New Well Installations

NMC will drill three new wells for the mine:

- A potable water well about 0.5 miles south of the plant site and west of Little Sand Lake will supply water to mine facilities for drinking, showers, and other domestic uses.

- A TMA well just north of the tailings management area will supply water intermittently for work related to construction of the three tailings cells.

- A mitigation well located north of Swamp Creek and just east of the proposed plant site access road will supply hard water for mitigation of groundwater fed springs and creeks.

Nicolet Minerals Company
High Capacity Well Permit Application

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1 Introduction

Nicolet Minerals Company (NMC) is proposing to develop an underground zinc-copper mine in Forest County, Wisconsin. Pursuant to Chapter NR 132.05, Wis. Admin. Code, NMC's predecessor company submitted a Notice of Intent to Collect Data and Detailed Scope of Study (NOI/SOS) for the Crandon Project to the Wisconsin Department of Natural Resources (WDNR) on February 15, 1994 (Foth & Van Dyke, 1994). As part of further development of this project, numerous federal, state and local environmental, construction, building and safety permits and approvals need to be obtained. This submittal constitutes the High Capacity Well Permit Application (HCWPA) for the groundwater withdrawal activities associated with the Crandon Project.

The HCWPA outlines the planned project groundwater withdrawal activities which include mine dewatering and potable and non-potable water supply well construction and use. This HCWPA has been prepared in accordance with applicable portions of Chapter NR 812, Wis. Admin. Code.

A number of parallel applications have been submitted to the WDNR and U.S. Army Corps of Engineers (USCOE) in support of the Crandon Project permitting process. The major documents and permit applications are listed below:

- Environmental Impact Report
- Air Pollution Control Permit Application
- Water Regulatory Permit Applications pursuant to Chapters 30 and 31, Wis. Stats.
- Water Regulatory Permit Application under Section 404 of the Federal Clean Water Act
- Preliminary Engineering Report for Wastewater Treatment Facilities
- Notice of Intent for Storm Water Discharges Associated with Construction Activities under a General WPDES Permit
- Mine Permit Application
- Tailings Management Area Feasibility Report/Plan of Operation and Addenda
- Wisconsin Pollutant Discharge Elimination System (WPDES) Permit Application
- Surface Water Mitigation Plan

An attempt has been made during the preparation of the above documents to avoid duplication. Therefore, this permit application refers to information provided in the above documents whenever possible.

The HCWPA has been prepared based on engineering and other environmental studies as they relate to the design, operation, closure and post-operational care and maintenance of the Crandon Project facilities. The material presented in this application is indicative of the type and size of facilities to be constructed and operated as part of the Crandon Project. During final design it is likely that some modification in the engineering and operational details of the facilities and systems will occur. The HCWPA is intended to be self-contained; but, some cross-referencing to the other documents is necessary.

The HCWPA is organized into five sections. The first section is the Introduction. Section 2 contains a general description of the main elements of the Crandon Project. Section 3 contains the detailed information concerning the groundwater withdrawal activities specifically related to the HCWPA for the Crandon Project. Section 4 contains the description of measures NMC will implement to mitigate effects of groundwater withdrawal required for the Crandon Project. Section 5 contains the list of references supporting the HCWPA report.

1.1 Background

The Crandon deposit was discovered in the mid-1970s using airborne geophysical techniques and exploratory drilling. The deposit is located approximately 5 miles south of Crandon, Wisconsin. Its size and quality of mineralization has been determined by core holes drilled from the surface.

In 1978, Exxon Minerals Company (EMC) submitted to the Wisconsin Department of Natural Resources (WDNR) a Notification of Intent (NOI) to collect data to support a mining permit application for its Crandon zinc and copper deposit. During the mid-1980s, EMC or its successor company submitted the following major documents or applications to the Wisconsin Department of Natural Resources: an Environmental Impact Report (EIR), a Mine Waste Disposal Facility Feasibility Report, a Mine Permit Application, an Air Permit Application, a Wisconsin Pollutant Discharge Elimination System Permit Application, a High Capacity Well Approval Application, a Mine Refuse Disposal Facility Feasibility Report, Chapter 30 and 31 permit applications, and supporting documents. Additional permit applications and plan approvals were submitted by EMC to the Wisconsin Department of Transportation (WisDOT) and local units of government, and to the Public Service Commission of Wisconsin (PSC) by Wisconsin Public Service Corporation (WPSC). In late 1986, the Wisconsin Department of Natural Resources issued a Final Environmental Impact Statement (FEIS) regarding the proposed project. Subsequently, EMC withdrew its permit applications due to depressed metal prices.

In the fall of 1993 the permitting process for the Crandon Project was reinitiated by Crandon Mining Company (CMC), a partnership comprising two subsidiaries of Exxon Corporation and two subsidiaries of Rio Algom Limited. Additional data were collected and all of the required documentation was again submitted to the WDNR and the USCOE. In 1998 the Exxon subsidiaries withdrew and the partnership changed its name to Nicolet Minerals Company (NMC). NMC continues the permitting and development of the Crandon Project.

As described in greater detail in Section 2 of this document, the deposit will be mined and reclaimed in a similar fashion to that proposed in the 1980s, with the primary difference being that the production rate will be reduced to 5,500 TPD. The current project has also been modified to meet or be better than current day environmental standards and to incorporate design changes to improve environmental protection.

In October 1995 CMC issued a HCWPA for the planned Crandon Project. On July 23, 1996 the WDNR issued a comment letter on the application (WDNR, 1996). On January 2, 1997, a response (Moe, 1997) to the WDNR was issued. Pertinent portions of the January 2, 1997, response have been incorporated into applicable sections of this document and its appendices.

2 General Project Description

The main elements of the Crandon Project consist of an underground mine; ore concentrating facilities; wastewater treatment facilities; a tailings management area; a soil absorption system; a surface water mitigation system; and ancillary facilities such as an access road, a railroad spur line, and other service and support facilities. An extensive description of the project is included in the *Mine Permit Application* (Foth & Van Dyke, 1995/1998a). Following is a brief overview describing the entire project. The overview discusses the location of the mining facilities, the geology of the ore body, the mining process, and the major project components which will be developed to operate and reclaim the proposed project in a manner which protects public health, safety, and the environment. The project location and features are shown on Figure 2-1.

The anticipated rate of production, project life, and projected employment requirements for the project are shown in Table 2-1. As with any industrial operation, the life of the facility could change based on economic conditions.

Table 2-1

Anticipated Production and Operation Data

Average Daily Ore Production	5,500 tons
Annual Ore Production	2,000,000 tons
Total Ore Production	55,000,000 tons
Total Estimated Project Life	35 years
Pre-production	3 years
Mining	28 years
Reclamation	4 years
Production Schedule	7 days/week
Employment (estimates)	
Construction (Peak)	750
Operations	402-526

Prepared by: PAE
Checked by: JWS

Within this section there are numerous references to the "project area", "mine site", "plant site", "soil absorption system", and the "tailings management area". These terms have specific meanings as follows:

- Project Area - The project area is defined by the boundaries delineated on Figure 2-2.

- Mine Site - The mine site is defined by the limits of disturbance of project facilities within the project area.

- Plant Site - The plant site is generally defined as the area within the mine site that includes all mining, concentrating, wastewater treatment, administrative offices, and storage facilities; portions of the railroad spur in the vicinity of the plant site; portions of the access road in the vicinity of the plant site; and the project's water supply well and its accompanying pipeline corridor. The plant site also includes all surface water runoff and storage basins constructed in its vicinity.

- Soil Absorption System (SAS) - The "SAS" is defined as the area within the "mine site" that includes the project's soil absorption cells and treated wastewater discharge pipeline.

- Tailings Management Area (TMA) - The "TMA" is defined as the area within the "mine site" that includes the project's three tailings cells, the reclaim pond, the tailings and reclaim water pipeline and access road corridors, and contiguous borrow and storage areas. The TMA also includes the surface water control facilities constructed in its vicinity.

In addition, the project's wetland compensation site is located outside of the project area in Shawano and Oconto Counties. Design information for the soil absorption system is included as part of the wastewater treatment system engineering report prepared pursuant to Wisconsin Administrative Codes. Design information relative to the wetland compensation site is included as part of the Federal Clean Water Act Section 404 permit application. For completeness, the description of the environmental aspects associated with these areas are included in the project's *Environmental Impact Report*.

The boundaries of the project area, plant site, TMA, and the SAS are shown on Figure 2-2. The estimated area of disturbance for the plant site, TMA, and SAS are 116, 282, and 90 acres, respectively. The total area of disturbance, including the access road, railroad spur, surface water mitigation system, and other facilities, is approximately 564 acres.

2.1 Site Location

The Crandon ore body is located in Forest County, Wisconsin. The civil land survey location is Section 25, Township 35 North, Range 12 East, Town of Nashville, and Section 30, Township 35 North, Range 13 East, Town of Lincoln. The project area is located 5 miles south of the City of Crandon, and approximately 2 miles east of both STH 55 and the Sokoagan Chippewa Indian Reservation. The plant site is approximately ¼ mile north of Little Sand Lake and 1 mile south of Swamp Creek. The plant site will be located north of the ore body. The proposed plant site layout is shown in Figure 2-3. Access to the plant site will be along a new access road from STH 55 northwest of the site. A railroad spur line serving the plant site will be connected northeasterly to the existing Wisconsin Central Limited Railroad. The project's TMA will be

located approximately 1 mile southeast of the plant site. The project's SAS will be located approximately 2 miles to the northeast of the plant site on land immediately north of Keith Siding Road.

The project area shown in Figure 2-2 includes portions of property which Nicolet Minerals Company has purchased, leased, optioned for purchase, or obtained by easements for use in the development of the plant site, TMA, SAS, access roads, railroad spur line, and buffer areas. The project area excludes publicly-owned land and roads.

2.2 Geology

The Crandon deposit is composed of two distinct mineralization types, zinc ore and copper ore. The minerals were deposited during the Precambrian era, about 900 to 2,500 million years ago. The deposit was formed at and just below the ocean floor by mineral-bearing fluids of volcanic origin. Some of the materials deposited by this volcanic system were sulfide minerals which accumulated in low spots on the ocean floor. Continued accumulation of other volcanic materials and sediments occurred which buried the sulfide deposit. Deep burial, 33,000 to 50,000 feet, resulted in lithification and metamorphism which hardened and solidified both the host rock and the sulfide deposit over time. Later, a mountain building phase occurred in the region, tilting the volcanic layers and the deposit to a near vertical position. Thereafter, the deposit may have been covered by younger sediments; however, weathering and erosion have removed these later rocks. The more recent geological process which has affected the deposit is related to Pleistocene glaciation which left the bedrock buried under unconsolidated glacial overburden deposits.

The Crandon ore body is long and tabular with an average width of 100 feet, north-south, and a strike length of 4,900 feet, east-west. Based on the results of drilling, the ore body extends to an approximate depth of 2,200 feet. The interpreted geologic stratigraphy and ore body configuration are shown on Figures 2-4 and 2-5, respectively.

The bedrock in the hanging wall and in the footwall of the ore body consists of a series of fragmental volcanic rocks, fine tuffs (solidified volcanic ash), debris flow (ocean floor and volcanic-derived sediments), breccia (blocky, angular particles), lapilli tuffs (gravel sized volcanic material), and flows. Overlying the bedrock is a sequence of unconsolidated glacial sands, clays, and gravels. The rock in contact with the unconsolidated glacial overburden is weathered to varying degrees. The amount of weathering ranges from simple staining to extreme weathering near the surface which reduced the rock to a clay-like material called massive saprolite. The glacial overburden consists of interbedded and co-mingled glacial till, which is material deposited directly by the glacier, and glacial outwash deposited by streams emanating from the glacier. These glacial deposits are found in various thicknesses in the area ranging from 75 feet to over 250 feet thick.

2.3 Key Project Elements

2.3.1 Mine Development

Access to the mine will be through a main production/service shaft located north of the ore body. The first of two ventilation shafts will be located east of this main production shaft. Underground lateral development drifts will access the ore body at 200-foot vertical intervals. These level development drifts are designed to provide access to the ore body. The lateral extent of a mine level at a given point in time will depend upon the need for access to mining blocks, ore passes, and ventilation raises. A typical schematic longitudinal section showing typical mine level intervals and the initial stoping areas of the mine is shown on Figure 2-6.

An underground ramp will also connect some of the 200-foot spaced levels and the 400-foot spaced main shaft stations to allow for movement of mobile equipment, supplies, and personnel throughout the mine. This centrally-located ramp is also shown schematically on Figure 2-6.

Mine development will be divided into the following phases:

1. Site preparation and the sinking of the main production shaft and the east ventilation shaft, and construction of a grouting drift at the top of the ore body and installation of a grout blanket to reduce groundwater inflow to the mine. This phase is expected to take 19 months to complete.

2. The development of the underground ore handling and crushing system, lateral development into the ore horizons, and development of the initial mining blocks (stopes). An internal mobile equipment access ramp will connect the main production ore levels. This phase of mine development is expected to take about 18 months to complete.

As shown on Figure 2-6, mine development and production will begin in areas chosen to avoid weathered bedrock which are expected to be the primary conduits for water inflow into the mine workings.

2.3.1.1 Phase I Development

Phase I development primarily includes simultaneous construction of two vertical shafts in the hanging wall rocks. Each shaft will be concrete lined through the overburden and the weathered subcrop rock. Collar construction through the glacial overburden will include stabilization and hydraulic control by ground freezing or other suitable techniques, followed by the excavation and concrete lining of the shaft into bedrock. As required, inert grout will be pumped under pressure through holes in the collar into the rock to provide a watertight seal. When the collar section of the main shaft and east ventilation shaft are completed, a headframe structure will be erected over each shaft. Conventional shaft sinking by drilling and blasting techniques will then commence at the main shaft and the east shaft concurrently.

During shaft development, it is estimated that the drainage water from each shaft sinking will be controlled to less than 10 gallons per minute (gpm) by freezing and/or grouting. All shaft water will be pumped to the surface water storage ponds.

To control mine water inflow over the underground development and operating period, a grouting drift at the 260-foot mining level will be constructed below the crown pillar in the Crandon Formation parallel to the strike of the ore body. This drift will progress westerly from the East Ventilation Shaft. A 25-foot thick cement grout blanket will be constructed at and above the 250-foot mine level by fan drilling in a vertical and horizontal plane from the grouting drift. Primary grouting holes will be spaced at 20-foot intervals, while secondary and tertiary holes may be drilled between these primary grout holes.

2.3.1.2 Phase II Development

Because the east ventilation shaft is smaller than the main production shaft, it will be completed sooner. Upon its completion, horizontal level development, consisting of driving a horizontal opening in the hanging wall rock to connect the east shaft to the main shaft (Figure 2-6), will be initiated. After the two shafts are connected, level development can commence to access the ore body.

The underground ore handling facilities will be constructed near the main production shaft during this period. These facilities will consist of: (a) coarse ore and waste rock storage bins; (b) crusher facilities; (c) ore and waste handling systems; and (d) a loadout facility.

2.3.2 Mine Operations

Level development to the stoping areas will be driven at 200-foot vertical intervals. The primary mining method will be blasthole open stoping with delayed backfill. However, other mechanized mining methods, such as cut-and-fill, will also be used. Stopes (Figure 2-7) will average approximately 200 feet high by 75 feet along the strike, and will vary with the width of the ore body. Ore will be drilled in a stoping block, then blasted and removed. Top hammer or down-the-hole drills will be used to drill blastholes on approximately 10-foot by 12-foot center spacing for production stope blasting. Broken ore will be removed from the drawpoints at the bottom of each stope using mechanized mining equipment which will then transfer the ore to the crushing level below by means of ore pass raises. Primary crushed ore, at a top size of 8 inches, will be conveyed to a skip loading pocket and hoisted to the surface.

A typical stope will contain approximately 170,000 tons of ore. At a 2,000,000-ton annual production rate, approximately 12 stopes will be mined out each year, which exposes less than 5 percent of the footwall and hanging wall area of the ore body at any one time. Exact production parameters will be based on the grade of the ore in the mined stope; the mechanical characteristics of the rock in the stoping block, and the potential for inflow of water.

A permanent bridge, or crown pillar, of bedrock directly beneath the glacial overburden will be purposely excluded from mining activity. This bedrock barrier of a minimum of 100 feet thick, along with the routine backfilling of mined-out stopes, will maintain surface stability and prevent subsidence.

In the uppermost mine levels where the ore and host rock may have been moderately weakened by surficial weathering, mechanized cut-and-fill mining will be employed. This method is commonly used by the industry and involves removal of horizontal lifts of ore of variable thicknesses. The void created by each horizontal mining pass will be backfilled with cemented paste tailings prior to mining the next upper lift. Less than 10 percent of the ore body will require use of this mining method.

To provide support for the rock walls, a floor for subsequent mucking, and back support for pillar mining, the planned mining methods provide for backfilling all stopes with pyritic paste tailings following ore extraction. These practices, combined with the fact that 5 to 10 percent of the potentially minable ore will be left in place as pillars throughout the mine, will provide perpetual stability of the mine area bedrock and glacial overburden. Backfilling will also result in the reduction of pathways for water migration as mining progresses.

Major advances have been made in backfill technology in the past 10 years. These advances will allow the placement of whole tailings in the project's mined-out stopes as a cemented pyritic paste backfill. The whole tailings will consist of pyrite concentrate produced at the mill from a pyrite flotation process. The pyrite concentrate will be dewatered and the resulting paste will be mixed with cement. The pyritic paste backfill will then be transported underground at a density of about 84 percent solids for placement in mined-out stopes. Hydration of the cement, which will be added to the paste at a rate ranging from 1 to 5 percent by weight, will consume the water delivered with the fill, thereby reducing backfill drainage to negligible quantities (i.e., <1 percent). It is estimated that the mined-out stopes will accommodate 75 percent of the total tailings produced by the project.

The very low drainage water flow from the pyritic paste backfill will minimize stope preparation requirements. Timber and shotcrete bulkheads will be constructed as ventilation barriers after the depletion of a stope. Once bulkhead construction has been completed in a given stope, backfilling can commence.

Waste rock will be generated from mine development activities during the pre-production and operating phases of mining. Waste rock generated during pre-production, prior to construction of the first TMA cell, will be hoisted to the surface and temporarily stockpiled on a lined pad at the plant site. The stockpiled waste rock will be used later for construction inside of the TMA as riprap, as the grading layer beneath the final cover system, or placed in the TMA as general fill. Waste rock which is generated during the operating phase and after construction of the first TMA cell will be transported directly to the TMA.

2.3.3 Mine Dewatering and Groundwater Inflow Control

Groundwater inflow will vary during the different stages of mine construction and operation. The proposed mining plan for the Crandon Project avoids entry into weathered zones during the initial operations, therefore deferring maximum and steady state inflow rates. During the initial operations, groundwater inflow is expected to be minimal and localized, occurring through isolated bedrock fractures that have limited capacity to move water. During the pre-production and mining phases, a grouting drift (Figure 2-8) will be developed in the Crandon Formation below the crown pillar at the 260-foot mine level. As mine development progresses along the drift, conical drilling techniques will be used to advance a 25-foot thick horizontal grout blanket. The grout blanket will be keyed into the moderately weathered bedrock and will serve to control inflow of groundwater to the mine.

Groundwater seepage that is not controlled by grouting will infiltrate the mine workings and ultimately be recovered in the main sumps along with mine utility water and very small amounts of backfill drainage.

Normal mine drainage collection will begin on each mine level where groundwater seepage and utility water drainage will be ditched to small local sumps. Decant water from the local mine level sumps will be piped or drained through boreholes or ditched to the main mine sumps located adjacent to the production shaft.

The main mine sumps and pump station will generally be arranged as indicated on Figure 2-9. Sumps will consist of downgrade excavations in the wall rock adjacent to the pump station. These will function as pumping reservoirs with an outlet end bulkhead containing the pump suction pipes.

2.3.4 Ore Processing

Ore mined from the Crandon deposit will be physically concentrated at the plant site by adding water to the crushed ore and grinding it to the size of fine sand particles. After grinding, the ore slurry will be pumped to a series of flotation circuits where reagents will be added for separating metallic minerals from the ground-up ore. During this process, minerals will be selectively "floated" to the top of the flotation cells and removed. A pyrite separation circuit will also be included to produce pyritic tailings to be used for underground pyritic paste backfill purposes. The remaining depyritized material, which is called depyritized tailings, will be pumped to the TMA. Different flotation circuits require different reagents to concentrate specific individual minerals. A schematic of the ore processing circuits is shown on Figure 2-10. Separate concentrates of zinc, copper and lead minerals will be recovered by the flotation process. The concentrate from these processes will be thickened and filtered to an 8 percent moisture content.

The tailings will range in size from sand to very fine particles. The whole pyrite tailings from the separation circuits will be used to backfill the mined-out stopes. The depyritized fraction will be sent to the TMA.

In the TMA, the tailings will settle to the bottom of the lined basin. Excess water will then be pumped from the TMA basin to a reclaim pond for reuse in the ore processing facility. The ore concentration process, TMA, and reclaim pond are designed to operate as a closed circuit. The concentration process normally requires the continuous addition of "makeup" water. Water in this circuit will not require treatment because a discharge will not normally take place. The wastewater treatment system will be designed to treat tailings pond waters for discharge, if necessary.

2.4 Infrastructure

2.4.1 Wastewater Treatment

A wastewater treatment plant will be constructed as part of project facilities. It will treat mine water and, if needed, process water prior to discharge. Groundwater that enters the mine will be commingled with other mine drainage water, such as the water used for flushing while drilling the blast holes. All of these "contact waters" will be routed through the wastewater treatment plant.

The wastewater treatment plant will include primary and advanced treatment processes. The primary treatment process will include lime and sulfide precipitation with filtration and pH adjustment. Advanced treatment will be used as required to meet water quality discharge limits. A reverse osmosis (RO) system will provide advanced treatment of primary treatment system effluent. High quality effluent from the RO system will be pumped to the discharge holding ponds. Reject wastewater from the RO system will be further concentrated in an evaporator. High quality evaporator distillate water will be either pumped to the discharge holding ponds or to the mitigation storage tanks. Concentrated brine from the evaporator will be pumped to the pyritic paste backfill system for placement underground. Treatment solids from the primary treatment system will be placed along with the depyritized tailings in the TMA. Mine water will be treated and sampled to meet Wisconsin Department of Natural Resources Water Quality Standards before being discharged to groundwater by way of a soil absorption system.

Where required, wastewater treatment plant evaporator distillate will be used for mitigation of nearby lakes impacted by groundwater drawdown associated with mine dewatering activities. Groundwater provided from a small water well will be used for mitigating creeks. A detailed analysis of mitigation requirements is available in the *Crandon Project Surface Water Mitigation Plan* (Foth & Van Dyke, 1998a).

The treatment system is designed with two holding ponds to retain the treated water so it can be sampled prior to discharge. This will confirm that all water meets discharge standards prior to discharge.

Sanitary wastewater will also be generated at the facility. Sanitary wastewater will be handled separately through a package sanitary wastewater treatment plant. The treated wastewater from this plant will be pumped to the TMA.

2.4.2 Mining Waste Management

Crandon Project mining wastes will include waste rock, tailings, refuse, wastewater treatment plant solids, and laboratory wastes.

As discussed in Section 2.4.3 below, waste rock which is generated during pre-production will be hoisted to the surface and temporarily stockpiled. It will later be used for construction purposes within the TMA containment areas, or as general fill in that facility. Waste rock which is hoisted to the surface during operation will be transported directly to containment areas within the TMA to be used as riprap or as general fill. As discussed in Section 2.4.4 below, during the zinc mining phase, approximately 75 percent of the tailings generated by the project will be returned to the mine as backfill, with the remaining 25 percent placed in the TMA.

During mining operations, on-site laboratories will be used to conduct metallurgical testing for mining grade control and for production quality assurance testing related to milling operations. Wastes generated from the performance of these tests will be placed in the TMA. Approximately 900 cubic yards of general refuse such as office wastes will be generated at the facility each year during the 35 years of construction, operation, and reclamation. The reclaimable portion of this waste will be recycled in accordance with state law. The remaining waste materials will be disposed of by a contractor in an approved off-site landfill.

Solids will be generated from the primary treatment of project generated wastewaters. These solids will be placed in the TMA with the tailings. Brine generated from advanced treatment of project generated wastewaters will be placed underground with the pyritic paste backfill.

2.4.3 Pre-Production Ore/Waste Rock Storage Areas

As shown in Figure 2-3, a lined pre-production ore storage area will be located to the north of the main production shaft to stockpile pre-production ore and waste rock hoisted to the surface during development of the mine. Prior to the commencement of underground crushing and the start of mill operations, approximately 1.24 million tons of ore and waste rock of a maximum size of 24 inches will be hoisted and temporarily stockpiled on this lined area. An unlined construction storage area is to be located adjacent to and east of the ore/waste rock storage area (Figure 2-3). This area will be used for various construction staging activities. This unlined area may also be used to temporarily stockpile waste rock which is tested and shown to have very low potential to generate acidic runoff.

Within the land area, a ridge will divide the pre-production ore from the waste rock stockpile on a north-south line. Each side of the lined pad will slope away from the center. The pad will be bounded by berms with runoff collection ditches which will route water to a lined water storage basin. The base of the pre-production ore storage area will consist of a composite liner system having a geomembrane overlying a geosynthetic clay liner. A protective soil layer will be placed over the geomembrane. Once ore or waste rock is placed on the storage pad surface, water from the area will be drained to a wastewater storage basin. The wastewater storage basin and

delivery system will be sized to hold the volume of water from a 100-year, 24-hour storm event. Water from this basin will be either pumped to the TMA for use in ore processing or to the project's wastewater treatment plant.

The base of the construction material storage area will consist of a compacted layer of existing on-site soil. The base will be sloped to drain toward a surface water runoff basin. Water from this basin will be discharged to natural site drainageways.

2.4.4 Tailings Management Area

Depyritized tailings, hoisted waste rock, wastewater treatment plant solids, and a small amount of laboratory wastes will be placed in the TMA. The TMA has been designed to provide long-term, environmentally-safe containment. Low sulfide tailings and treatment plant solids will be pumped to the TMA through a high density polyethylene (HDPE) pipeline. Waste rock will be transported to the TMA by truck.

As shown on Figures 2-11 and 2-12, the TMA will consist of three cells, each of which will consist of a composite liner at the base and along the sidewalls of the facility and will include a leachate collection system. The three cells, referred to as TMA 1, TMA 2, and TMA 3, will each be constructed and operated sequentially in two stages. An internal berm will be constructed to separate TMA 1A and TMA 1B. TMA 1 is designed to contain the depyritized tailings from processing the zinc ore. TMA 2 and TMA 3 will be used for the copper ore depyritized tailings. The approximate capacities and site lives for each cell are shown in Table 2-2.

Table 2-2

Approximate Tailings Management Area Capacity

TMA Cell	Capacity (in millions of cubic yards)	Approximate Site Life (years)
TMA 1	6	16
TMA 2	4	6
TMA 3	4	6
Total	14	28

Prepared by: SAD2
Checked by: JWS

TMA cell development and operation will first involve constructing and filling TMA 1A. As the tailings in TMA 1A approach the design elevation, TMA 1B will be built. As the tailings approach the design elevation of TMA 1B, the second stage of TMA 1 will be built. When approximately 1 to 2 years of capacity remain in the second stage of TMA 1, construction of the first stage of TMA 2 will begin. After consolidation, reclamation of TMA 1 will begin, while

filling in the first stage of TMA 2 progresses. The same process will continue for the second stage of TMA 2 and for TMA 3.

The tailings slurry will be transported from the concentrator building to the TMA through an approximate 16-inch inside diameter HDPE aboveground pipeline. The location of the pipeline is shown on Figure 2-2. The pipeline will lie above ground in a lined ditch. A 22-foot wide access road will be located next to the pipeline for service and maintenance. Pumps used for pumping the tailings slurry in the pipe will be located in the concentrator building. The pipeline ditch will be sloped to lined sumps located at the plant site and approximately midway between the plant site and the TMA to collect tailings and water in the event of leakage or to provide storage if the pipe must be drained.

The tailings slurry will be deposited in the active TMA cell using spigots. The spigot discharge point(s) will be regularly moved around the inner perimeter of the active cell to facilitate even distribution of tailings and to keep the tailings saturated. The excess water that drains from the slurry after the tailings have settled will flow to an area in the center of the cell and will be pumped to the reclaim pond. Water in the reclaim pond will be retained for a short time and then pumped to the mill for reuse in the process circuit. The tailings operating system is designed to maximize tailings density.

The TMA cells have been designed to meet the standards contained in applicable State Statutes and administrative codes which are written to protect the public health and welfare. Key TMA design features include:

- An average 37-foot separation from the base of the TMA to groundwater.
- A minimum 1,250-foot separation from the nearest lake or stream.
- A composite liner consisting of a low-permeability soil member and a geomembrane liner.
- A leachate collection system over the bottom of each cell and extending up the interior sidewalls of each cell.
- A reclaimed final composite cover consisting of the following components from top to bottom.
  - topsoil
  - rooting layer
  - biotic layer
  - drainage layer
  - cushioning geotextile
  - geomembrane (60 mil HDPE) liner
  - geosynthetic clay liner (GCL)
  - low permeability (P40) soil layer
  - grading layer

- Surface water control structures designed to accommodate a 100-year, 24-hour storm event.

2.4.5 Access Roads

A site access road will be constructed from STH 55 to the plant site. A second access road will be constructed from the plant site to the TMA. The site access road will be approximately 3 miles long and consist of bituminous concrete with gravel shoulders. The TMA access road will be approximately 1 mile long and will be gravel-surfaced. Pipelines for tailings and reclaim water transport will be sited adjacent to the TMA access road in a lined ditch.

2.4.6 Railroad Spur

A 2.7-mile railroad spur line will be constructed from the plant site to the Wisconsin Central Limited Railroad located to the northeast. The spur line will consist of a single track along most of its corridor. A side track will be located near the point where the spur line connects with the main railroad line. The sidetrack will be used for switching and rail car staging. The spur line will be used to bring cement, lime and other materials to the plant, and to ship concentrates to market. Concentrate will be shipped in enclosed cars or containers.

2.4.7 Utilities

Electrical service to the project site will be provided by Wisconsin Public Service Corporation (WPSC) via an electric transmission line constructed between an existing substation near Monico, Wisconsin, and a new substation to be located at the plant site. The substation near Monico will be upgraded by WPSC as part of the extension of electrical power for the project.

The WPSC area distribution system, which will likely be located near the south end of Lake Metonga, will supply natural gas for the project via a pipeline installed to the plant site. The pipeline route will follow existing county roads, cross Swamp Creek north of the plant site, and then follow the main plant access road into the site.

2.4.8 Soil Absorption System

An in-ground soil absorption system will be constructed to provide for groundwater discharge of treated mine water from the advanced wastewater treatment system. The soil absorption system will be located approximately 2 miles to the northeast of the plant site. A multiple cell, pressure distribution system will be used. A treated water discharge pipeline will be constructed primarily within the railroad spur line corridor from the treated water discharge lagoons to the soil absorption system. The location of the pipeline and the soil absorption system is shown on Figure 2-13.

2.4.9 Other Facilities

In addition to the project elements discussed above, other site facilities as listed below will be constructed and used as part of the project:

Administrative offices
Changehouse facilities
Explosive storage areas
Gate house
Core logging and storage
Covered storage area
Truck weigh scale
Fencing
On-site roads
Area lighting
Laboratory facilities
Surface maintenance shops
Potable water supply and distribution system
Fire protection systems
Lubricant storage
Bulk fuel storage
Lay-down areas
Railroad weigh scale
Mobile equipment fuel station
Parking areas
Material storage areas

2.4.10 Surface Water Controls

Precipitation falling within the limits of the plant site will be collected and directed to one of a number of water storage basins. Contact runoff will be directed to the wastewater treatment plant or to the TMA. Non-contact runoff will be directed to existing natural drainage features after passing through runoff basins. Precipitation falling within the TMA will co-mingle with process water and become part of the water used in the mill circuit. Some of the surface water drainage originating from outside the active mining area will be intercepted by a series of drainage swales and directed to existing natural drainage features.

2.4.11 Wetland Compensation

Although mine facilities have been designed to minimize impacts on wetlands, as part of project construction activities, approximately 26.7 acres of wetlands will be either excavated or filled. To compensate, NMC will develop replacement wetlands on a site located in Shawano and Oconto Counties. The selected site is in an area that was originally wetlands, but was converted to cropland. The establishment of the compensation site involves reconverting it from cropland back to wetlands.

2.4.12 Surface Water Mitigation

Potential impacts due to mining on nearby lakes and streams were assessed by a regional groundwater flow model. A mitigation framework was developed from an assessment of these potential impacts. The framework consists of a hierarchial system of classifying streams and lakes based on the degree of potential impact. A Level I water body will require the construction of a mitigation facility prior to commencement of mining, while a Level II water body will require that detailed engineering work be completed as part of project permitting, such that the mitigation system could be installed quickly if a need were to arise. Level III and IV water

bodies would require proportionally less planning since the potential for impacts would be appreciably less.

2.4.13 Mine Reclamation

Topsoil will be salvaged from disturbed areas for use in reclamation activities. Reclamation of the mining site will occur on an ongoing basis during construction and operation, and at the final phase of the project. After mining, the area will be used for forestry and as open green space. During construction, disturbed soil areas will be revegetated on a continual basis such that wind and water erosion potential is significantly reduced. These areas will either be temporarily reclaimed or finally reclaimed depending upon their location relative to future construction activities.

Final reclamation of the plant site will begin after completion of mining. All open boreholes will be sealed in compliance with applicable regulations. Salvageable equipment from the mine will be brought to surface. Any equipment left underground will have potentially harmful fluids removed. The shafts to the mine will be sealed with reinforced concrete plugs. Surface facilities may be converted to other uses, if possible. If other uses are not feasible, these facilities will be removed. The site area will be regraded and revegetated. Settling basins and ponds will be drained and the area reclaimed. Containment structures will be removed. Disturbed areas will be regraded and revegetated. The TMA will be reclaimed in phases during its lifetime. Final closure of the last cell of the TMA will occur late in the sequence of project reclamation.

The wastewater treatment plant and associated pipelines will be removed after they are no longer required. Salvageable equipment will be transported off-site. Treatment solids will be placed in the TMA prior to closure of the final cell or disposed of in an approved landfill after the TMA has been closed. Buried segments of pipelines will be flushed, the ends capped, and the pipeline left in place. Above-grade pipelines will be removed. The wastewater treatment plant area and pipeline routes will be graded and revegetated.

The soil absorption system will be reclaimed after there is no further need to discharge treated wastewater. The ends of the piping to the soil absorption system will be capped and the pipeline will be left in place.

On-site roads, the plant site access road, and the railroad spur line will be among the last items to be reclaimed. Reclamation of these features would be dependent upon the final site use. If no future use is anticipated, the construction materials will be removed. Bituminous pavement will be salvaged for use elsewhere, if possible, or placed in an approved disposal facility. Rail will be salvaged. The areas will be regraded and revegetated.

Utilities that service other customers along the route to the plant site will be left in place. The portion of the utilities that extend onto the plant site will be removed if above ground, or remain in service depending upon the final use of the site. Below-ground piping will be flushed as required, capped and left in place, if no longer in service.

3 Required Information

3.1 Introduction

The HCWPA has been prepared in accordance with the applicable sections of Chapter NR 812, Wis. Admin. Code, as it pertains to groundwater withdrawal activities. Extensive hydrologic work at the proposed Crandon Project site has included in situ hydraulic conductivity testing, a long-term pump test to define the relationship between the site bedrock and glacial overburden, and the development of a computerized model to predict the effect of the proposed mining operation on surface and groundwater resources. Investigations, studies, and significant research have been conducted for the project's *Environmental Impact Report* (EIR) (Foth & Van Dyke, 1995/1998b) and permit applications and provide the basis for the hydrologic information used to support the HCWPA.

3.1.1 Water Use and Withdrawal

The development and operation of the proposed Crandon Project will require the managed withdrawal of groundwater flowing into the mine and the withdrawal of sufficient groundwater from wells, yet to be installed, for potable and non-potable water supply, and for mitigation of surface water bodies. A potable well will be needed for domestic and sanitary use at the mine facilities. One non-potable well will be needed for construction activities associated with the TMA. A second non-potable well will be needed to supply water for mitigating hard water body stream flows, as detailed in the *Crandon Project Surface Water Mitigation Plan* (Foth & Van Dyke, 1998a). The project facilities, including the location of the mine and the three proposed wells, are shown on Figure 3-1.

In addition to the groundwater withdrawal directly associated with mining operations, a number of existing private domestic wells are located in the vicinity of the mine site. These wells also withdraw water from the unconsolidated glacial formations overlying the bedrock.

3.1.2 General Information

The owner of the proposed project is Nicolet Minerals Company, 7 North Brown Street, 3rd Floor, Rhinelander, Wisconsin 54501-3161. Donald A. Cumming, President, at (715) 365-1450, is the contact person for Nicolet Minerals Company. Nicolet Minerals Company will own and operate the mine and all wells associated with the project. Property ownership information within the project area is presented in detail within the project's *Mine Permit Application* (MPA) (Foth & Van Dyke, 1995/1998a).

3.2 Mine Hydrology

A complete and detailed description of the geologic and hydrogeologic setting of the Crandon Project site and the area over and immediately adjacent to the mine is presented in the Geology and Groundwater Sections of the project's EIR (Foth & Van Dyke, 1995/1998b). The pertinent

findings relevant to the HCWPA are highlighted below. Also, a description of mine development and dewatering and groundwater inflow control is included in Sections 2.3.1, 2.3.2, and 2.3.3 above.

The ore body is located between Little Sand Lake and Swamp Creek (Figure 3-1). The ore body is within bedrock. The upper portion of the bedrock surface and ore body is a saprolite layer of variable thickness. The saprolite layer is thickest in the vicinity of the ore body and has been delineated into a lower structured saprolite layer and an upper massive saprolite layer. The structured saprolite preserves the original rock structure but the mass of the rock has been largely altered to clay and iron oxides. The massive saprolite has the same appearance as the structured saprolite except that the original rock structure has been altered as a result of extreme weathering. The boundary between massive and structured saprolite layers may be sharp or sometimes gradational.

The saprolite/bedrock unit is overlain by 75 to 250 feet of glacial deposits. The overburden consists primarily of three glacially derived units. The Pre- to Early Wisconsinan Till directly overlies the saprolite. The till is overlain by glacial outwash which in turn is overlain by Late Wisconsinan Till.

Groundwater flow occurs in the glacial sediments overlying the bedrock and saprolite. The fine- and coarse-grained outwash deposits form the primary aquifer at the site because they are more permeable than all other units and they are regionally continuous. The Late and Pre- to Early Wisconsinan Tills present above and below the outwash, respectively, are less transmissive than the glacial outwash.

Extensive field investigation and testing has been conducted to assess the hydraulic characteristics and properties of the bedrock, saprolite, and overlying glacial materials. During the later part of 1994 and in the summer of 1995, respectively, a pump test and packer testing were performed by NMC to obtain additional data which would provide the basis for accurately estimating mine inflow and its quantitative effect upon the surrounding groundwater and surface water resources.

In 1998, TRC Hydro-Geo Consultants completed a grout testing program to evaluate the feasibility of constructing a grout blanket at the base of the crown pillar. The purpose of the grout blanket is to reduce groundwater seepage from the glacial overburden into the mine. A report (TRC Hydro-Geo, 1998) describing the work can be found in EIR Appendix 4.2-3.

3.2.1 Regional Drawdown

As a part of the site investigation and evaluation, a predictive regional groundwater flow model was developed to simulate the effects of mine dewatering upon groundwater and surface water in the vicinity of the proposed mining operations. The model has been calibrated to reflect real-time data measured at the Crandon Project site. Three conditions evaluated for mine inflow include a low range estimate, a best engineering judgment (BEJ) estimate, and a practical worst

case (PWC) estimate. The BEJ case represents the conditions which are most likely to occur. To be conservative, the PWC case has been used to evaluate drawdown conditions presented for this HCWPA.

The results of the modeling work are presented in the project's groundwater modeling reports prepared by HSI GeoTrans, Inc. These reports are discussed in Section 4.2.5 of the project's EIR (Foth & Van Dyke, 1995/1998b) and reproduced in their entirety in Appendix 4.2-3 of the EIR. The operation of the potable well has been incorporated into the regional model. The results of the BEJ flow simulation indicate that mine inflow at steady state will be approximately 450 gpm during zinc mining and 250 gpm during copper mining. For PWC conditions, the steady state mine inflow is estimated to be approximately 775 gpm during zinc mining and 595 gpm during copper mining. The regional drawdown contours for the PWC scenario during zinc mining are shown on Figure 3-2. The predominant source of groundwater inflow will be the overlying glacial overburden.

As shown on Figure 3-2, the model also indicates that the greatest drawdown will occur directly over the ore body. The PWC 10-foot drawdown contour extends approximately 1,600 feet outward from the ore body in the north-south direction. The 10-foot drawdown contour extends underneath the extreme northern portion of Little Sand Lake. The PWC 2-foot drawdown contour, which is the smallest change that can be typically distinguished from natural variations in water levels, extends outward approximately 8,000 feet from the center of the ore body to the west and south and approximately 5,800 feet to the north and 10,000 feet to the east.

Flow directions and water elevations are predicted to be unaffected at a distance from the ore body of about 4,000 feet in a north-south direction, 8,000 feet in an easterly direction, and 1,000 feet in a westerly direction.

3.2.2 Monitoring Mine Inflow

As referenced in Section 7 of the project's *Mine Permit Application* (Foth & Van Dyke, 1995/1998a), the volume of water pumped from the mine will be recorded. Adjustments will be made to the data base to account for non-inflow water introduced into the mine through stope backfill drainage, mine ventilation condensation, and the supply of potable water.

3.2.3 Alternative Mine Dewatering System

Numerous conservative assumptions have been incorporated into the project's regional groundwater modeling work. Based on these assumptions, the project's water balance for minimum conditions as presented on Figure 6-3 of the *Mine Permit Application* (Foth & Van Dyke, 1995/1998a) shows it is possible that very little discharge (<70 gpm) of treated project wastewaters could occur. It is also possible that actual mining conditions could result in less inflow than the conservative modeling has estimated, even under minimum conditions. In this event, it is possible that the mine inflow rate could be insufficient to meet the water makeup needs for the project's mill. If this condition were to occur, NMC would install a single well or a

series of wells screened in the overburden over the ore body to provide the needed water. Figure 3-3 shows the potential location for two such make-up water wells that could be constructed on either side of the ore body. Details regarding the construction of the wells are shown on Figure 3-4. The capacity of this system would be approximately 200 gpm. Impacts associated with this water development plan, if needed, would be less than those estimated for the BEJ mine inflow case as discussed in Section 4 of the project's EIR (Foth & Van Dyke, 1995/1998b) and as shown on Figure 4.2.7-3 of that document. The initial mine inflow monitoring data would provide advance warning of the need to implement this alternate water supply system. Additional details regarding this system would be provided for review prior to implementation.

3.3 Domestic and Public Water Supply Well Inventory

An inventory of domestic water wells in the vicinity of the proposed mine was conducted in the summer of 1994. This inventory built upon two previous inventories of domestic water wells in the project vicinity. Dames and Moore conducted the first inventory in 1982 (Dames and Moore, 1982) and Northern Lake Service, Inc. (NLS) conducted a second inventory in 1984 (Northern Lake Service, 1984). In response to a July 23, 1996, HCWPA comment letter from the WDNR (WDNR, 1996), additional inventory work was completed. Finally, data on private wells in the vicinity of the proposed soil absorption system was collected in 1998.

3.3.1 1982 and 1984 Inventories

For the 1982 inventory, Dames & Moore developed a system of numbering plats. Each well that was identified was assigned a number corresponding to the number of the plat on which the well was located. The water well inventory resulted in the identification of 42 wells within the inventory area. The information on these wells was obtained from well logs or from personal communication with well owners.

In 1984 NLS conducted an inventory of a 36-square-mile area surrounding the proposed plant site. The numbering system of the Dames & Moore inventory was adopted and the region was divided into four zones. Zone I corresponded to that area which was estimated to experience greater than one meter (3.3 feet) of drawdown from mine dewatering, based on modeling done at the time. Zone I is the shaded region in Figure 3-5. Zones II, III, and IV represented three outer boundary zones and are not shown. Within Zone I, scattered wells were assigned numbers 1 through 99, and wells clustered around Little Sand Lake were assigned numbers between 101 and 199. NLS supplemented the data collected by Dames & Moore with questionnaires to well owners. Owners who did not respond to the questionnaire were contacted by phone or in person. An effort was made to make on-site observations of all shallow-driven wells. Well driller reports provided by the Wisconsin Geologic and Natural History Survey (WGNHS) provided most of the information on drilled wells. Information collection focused primarily on Zone I. Of 54 estimated wells in Zone I, information was collected on 52 wells. In the entire 36-square-mile inventory area, there were estimated to be 318 wells, and information was obtained on 211 of them.

3.3.2 1994 Inventory

The domestic water well inventory conducted in the summer of 1994 retained the numbering system of previous inventories. The inventory focused on Zone I (Figure 3-5) since preliminary results from the regional groundwater model at that time had indicated that the extent of drawdown from mine dewatering would be no greater than that estimated in the 1980s and likely would be less. Previously known wells were identified using the numbers they were assigned in the 1984 NLS inventory. Data from the NLS inventory were updated with a new survey of current landowners and with a new review of WGNHS files to identify new Well Construction Reports submitted since the last collection. Scattered new wells in Zone I were numbered following the 01 to 99 convention. New wells immediately surrounding Little Sand Lake were numbered using the 101 to 199 convention.

The inventory area included sections of both Forest County and Langlade County. Current Forest County Atlases and Plat Books and the current Langlade County Atlas and Plat Book were initially consulted to determine current land ownership. To further update the land ownership data from the plat books, current Forest County treasury files and Langlade County treasury and real property lister files were consulted. From this information, current property owners at that time were identified in the inventory area.

Since the 1984 inventory, many changes in land ownership had occurred. At the time of the survey, approximately 40 percent of the property in the inventory area was owned by or under purchase option or easement to NMC. This property included about 75 percent of the Little Sand Lake area, and a section unit to the immediate east, immediate north, and immediate west of Little Sand Lake. Properties purchased by NMC were not included in the survey because NMC plans to abandon any wells on these plats.

A questionnaire was prepared for mailing to all current landowners within the inventory area. Property owners were placed in one of three categories: existing property owners that participated in the 1984 survey (Original Owners), owners of property not previously surveyed in the area (New Owners), and new owners of property previously surveyed (Transferred Owners). A questionnaire was prepared for Original Owners, and a separate questionnaire was prepared for New Owners/Transferred Owners. A different cover letter was prepared for each of the three groups.

Original Owners were asked to describe any maintenance or changes to their well system since 1984. Maintenance changes referenced on the questionnaire included well replacement, relining the well, deepening the well, and pump replacement. New Owners and Transferred Owners were asked to provide general information about their well such as primary water use, method and date of well installation, pump type, well depth, well diameter, screen length, static water level, water level during pumping, and casing material. All owners were asked to give an opinion of the water quality of their wells in terms of taste, odor, and quantity.

On July 11, 1994, questionnaires and cover letters were mailed to area property owners. On August 1, 1994, all owners who failed to respond to the July 11 questionnaires were mailed a second questionnaire. An attempt was made to contact by telephone each landowner who did not respond to either questionnaire.

In addition to the questionnaires, a review of WGNHS files for Well Construction Reports on properties in the inventory area was requested. Only Well Construction Reports up to 1990 were available. More current reports were still being sorted by WGNHS at the time of request.

Of the 73 wells in the inventory area not owned by NMC, responses were received from 52 owners. Questionnaires were returned by 45 owners, and seven owners were reached by telephone. The remaining 21 landowners were not reached. However, of the 21, no well construction report was on file for 17 of the properties, construction reports were noted for two properties, and one property had a well noted in the 1984 NLS inventory.

Among those landowners reached, 30 wells were identified in the inventory area. Additionally, three wells were identified from Well Construction Reports or from the 1984 NLS inventory on properties belonging to owners who could not be reached. These wells were assumed to still be in operation. Thus, a total of 33 domestic wells were listed in the 1994 inventory. Some of the landowners own several pieces of property in the inventory area. Others own additional properties outside of the inventory area or own properties that extend off the inventory area. When these landowners answered the questionnaire, it was not always clear which specific property their well was located on or even if the well was located in the inventory area.

3.3.3 1996 Inventory

This section presents the results of additional private well inventory work performed in 1996 in the vicinity of the project site to respond to Comments 1 and 2 raised in WDNR (1996).

3.3.3.1 Inventory Update

An approach to address the issues raised in Comment 1was outlined in a September 9, 1996 letter (Moe, 1996) to Mr. Charles Fitzgerald of the WDNR. The approach involved the development of a proposed survey limit larger than that used for 1994 survey work, coupled with a tiered procedure to gather additional information regarding private wells in the area. The limits of the proposed survey area were primarily based on the results of the project's 1996 groundwater modeling work GeoTrans (1996). Figure 3-6 shows a comparison of the limits of the 1994 and subsequent 1996 survey. The 1996 survey limits were established as described below.

For the mine vicinity, the practical worst case groundwater drawdown as presented in GeoTrans (1996) defined the estimated full extent of the potentially affected area based on the 1996 groundwater flow model without consideration of grouting. For that analysis and for the practical worst case groundwater drawdown, the 2-foot contour defined the limit of distinguishable or measurable impacts in the field due to normal seasonable fluctuations in the

groundwater table. It could be argued that a 2-foot drawdown contour is a reasonable boundary for water supply identification, but in an effort to be even more conservative than the conservatism already incorporated into the practical worst case predictions and to respond to WDNR's request, the following boundaries for use in the 1996 mine vicinity water supply inventory were developed.

When reviewing the boundaries discussed below, it is important to note that the 1996 groundwater flow model did not consider the grouting of the crown pillar. An update to the 1996 model (HSI GeoTrans, 1998) that did consider grouting predicted that the BEJ and PWC 1- and 2-foot drawdown contours would be closer to the mine due to reduced mine inflow. NMC has opted not to revise the 1996 domestic water supply inventory to reflect this fact. The 1998 data will be used in Section 4 below to assess potential impacts to domestic wells due to mine inflow.

As shown on Figure 3-6, the western, northern, and northeastern limits of the survey area were defined by Pickerel, Swamp, and Hemlock Creeks, respectively. Pickerel Creek was chosen since it is an internal head dependent discharge boundary for the project's groundwater flow model and since there is no underflow beneath the creek. This boundary condition is supported by field data. Swamp and Hemlock Creeks were chosen since they are treated as internal head dependent discharge boundaries in the flow model. The modeling analysis showed that these two water bodies, which are internal to the flow model, do not decouple as a result of mine inflow. Also, Pickerel Creek does not decouple from the groundwater system. Since these three water bodies are fully penetrating discharge boundaries, measurable groundwater drawdown will not extend beyond them.

The remaining limits of the survey area were defined by drawing a line 1 mile beyond and parallel to the 1996 2-foot practical worst case drawdown contour. The only exception to this was along the northeast shore of Rolling Stone Lake where the boundary was extended beyond the 1-mile distance to include the northeast shoreline of the lake in the survey area.

As shown on Figure 3-6, the practical worst-case 1-foot drawdown contour is entirely included within the 1996 survey limits outlined above. Figure 3-7 has been prepared to illustrate the predicted groundwater table elevations for the practical worst case drawdown condition. A comparison of this figure to Figure 3.6-27 of the project's EIR shows that groundwater flow directions under the practical worst case scenario are not changed except in the immediate vicinity of the mine. This information supported the selected boundaries of the 1996 private well survey area.

The tiered approach used to gather additional survey data in 1996 built off the 1994 work as follows. First, the limits of the 1994 and 1996 survey areas (Figure 3-6) were compared to identify if any wells were located outside the 1994 survey area but inside the 2-foot practical worst case drawdown contour. Based on the approach outlined in the September 9, 1996 letter (Moe, 1996), wells located within the 2-foot drawdown contour that are outside the 1994 survey limits were to be surveyed in 1996 using the same procedures used in 1994. A review of Figure 3-6 shows that the 1996 2-foot practical worst case drawdown contour falls entirely

within the 1994 survey limits, therefore no additional contacts using the 1994 procedures were required for the 1996 work.

In addition to the above, work was completed to gather additional information on properties included in the 1994 domestic water well survey for which a questionnaire was not returned. In order to determine whether groundwater wells exist on these properties a review of Forest County property tax records was performed in 1996. The property tax records review indicated that, with two exceptions, the questionnaires which were not returned in 1994 corresponded to properties with no improvements. Therefore, it is unlikely that groundwater wells exist on these properties. Two properties (Alicia Bradley and R.W. Parker), which did not have returned questionnaires, did list improvements based on the property tax records. The property of Alicia Bradley had no well permits on file and, therefore, likely has no groundwater well on site. The property of R.W. Parker had a well permit issued in 1977. Data was previously obtained on the Parker well from the 1980s well surveys.

In addition to the inventory work within the 1996 2-foot practical worst case groundwater drawdown contour, well construction reports were obtained from the Wisconsin Geological and Natural History Survey (WGNHS) for areas between the 2-foot drawdown contour and the well survey limit shown on Figure 3-6. The number of well logs found within each quarter section (or quarter quarter section where applicable) that were not included in the 1994 inventory are delineated on Figure 3-6. The applicable well constructor's reports obtained from the WGNHS are provided in Appendix A. Since these wells are outside the area of measurable impacts, collected information relates to their general locations and construction. No contacts with owners were completed.

Table 3-1 includes a listing of property owners contacted within the 1994 survey area; identifies the form of contact; identifies if a domestic water well exists on the property; and provides comments based on the data gathering work completed between the original surveys performed in the early 1980s and the work performed in 1996. Table 3-2 differentiates between those wells located between the 1996 2-foot practical worst case drawdown contour and the 1996 survey limits for which contacts were made in 1994 and for which detailed well inventory data exists. Figures 3-6 and 3-8 show the locations of the wells listed in Table 3-2.

Table 3-3 contains a description of additional domestic water wells located between the 1996 2-foot practical worst case drawdown contour and the 1996 survey limits based on data available from well construction reports. Note that the table lists the property owner at the time of well installation. It is likely that for some wells property ownership may have changed. Table 3-3 also includes seven wells that are located near the 1996 survey limits for which a clear distinction if they were within the survey limits could not be made based on the data contained on the WGNHS well construction report. These wells have been included in the table to be conservative, although it is likely some could actually be outside the survey area.

Table 3-1

Property Owners and Domestic Water Wells in the 1994 Inventory Area as Updated in 1996

Property Owner	Well Number	Form of Contact	Comments
Becker, William J.	108[1]	phone	private well on property
Betters, William	118[1]	returned survey	private well on property
Bishop, Joseph	—	returned survey	survey response not clear but appears no well
Bradley, Alicia	—	reviewed property tax records	Property tax records indicated improvements but no sewer or well permits were on file, therefore, no well likely exists
Bradley, Scott		reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Bradley, Wallace	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Buckley, Gerald	167[1]	returned survey	private well on property
Campshure, James	—	returned survey	no well on property
Cheslock, Richard	—	returned survey	no well on property
Clark, Thomas	33	returned survey	private well on property
Connor, Richard M.	—	returned survey	no well on property
Consolidated Papers, Inc.	—	returned survey	no well on property
Cook, Ralph J.	—	returned survey	own well, but well appears to be outside Zone I
Dhuey, David J.	166[1]	returned survey	private well on property
Dietzler, Ruth	115[1]	returned survey	private well on property
Dilley, Lyon	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Dix, Beverly	114[1]	returned survey	private well on property
Fishler, Grace	—	phone	well identified in 1984 NLS inventory but owner claims no well
Forest County	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Freye, William	—	returned survey	own well, but well appears to be outside Zone I
Fritsche, Franklin J.	107[1]	returned survey	private well on property
George, Lloyd E.	—	returned survey	no well on property
Haferman, Ralph W.	106[1]	returned survey	private well on property
Hess, John	—	returned survey	no well on property
Hockers, C.J.	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Hoffman, Cynthia	—	returned survey	well identified in 1984 NLS inventory but owner claims no well

Table 3-1 *(Continued)*

Property Owner	Well Number	Form of Contact	Comments
Hoffman, David	—	returned survey	abandoned well on property
Hoffman, Jerome	—	returned survey	no well on property
Hoffman, Joan	—	returned survey	no well on property
Hoffman, Raymond H.	90, 91	returned survey	two private wells on properties; second well identified in 1984 NLS inventory
Jameson, John G., Jr.	—	phone	no well on property
Jansen, Jeff	32	returned survey	private well on property
Johnson, Archie	—	returned survey	no well on property
Johnson, Gary	162[1]	returned survey	private well on property
Kelchner, Robert M.	105[1], 105a[1]	returned survey	two private wells on property; second well identified by Well Construction Report
Keppert, Gerald D.	—	returned survey	own well, but well appears to be outside Zone I
Kloehn, Gerald	168[1]	returned survey	private well on property
Kriegel, Elmyra	89, 89a	returned survey	two private wells on property; second well identified in 1984 NLS inventory
Langlade County, C.F.L.	—	not reached	no Well Construction Report on file, review of quadrangle revealed little probability of well
Lijewski, Edward	144[1]	returned survey	private well on property
Mantey, James P.	121[1]	not reached	well identified in 1984 NLS inventory
Mihalko Land and Logging	—	phone	no well on property
Mihalko, Thomas	—	phone	no well on property
Menominee Indian Tribe of Wisconsin	68[1]	drive-by survey	private well likely on property, well Construction Report on file
Northern Woodlands, Inc.	—	not reached	no Well Construction Report on file, review of quadrangle revealed little probability of well
Noteboom, Maureen B.	—	returned survey	no well on property
Pallen, Herman	116[1]	returned survey	private well on survey
Parker, R.W.	143[1]	reviewed property tax records	Well Construction Report on file, well permit issued in 1977
Phalen, Patrick, Jr.	57	returned survey	private well on property
Pieritz, Richard	102[1]	returned survey	private well on property
Pryor, Harold	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Schallock, Jerry L.	145[1]	returned survey	private well on property
Schmidt, John	87, 87a	returned survey	two private wells on property
Schrading, Mark	—	returned survey	no well on property
Schultz, Delores	—	returned survey	no well on property

Table 3-1 *(Continued)*

Property Owner	Well Number	Form of Contact	Comments
Sokaogon Chippewa Community	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Solper, Gerald K.	—	returned survey	own well, but well appears to be outside Zone I
State of Wisconsin	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Streur, William	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Tambellini, Thomas	—	returned survey	no well on property
Terzinski, Kathy	—	phone	no well on properties within Inventory Area
Thornton, Thomas J.	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Tomahawk and Timber	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Torgerson, Bernie	—	returned survey	own well, but well appears to be outside Zone I
Verlotta, Joseph	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Walentowski, Clement	84, 92, 93, 119[1]	returned survey	four private wells on properties; survey mentioned one well; others identified in 1984 NLS inventory
Walentowski, Harold	—	phone	well identified in 1984 NLS inventory but owner claims no well
Wauters, Elizabeth	—	reviewed property tax records	no property improvements were noted, therefore, no well likely exists
Webb, Richard	—	reviewed property tax records	owned well 102 but sold section to Pieritz
Wisconsin DNR	—	phone	no well on property
Wisconsin Timber Association	—	returned survey	no well on property
Yeager, Florence Ann	120[1]	returned survey	private well on property
Younk, G.	—	returned survey	no well on property

[1]Denotes domestic well located within the 2-foot practical worst case drawdown contour.
— No well known to be located on property.

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Checked by: XXC/JWS

Table 3-2

Description of Domestic Water Wells in 1996 Inventory Area

	Well Number	Location	Water Use	Year of Installation	Installation Method	Well Details: Depth (ft.)	Well Details: Diam. (in.)	Well Details: Screen (ft.)	Depth to Water (ft): Static	Depth to Water (ft): Pumping	Casing Material	Pump Type	Water Quality (Owner's Opinion)	Description of Well Repairs
A) Wells Located Within the 1996 2-Foot PWC Drawdown Contour														
Menominee Indian Tribe of Wisconsin	68	S25-T35N-R12E	Private	1988	Drilled	83.5	6	3	72	75	Blk Steel	—	—	—
Pieritz, Richard	102[1]	S36-T35N-R12E	Private	1959	Drilled	58	4	3	25	45	Std. Steel	Deep Well Jet	Good, some iron	None
Kelchner, Robert M.	105	S36-T35N-R12E	Private	1977	Drilled	54	6	3	21	26	ASTMA 53	Submersible	Excellent	No repairs
Kelchner, Robert M.	105a	S36-T35N-R12E	Private	1962	Driven	22	2	2	—	—	Galv.	Shallow Well	Good, clear, soft	—
Haferman, Ralph W.	106	S36-T35N-R12E	Private	1956	Driven	17	1.25	—	5	—	Galv.	Shallow Well	Okay	None
Fritsche, Franklin J.	107	S36-T35N-R12E	Private	1961	Driven	20	1.25	4	14	—	Galv.	Shallow Well	Excellent quantity - good taste, no odor	Pump replaced - 06/89 new point 06/90
Becker, William J.	108	S36-T35N-R12E	Private	1965	Driven	25	1.25	—	—	—	Galv.	—	Good, clear	—
Dix, Beverly	114[1]	S35-T35N-R12E	—	—	Driven	18	—	—	—	—	—	—	Good tasting and very clear	New pump
Dietzler, Ruth	115[1]	S36-T35N-R12E	Private	1968	Driven	20-30	1.25	—	—	—	—	Shallow Well	Good taste, no odor, no iron staining	None
Pallen, Herman	116[1]	S36-T35N-R12E	Private	—	Driven	23	1.25	3	6	—	Galv.	—	Water is clear, tastes excellent, no iron	—
Betters, William	118[1]	S36-T35N-R12E	Private	1978	Driven	23	1.25	—	6	—	Galv.	Shallow Well	Good, no odor	None
Walentowski, Clement	119	S36-T35N-R12E	Private	—	Drilled	20-30	3	—	11	—	—	Shallow Well	Not the best taste	—
Yeager, Florence Ann	120[1]	S36-T35N-R12E	Private	—	Driven	30	1.25	3	25	—	Galv.	Shallow Well	Pure water - not hard, good taste	Pump Replaced

Table 3-2 *(Continued)*

	Well Number	Location	Water Use	Year of Installation	Installation Method	Well Details: Depth (ft.)	Well Details: Diam. (in.)	Well Details: Screen (ft.)	Depth to Water (ft): Static	Depth to Water (ft): Pumping	Casing Material	Pump Type	Water Quality (Owner's Opinion)	Description of Well Repairs
Mantey, James P.	121	S31-T35N-R13E	Private	1970	Driven	24	1.25	4	—	—	Galv.	Shallow Well	Good, clear	—
Parker, R.W.	143	S31-T35N-R13E	Private	1977	Drilled	64	5	3	23	—	Galv.	Submersible	Good	—
Lijewski, Edward	144	S31-T35N-R13E	Private	1975	Drilled	58	5	2	23	50	Blk steel	Submersible	Excellent, clear water	None
Shallock, Jerry L.	145	S31-T35N-R13E	Private	1974	Drilled	96	0.5	—	20	—	—	Submersible	Good taste, some iron	No Repairs
Johnson, Gary	162[1]	S6-T34N-R13E	Private	—	—	—	—	—	—	—	—	—	No problem.	No Repairs.
Dhuey, David J.	166	S6-T34N-R13E	Private	—	Driven	32	2	—	25	—	Galv.	Deep Well Jet	Good, no problems	No repairs.
Buckley, Gerald	167[1]	S6-T34N-R13E	Private	1980	Drilled	57	5	2	26	50	Blk Steel	Submersible	Very good taste, no odor, little staining, sufficient quantity	None
Kloehn, Gerald	168[1]	S36-T35N-R12E	Private	—	Drilled	37.5	4	—	23	—	N/A	No Pump	—	No Repairs

B) Numbered Wells Identified in 1994 Survey Located Between the 1996 2-Foot PWC Drawdown Contour and the 1996 Surveyed Limits

Jansen, Jeff	32	S4-T34N-R13E	Private	1993	Driven	12	1.75	3	—	—	Galv.	Hand Pump	Good taste, very clear	none
Clark, Thomas	33	S4-T34N-R13E	Private	1988	Driven	25	2	—	—	—	Galv.	Shallow Well	Excellent, almost no mineral taste, no odor, minimal staining	Pump replaced - 02/94
Phalen, Patrick	57	S35-T35N-R12E	Private	1991	Drilled	60	6	3	45	—	—	Submersible	Very clear	N/A
Walentowski, Clement	84	S26-T35N-R12E	Private	—	Driven	26	1.25	—	14	—	Galv.	—	Good	—
Schmidt, John	87	S26-T35N-R12E	Private	Unknown	Driven	28	1.25	—	—	—	Galv.	—	Taste OK, no odor, very little staining	New pump motor, point and pipe

Table 3-2 *(Continued)*

	Well Number	Location	Water Use	Year of Installation	Installation Method	Well Details: Depth (ft.)	Well Details: Diam. (in.)	Well Details: Screen (ft.)	Depth to Water (ft): Static	Depth to Water (ft): Pumping	Casing Material	Pump Type	Water Quality (Owner's Opinion)	Description of Well Repairs
Schmidt, John	87a	S25-T35N-R12E	Private	1993	Drilled	31	6	3	—	—	Steel	Submersible	Taste OK, no odor	—
Kriegel, Elmyra	89	S26-T35N-R12E	Private	1960 (est)	Driven	20	1.25	3	20	—	Galv.	Shallow Well	Taste OK, no odor, hard	Well not in use
Kriegel, Elmyra	89a	S26-T35N-R12E	Private	—	Driven	20	1.25	3	—	—	Galv.	No Pump	Rusty, bacteriologically unsafe	Not in use
Hoffman, Raymond H.	90	S26-T35N-R12E	Private	1948 (est)	Driven	27	1.25	4	21	—	Galv.	Shallow Well	Good, slightly hard	Not repaired or re
Hoffman, Raymond H.	91	S26-T35N-R12E	Private	—	Driven	28	1.25	4	22	—	Galv.	Shallow Well	Excellent	Not repaired or re
Walentowski, Clement	92	S26-T35N-R12E	Private	—	Drilled	63	5	3	14	19	Blk Steel	Shallow Well	Good taste, no odor, some rust	—
Walentowski, Clement	93	S26-T35N-R12E	Domestic Commercial	—	Driven	28	1.25	3	20	—	Galv.	Shallow Well	Iron taste and color	—

[1]NMC land purchase option obtained since the 1994 well inventory.

Prepared by: CH
Checked by: JJA1

Table 3-3

Description of Additional Domestic Water Wells Based on Available Well Construction Reports[1]

Property Owner as Listed on the Well Construction Report	Location	Water Use	Year of Installation	Installation Method	Well Details			Depth to Water (ft)		Casing Material
					Depth (ft.)	Diam. (in.)	Screen (ft.)	Static	Pumping	
Thomas Sprehe	S33-T35N-R13E	Private	1982	Drilled	98	6	—	32	60	Black Steel
Lloyd A. Buenning	S33-T35N-R13E	Private	1972	Drilled	114	6	—	70	83	Steel
Eugene Baeten	NE¼ NE¼ S33-T35N-R13E	Private	1989	Drilled	106	6	—	27	46	Sawhill Pipe
Edward Bucholz	S33-T35N-R13E	Private	1966	Drilled	68	6-5/8	2	17	—	Black Steel
Edward Bucholz	Part of SE¼ S33-T35N-R13E	Private	1966	Drilled	80	6-3/16	—	20	27	Valley Steel
Ben & Joan Mohrmann	SE¼ SE¼ S33-T35N-R13E	Private	1981	Drilled	83	6	3	33	50	Black Steel
John Fiest	NE¼ SE¼ S33-T35N-R13E	Private	1975	Drilled	100	5	2	65	93	Black Steel
Larry Eisenreich	NE¼ SE ¼ S33-T35N-R13E	Private	1993	Drilled	63	6	3	29	40	Sawhill Pipe
Hiram Turner	NE¼ SE¼ S33-T35N-R13E	Private	1975	Drilled	61	5	2	44	46	Black Steel
Frank Herman	NE¼ S33-T35N-R13E	Private	1979	Drilled	68	6	3	10	11	Steel
John Campshure	SW¼ NE¼ S33-T35N-R13E	Private	1974	Drilled	79	5	3	18	70	Black Steel
Gary Moder	SE¼ NE¼ S33-T35N-R13E	Private	1983	Drilled	93	6	—	35	80	Black Steel

Table 3-3 *(Continued)*

Property Owner as Listed on the Well Construction Report	Location	Water Use	Year of Installation	Installation Method	Well Details			Depth to Water (ft)		Casing Material
					Depth (ft.)	Diam. (in.)	Screen (ft.)	Static	Pumping	
Wesley S. Goode	SE¼ NE¼ S33-T35N-R13E	Private	1990	Drilled	59	6	—	12	50	Sawhill pipe
Freddie Bornowski	SE¼ NE¼ S33-T35N-R13E	Private	1993	Drilled	63	6	3	6	47	Sawhill pipe
Wes Goode	SE¼ NE¼ S33-T35N-R13E	Private	1993	Drilled	59	6	3	8	50	Sawhill pipe
E.A. Kerbos	SE¼ NE¼ S33-T35N-R13E	Private	1966	Drilled	56	4	3	17	25	Steel
Severn Mattson	SE¼ NE¼ S33-T35N-R13E	Private	1966	Drilled	50	4	3	17	25	Steel
Severn Mattson	SE¼ NE¼ S33-T35N-R13E	Private	1966	Drilled	52	4	3	25	35	Black Steel
Lawrence Hollander	SE¼ NE¼ S33-T35N-R13E	Private	1970	Drilled	64	5	3	46	50	Black Steel
Rev. James Jacobs	NW¼ NE¼ S33-T35N-R13E	Private	1969	Drilled	120	5	3	24	35	Black Steel
Max Richter	NE¼ NE¼ S33-T35N-R13E	Private	1983	Drilled	100	6	—	20	50	—
James Newland	NE¼ NE¼ S33-T35N-R13E	Private	1972	Drilled	75	5	2	44	47	Black Steel
Paul Vandervest	NE¼ NE¼ S33-T35N-R13E	Private	1976	Drilled	62	6	—	33	50	Black Steel
Edward Walerko[2]	NE¼ SW¼ S34-T35N-R13E	Private	1972	Drilled	60	5	2	20	50	Black Steel

Table 3-3 *(Continued)*

Property Owner as Listed on the Well Construction Report	Location	Water Use	Year of Installation	Installation Method	Well Details			Depth to Water (ft)		Casing Material
					Depth (ft.)	Diam. (in.)	Screen (ft.)	Static	Pumping	
Taylor Brown[2]	NW¼ S3-T34N-R13E	Private	1982	Drilled	46	5	3	28	38	Black Steel
Taylor C. Brown[2]	NW¼ S3-T34N-R13E	Private	1981	Drilled	62	5	2	32	52	Black Steel
Wm. C. Wood	SE¼ SE¼ S4-T34N-R13E	Private	1969	Drilled	59	6	5	28	35	Black Steel
Dr. John Phelps[2]	SW¼ S9-T34N-R13E	Private	1982	Drilled	40	5	3	16	32	Black Steel
Ervin Klapper[2]	NE¼ SW¼ S9-T34N-R13E	Private	1990	Drilled	82	5	3	11	40	Black Steel
Emil Cibik	NE¼ SW¼ S9-T34N-R13E	Private	1990	Drilled	72	5	3	10	35	Black Steel
Carl Johnson	NW¼ SE¼ S9-T34N-R13E	Private	1981	Drilled	65	5	2	26	56	Black Steel
Robert McKenna	NW¼ SE¼ S9-T34N-R13E	Private	1968	Drilled	50	5	3	20	35	Black Steel
Ms. Mary Polar[2]	SW¼ NW¼ S26-T35N-R12E	Private	1979	Drilled	33	6	3	14	18	Black Steel
Golda Long	SE¼ SE¼ S27-T35N-R12E	Private	1990	Drilled	60	6	3	15.5	18	LTV Welded
Mole Lake Wood Inc.	SE¼ SE¼ S27-T35N-R12E	Commercial	1990	Drilled	44	6	3	15	30	Steel
Agent: Mole Lake Tribal Council	NE¼ SE¼ S27-T35N-R12E	Private	1979	Drilled	40	6	3	13	26	Black Steel

Table 3-3 *(Continued)*

Property Owner as Listed on the Well Construction Report	Location	Water Use	Year of Installation	Installation Method	Well Details			Depth to Water (ft)		Casing Material
					Depth (ft.)	Diam. (in.)	Screen (ft.)	Static	Pumping	
Farley Ackley	NE¼ SE¼ S27-T35N-R12E	Private	1977	Drilled	41	6	3	27.5	32	Black Steel
Spruce Corporation, Inc.[2]	NW¼ NE¼ S34-T35N-R12E	Private	1992	Drilled	242	6	—	10	235	Sawhill Pipe
Leon Rose, Jr.	S11-T34N-R12E	Private	1978	Drilled	34	6	—	6	20	Steel
Robert Nestle	S11-T34N-R12E	Private	1978	Drilled	34	6	—	6	20	Steel
Donald Hermann	S11-T34N-R12E	Private	1976	Drilled	36	6	—	10	20	Steel
David Jagla	NE¼ S11-T34N-R12E	Private	1984	Drilled	32	5	2	4	25	Black Steel
Henry Jacobson East Side Lodge	S12-T34N-R12E	Commercial	1956	Drilled	29	5	—	6	9	Steel
Henry Jacobson East End Resort	S12-T34N-R12E	Commercial	1956	Drilled	30	4	—	10	21	Std. Steel
Henry Jacobson East End Resort	S12-T34N-R12E	Commercial	1956	Drilled	25	4	—	7	10	Std. Steel
Eugene Steber	S12-T34N-R12E	Private	1950	Drilled	38	4	—	8	12	Steel
Alfred Johnson	S12-T34E-R12E	Private	1949	Drilled	31	4	—	5	12	Steel
Raymond Potrykus Constr. Jr.	SW¼ S12-T34N-R12E	Private	1979	Drilled	40	5	3	18	32	Black Steel
Milton Hill Hills East Shore Resort	SW¼ S12-T34N-R12E	Commercial	1979	Drilled	25	5	—	8	12	Black Steel

Table 3-3 *(Continued)*

Property Owner as Listed on the Well Construction Report	Location	Water Use	Year of Installation	Installation Method	Well Details			Depth to Water (ft)		Casing Material
					Depth (ft.)	Diam. (in.)	Screen (ft.)	Static	Pumping	
James Jicha	SE¼ SW¼ S12-T34N-R12E	Private	1970	Drilled	32	5	3	10	15	Black Steel
Dale Perry	SE¼ SW¼ S12-T34N-R12E	Private	1967	Drilled	37	4	—	5	7	Black Steel
August Gotter	SW¼ SW¼ S12-T34N-R12E	Private	1969	Drilled	26	5	—	8	16	Black Steel
Gerald Cherwinka	SE¼ SW¼ S12-T34N-R12E	Private	1964	Drilled	19	4	—	6	8	Steel
August Gotter	SE¼ SW¼ S12-T34N-R12E	Private	1972	Drilled	35	5	—	5	25	Black Steel
Donald H. Schaefer	SE¼ SW¼ S12-T34N-R12E	Private	1975	Drilled	26	5	2	6	10	Black Steel
Gordon Luedtke	SE¼ SW¼ S12-T34N-R12E	Private	1990	Drilled	21	5	3	3	8	Black Steel
Maurice Novak	NE¼ SW¼ S12-T34N-R12E	Private	1975	Drilled	36	5	—	7	22	Black Steel
Vernon Rusch	SE¼ S12-T34N-R12E	Private	1984	Drilled	46	5	2	18	27	Black Steel
Don Keller	SE¼ S12-T34N-R12E	Private	1982	Drilled	74.5	6	4.5	30	65	Black Steel
Clem Schneider	SE¼ S12-T34N-R12E	Private	1982	Drilled	52	5	4	17	43	Black Steel
Ray G. Miller	S13-T34N-R12E	Private	1959	Drilled	22	4	—	6	16	Steel

Table 3-3 *(Continued)*

Property Owner as Listed on the Well Construction Report	Location	Water Use	Year of Installation	Installation Method	Well Details			Depth to Water (ft)		Casing Material
					Depth (ft.)	Diam. (in.)	Screen (ft.)	Static	Pumping	
Bud Young	S13-T34N-R12E	Private	1971	Drilled	31	4	—	1	26	Black Steel
Goerge Hoewisch	S13-T34N-R12E	Private	1959	Drilled	40	4	—	20	—	Steel
Einer Larson	S13-T34N-R12E	Private	1961	Drilled	33	4	—	3	12	Steel
Gilbert Rossow	NW¼ SE¼ S13-T34N-R12E	Private	1966	Drilled	35	6	—	4	25	Steel
Walter Thyssen	NW¼ SE¼ S13-T34N-R12E	Private	1975	Drilled	47	5	2	26	40	Black Steel
Jim Miller	NE¼ S13-T34N-R12E	Private	1977	Drilled	45	5	—	4	40	Black Steel
William O'Brien	NE¼ S13-T34N-R12E	Private	1987	Drilled	68	5	—	3	63	Black Steel
Orlie Butler	NE¼ S13-T34N-R12E	Private	1985	Drilled	58	5	4	2	49	Black Steel
Gilbert Bremmer	SW¼ NE¼ S13-T34N-R12E	Private	1967	Drilled	58	5	—	10	48	Black Steel
Adolph Sonnleitner	NW¼ NE¼ S13-T34N-R12E	Private	1972	Drilled	51	5	2	1	44	Black Steel
Arden Bonnell	NW¼ NE¼ S13-T34N-R12E	Private	1991	Drilled	59	5	—	Artesian	54	Black Steel
Jim Miller	NW¼ NE¼ S13-T34N-R12E	Private	1990	Drilled	45	5	—	8	40	Black Steel
Arthur Boeck	NW¼ NE¼ S13-T34N-R12E	Private	1969	Drilled	67	5	—	2	55	Black Steel

Table 3-3 *(Continued)*

Property Owner as Listed on the Well Construction Report	Location	Water Use	Year of Installation	Installation Method	Well Details			Depth to Water (ft)		Casing Material
					Depth (ft.)	Diam. (in.)	Screen (ft.)	Static	Pumping	
Anton Schriendl	NW¼ NE¼ S13-T34N-R12E	Private	1975	Drilled	163	6	—	6	150	Black Steel
Peter Schinker	NW¼ NE¼ S13-T34N-R12E	Private	1962	Drilled	34	4	—	2	15	Std. Steel
Elmer Keller	NW¼ NE¼ S13-T34N-R12E	Private	1964	Drilled	39	4	—	5	25	Steel

[1] Data is for those wells located between the 1996 2-foot practical worst case drawdown contour and the 1996 survey limits that are not included on Table 3-2.

[2] Location of well with respect to 1996 survey limits cannot be determined based on well construction report. To be conservative, the well has been located on this data base although the well could actually be located outside the 1996 survey limits.

Prepared by: MLD2
Checked by: REM

3.3.3.2 Well Locations

Locations of domestic water wells within the 1996 2-foot practical worst case drawdown contour are shown on Figure 3-6. The figure also shows the general location of an additional series of numbered domestic water wells identified in the 1994 survey work that are located between the 1996 2-foot practical worst case drawdown contour and the 1996 survey limits. The general locations for both these sets of wells was obtained using information from the domestic well surveys, plat books, and aerial photographs. Appendix B contains a listing of each well with site coordinates and elevations taken from site maps. The data in the attachment is not based on specific field verified locations. Therefore, coordinates may only be accurate to within hundreds of feet, while well elevations may only be accurate to within tens of feet. General location information for the third set of wells shown on Figure 3-6 is not available and therefore is not included in Appendix B. This set of wells consists of those located between the practical worst case drawdown contour and the 1996 survey limits for which only well construction report data exists.

3.3.4 Sokaogon Chippewa Community Well Information

The WDNR requested that a letter be mailed to the Sokaogon Chippewa Community requesting information on both community and private wells within the Mole Lake Reservation. On October 16, 1996 a letter (Harrill, 1996) was mailed to Mr. Arlyn Ackley, then Chairman of the Sokaogon Chippewa Community, requesting private and community well information. Appendix C contains a copy of this letter, which included a private water well questionnaire. As of this date, the Sokaogon Chippewa Community has not yet responded to this request.

The WGNHS was contacted to obtain available well construction information for the Sokaogon Chippewa Community. Copies of the Well Constructor's Reports (WDNR form 3300-15) received from the WGNHS are also included in Appendix C. Figure 3-9 shows the number of well constructor's reports received for the Sokaogon Chippewa Community by quarter section.

3.3.5 Soil Absorption System Well Information

Figure 3-10 shows the private wells in the vicinity of the proposed soil absorption system. Copies of available well construction reports are included in Appendix D. Well construction reports were not available for all apparent private wells in the area. Information for those wells for which a well construction report is available is summarized in Table 3-4.

3.3.6 Domestic Water Supply Well Inventory Summary

Generally, the wells in the survey area shown on Figure 3-6 are shallow. The average depth of the wells listed in Table 3-2 is approximately 35 feet. The deepest is 96 feet. In most cases the static depth to water is less than 30 feet, but in one well the static depth to water was 72 feet. The oldest well was installed in approximately 1948, with the newest installed in 1993. Most are driven wells, although some are drilled wells. Most use shallow well type pumps and nearly all

Table 3-4

Description of Domestic Water Wells in the Vicinity of the Proposed Soil Absorption System Based on Available Well Construction Reports[1]

Well Number	Property Owner as Listed on the Well Construction Report	Location	Water Use	Year of Installation	Installation Method	Well Details			Depth to Water (ft)		Casing Material
						Depth (ft.)	Diam. (in.)	Screen (ft.)	Static	Pumping	
200	Peter Davison	SE¼ SE¼ S16-T35N-R13E	Private	1977	Drilled	91	6	—	58	75	Black Steel
201	Rolf Hansen	S17-T35N-R13E	Private	1966	Drilled	65	4	—	13	30	Black Steel
202	Ray VanRite	SW¼ S17-T35N-R13E	Private	1977	Drilled	66	5	2	8	30	Black Steel
203	Dave Heath	SW¼ SW¼ S17-T35N-R13E	Private	1992	Drilled	59	6	3	8	45	Sawhill Steel
204	Richard Heezen	NW¼ SW¼ S17-T35N-R13E	Private	1993	Drilled	73	6	—	8	27	Sawhill Steel
205	Melvin Brockman	NW¼ SW¼ S17-T35N-R13E	Private	1973	Drilled	31	5	2	7	18	Black Steel
206	Martin Wied	NE¼ SW¼ S17-T35N-R13E	Private	1991	Driven Point	18	1.25	—	5	9	Steel
207	Harry Melius	NW¼ S17-T35N-R13E	Private	1982	Drilled	67	5	2	5	60	Black Steel
208	Norman Mendleski	SW¼ NW¼ S17-T35N-R13E	Private	1989	Drilled	77	5	3	7	69	Black Steel
209	Todd Muenster	SW¼ NW¼ S17-T35N-R13E	Private	1992	Drilled	69	6	2	6	50	Sawhill Steel
210	P.A. Briggs	NW¼ NW¼ S17-T35N-R13E	Private	1974	Drilled	60	5	3	5	30	Black Steel

Table 3-4 *(Continued)*

Well Number	Property Owner as Listed on the Well Construction Report	Location	Water Use	Year of Installation	Installation Method	Well Details: Depth (ft.)	Well Details: Diam. (in.)	Well Details: Screen (ft.)	Depth to Water (ft): Static	Depth to Water (ft): Pumping	Casing Material
211	Harold Horn	NW¼ NW¼ S17-T35N-R13E	Private	1974	Drilled	66	5	2	8	42	Black Steel
212	William Reffke	NW¼ NW¼ S17-T35N-R13E	Private	1972	Drilled	64	5	2	6	53	Black Steel
213	Forest County, c/o Kenneth Conway	NW¼ NW¼ S17-T35N-R13E	County Park Campground	1971	Drilled	37	6	3	3	12	Black Steel

[1]Private wells for which well construction reports are not available may also exist at locations 214 through 224 on Figure 3-10.

Prepared by: MLD2
Checked by: REM

are used for private domestic purposes. They draw from aquifers in either the undifferentiated Late Wisconsinan Till or the underlying outwash deposits. Most well owners are of the opinion that the water provided by their well is of good quality and there are very few problems with taste, staining, odor, or insufficient flow. A few well owners reported that in their opinion their well had some degree of problem with iron.

The wells in the vicinity of the soil absorption site are somewhat deeper. The average depth of the wells listed in Table 3-4 is approximately 60 feet. The deepest is 91 feet. In most cases the static depth to water is less than 10 feet. The oldest well was installed in 1966, with the newest installed in 1993. Most are drilled wells. One is a driven point. All but one are used for private domestic purposes. They typically draw water from the underlying outwash deposits.

3.3.7 Public Water Supply Wells

No known public water supply wells are located within the survey area shown on Figure 3-6. A community water system with at least one well is reportedly located on the Mole Lake Indian Reservation.

3.4 Description of Existing NMC Wells

Of the NMC owned wells (those installed by NMC and those residential wells purchased by NMC) only wells 101, WW-1, and WW-2 (Figure 3-11) are presently used, and then only on an intermittent basis to support field study activities.

The residential well identified as No. 101 is owned by NMC and used occasionally by NMC or NMC contractors, however there is no one permanently residing at the house. Water use is estimated at less than 100 gallons per day (gpd). WW-1 and WW-2 have been previously used to supply non-potable water to support drilling activities on the site on an intermittent basis. Detailed descriptions of the construction and disposition of WW-1 and WW-2 are presented in Table 3-5. During drilling activities water usage from WW-1 and WW-2 averages between approximately 1,000 to 20,000 gpd.

3.5 Construction of New NMC Water Supply Wells

The use of wells 101, WW-1 and WW-2 will continue throughout the construction phase of the project. At the onset of the mining operation there will be three permanent wells installed, which will be known as the "potable" well, the "TMA" well, and the "mitigation" well. When the permanent wells are put in place all other wells owned by NMC, with the exception of monitoring wells, will be abandoned in accordance with applicable regulations.

Table 3-5

Description of the Design of Existing Wells WW-1 and WW-2

WW-1 located SE ¼ of SW ¼, Section 30, T25N, R13E	
Ground Surface Elevation	- 1,670 feet M.S.L.
Well Depth	- 130 feet.
Casing Size	- 8-inch diameter steel; record of steel type not available.
Depth of Casing	- 120 feet plus 5 feet of 2-slot Johnson stainless steel screen plus 5 feet of tail pipe with K packer.
Casing Thickness	- Schedule 40 pipe (threads and couplings); record of actual wall thickness not available.
Geologic Formation	- Well totally in glacial sand and gravel; primarily coarse gravel with minor clay content.
Grouting	- None.
Water Levels	- Static - Approximately 1,588 feet M.S.L.
Date Constructed	- July, 1976.
Pump Installation	- Submersible pump with approximately 15-gpm capacity connected to a buried 10,000 gallon storage tank. Pump with approximate 40-gpm capacity installed on tank.
Driller and Owner	- Drilled by Anderson Well Drilling, Inc., owned by NMC.
Current Use	- During field drilling activities (approximately four months per year during the past few years). Combined water usage of WW-1 and WW-2 has averaged approximately 1,000 gpd. On an annual basis this equates to approximately 330 gpd.
Future Status	- After installation of the potable well, the pumping system and storage tank WW-1 will be removed and abandoned according to state regulations.

Table 3-5 *(Continued)*

WW-2 located SE ¼ of SE ¼, Section 25, T25N, R12E	
Ground Surface Elevation	- 1,644 feet M.S.L.
Well Depth	- 155 feet.
Casing Size	- 8-inch diameter steel; record of steel type not available.
Depth of Casing	- 145 feet casing plus 5 feet of 2-slot Johnson stainless steel screen plus 5 feet of tail pipe with K packer.
Casing Thickness	- Schedule 40 pipe (threads and couplings); record of actual wall thickness not available.
Geologic Formation	- Well totally in glacial overburden sand and gravel.
Grouting	- None.
Water Levels	- Static - Approximately 1,578 feet M.S.L.
Date Constructed	- September, 1976.
Pump Installation	- Submersible pump with approximate 60-gpm capacity.
Driller and Owner	- Drilled by Anderson Well Drilling, Inc., owned by NMC.
Current Use	- See comments for WW-1.
Future Status	- After installation of the potable well, the pumping system will be removed and WW-2 will be abandoned according to state regulations.

Prepared by: BDH
Checked by: PAE

3.5.1 Potable Well Location and Use

A new potable well will be constructed approximately one-half mile south of the plant site, approximately 1,200 feet northwest of Little Sand Lake. This well, as shown on Figure 3-11, will be located in a relatively undeveloped area in the SE¼ of the NE¼ of Section 36, T35N, R12E, Nashville Township (State Plane Coordinates 114,278N 2,275,384E) at an approximate ground elevation of 1,662 feet MSL. It will be the sole supplier of potable water to the project's various facilities. Estimated average usage from this well will be approximately 20 gpm for potable water. No other economically feasible alternative water supply systems exist. For instance, the project area is not serviced by a municipal water supply system and trucking water to the site would be impractical and more costly than constructing the proposed well.

3.5.1.1 Site Geology

A summary of the general regional and site geology is presented in Section 3.5 of the project's EIR (Foth & Van Dyke, 1995/1998b). A log for a boring near the proposed well location is presented in Appendix E. This boring, DMP-3, is located at State Plane Coordinates 113,665N 2,275,625E. The position of this boring in proximity to the proposed potable well is shown on Figure 3-11.

3.5.1.2 Specifications for the Potable Well Construction and Pump Installation

The new potable well will be constructed in accordance with the provisions of Chapter NR 812, Wis. Admin. Code. A written well construction report will be submitted to the WDNR within 30 days of well construction. The details of the proposed construction of the potable well are illustrated on Figure 3-12. Specifications for the construction of this well and installation of the pump are provided in Appendix F. The drilling method to be used for well construction will be selected by the contractor based on site geology. The sampling faucet for the potable well will be located at the plant site adjacent to the water storage tank. A WDNR-approved pitless adapter will be used. Pressure testing will be performed for the pitless adapter location before use.

3.5.1.3 Water Conveyance System

Water from the potable well will be transported to a storage tank, constructed at an approximate ground elevation of 1658, located at the plant site via an approximate 1-mile long supply pipeline as shown on Figure 3-11. Figure 3-13 shows a typical pipe trench detail. The supply pipeline reaches a maximum elevation of 1677 feet MSL along the pipeline route between the well and the tank, which is approximately 5.6 feet below the top of tank elevation. The 6-inch diameter buried pipeline will be a forcemain to allow transfer of water from the well location to the tank.

3.5.1.4 Potable Water Storage Design

The potable water storage tank will be designed to meet the applicable requirements of NR 811, Wis. Admin. Code. In particular, the fresh water tank will meet the requirements of

Subchapter X of NR 811. The water storage tank has been designed with a tank overflow on the fresh water tank. As shown on Figure 3-14, the tank fill line will enter the tank at the top, and the overflow will be located on the side of the tank, approximately 2 feet below the top. The overflow pipe will be sized to handle 100 percent of the maximum flow rate into the tank. This will result in a minimum air gap of 2 feet at all times between the water inlet pipe and the maximum water level in the tank, which will prevent backflow from the tank into the well.

3.5.2 TMA Well Location and Use

The TMA well location is shown on Figure 3-11. The well will be located on the western edge of the TMA borrow site in the SE¼ of Section 29, T35N, R13E of Nashville Township (State Plane Coordinates 117,375N 2,284,882E) at an approximate ground elevation of 1699 feet MSL. The well location is more than 1,200 feet from the limits of tailings placement in the TMA.

The well will be used for processing site glacial material and wash plant operations during the construction phases of the TMA, estimated to occur approximately every three years. The normal groundwater consumption estimate for this well is based on 12-hour days during construction years. Till processing and other miscellaneous uses will use 200 gpm for approximately 100 days, while the wash plant will use 300 gpm for approximately 40 days. This averages to 114 gpm for the 140-day interval anticipated to be required for TMA construction material processing.

3.5.2.1 Site Geology

A summary of the general regional and site geology is presented in Section 3.5 of the EIR (Foth & Van Dyke, 1995/1998b). A log for a boring near the proposed well is presented in Appendix E. This boring, G41-H9, is located at State Plane Coordinates 117,330N 2,285,000E. The position of this boring in proximity to the proposed TMA well is shown on Figure 3-11.

3.5.2.2 Specifications for the TMA Well Construction and Pump Installation

The new TMA well will be constructed in accordance with the provisions of Chapter NR 812, Wis. Admin. Code. A written well construction report will be submitted to the WDNR within 30 days of well construction. The details of the proposed construction of the TMA well are illustrated on Figure 3-15. Specifications for the construction of this well and installation of the pump are provided in Appendix F. The drilling method to be used for well construction will be selected by the contractor based on site geology. The TMA well will be located within a small well house. The wellhead shall be constructed per Figure 38 in Section NR 812.32, Wis. Admin. Code. The pump discharge piping from the well shall be in accordance with Figure 39 and as described in NR 812.32.

3.5.2.3 Water Conveyance System

The TMA well will require a distribution system to transport water from the well location to the TMA construction staging area. Present plans call for a temporary water distribution line constructed from the well to a hydrant at a convenient location in the construction staging area. Since it is expected that water will be required only during the construction season, i.e., between approximately May 1st and November 1st, the laterals from the hydrant will simply consist of flexible plastic pipe laid on the surface of the ground or buried in a shallow trench and moved as required to meet construction needs. Examples of individual water supply laterals that would be used are as follows:

- transporting water to the wash plant for use in processing sand and aggregates;

- transporting water to a fill station to load water trucks or wagons used for dust control; for adjusting soil moisture in fill material and/or soil liners or covers; and to water vegetation and other trees or shrubs planted during construction, operation, and closure.

3.5.3 Mitigation Well Location and Use

A detailed surface water mitigation plan has been developed for the project and is described in the document titled *Crandon Project Surface Water Mitigation Plan* (Foth & Van Dyke, 1998a). The plan identifies surface water mitigation needs, system design and operation, and impacts associated with system installation and operation. A summary of those aspects of the plan that relate to the HCWPA are presented below. Further detail can be obtained by reviewing the plan itself.

As discussed in the mitigation plan (Foth & Van Dyke, 1998a) the project's mitigation system is designed to provide mitigation water requirements for Level I and II water bodies under PWC conditions. In addition, the mitigation system is designed to accommodate contingencies for additional water requirements in the event that additional water bodies require mitigation. This concept will facilitate the initial construction of system features for Level I water bodies, while providing the flexibility to expand the system, in a reasonable time frame, to accommodate Level II water bodies if environmental monitoring data collected during operations indicate that these systems are needed. The plan addresses both hard and soft water body mitigation needs. Soft water body mitigation needs will be met through the use of treated mine water. Hard body mitigation needs will be met through the use of a mitigation well constructed for the sole purpose of supplying mitigation water. The analysis completed for the mitigation plan resulted in classifying Creek 19-14 as a Level I hard water body, while Hoffman Springs/Creek was classified as a Level II hard water body. The estimated mitigation requirement for the Level I and II hard water bodies under PWC conditions is 45 gpm. When required, mitigation is expected to occur in the winter and late summer low flow periods for up to 3 months during each time period.

The need for potential surface water mitigation will continue during the groundwater recovery period following the completion of mining. Estimates of the groundwater recovery period (GeoTrans, 1996) indicate that without mitigation it is likely to take approximately 10 years for the groundwater system to recover. With mitigation, the recovery period will likely be approximately 10 to 15 years. During this period of time, the mitigation requirements will decline as the groundwater system recovers. Initial mitigation requirements during the first 1 to 2 years of the recovery period will likely be comparable to the mitigation requirements during operations described above. The requirements are expected to decline significantly by about the fifth year after the end of mining as the groundwater system recovers.

The site of the planned mitigation well is shown on Figure 3-11. The well will be located just east of the site access road and 3,000 feet north of the access road's Swamp Creek crossing (State Plane Coordinates 125,154N 2,276,577E) at an approximate ground elevation of 1580 feet MSL. This well will be used for mitigating hard water bodies whose flows have been impacted by mine dewatering activities.

3.5.3.1 Site Geology

A summary of the general regional and site geology is presented in Section 3.5 of the EIR (Foth & Van Dyke, 1995/1998b). A log for two borings near the proposed well are contained in Appendix E. These borings, DMA-14 and DMA-16, are located at State Plane Coordinates 128,420N 2,276,320E and N123,793 2,271,254E, respectively. The position of the borings in proximity to the proposed TMA well are shown on Figure 3-11.

3.5.3.2 Specifications for the Mitigation Well Construction and Pump Installation

The new mitigation well will be constructed in accordance with the provisions of Chapter NR 812, Wis. Admin. Code. A written well construction report will be submitted to the WDNR within 30 days of well construction. The details of the proposed construction of the mitigation well are illustrated on Figure 3-16. Specifications for the construction of this well and installation of the pump are provided in Appendix F. The drilling method to be used for well construction will be selected by the contractor based on site geology. A sampling faucet will be added to the first available access point (e.g., air relief manhole). A WDNR-approved pitless adapter will be used. Pressure testing will be performed for the pitless adapter location before use.

3.5.3.3 Pumping Facilities

Mitigation pumping facilities will be designed to provide for the PWC flow rate required for each level of mitigation (Foth & Van Dyke, 1998a). The installed pumping facilities may be larger than required for the lowest level of mitigation where it makes sense to provide capacity for the potential next level of mitigation with minimal or no increase in cost. The intent is to phase the construction of the mitigation facilities to provide what is necessary for the required level of mitigation as it occurs.

As shown on Figure 3-11, the water source for mitigation of the Level I and II hard water bodies will be from a groundwater well located within the proposed main access road corridor north of Swamp Creek. Water will be pumped from the mitigation well directly to the hard water conveyance system located in the right-of-way of the main access road. A submersible pump will be used to meet the Level I and Level II mitigation flow rate requirements.

3.5.3.4 Water Conveyance System

Figure 3-17 is a plan view and overall layout of the pipeline route locations for the hard water mitigation conveyance system. The drawing also shows nominal pipe diameters for polyethylene (HDPE DR9) pipe material and pipe segment lengths for the system. The pipeline is sized to accommodate Level I and II mitigation water flow rates and, where appropriate, oversized to accommodate expansion for Level III mitigation flow rates, if required. The Level I pipeline route begins at the Level I and II mitigation well site along the east side of the site access road at the curve in the road. From the well site the pipeline follows the proposed main access road along the east side to just south of the Swamp Creek crossing. At this point the pipeline turns east following an unpaved on-site access road through wetland P1 to a clearing west of Creek 19-14. From the clearing the pipeline continues east to the delivery system at Creek 19-14. The last approximately 240 feet to Creek 19-14 is within wetland O1. The pipeline from the mitigation well site to the point south of Swamp Creek where it turns east toward Creek 19-14 (a Level I water body) is sized to supply water for Levels I, II and III mitigation. Air release/vacuum relief valves will be installed in manholes at high points along the pipeline route, as needed, to vent entrapped air in the pipe.

Figure 3-17 also shows the route extension to Hoffman Creek/Hoffman Springs for Level II mitigation. The Level II hard water pipeline route begins at the Level I hard water pipeline along the west side of the proposed main access road at the point where the Level I hard water pipeline turns east toward Creek 19-14. From this location the pipeline follows the site access road to the plant site. From the plant site the pipeline turns west through approximately 500 feet of uncleared land through the uplands area near wetlands 3 and 4 to an unpaved on-site access road. Following the unpaved on-site access road, the pipeline route intersects with another unpaved on-site access road where the pipeline turns to the southwest approximately 1,200 feet through uncleared land to Sand Lake Road. The pipeline turns west along the north side of Sand Lake Road to a point where it turns north approximately 300 feet through uncleared land to the delivery system for Hoffman Creek/Hoffman Springs.

The mitigation pipelines will be trenched to a minimum depth of 6.5 feet within the plant site and within roadways. Outside the road and the plant site, the pipeline will also be trenched to a minimum depth of 6.5 feet. Swamp Creek and the associated wetland W1 will be crossed by directional drilling of the pipe under the areas a minimum of 5 feet below the wetland and creek bottom. Pipelines crossing wetland Z22 located near Lake 25-11 (Popple Pond) and wetland Z18 near Hoffman Springs will also be installed using directional drilling. The pipeline will be constructed by trenching through other wetland crossings.

3.5.3.5 Mitigation Water Delivery Systems

The water conveyance pipeline will terminate at the "mitigation water delivery system" at the location of the control structure along the water body above the high water mark and outside the wetland area. The mitigation water delivery system will consist of a manhole control structure, a pipeline into the water body, and a diffuser within the water body as shown in Figure 3-18.

The control structure is a below grade structure to house and provide access to a hydraulically operated rate of flow controller, a flow meter, and isolation valves between the conveyance pipeline and the pipeline to the water body. The rate of flow controller will maintain a constant preset flow rate regardless of changing line pressure. The flow rate through the controller can be adjusted over a 4:1 range of maximum to minimum flow rates. The rate of flow controller will provide a constant rate of flow even when another mitigation discharge flow rate is changed or added to the system.

From the control structure the pipeline will extend below grade into the water body terminating at the bottom of the slope into the water. At the pipeline termination a diffuser pipe with a combination diffuser and check valve will be installed to prevent debris from entering the system when not in use. The diffuser will be anchored and protected by placing articulated concrete block mats over the diffuser pipe.

3.5.4 Monitoring Program

Details of the project's groundwater monitoring program are contained in Section 7 of the *Mine Permit Application* (Foth & Van Dyke, 1995/1998a). The NMC project site will have an extensive network of groundwater monitoring wells which will be sampled and measured on a scheduled basis to detect changes in groundwater quality and fluctuations in water table elevations. As related to the potable well, changes detected in the site-wide monitoring network will provide advance notice of changes in upgradient groundwater quality. In accordance with Chapter NR 812, Wis. Admin. Code, the proposed potable well will be tested for bacteriological safety before it is put into service.

3.5.5 Construction Dewatering

Dewatering activities associated with the installation of Crandon Project features will relate primarily to the construction of pipelines. While it is not expected that dewatering will be required during construction of other site features due to the depth of the groundwater table in the area of construction, it is possible that some incidental dewatering may be needed. This need will be identified as construction progresses. If such incidental dewatering were needed, the total quantity of water involved would very likely be insignificant and the duration limited, and therefore would not impact the overall high-capacity well permitting process.

As described in Sections 5 and 6 of the *Crandon Project Surface Water Mitigation Plan* (Foth & Van Dyke, 1998a) and as described in Section 6 of the *Preliminary Engineering Report for the*

Crandon Project Soil Absorption System (Foth & Van Dyke, 1998b), water supply and water discharge pipelines will be installed in an open-cut trench and backfilled with native material over most of the route. For most of its length, the fill over the pipeline will be 6.5 feet deep at a minimum. There are areas along the proposed route where open trench construction is not feasible or practical. Streams designated by the WDNR as Outstanding Resource Waters will also be crossed by boring or jacking a shell casing in-place a minimum of 3 feet under the streambed and installing the pipe through the casing. The annular space between the pipeline and the steel casing for both road and stream crossings will be grouted at both ends to provide a seal. Other streams and wetlands would be crossed using directional boring under the streambed. Figures 3-19 and 3-20 show a cross-section of a typical side road crossing and stream crossing, respectively. Stream crossings described above and areas along the pipeline route which consist of wetlands or other areas of high groundwater may require dewatering associated with the construction. The extent and duration of dewatering activities are discussed below.

There are two techniques commonly used by contractors to construct pipelines within the water table. These are dewatering the trench area and then constructing the pipeline in a dry trench condition, or directional boring through wet areas. Because of the shallow nature of the wastewater pipeline, trench dewatering is the most likely method a contractor would use for the Crandon Project.

Excavation for pipeline construction near wetlands will require that the trench be stabilized by installing a trench box, tight sheeting, or another method to enable the pipe to be properly installed and bedded. The method employed will be selected by the contractor based on pipe type and subsurface conditions. When required, dewatering associated with this work is expected to be minimal since the pipe depth along the right-of-way is shallow (i.e., less than 7 feet). Dewatering will be limited to drawing down the groundwater surface to a maximum of this depth for the time period necessary to complete pipeline installation. Trench dewatering involves placing clear stone (i.e., stone of a single gradation such as ¾-inch stone) at the base of the pipeline trench and installing dewatering pumps in the trench. The dewatering process primarily affects the trench area and the areas directly adjacent to it. Dewatering will occur for only the period of time the trench is open and the pipe installation is completed, usually a matter of hours at any given location. The potential drawdown impacts of trench dewatering are of short duration, and will affect only a very small area directly adjacent to the trench.

Given that dewatering will be primarily associated with construction near wetlands, it is not likely that domestic water wells will be affected since residences and other establishments that require wells are typically not located in wetland areas. If domestic water wells are located in the vicinity of construction dewatering activities, effects, if any, would be short-lived and disruption of water service would not be anticipated. Where unstable organic soils occur at the prescribed pipeline depth, overexcavation may be required to provide a stable surface on which to bed the pipe.

In most cases, water pumped from dewatering activities will be discharged back into the wetland or water body from which it was pumped. The contractor will be required to insure that sediment

is not being pumped into the receiving water body or wetland during dewatering work. A number of different methods are available to accomplish sediment removal. The method chosen is typically left up to the contractor since method selection depends on the site characteristics, available equipment, amount of water removed, and other factors. Two commonly used methods are temporary sedimentation ponds and settling tanks. Temporary sedimentation ponds could be constructed in close proximity to dewatering activities. Temporary sedimentation ponds are designed to retain water flow for the period of time necessary for fine particles to settle out, after which water is returned to the receiving water body. Settling tanks typically consist of a series of tanks into which water is pumped and detained for sufficient time to allow for the settlement of fine particles. Both of these methods are commonly used during construction involving dewatering to protect receiving water bodies.

3.5.6 Potential Excavation of Contaminated Soils or Groundwater

As with most pipeline construction projects, a potential to encounter contaminated soils and/or groundwater along the pipeline route exists. The final design of the pipeline will include a review of the available data concerning such sites. The final pipeline layout will attempt to avoid such areas to the extent practicable. If such an area is unavoidable, the practices listed below will be followed during construction.

- If the pipeline trench is advanced through a known area of contamination:
  - A scientist will be on-site to screen the soil and/or groundwater being removed for the presence of volatile substances.
  - Any soil contaminated with volatile substances will be handled in accordance with the appropriate regulations which may include disposing of the soil at a licensed landfill or in another approved manner.
  - If contaminated groundwater is encountered during pipeline construction, it will be properly disposed of, which may include pumping to a sanitary sewer or hauling the water to a wastewater treatment plant.
- If the pipeline trench encounters unanticipated contaminated soil and/or groundwater, procedures similar to those outlined above would be implemented. In addition, the appropriate regulatory agency will be notified.

4 Groundwater Withdrawal Impacts

Groundwater withdrawal effects could consist of impacts to private wells and water bodies due to mine dewatering, drawdown impacts due to the use of potable and non-potable wells, and drawdown impacts associated with conveyance pipeline dewatering during construction. Each of these topics is discussed below. In addition, the following narrative discusses the planned mitigation of unacceptable effects.

Since there are no groundwater withdrawals associated with the operation of the project's proposed soil absorption system, no drawdown effects would occur to private wells or water bodies in the vicinity of that project feature. Also, since the soil absorption system site is located north of Swamp Creek, a regional groundwater divide, impacts on private wells in its vicinity from mine dewatering will not occur. Therefore, groundwater withdrawal impacts to water bodies and private wells in the vicinity of the soil absorption system are not discussed below. The operation of the soil absorption system will actually mitigate groundwater impacts to Swamp Creek. This issue and other potential impacts associated with the operation of the soil absorption system are discussed in Section 4 of the project's EIR (Foth & Van Dyke, 1995/1998b).

4.1 Groundwater Withdrawal Impacts on Private Wells

Based on a review of the project's groundwater modeling results and the surveyed private wells, it is concluded that only wells located within areas with more than a 4-foot drawdown have the potential to be affected by the project. Using this criteria, there are 11 private wells located on 10 properties which are not currently owned by NMC that could be affected by the estimated drawdown resulting from mine dewatering. These wells are listed in Table 4-1. The location of the wells are shown on Figure 4-1.

A groundwater monitoring program will be in place to measure changes in area water table elevations long before any impacts occur to private wells. Well modifications or replacement will be made by NMC, if owner's permission is secured, based on the need demonstrated by the monitoring program. If practical, the existing pump will be lowered in the existing well to a depth that will allow continuous use. If this measure is impractical, then the well will be deepened and the pump lowered. If the existing well cannot be modified, than a new well can be constructed to a depth that will provide a reliable quantity and quality of groundwater.

4.2 Groundwater Withdrawal Impacts on Water Bodies

Potential groundwater withdrawal impacts to lakes and streams have been estimated by the project's regional groundwater flow model (GeoTrans, 1996, HSI GeoTrans, 1998). Based on this work, it was determined that it will be necessary to supplement water flow to several water bodies to replace water that will likely be lost due to mine dewatering. NMC has developed a surface water mitigation plan (Foth & Van Dyke, 1998a) which will be implemented once groundwater withdrawal impacts are observed in the vicinity of water bodies. The mitigation plan described in that report and in Section 4.12 of the project's *Mine Permit Application* (Foth &

Table 4-1

Domestic Wells Potentially Affected by Groundwater Withdrawal

Domestic Well Owner	Well Number
Becker, William J.	108
Betters, William[1]	118
Dix, Beverly[1]	114
Dietzler, Ruth[1]	115
Fritsche, Franklin J.	107
Haferman, Ralph W.	106
Kelchner, Robert M.	105
Kelchner, Robert M.	105a
Lijewski, Edward	144
Mantey, James P.	121
Menominee Tribe of Wisconsin	68
Pallen, Herman[1]	116
Parker, R.W.	143
Pieritz, Richard[1]	102
Schallock, Jerry L.	145
Walentowski, Clement	119
Yeager, Florence Ann[1]	120

[1]A land purchase option has been obtained by NMC for these properties.

Prepared by: JJA1
Checked by: XXC

Van Dyke, 1995/1998a) has been developed and designed to prevent the unreasonable detriment of public rights in waters of the state. Sections 4.2.1 and 4.2.2 discuss the effect of the proposed mitigation system on stream flows and lake levels for those water bodies that, under PWC conditions, may require mitigation and are categorized as Level I or Level II water bodies.

Also presented in the *Mine Permit Application* (Foth & Van Dyke, 1995/1998a) are monitoring plans which will be used to monitor the extent of drawdown. Such monitoring will enable NMC to assess which provisions of the project's contingency plan (outlined in Section 8 of the *Mine Permit Application*) may need to be implemented.

4.2.1 Effects of Mitigation on Stream Flow

Under PWC conditions, Creek 19-14 and Hoffman Springs/Creek are categorized as Level I and Level II hard water body streams, respectively. These water bodies are gaining streams. Mine dewatering will reduce the amount of groundwater discharging to these water bodies. As these water bodies are groundwater fed and will remain groundwater fed during mine operations, flow will not be lost to the aquifer during the drawdown period. Since the mitigation system will add the water directly to the stream/spring, the flow in the creek will be increased at all points downstream of the mitigation discharge point by the amount of water added. Since the mitigation discharge points for these two water bodies are at the headwaters, the flow in the creeks will be mitigated along the entire reach of the creek/spring.

4.2.2 Effects of Mitigation on Lake Levels

Under PWC conditions, Skunk Lake, Little Sand Lake, and Duck Lake are categorized as Level I and Level II water bodies. To assess the effectiveness of the mitigation plan, the regional groundwater model (HSI GeoTrans, 1998) was used to evaluate the lake stage in response to the addition of mitigation water to a lake. Appendix F of the *Surface Water Mitigation Plan* (Foth & Van Dyke, 1998a) provides a technical memorandum summarizing the results from the simulation, which showed that the head dependent seepage lakes can be effectively mitigated by adding water back into the lake.

4.3 Potable and Non-potable Well Drawdown Impacts

An assessment of the estimated drawdown caused by the potable well was incorporated into the project's groundwater flow modeling work (HSI GeoTrans, 1998). Since the TMA well and the mitigation well were not included in that analysis, a separate assessment presented in Appendix G has been completed. The effect of the first simulation used a transient pumping rate of 114 gpm for the TMA well, assuming the average rate for each pumping cycle lasts 140 days. The second simulation estimated the effect of steady state pumping at 45 gpm for the mitigation well. The simulations estimated the maximum drawdown for each well location. The results for each simulation are discussed below.

The first simulation evaluated the non-potable well proposed near the TMA that will pump intermittently as follows:

- For 100 days at 200 gpm for 12 hours/day, and
- For 40 days at 300 gpm for 12 hours/day.

This cycle is expected to occur every three years. The model simulation used a pumping rate of 114 gpm to represent an average rate for each pumping cycle lasting 140 days. The well will be screened in the outwash. The modeling results show that the simulated transient drawdown at the end of a 140-day cycle on the TMA well is in addition to the drawdown results from mine dewatering as presented in Section 3.2.1. Maximum drawdown near the well is 6.9 feet. The 2-foot contour extends out a distance of approximately 550 feet from the well. The simulation results for the transient TMA well demonstrate that the proposed well use will not result in any additional impacts to private wells or any observable changes or impacts to water bodies.

The second simulation considered a non-potable mitigation well located north of Swamp Creek pumping at 45 gpm. The well was considered to be screened in the outwash. The modeling results show the steady state drawdown at distances greater than 440 feet from the well will be less than 1 foot. Maximum drawdown near the well is estimated to be 2.7 feet. The 2-foot contour extends out a distance of approximately 50 feet from the well. The simulation results demonstrate that the proposed mitigation well use will not result in any additional impacts to private wells or observable changes or impacts to water bodies.

4.4 Water Supply Remediation

NMC has signed local agreements with the Town of Nashville and the Town of Lincoln. Both agreements include provisions regarding protections to owners of water supplies. Section 4.1 above identifies the following as possible techniques to remediate an insufficient quantity of water in a well.

- Lower the pump in the well if the well is a drilled well with the required additional depth.

- Deepen the existing well by drilling to a greater depth so that the impacts of drawdown are mitigated.

- Drill a new well to the depth necessary to minimize the potential impacts of drawdown.

Based on the recently completed update to the project's groundwater flow modeling work (HSI GeoTrans, 1998), the maximum predicted drawdown for a private domestic water well will be 3 to 8 feet for the best engineering judgement case and 3 to 10 feet for the practical worst case. It is unlikely that such a lowering of the groundwater level will noticeably affect the future water quality of an existing well once groundwater levels are reestablished. While it is true that some oxidation reactions may occur during groundwater drawdown, and reduction reactions may occur during groundwater recovery, the effects of these changes on groundwater quality should be

similar to the natural processes currently experienced during wet and dry periods which result in groundwater fluctuations of several feet. Therefore, oxidation processes beyond those that already occur in the glacial aquifer are not expected to be enhanced due to mine dewatering. In the unlikely event that affects do occur, the remedies as outlined above would apply.

Section 3.5.5 above discusses the expected dewatering techniques to be used during pipeline construction. Trench dewatering typically confines dewatering impacts to the immediate vicinity around the trench and to only the period of time necessary to dig the trench, install the pipe bedding, and connect the pipe section. Typically only 20 to 40 feet of trench will be opened and dewatered at a time, with the duration of dewatering typically restricted to one working day (8 to 12 hours) or less. Thus, dewatering activities associated with pipeline construction will be short in duration and confined to a relatively small area adjacent to the pipeline trench. Since, as described in Section 3.5.5, the depth of dewatering will be shallow, the duration will be short and the extent confined to the area directly adjacent to the trench, water quantity impacts, if any, to nearby shallow private water supply wells are not expected to be significant.

The underground conveyance pipelines are designed as a sealed system with completely sealed, welded joints. Once installed and prior to backfilling, the pipelines will be pressure and leak tested using either air or water to verify that joints and connections are properly sealed and there are no leaks. If water is used, it will either be treated water from the project's wastewater treatment plant or water from wells in the vicinity. Water used for testing will be left in the pipe.

In the unlikely event a leak occurs and a domestic water well is adversely impacted, NMC would address the impact by repairing the pipeline and implementing appropriate water well remediation which could consist of any of the following:

- Flushing the well.
- Drilling a new well in a new location.
- Providing water through a community well.

4.5 Water Quality Assessment

NMC has agreed to perform a water quality assessment for private wells within the vicinity of the mine. The background groundwater chemistry will be defined prior to the start of mine dewatering activities.

5 References

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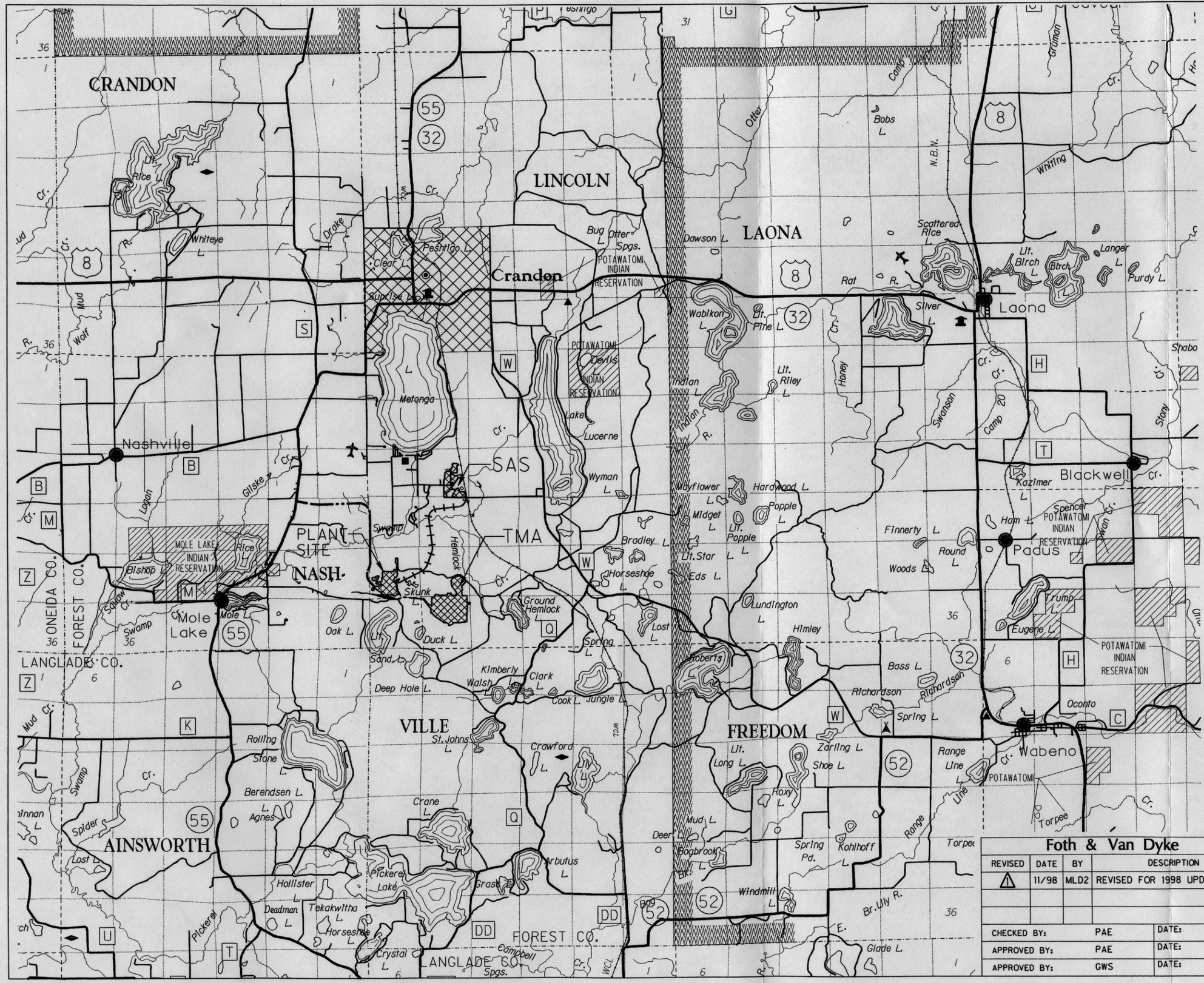
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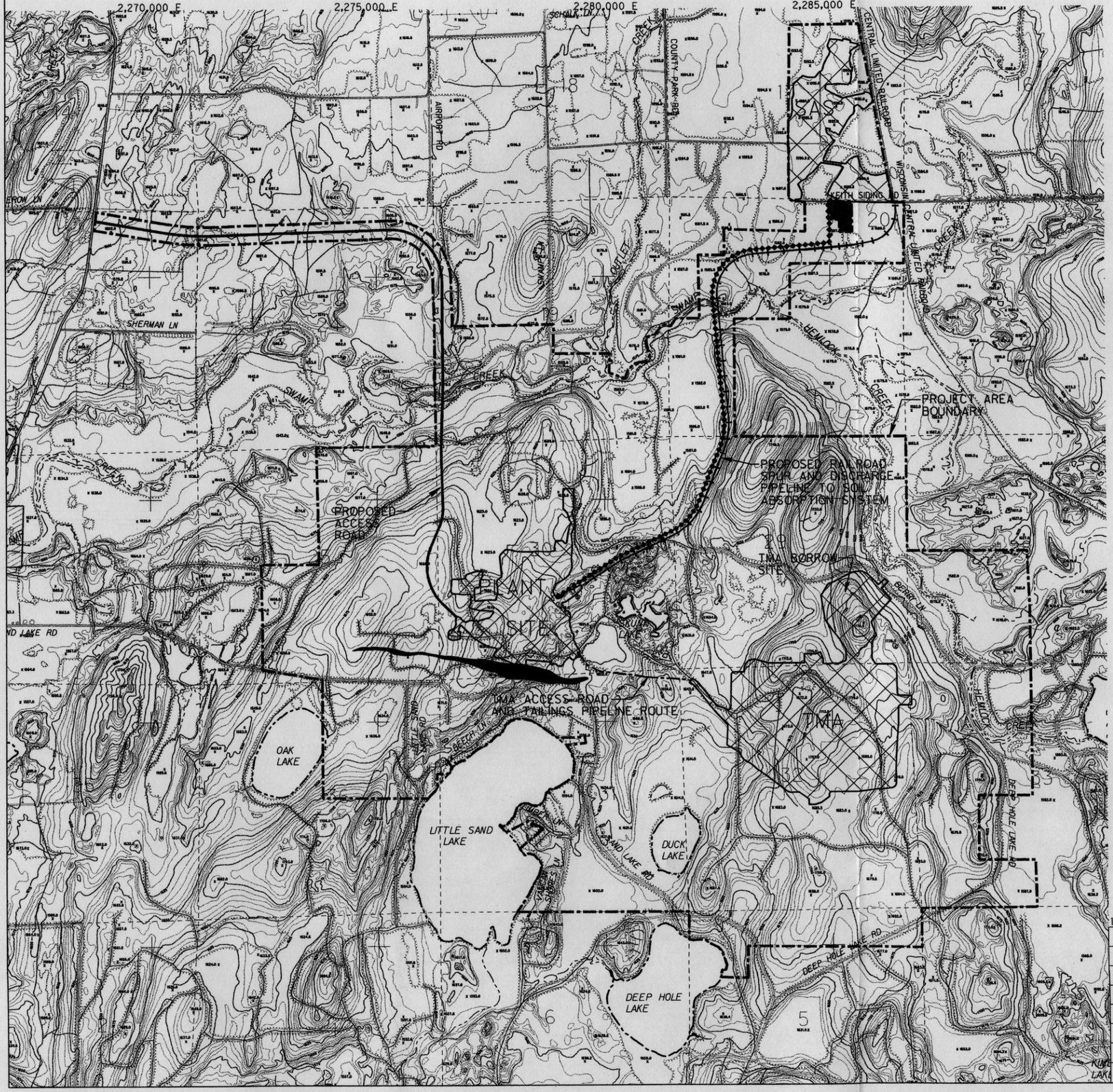
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FIGURES FOR HIGH CAPACITY WELL PERMIT APPLICATION


CRANDON
LINCOLN
LAONA
Crandon
Laona
Nashville
SAS
PLANT SITE NASH-
TMA
VILLE
FREEDOM
AINSWORTH
Blackwell
Padus
Wabeno
Mole Lake
ONEIDA CO.
FOREST CO.
LANGLADE CO.
POTAWATOMI INDIAN RESERVATION
MOLE LAKE INDIAN RESERVATION
Peshtigo L.
Clear L.
Sunrise L.
Metonga
Bug L.
Otter Spgs.
Dawson L.
Wabikon L.
Lit. Pine L.
Indian L.
Lit. Riley L.
Lake Lucerne
Wyman L.
Bradley L.
Horseshoe L.
Skunk L.
Ground Hemlock L.
Duck L.
Oak L.
Spring L.
Lost L.
Sand L.
Deep Hole L.
Kimberly L.
Walsh L.
Clark L.
Cook L.
Jungle L.
St. Johns L.
Crawford L.
Crane L.
Agnes L.
Berendsen L.
Rolling Stone L.
Arbutus L.
Pickerel Lake
Grass L.
Hollister L.
Deadman L.
Tekakwitha L.
Horseshoe L.
Crystal L.
Campbell Spgs.
Wayflower L.
Hardwood L.
Midget L.
Lit. Popple L.
Popple L.
Lit. Star L.
Eds L.
Lundington L.
Roberts L.
Himley L.
Mud L.
Deer L.
Bogbrook Br.
Windmill L.
Glade L.
Finnerty L.
Round L.
Woods L.
Ham L.
Trump L.
Eugene L.
Bass L.
Richardson
Spring L.
Zarling L.
Shoe L.
Long L.
Lit. Long L.
Roxy L.
Spring Pd.
Kohlhoff L.
Range Line
Scattered Rice L.
Lit. Birch L.
Birch L.
Langer L.
Purdy L.
Silver L.
Bobs L.
Kazimer L.
Rice L.
Whiteye L.
Drake
Mud
Wolf
Logan
Gilske
Swamp
Hemlock
Squaw Cr.
Otter
Camp 20
Swanson
Honey
Whiting
Graman
Stony
Shabo
Swan Cr.
Torpee
Torpee
Rat R.
Indian R.
Br. Lily R.
N.B.N.
Oconto
POTAWATOMI
Lily
Spencer
Range Line
Range Line
E.
W.C.L.
Dig
Cr.
R.
Lit.
L.
Pd.
Br.
Bog
Jungle
Jungle L.
Lily R.
Lily
Torpee
Torpee
Range
Line
Range
Line
Range
Line



LEGEND

- LAKES
- STREAMS
- EXISTING ROAD
- 1675 — EXISTING CONTOUR
- x 1692.0 — EXISTING SPOT ELEVATION
- SECTION LINE
- ORE BODY
- PROPOSED ACCESS ROAD
- PROPOSED TMA ACCESS ROAD AND TAILINGS PIPELINE ROUTE
- PROPOSED RAILROAD SPUR
- PROPOSED FACILITIES
- PROJECT AREA BOUNDARY
- PROPOSED SOIL ABSORPTION SYSTEM PIPELINE
- PROPERTY NOT INCLUDED WITHIN PROJECT AREA

N

NOTES:

1. TOPOGRAPHIC BASE MAP DIGITIZED FROM 1" = 1000' SCALE, 5' CONTOUR INTERVAL MAP PREPARED BY AERO-METRIC ENGINEERING, INC., SHEBOYGAN, WISCONSIN. DATE OF PHOTOGRAPHY APRIL 28, 1976.
2. HORIZONTAL DATUM BASED ON WISCONSIN STATE PLANE COORDINATE SYSTEM - NORTH ZONE.
3. VERTICAL DATUM BASED ON MEAN SEA LEVEL DATUM. CONTOUR INTERVAL IS 5 FEET.
4. SECTION LINES DIGITIZED FROM 7.5' SERIES USGS MAPS.
5. ORE BODY OUTLINE IS REPRESENTATIVE OF THE SUBCROP AT THE BASE OF THE OVERBURDEN.

Foth & Van Dyke

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APPROVED BY:	PAE	DATE:	MAY '95
APPROVED BY:	GWS	DATE:	MAY '95

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Mining for the Future Commitment

FIGURE 2-2

PROJECT AREA

Scale: 0 1200' 2400' Date: MAY, 1995

Prepared By: Foth & Van Dyke By: JRB2 93C049

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N

LEGEND

—1675—	EXISTING CONTOUR
x 1692.0	SPOT ELEVATION
----------	SECTION LINE
	ORE BODY
———	PLANT SITE LIMITS OF DISTURBANCE

NOTES:

1. TOPOGRAPHIC BASE MAP DIGITIZED FROM 1"=1000' SCALE, 5' CONTOUR INTERVAL MAP PREPARED BY AERO-METRIC ENGINEERING, INC., SHEBOYGAN, WISCONSIN. DATE OF PHOTOGRAPHY APRIL 28, 1976.
2. HORIZONTAL DATUM BASED ON WISCONSIN STATE PLANE COORDINATE SYSTEM - NORTH ZONE.
3. VERTICAL DATUM BASED ON MEAN SEA LEVEL DATUM. CONTOUR INTERVAL IS FIVE FEET.
4. COUNTY AND TOWNSHIP LINES DIGITIZED FROM 7.5' SERIES USGS MAPS.

SCALE
0 200' 400'

TYPICAL REPRESENTATION: REFINEMENTS MAY BE MADE PRIOR TO CONSTRUCTION.

Foth & Van Dyke

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1	11/98	MLD2	REVISED FOR 1998 UPDATE

CHECKED BY:	JKSI	DATE:	MAY '95
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APPROVED BY:	JWS	DATE:	MAY '95

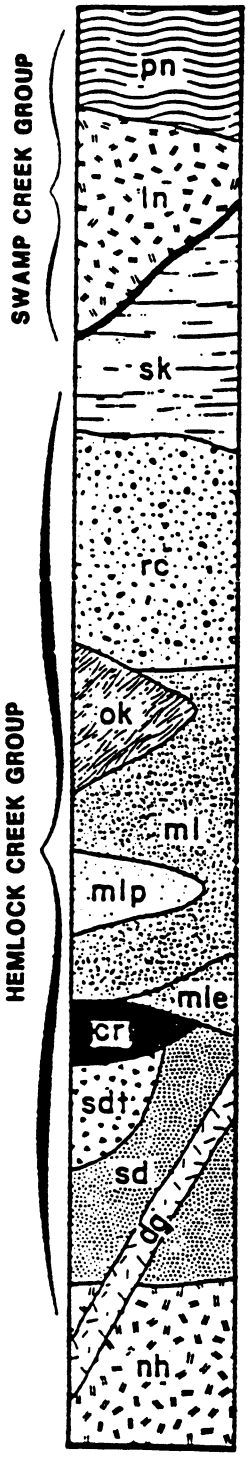
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FIGURE 2-3

PLANT SITE LAYOUT

Scale:	AS SHOWN	Date:	MAY, 1995
Prepared By: Foth & Van Dyke	By: JRB2	93C049	

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20 NOV 98 kmb



PINE FORMATION (pn)
Cherty tuff and argillite.

LINCOLN FORMATION (ln)
Quartz porphyritic rhyolite flows with minor interflow tuff, chert and argillite.

SKUNK LAKE FORMATION (sk)
Predominantly fine to coarse ash chert tuff, some cherty and very minor argillite.

RICE LAKE FORMATION (rc)
Volcanic debris flows (blocky chloritic and minor siliceous lapilli and breccia size debris) and eutaxitic ash flows, some chert.

OAK LAKE FORMATION (ok)
Sequence of cherty tuff and sericitic tuff.

MOLE LAKE FORMATION (ml)
Predominantly mafic ash tuff.

PROSPECT MEMBER (mlp)
Volcanic debris flow consisting of siliceous, lapilli size debris.

EAGLE MEMBER (mle)
Volcanic greywacke.

CRANDON FORMATION (cr)
Laminated, bedded & replacement sulfides (zinc ore) interbedded with pyritic argillite, pyritic felsic tuff and chert.

SAND LAKE FORMATION (sd)
Sequence of fine felsic tuffs and minor felsic debris & lava flows.

TOWNSHIP MEMBER (sdt)
Volcanic vent breccia affected by multiple stage hydrothermal alteration and sulfide enrichment.

NASHVILLE FORMATION (nh)
Feldspar porphyritic mafic flows.

DUCK LAKE GABBRO (dg)
Fresh, 2 pyroxene gabbro.
Cross cuts nh and sd.

Foth & Van Dyke

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APPROVED BY:	PAE	DATE:	APR.'95
APPROVED BY:	GWS	DATE:	APR.'95

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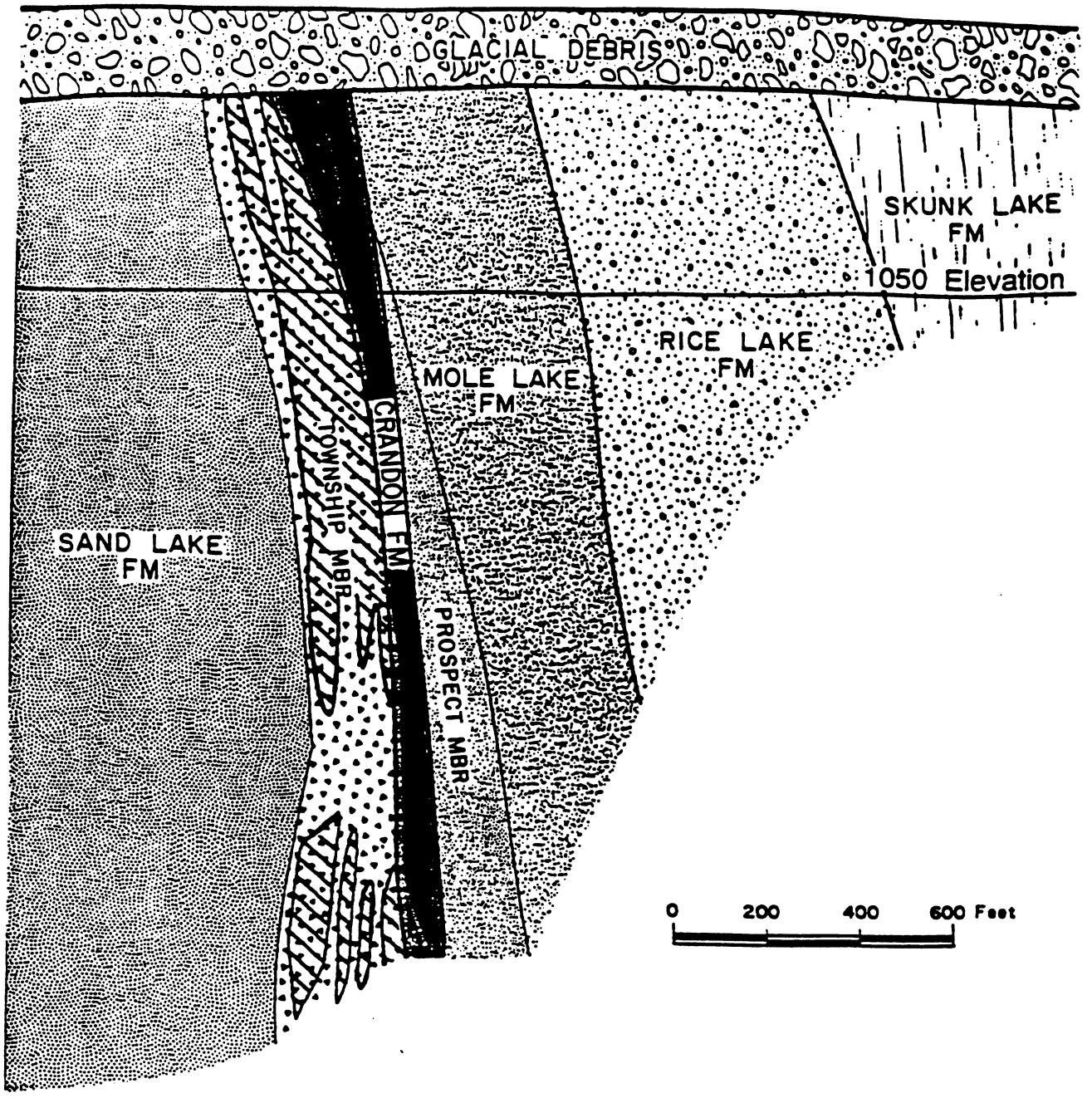
FIGURE 2-4

STRATIGRAPHIC COLUMN

Scale: NOT TO SCALE		Date:	MARCH, 1995
Prepared By: Foth & Van Dyke	By: BSH		93C049

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LOOKING WEST



ZINC ORE

COPPER ORE

Foth & Van Dyke				
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APPROVED BY:	PAE		DATE:	APR.'95
APPROVED BY:	GWS		DATE:	APR.'95

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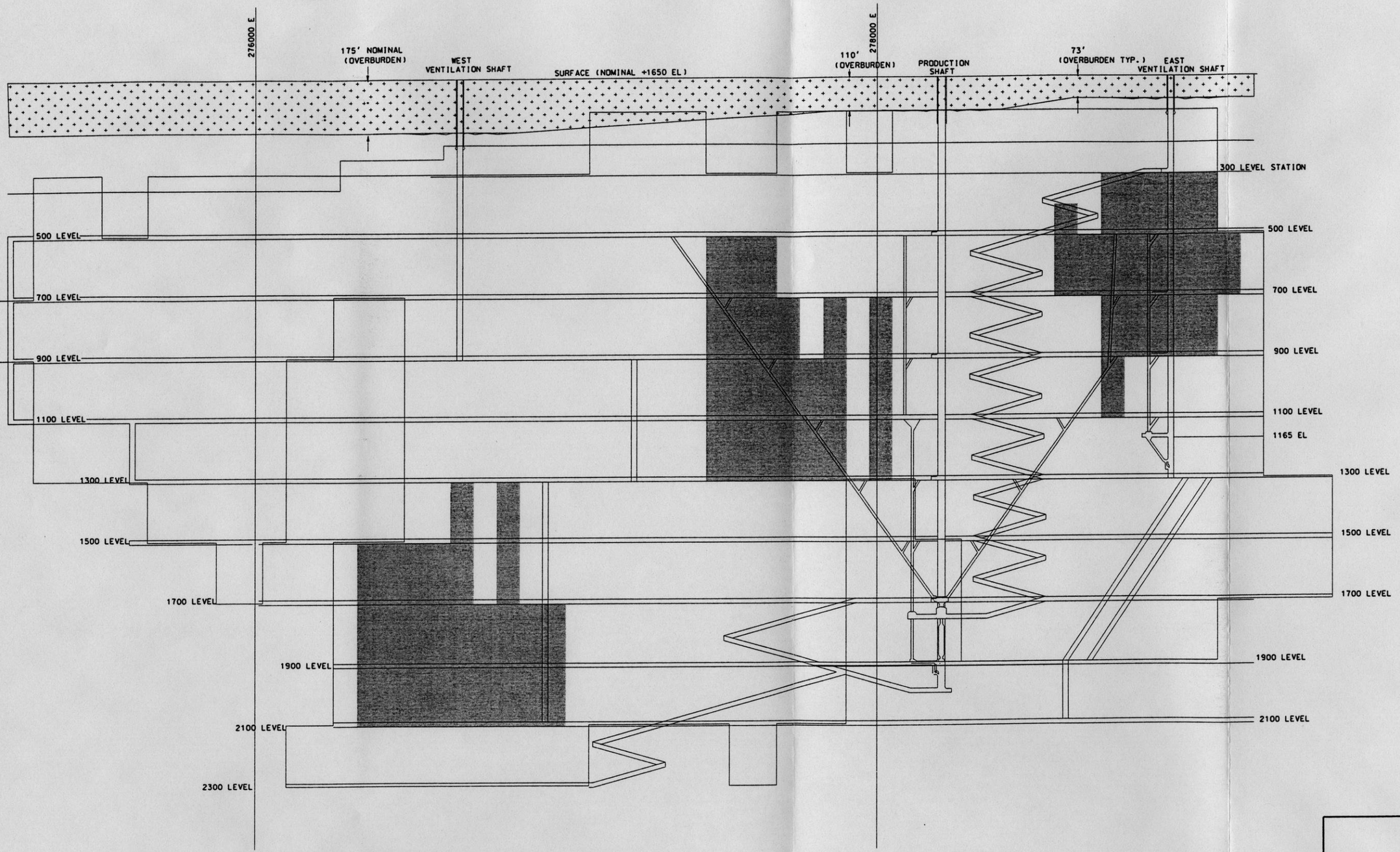
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FIGURE 2-5

GENERALIZED GEOLOGIC CROSS SECTION C-C'

Scale: NOT TO SCALE	Date: MARCH, 1995	
Prepared By: Foth & Van Dyke	By: BSH	93C049

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LEGEND

EARLY PRODUCTION AREAS

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APPROVED BY:	PAE	DATE:	APR. '95		
APPROVED BY:	GWS	DATE:	APR. '95		

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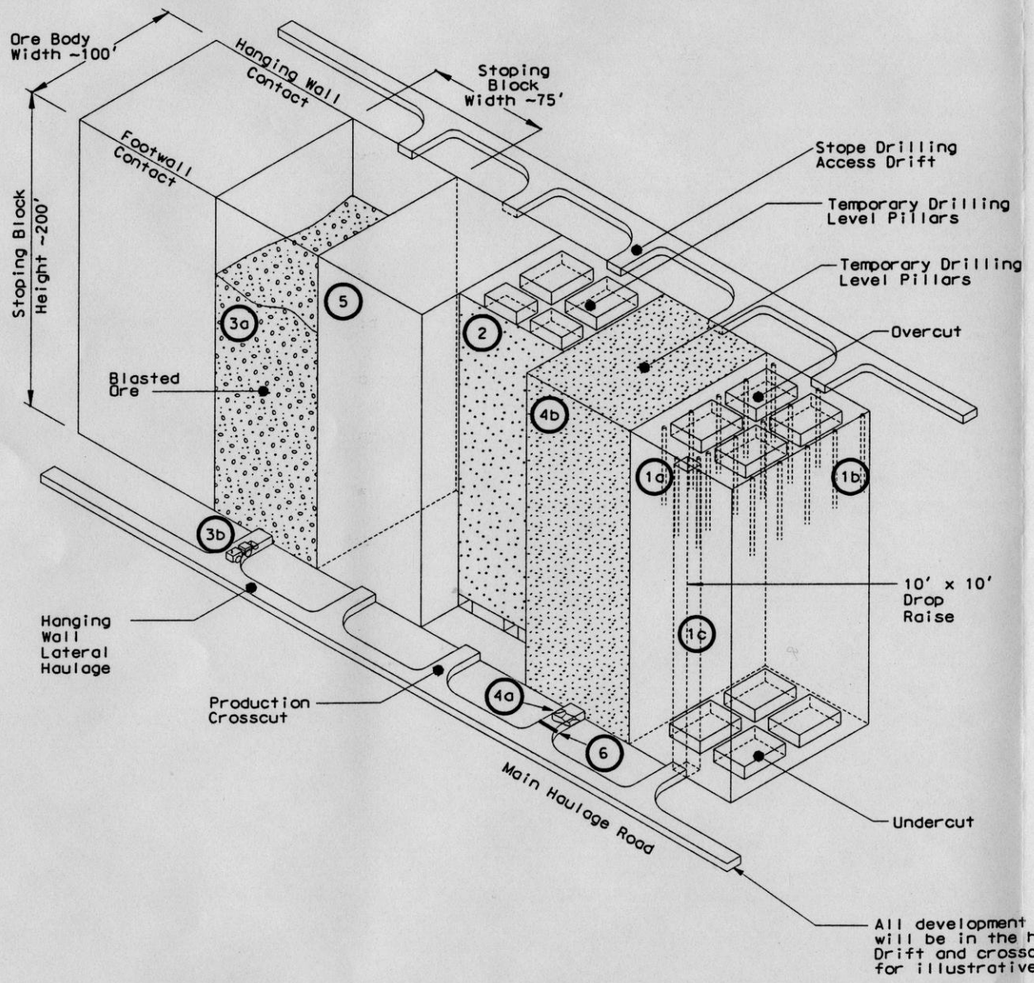
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FIGURE 2-6

SCHEMATIC LONGITUDINAL SECTION (LOOKING NORTH)

Scale: NOT TO SCALE	Date: APRIL, 1995	
Prepared By: Foth & Van Dyke	By: BSH	93C049

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LEGEND

(1a) Develop overcut and undercut.

(1b) Drill off stope using all downholes from overcut.

(1c) Open drop raise and muck out.

(2) Open slot around drop raise until 30% to 50% void space has been achieved. muck out.

(3a) Blast rest of stope in one blast.

(3b) Muck out stope using remote control for final cleanup.

(4a) Block access to undercut with waste rock.

(4b) Backfill stope from overcut with paste backfill.

(5) Alternate stoping block/pillar to be mined after backfilling adjacent stopes.

(6) Establish ventilation stoppage top and bottom to inhibit oxygen transfer into stope.

Foth & Van Dyke					
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1	11/98	MLD2	REVISED FOR 1998 UPDATE		
CHECKED BY:		JKSI	DATE:	APR. '95	
APPROVED BY:		PAE	DATE:	APR. '95	
APPROVED BY:		GWS	DATE:	APR. '95	

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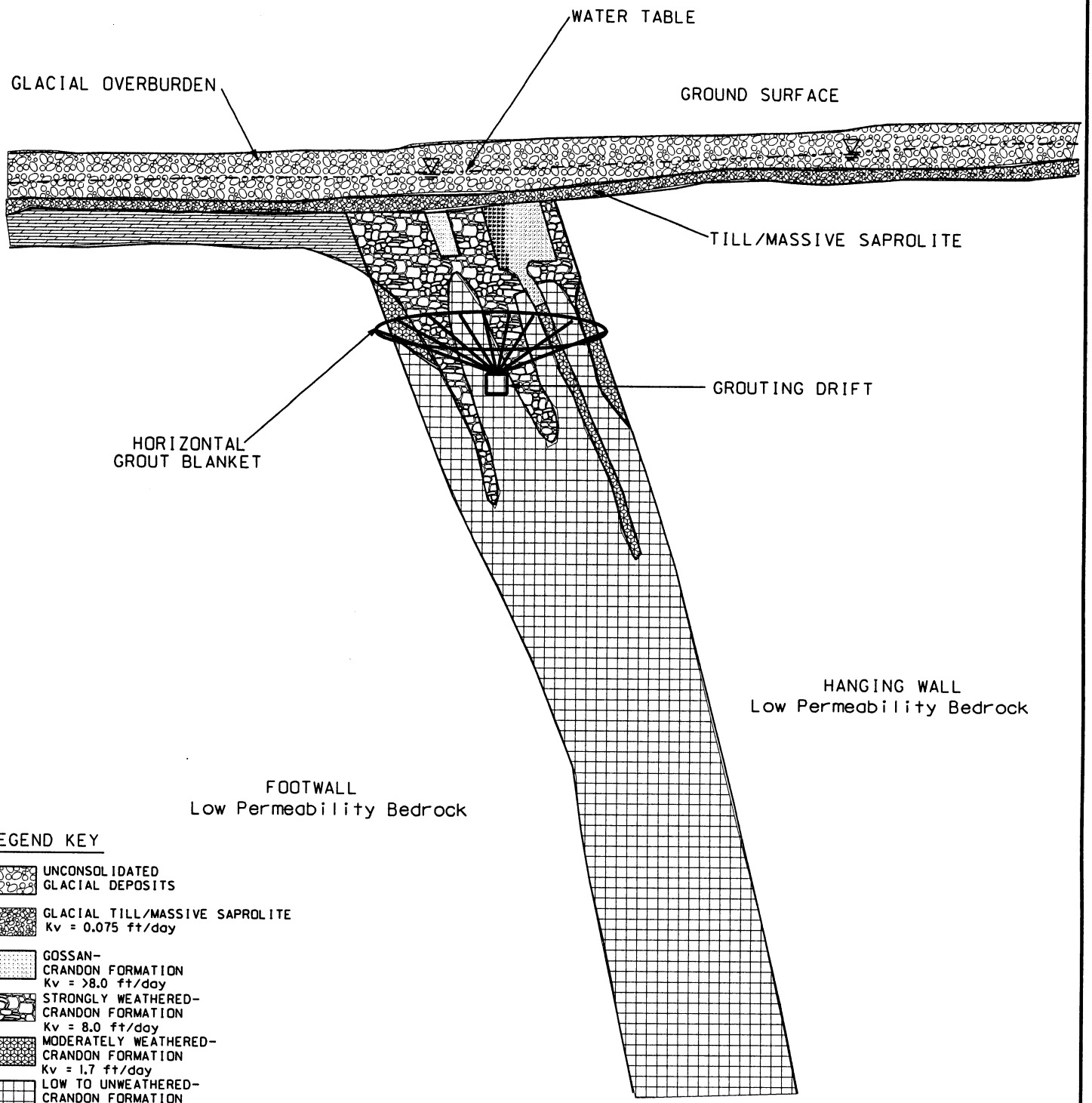
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FIGURE 2-7

CONCEPTUAL STOPING SEQUENCE

Scale: NOT TO SCALE	Date: MARCH, 1995	
Prepared By: Foth & Van Dyke	By: BSH	93C049

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LEGEND KEY

- UNCONSOLIDATED GLACIAL DEPOSITS
- GLACIAL TILL/MASSIVE SAPROLITE Kv = 0.075 ft/day
- GOSSAN-CRANDON FORMATION Kv = >8.0 ft/day
- STRONGLY WEATHERED-CRANDON FORMATION Kv = 8.0 ft/day
- MODERATELY WEATHERED-CRANDON FORMATION Kv = 1.7 ft/day
- LOW TO UNWEATHERED-CRANDON FORMATION Kv = <0.012 ft/day
- STRONGLY WEATHERED-FOOTWALL Kv = 0.23 ft/day
- LOW PERMEABILITY-FOOTWALL AND HANGING WALL Kv = <0.048 ft/day

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APPROVED BY:	TWS	DATE:	NOV. '98
APPROVED BY:	GWS	DATE:	NOV. '98

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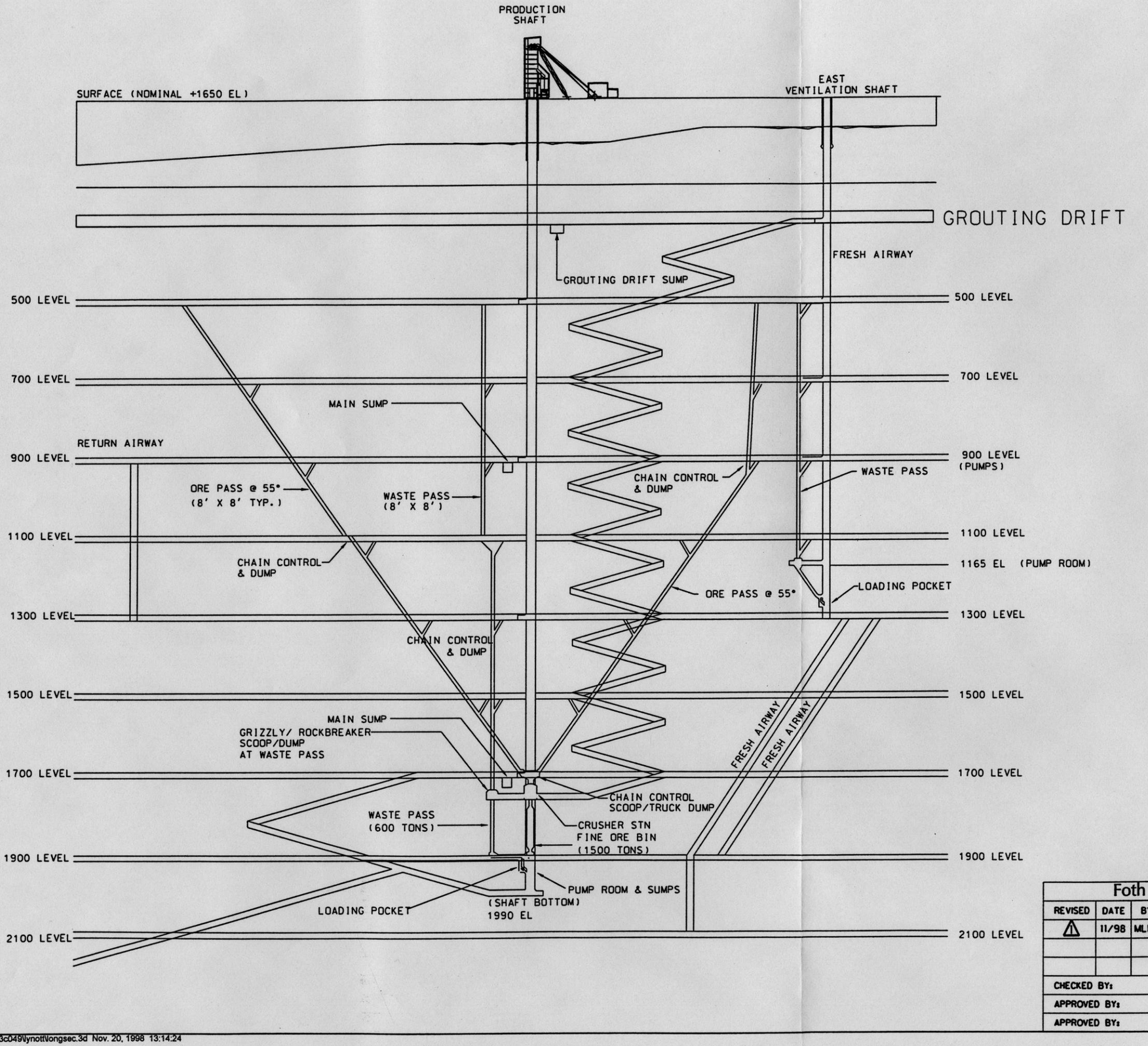
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FIGURE 2-8

TYPICAL GROUT BLANKET FAN

Scale: NOT TO SCALE		Date: NOVEMBER, 1998	
Prepared By: Foth & Van Dyke		By: JRB2	93C049

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APPROVED BY:	PAE	DATE:	APR. '95
APPROVED BY:	GWS	DATE:	APR. '95

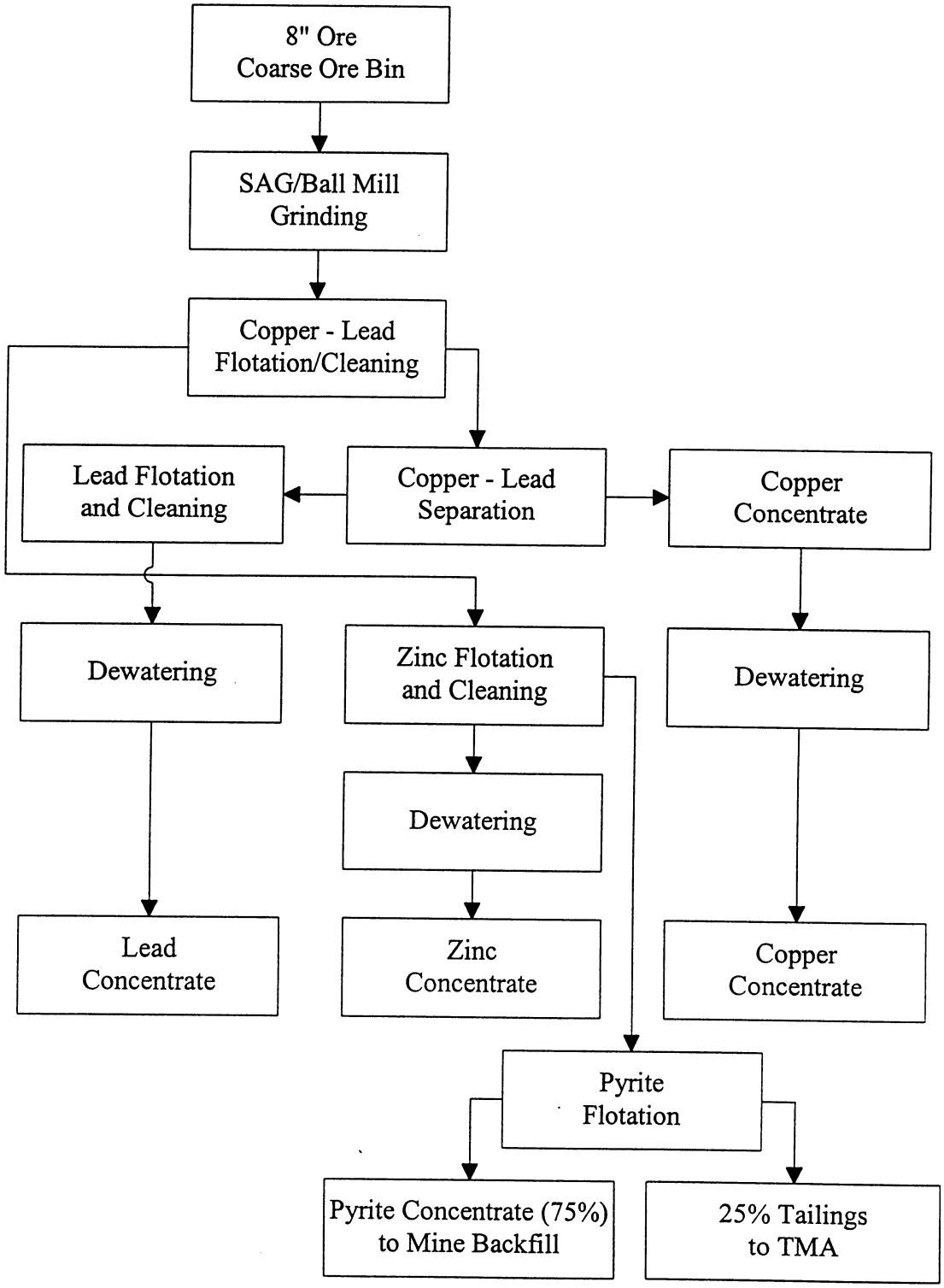
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FIGURE 2-9

MINE DRAINAGE SCHEMATIC

Scale: NOT TO SCALE		Date:	APRIL, 1995
Prepared By: Foth & Van Dyke	By: BSH		93C049

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APPROVED BY:	PAE	DATE:	APR.'95
APPROVED BY:	GWS	DATE:	APR.'95

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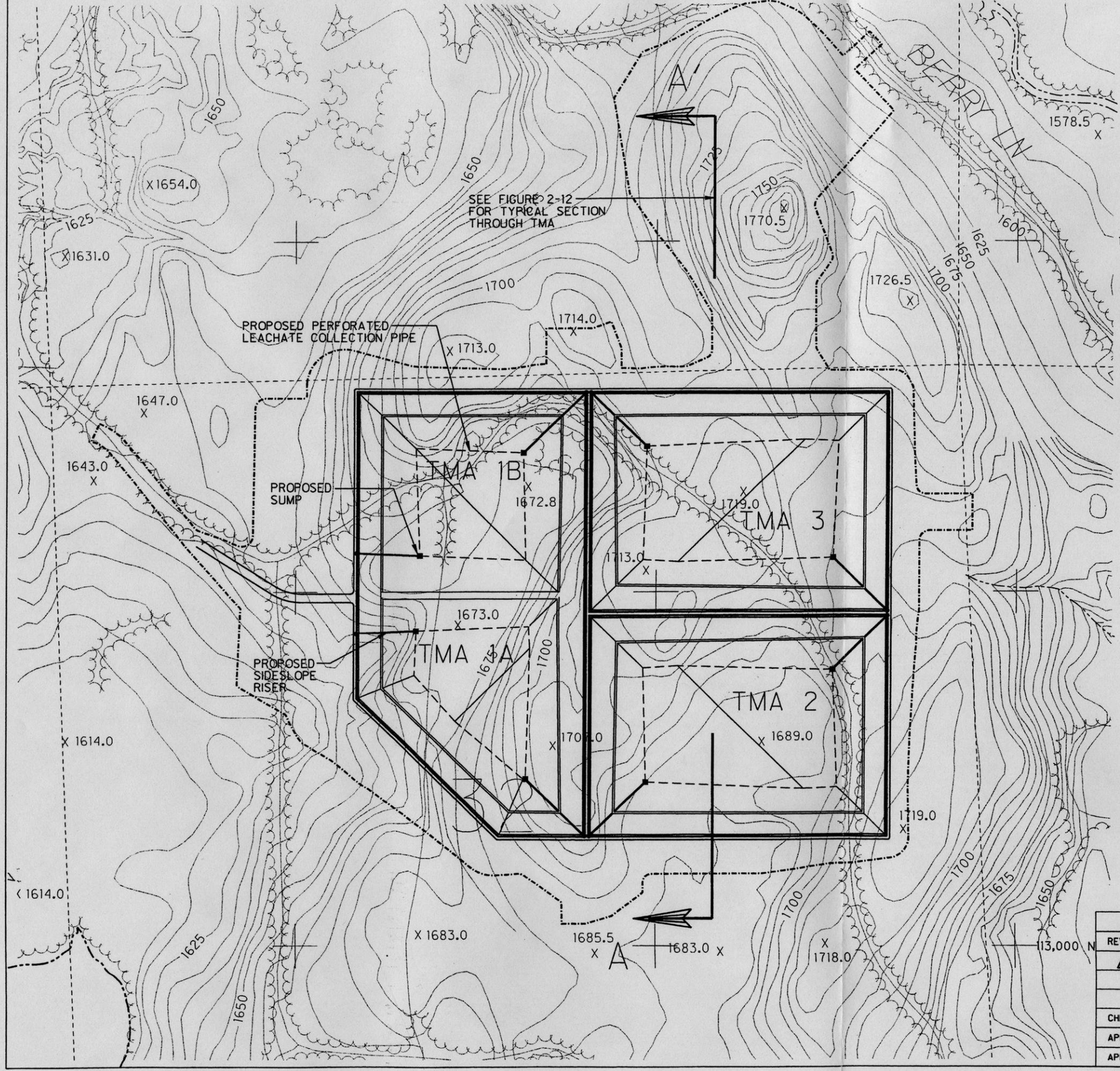
FIGURE 2-10

CONCENTRATOR PROCESS FLOWSHEET

Scale: NOT TO SCALE		Date: MARCH, 1995	
Prepared By: Foth & Van Dyke	By: BSH	93C049	

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N

LEGEND

- LAKES
- STREAMS
- EXISTING ROAD
- —1675— EXISTING CONTOUR
- X 1692.0 SPOT ELEVATION
- SECTION LINE
- APPROXIMATE LIMITS OF DISTURBANCE

NOTES:

1. TOPOGRAPHIC BASE MAP DIGITIZED FROM 1"=1000' SCALE, 5' CONTOUR INTERVAL MAP PREPARED BY AERO-METRIC ENGINEERING, INC., SHEBOYGAN, WISCONSIN. DATE OF PHOTOGRAPHY APRIL 28, 1976.
2. HORIZONTAL DATUM BASED ON WISCONSIN STATE PLANE COORDINATE SYSTEM - NORTH ZONE.
3. VERTICAL DATUM BASED ON MEAN SEA LEVEL DATUM. CONTOUR INTERVAL IS FIVE FEET.
4. COUNTY AND TOWNSHIP LINES DIGITIZED FROM 7.5' SERIES USGS MAPS.

SCALE
0 300' 600'

TYPICAL REPRESENTATION: REFINEMENTS MAY BE MADE PRIOR TO CONSTRUCTION.

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APPROVED BY:	PAE	DATE: MAY, '95
APPROVED BY:	GWS	DATE: MAY, '95

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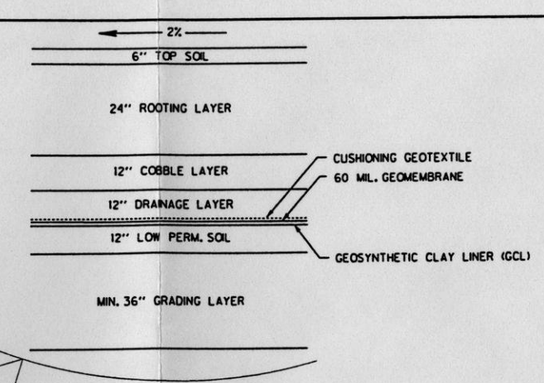
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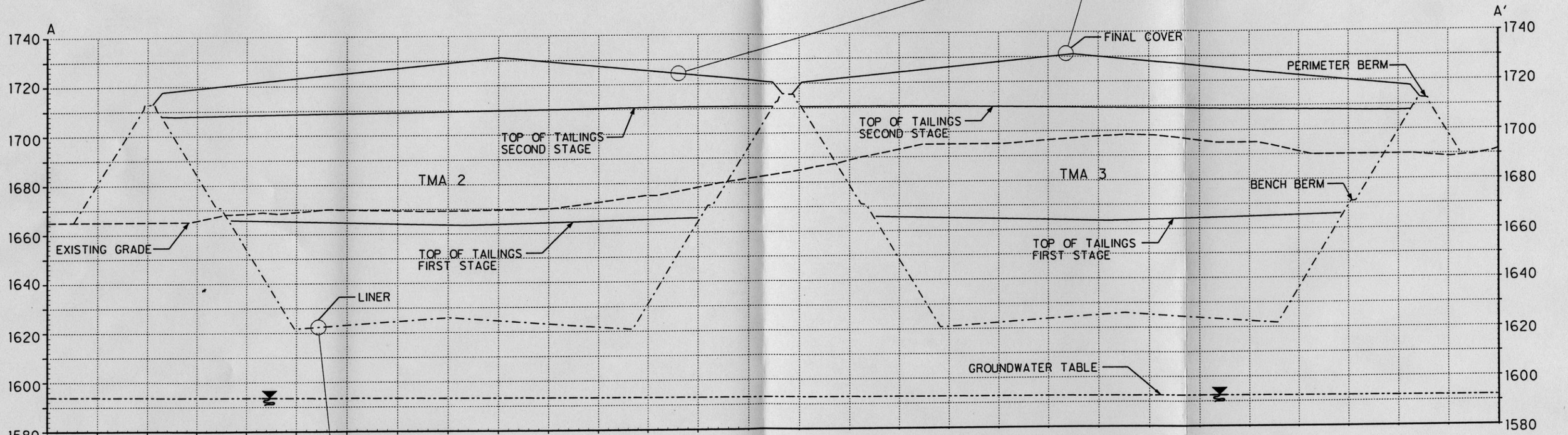
FIGURE 2-11

PROPOSED TMA LAYOUT

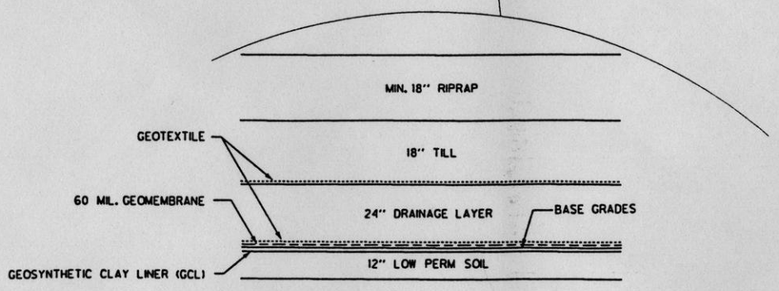
Scale: AS SHOWN		Date:	MAY, 1995
Prepared By: Foth & Van Dyke	By: MRS		93C049

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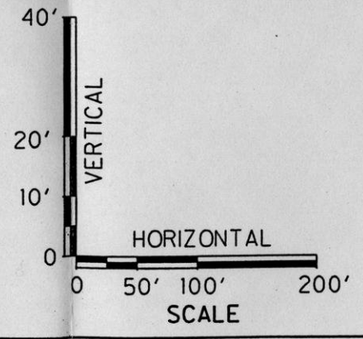




NOTE: VERTICAL SCALE IS EXAGGERATED



TYPICAL CROSS SECTION A-A' THROUGH TMA



TYPICAL REPRESENTATION: REFINEMENTS MAY BE MADE PRIOR TO CONSTRUCTION

Foth & Van Dyke

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APPROVED BY:	GWS	DATE: MAY '95

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FIGURE 2-12

TYPICAL CROSS SECTION THROUGH TMA

Scale: AS SHOWN		Date: MAY, 1995	
Prepared By: Foth & Van Dyke	By: MRS	93C049	

2,280,000 E

2,285,000 E

2,290,000 E

130,000 N

125,000 N

LAKE METONGA

SCHALK LN

ROHR LN

COUNTY PARK RD

OUTLET CREEK

APPROXIMATE LIMITS OF SOIL ABSORPTION SYSTEM SITE

Z16 (NORTH)

A

B

C

D

E

F

T4

CREEK 17-15

Z16 (CENTRAL)

EXCAVATED DITCH

LAKE 17-16

Z16 (SOUTH)

KEITH SIDING RD

SWAMP CREEK

HEMLOCK CREEK

PROPOSED RAILROAD SPUR

PROPOSED PIPELINE ROUTE

WISCONSIN CENTRAL LIMITED RAILROAD

N

LEGEND

- LAKES
- STREAMS
- EXISTING ROAD
- 1675 EXISTING CONTOUR
- SWAMP/WETLAND
- TRAILS
- TREES
- RAILROAD
- WETLANDS
- A PROPOSED SOIL ABSORPTION SYSTEM LOCATION
- PROPOSED SAS PIPELINE ROUTE
- PROPOSED RAILROAD SPUR
- APPROXIMATE LIMITS OF SOIL ABSORPTION SYSTEM SITE
- Z16 WETLAND NAME
- DISTURBED WETLAND AREA NOT PREVIOUSLY DELINEATED AS A WETLAND

NOTES:

1. SAS TOPOGRAPHY AND WETLAND SPOT ELEVATIONS NORTH OF KEITH SIDING ROAD FROM SURVEY COMPLETED BY FOTH & VAN DYKE IN LATE SUMMER, 1998. CONTOUR INTERVAL IS ONE FOOT.
2. TOPOGRAPHY, WATER BODIES, WETLANDS, ETC. OUTSIDE SAS AREA BASED ON TOPOGRAPHIC BASE MAP DIGITIZED FROM THE 1" = 1000' SCALE 5 FOOT CONTOUR INTERVAL MAP PREPARED BY AERO-METRIC ENGINEERING INC., SHEBOYGAN, WI. DATE OF PHOTOGRAPHY APRIL 28, 1976.
3. HORIZONTAL DATUM BASED ON WISCONSIN STATE PLANE COORDINATE SYSTEM - NORTH ZONE.
4. VERTICAL DATUM BASED ON MEAN SEA LEVEL DATUM.

Foth & Van Dyke

REVISED	DATE	BY	DESCRIPTION

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APPROVED BY:	GWS	DATE:	NOV. '98

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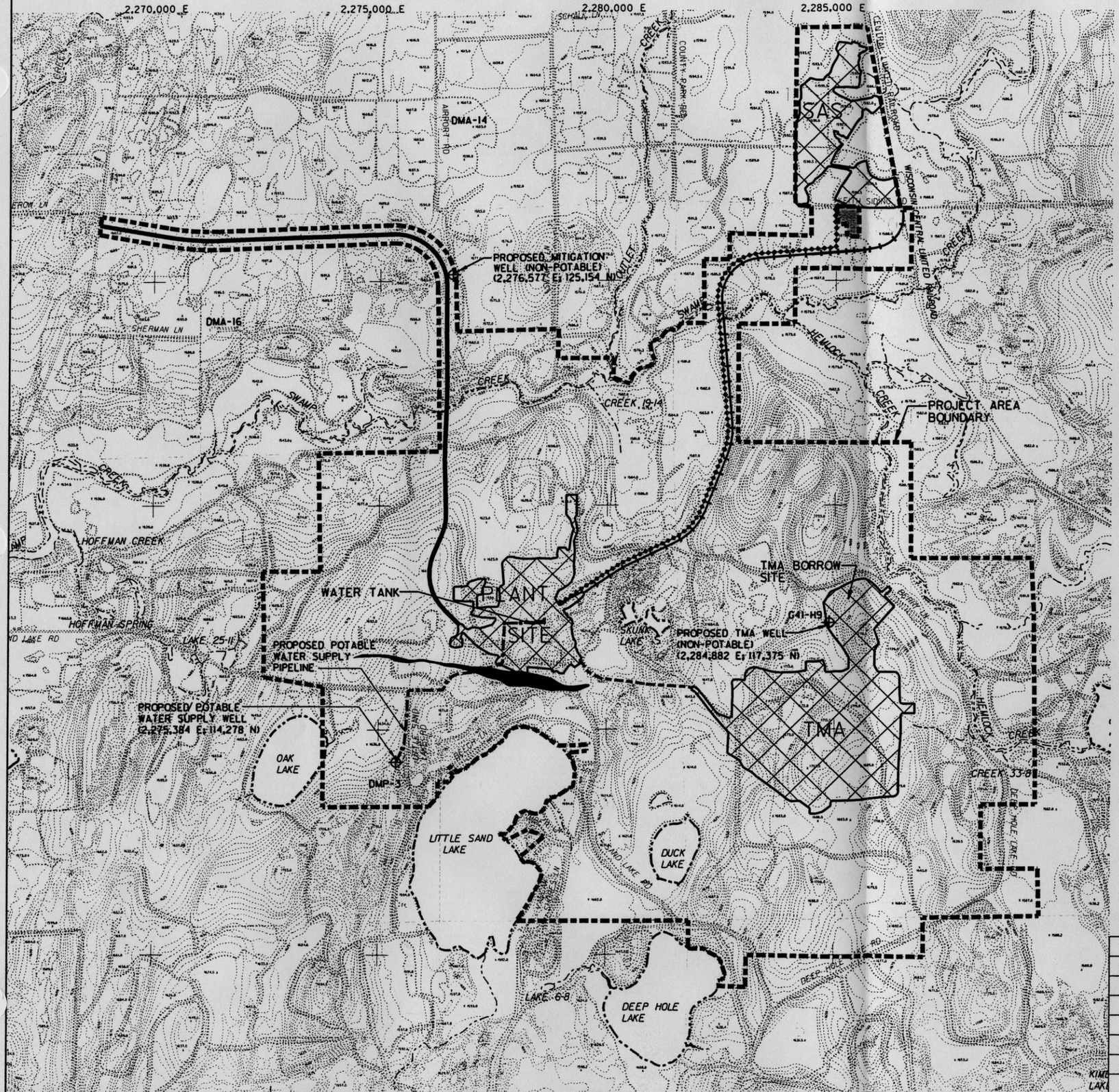
FIGURE 2-13

DISCHARGE PIPELINE AND SOIL ABSORPTION SYSTEM

Scale: 0 500' 1000' | Date: NOVEMBER, 1998

Prepared By: Foth & Van Dyke | By: JOW | 93C049

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LEGEND

- LAKES
- STREAMS
- EXISTING ROAD
- 1675 EXISTING CONTOUR
- x 1692.0 EXISTING SPOT ELEVATION
- SECTION LINE
- ORE BODY
- PROPOSED ACCESS ROAD
- PROPOSED TMA ACCESS ROAD AND TAILINGS PIPELINE ROUTE
- PROPOSED RAILROAD SPUR
- PROPOSED FACILITIES
- PROJECT AREA BOUNDARY
- PROPOSED SOIL ABSORPTION SYSTEM PIPELINE
- PROPERTY NOT INCLUDED WITHIN PROJECT AREA
- DMA-14 GROUNDWATER MONITORING WELL
- PROPOSED MITIGATION AND WATER SUPPLY WELLS

NOTES:

1. TOPOGRAPHIC BASE MAP DIGITIZED FROM 1" = 1000' SCALE, 5' CONTOUR INTERVAL MAP PREPARED BY AERO-METRIC ENGINEERING, INC., SHEBOYGAN, WISCONSIN. DATE OF PHOTOGRAPHY APRIL 28, 1976.
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3. VERTICAL DATUM BASED ON MEAN SEA LEVEL DATUM. CONTOUR INTERVAL IS 5 FEET.
4. SECTION LINES DIGITIZED FROM 7.5' SERIES USGS MAPS.
5. ORE BODY OUTLINE IS REPRESENTATIVE OF THE SUBCROP AT THE BASE OF THE OVERBURDEN.

Foth & Van Dyke

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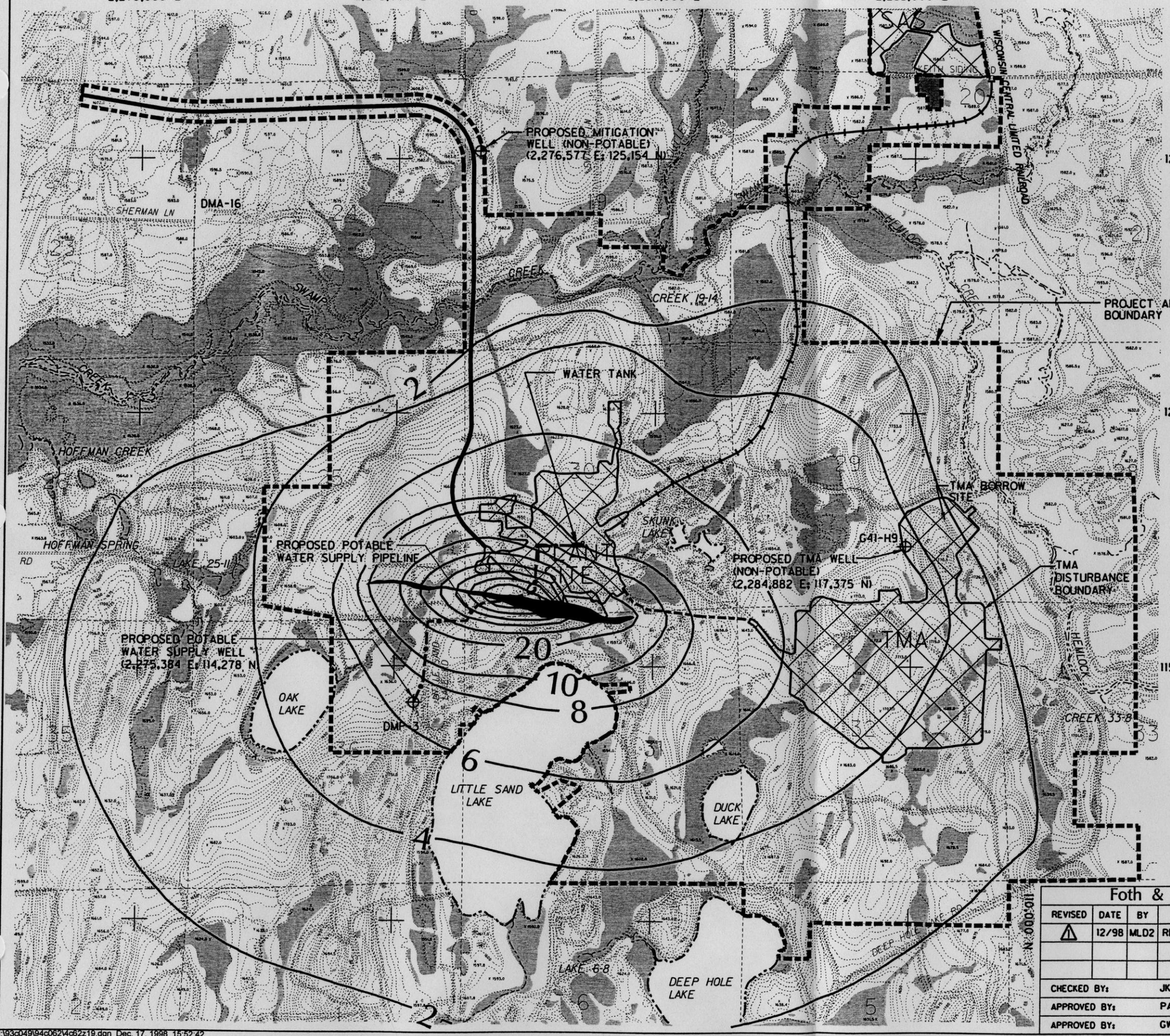
FIGURE 3-1

PROJECT FACILITIES

Scale: 0 1200' 2400' | Date: DECEMBER, 1998

Prepared By: Foth & Van Dyke | By: JRB2 | 93C049

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LEGEND

- LAKES
- STREAMS
- WETLANDS
- EXISTING ROAD
- 1675 EXISTING CONTOUR
- x 1692.0 EXISTING SPOT ELEVATION
- SECTION LINE
- ORE BODY
- PROPOSED ACCESS ROAD
- PROPOSED TMA ACCESS ROAD AND TAILINGS PIPELINE ROUTE
- PROPOSED RAILROAD SPUR
- PROPOSED FACILITIES
- PROPOSED MITIGATION AND POTABLE WATER SUPPLY WELLS
- 2 PRACTICAL WORST CASE DRAWDOWN CONTOUR
- PROJECT AREA BOUNDARY
- PROPERTY NOT INCLUDED WITHIN PROJECT AREA

N

NOTES:

1. TOPOGRAPHIC BASE MAP DIGITIZED FROM 1" = 1000' SCALE, 5' CONTOUR INTERVAL MAP PREPARED BY AERO-METRIC ENGINEERING, INC., SHEBOYGAN, WISCONSIN. DATE OF PHOTOGRAPHY APRIL 28, 1976.
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3. VERTICAL DATUM BASED ON MEAN SEA LEVEL DATUM. CONTOUR INTERVAL IS 5 FEET.
4. COUNTY AND TOWNSHIP LINES DIGITIZED FROM 7.5' SERIES USGS MAPS.
5. ORE BODY OUTLINE IS REPRESENTATIVE OF THE SUBCROP AT THE BASE OF THE OVERBURDEN.
6. DRAWDOWN CONTOURS GREATER THAN 20' HAVE BEEN DELETED FOR THIS DRAWING.

Foth & Van Dyke

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1	12/98	MLD2	REVISED FOR 1998 UPDATE

CHECKED BY:	JKS1	DATE:	SEPT.'95
APPROVED BY:	PAE	DATE:	SEPT.'95
APPROVED BY:	GWS	DATE:	SEPT.'95

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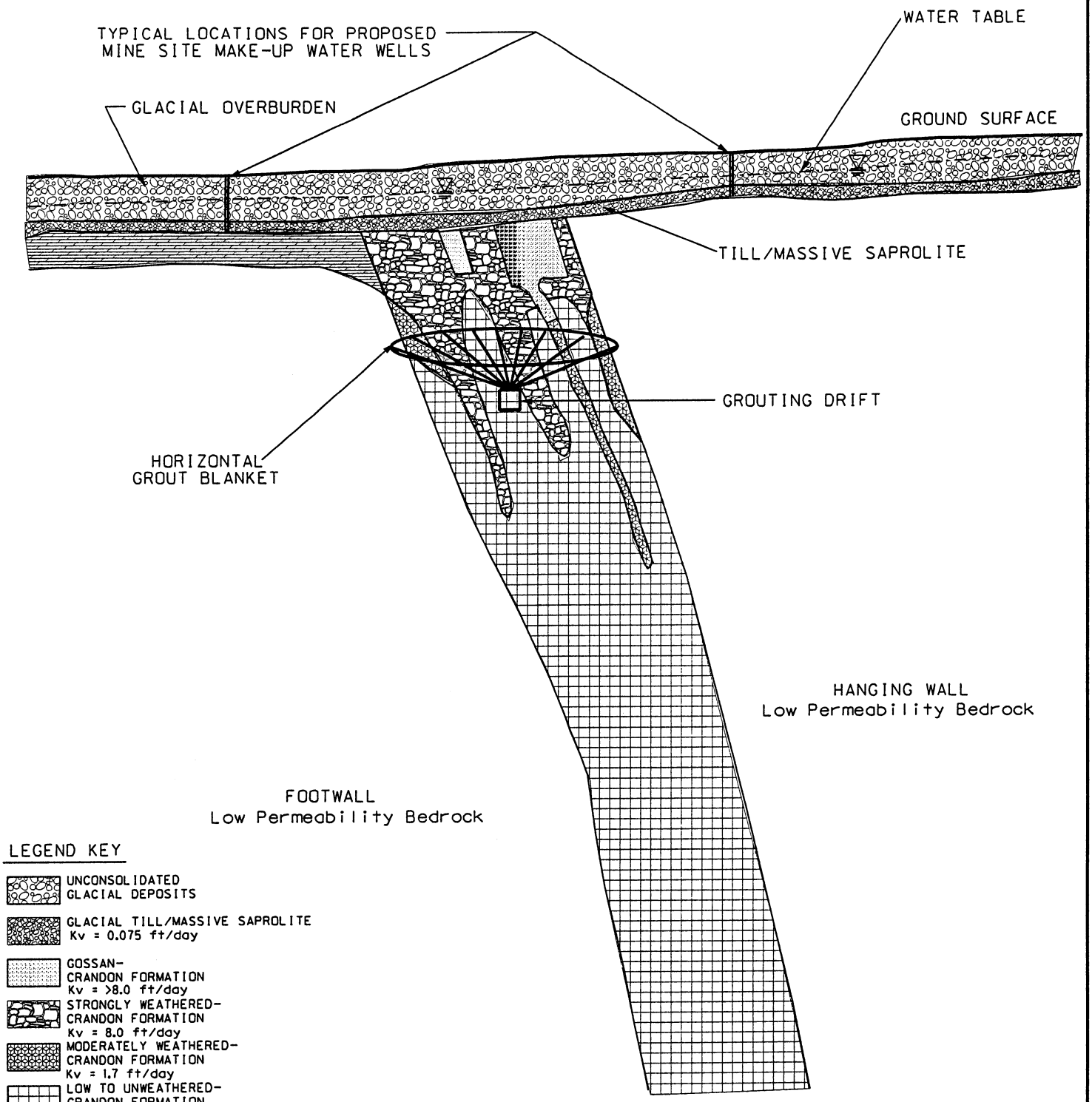
FIGURE 3-2

PWC DRAWDOWN CONTOURS

Scale: 0 1000' 2000' | Date: SEPTEMBER, 1995

Prepared By: Foth & Van Dyke | By: BSH | 93C049

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LEGEND KEY

- UNCONSOLIDATED GLACIAL DEPOSITS
- GLACIAL TILL/MASSIVE SAPROLITE Kv = 0.075 ft/day
- GOSSAN-CRANDON FORMATION Kv = >8.0 ft/day
- STRONGLY WEATHERED-CRANDON FORMATION Kv = 8.0 ft/day
- MODERATELY WEATHERED-CRANDON FORMATION Kv = 1.7 ft/day
- LOW TO UNWEATHERED-CRANDON FORMATION Kv = <0.012 ft/day
- STRONGLY WEATHERED-FOOTWALL Kv = 0.23 ft/day
- LOW PERMEABILITY-FOOTWALL AND HANGING WALL Kv = <0.048 ft/day

Foth & Van Dyke

REVISED	DATE	BY	DESCRIPTION

CHECKED BY:	MLD2	DATE:	DEC. '98
APPROVED BY:	TWS	DATE:	DEC. '98
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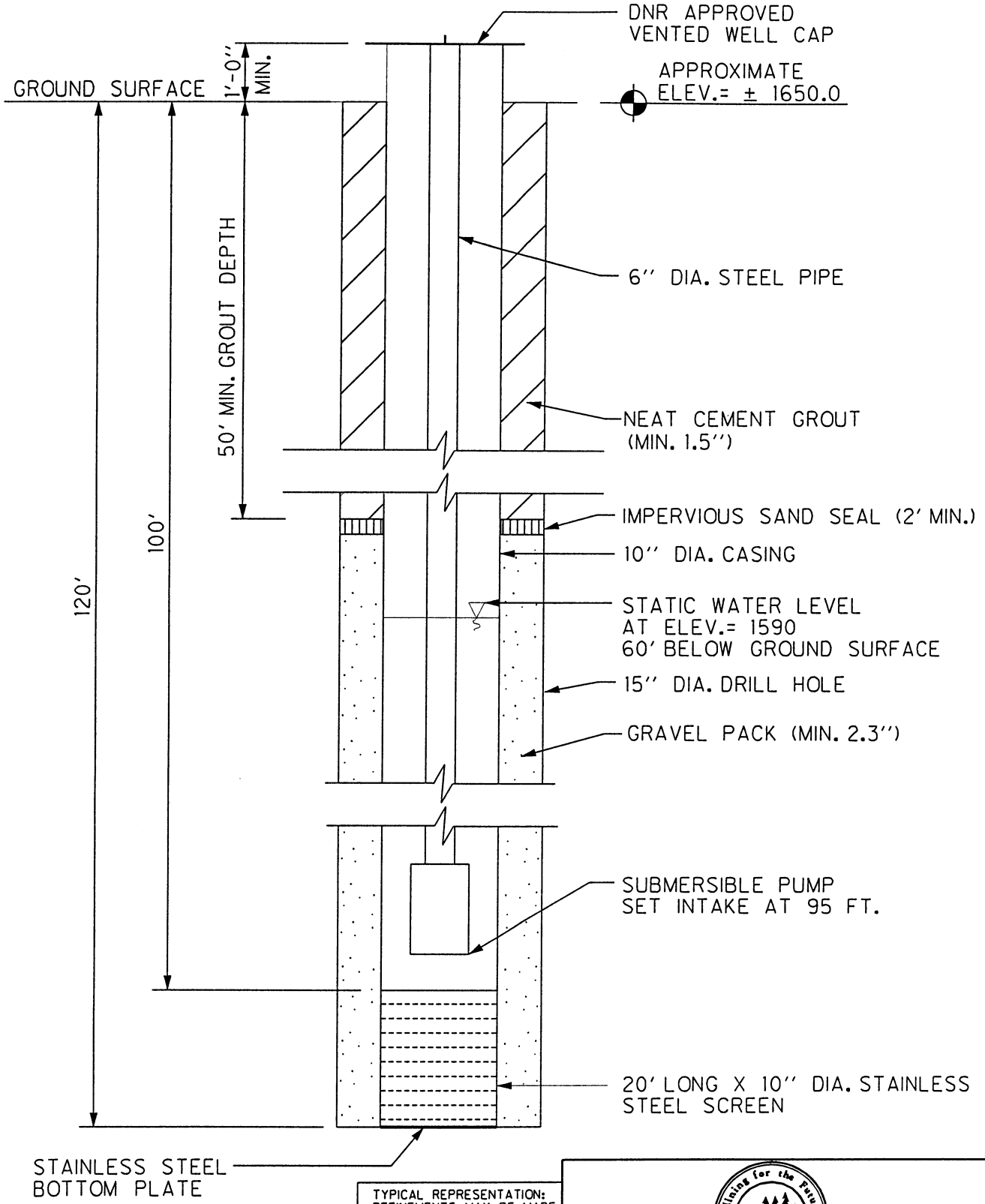
Nicolet Minerals COMPANY

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FIGURE 3-3
CONCEPTUAL CROSS SECTION SHOWING POTENTIAL MINE SITE MAKE-UP WATER WELLS

Scale:	NOT TO SCALE	Date:	DECEMBER, 1998
Prepared By: Foth & Van Dyke		By: JRB2	93C049

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TYPICAL REPRESENTATION:
REFINEMENTS MAY BE MADE
PRIOR TO CONSTRUCTION.

Foth & Van Dyke

REVISED	DATE	BY	DESCRIPTION
1	12/98	MLD2	REVISED FOR 1998 UPDATE

CHECKED BY:	JKSI	DATE:	DEC.'96
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APPROVED BY:	GWS	DATE:	DEC.'96

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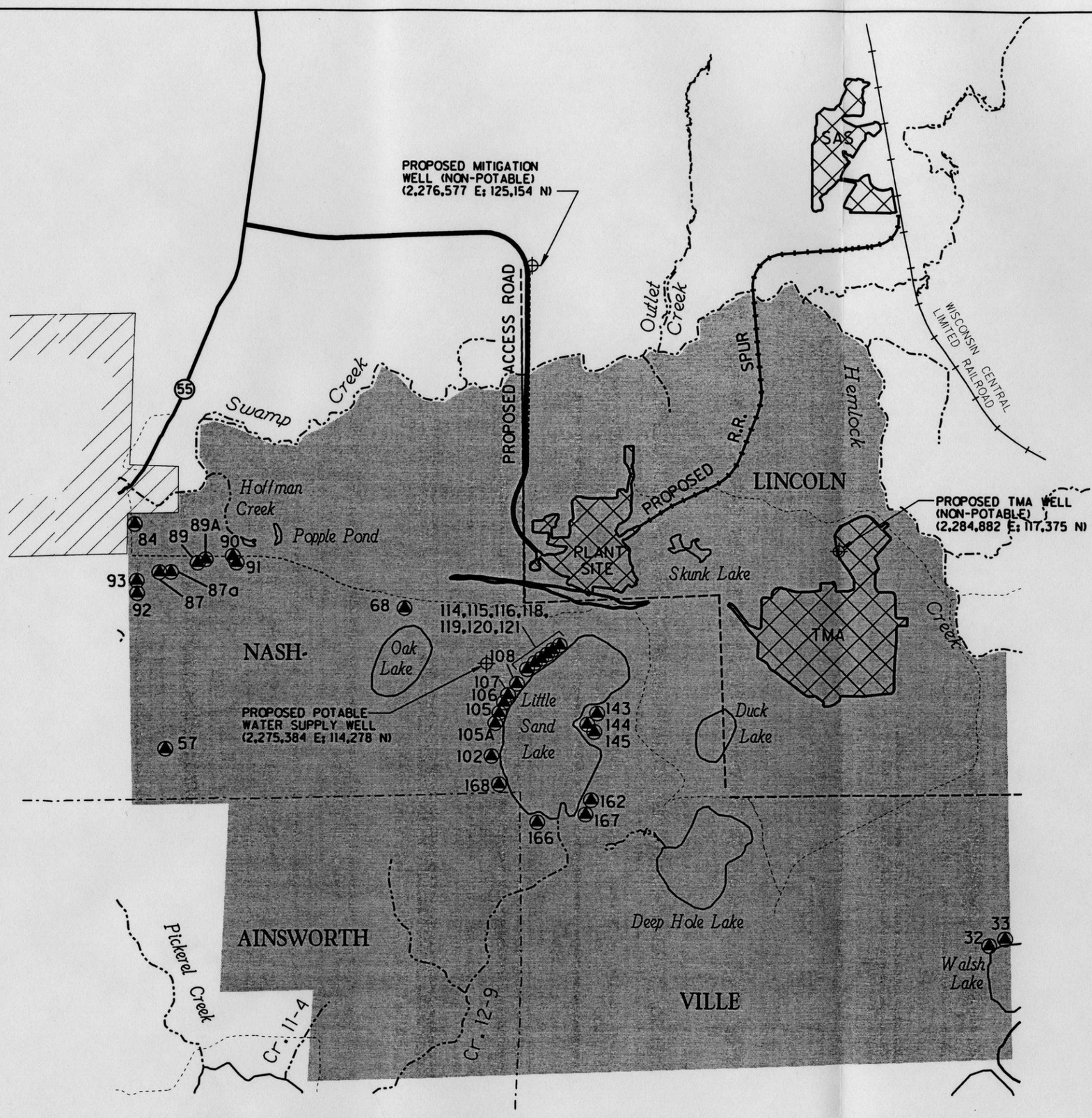
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FIGURE 3-4

PROPOSED MINE SITE
MAKE-UP WATER WELL

Scale: NOT TO SCALE		Date: DECEMBER, 1996	
Prepared By: Foth & Van Dyke		By: GAM	93C049

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N

LEGEND

- STATE HWY
- COUNTY TRUNK HWY
- ROAD
- COUNTY BOUNDARY
- CIVIL TOWN BOUNDARY
- (47) STATE HWY NO.
- [W] COUNTY HWY LETTER
- SURVEY AREA
- ORE BODY
- PROPOSED ACCESS ROAD
- PROPOSED RAILROAD SPUR
- PROPOSED FACILITIES
- ▲68 DOMESTIC WELL NUMBER AND LOCATION
- ⊕ PROPOSED WATER SUPPLY WELL

NOTE:

1. BASE MAP DERIVED FROM COUNTY MAPS PREPARED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
2. ORE BODY OUTLINE IS REPRESENTATIVE OF THE SUBCROP AT THE BASE OF THE OVERBURDEN.

Foth & Van Dyke

REVISED	DATE	BY	DESCRIPTION
1	12/98	MLD2	REVISED FOR 1998 UPDATE

CHECKED BY:	JKSI	DATE:	SEPT. '95
APPROVED BY:	PAE	DATE:	SEPT. '95
APPROVED BY:	GWS	DATE:	SEPT. '95

Nicolet Minerals COMPANY

Mining for the Future Commitment

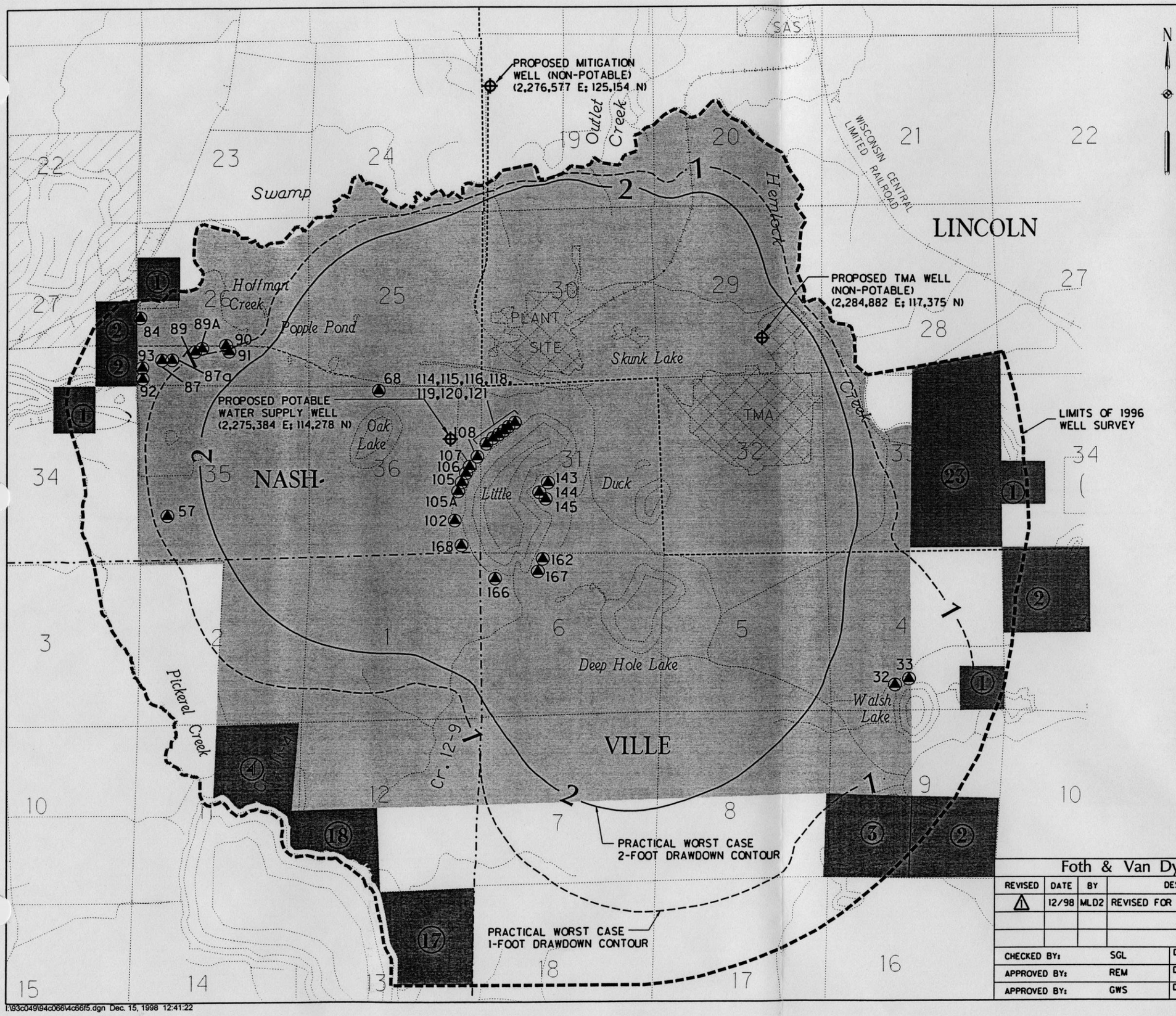
FIGURE 3-5

1982 AND 1984 DOMESTIC WATER WELL SURVEY AREA

Scale: 0 1500' 3000' | Date: SEPTEMBER, 1995

Prepared By: Foth & Van Dyke | By: JOW | 93C049

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LEGEND

- STATE HWY
- COUNTY TRUNK HWY
- COUNTY BOUNDARY
- CIVIL TOWN BOUNDARY
- 47 STATE HWY NO.
- W COUNTY HWY LETTER
- ORE BODY
- PROPOSED ACCESS ROAD
- PROPOSED RAILROAD SPUR
- PROPOSED FACILITIES
- 68 DOMESTIC WELL NUMBER AND LOCATION AS IDENTIFIED IN 1994
- PROPOSED MITIGATION AND WATER SUPPLY WELLS
- 1994 WELL SURVEY LIMIT
- 1996 WELL SURVEY LIMIT
- (1) GENERAL LOCATION AND NUMBER OF ADDITIONAL WELLS BETWEEN SURVEY LIMITS AND 2-FOOT DRAWDOWN COUNTOUR

NOTE:

1. BASE MAP DERIVED FROM COUNTY MAPS PREPARED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION
2. ORE BODY OUTLINE IS REPRESENTATIVE OF THE SUBCROP AT THE BASE OF THE OVERBURDEN.
3. DRAWING SHOWS PREDICTED DRAWDOWN CONTOURS UNDER STEADY STATE PRACTICAL WORST CASE DRAWDOWN CONDITIONS BASED ON THE 1996 GROUNDWATER FLOW MODEL.

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APPROVED BY:	GWS	DATE:	DEC. '96

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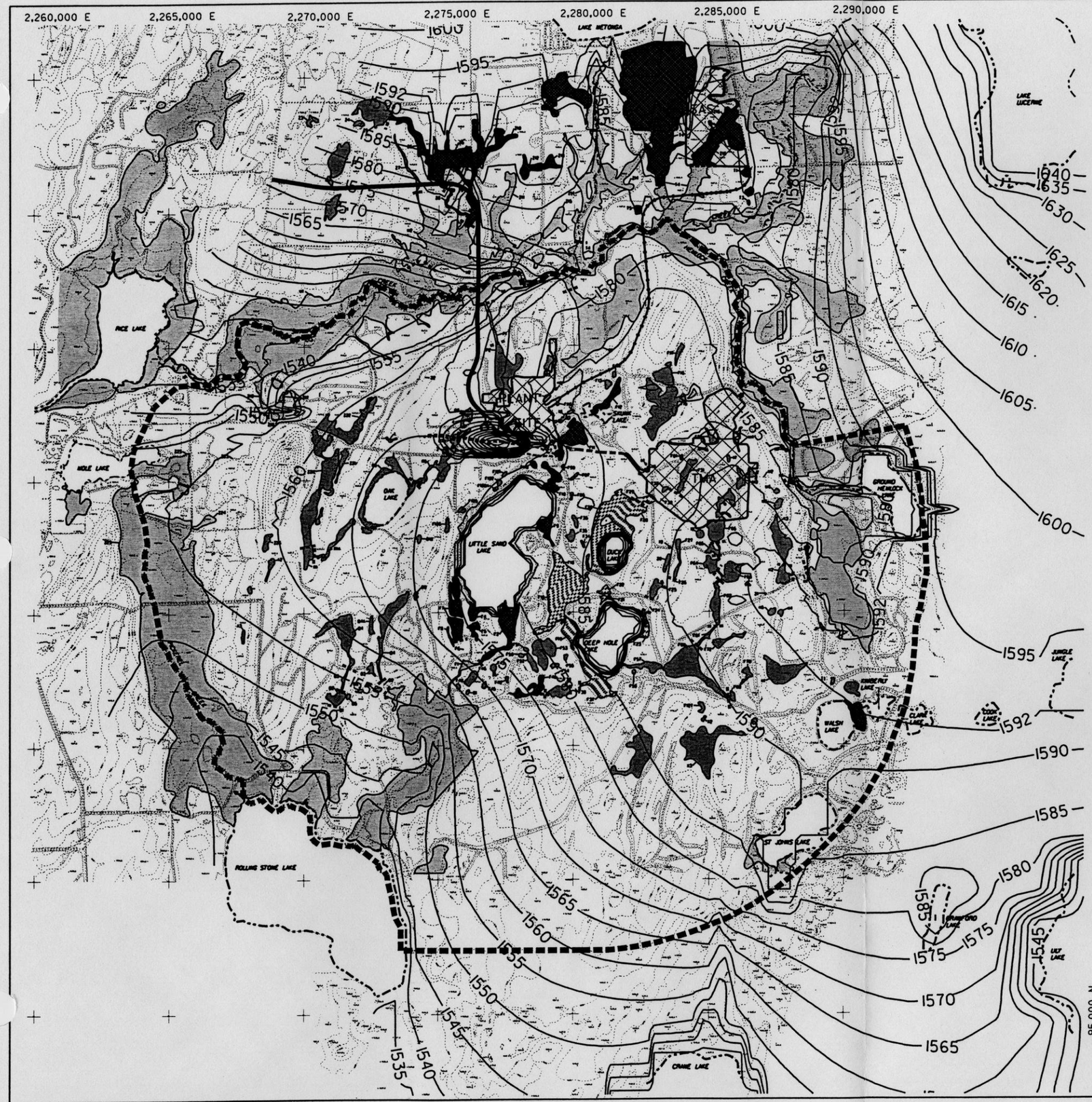
FIGURE 3-6

1994 AND 1996 DOMESTIC WATER WELL SURVEY INFORMATION

Scale: 0 1500' 3000' Date: DECEMBER, 1996

Prepared By: Foth & Van Dyke By: JOW 93C049

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LEGEND

- TREES/BRUSH
- UNPAVED ROAD/TRAIL
- PAVED ROAD
- WETLAND
- EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- CREEKS/RIVERS/LAKES
- PROPOSED ACCESS ROAD
- WETLAND DIVIDER
- DISCHARGE WETLAND.
- RECHARGE WETLAND TYPE 1. UNSATURATED ZONE EXISTS UNDER WETLAND.
- RECHARGE WETLAND TYPE 2. UNSATURATED ZONE EXISTS UNDER WETLAND. WETLAND IS CONNECTED LATERALLY TO A HEAD DEPENDENT SEEPAGE LAKE WATER BODY.
- RECHARGE WETLAND TYPE 3. HEAD DEPENDENT SEEPAGE WETLAND CONTINUOUSLY SATURATED SOILS FROM WETLAND SURFACE TO REGIONAL GROUNDWATER SYSTEM.
- ORE BODY
- PROPOSED ACCESS ROAD
- PROPOSED TMA ACCESS ROAD AND TAILINGS PIPELINE ROUTE
- PROPOSED RAILROAD SPUR
- PROPOSED FACILITIES
- 1550 — REGIONAL GROUNDWATER CONTOUR
- PROPOSED WELL SURVEY LIMIT

NOTES:

1. TOPOGRAPHIC BASE MAP DIGITIZED FROM 1" = 1000' SCALE, 5' CONTOUR INTERVAL MAP PREPARED BY AERO-METRIC ENGINEERING, INC., SHEBOYGAN, WISCONSIN. DATE OF PHOTOGRAPHY APRIL 28, 1976.
2. HORIZONTAL DATUM BASED ON WISCONSIN STATE PLANE COORDINATE SYSTEM - NORTH ZONE.
3. VERTICAL DATUM BASED ON MEAN SEA LEVEL DATUM. CONTOUR INTERVAL IS 25 FEET.
4. COUNTY AND TOWNSHIP LINES DIGITIZED FROM 7.5' SERIES USGS MAPS.
5. ORE BODY OUTLINE IS REPRESENTATIVE OF THE SUBCROP AT THE BASE OF THE OVERBURDEN.
6. DRAWING SHOWS PREDICTED WATER TABLE CONTOURS UNDER STEADY STATE PRACTICAL WORST CASE DRAWDOWN CONDITIONS.

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APPROVED BY:	GWS	DATE:	DEC. '96

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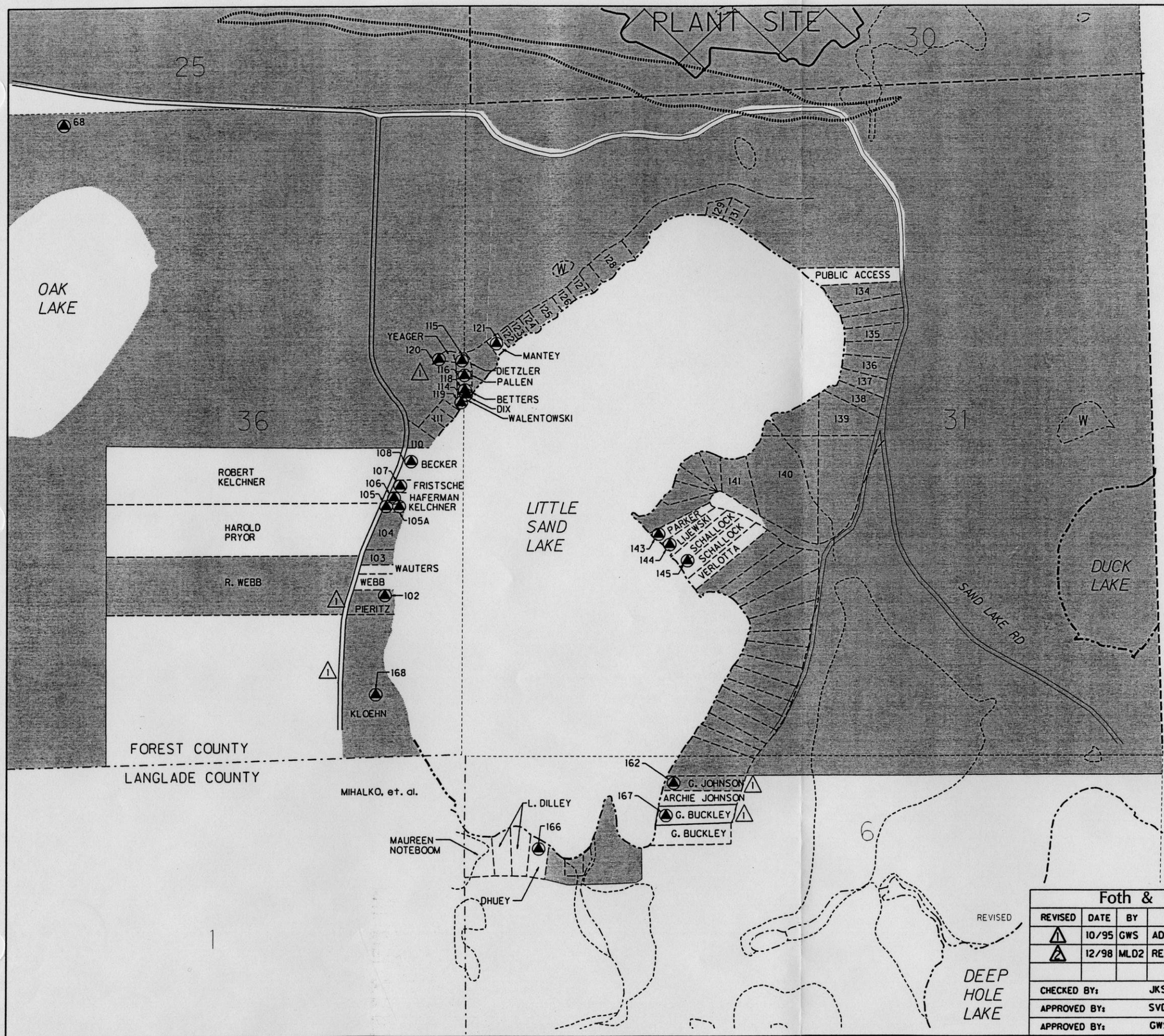
FIGURE 3-7

REGIONAL GROUNDWATER CONTOUR MAP

Scale: 0 2000' 4000' | Date: DECEMBER, 1996

Prepared By: Foth & Van Dyke | By: CAM | 93C049

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N

LEGEND

- LAKES
- STREAMS
- EXISTING ROAD
- COUNTY BOUNDARY
- CIVIL TOWN BOUNDARY
- SECTION LINE
- ORE BODY
- PROPOSED FACILITIES
- NMC PROPERTIES
- 143 DOMESTIC WATER WELL NUMBER AND LOCATION

NOTES:

1. BASE MAP DIGITIZED FROM 1" = 1000' SCALE, MAP PREPARED BY AERO-METRIC ENGINEERING, INC., SHEBOYGAN, WISCONSIN. DATE OF PHOTOGRAPHY APRIL 28, 1976.
2. HORIZONTAL DATUM BASED ON WISCONSIN STATE PLANE COORDINATE SYSTEM - NORTH ZONE.
3. COUNTY AND TOWNSHIP LINES DIGITIZED FROM 7.5' SERIES USGS MAPS.
4. ORE BODY OUTLINE IS REPRESENTATIVE OF THE SUBCROP AT THE BASE OF THE OVERBURDEN.

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1	10/95	GWS	ADDED NMC PROPERTIES
2	12/98	MLD2	REVISED FOR 1998 UPDATE

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APPROVED BY:	SVDI	DATE:	SEPT. '95
APPROVED BY:	GWS	DATE:	SEPT. '95

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Mining for the Future Commitment

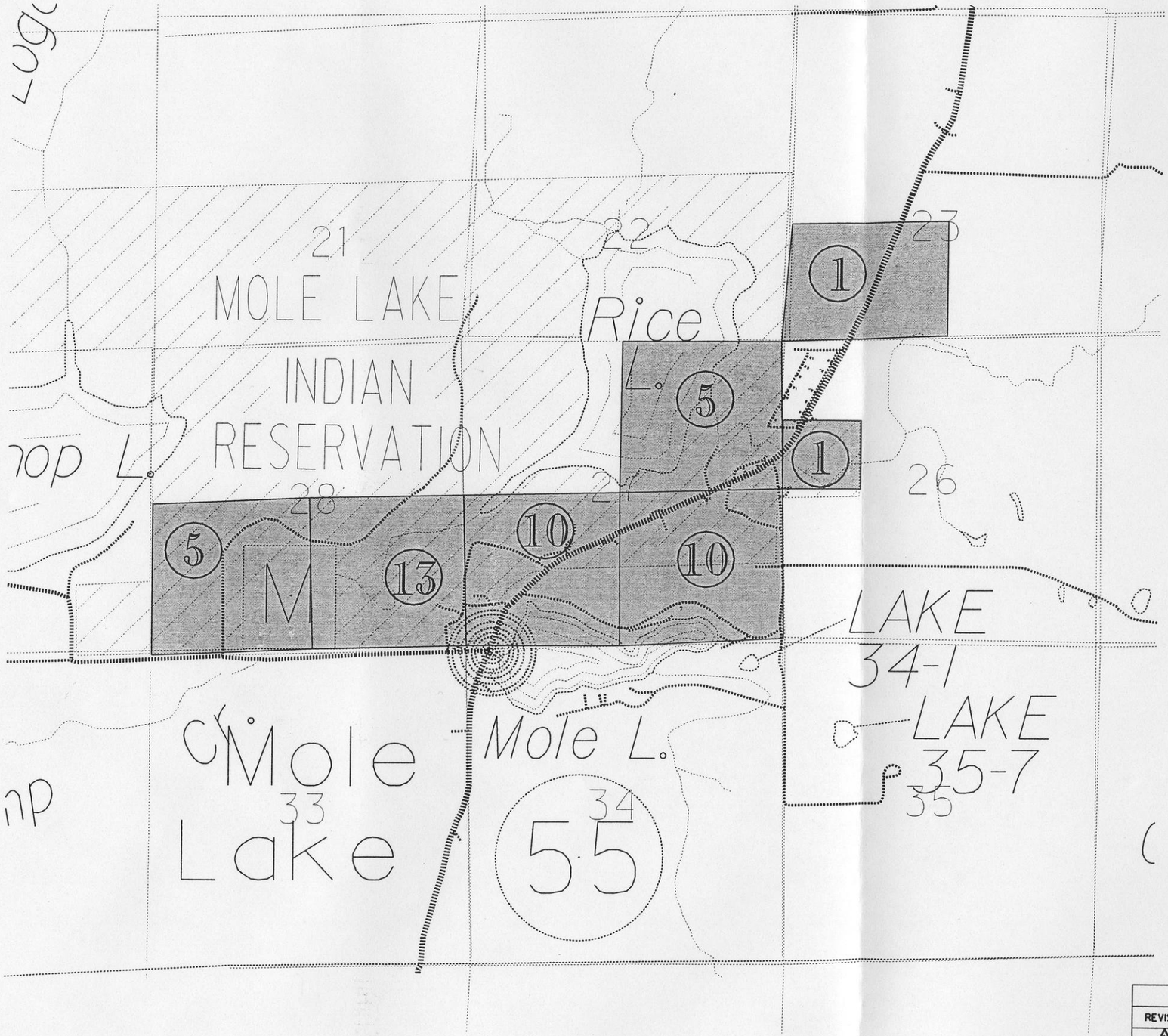
FIGURE 3-8

LITTLE SAND LAKE
DOMESTIC WATER WELLS

Scale: 0 400' 800' | Date: SEPTEMBER, 1995

Prepared By: Foth & Van Dyke | By: JOW | 93C049

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N

LEGEND

- LAKES
- U.S. OR STATE HWY
- COUNTY TRUNK ROAD
- TOWN ROAD
- SECTION LINE
- CORPORATE LIMITS
- (8) U.S. HWY NO.
- (47) STATE HWY NO.
- [W] COUNTY HIGHWAY LETTER
- (1) NUMBER OF WELL CONSTRUCTION REPORTS RECEIVED PER 1/4SECTION

NOTES:

1. BASE MAP DERIVED FROM COUNTY MAPS PREPARED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

Foth & Van Dyke

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1	12/98	MLD2	REVISED FOR 1998 UPDATE

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APPROVED BY:	JBH	DATE:	DEC.'96
APPROVED BY:	PAE	DATE:	DEC.'96

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FIGURE 3-9

WELL LOCATIONS
SOKAOGON CHIPPEWA COMMUNITY

Scale: 0 1000' 2000'		Date:	DECEMBER, 1996
Prepared By: Foth & Van Dyke		By:	GAM
	93C049		

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2,285,000 E

2,290,000 E

130,000 N

125,000 N

N

LAKE METONGA

ROHR LN

COUNTY PARK RD

OUTLET CREEK

SWAMP CREEK

APPROXIMATE LOCATION OF CREEK 17-13

SPRING

PRIVATE WELLS TO BE ABANDONED

EXCAVATED DITCH

15" CMCP

LAKE 17-16

KEITH SIDING RD

8" DICP

Z16

A

B

C

D

E

F

200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224

PROPOSED RAILROAD SPUR

PROPOSED PIPELINE ROUTE

WISCONSIN CENTRAL LIMITED RAILROAD

HEMLOCK CREEK

LEGEND

- LAKES
- STREAMS
- EXISTING ROAD
- 1675 — EXISTING CONTOUR
- 1702.0 X — EXISTING SPOT ELEVATION
- SWAMP/WETLAND
- TRAILS
- TREES
- RAILROAD
- PROPOSED FACILITIES
- 200 — APPROXIMATE LOCATION OF PRIVATE WATER SUPPLY WELL
- Z16 — WETLANDS
- A — PROPOSED SOIL ABSORPTION SYSTEM LOCATION
- PROPOSED PIPELINE ROUTE
- PROPOSED RAILROAD SPUR

NOTES:

1. TOPOGRAPHY ON FIELDS 1 THROUGH 5 AND WETLAND SPOT ELEVATIONS NORTH OF KEITH SIDING ROAD FROM SURVEY COMPLETED BY FOTH & VAN DYKE IN LATE SUMMER, 1998.
2. TOPOGRAPHY, WATER BODIES, WETLANDS, ETC. OUTSIDE SOIL ABSORTION AREA BASED ON TOPOGRAPHIC BASE MAP DIGITIZED FROM THE 1" = 1000 SCALE 5 FOOT CONTOUR INTERVAL MAP PREPARED BY AERO-METRIC ENGINEERING INC., SHEBOYGAN, WI. DATE OF PHOTOGRAPHY APRIL 28, 1976.
3. THE LOCATION OF THE SPRING IN WETLAND Z16 AND THE ORDINARY HIGH WATER MARK AROUND LAKE 17-16 ARE APPROXIMATE.

Foth & Van Dyke

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APPROVED BY:	GWS	DATE:	DEC. '98

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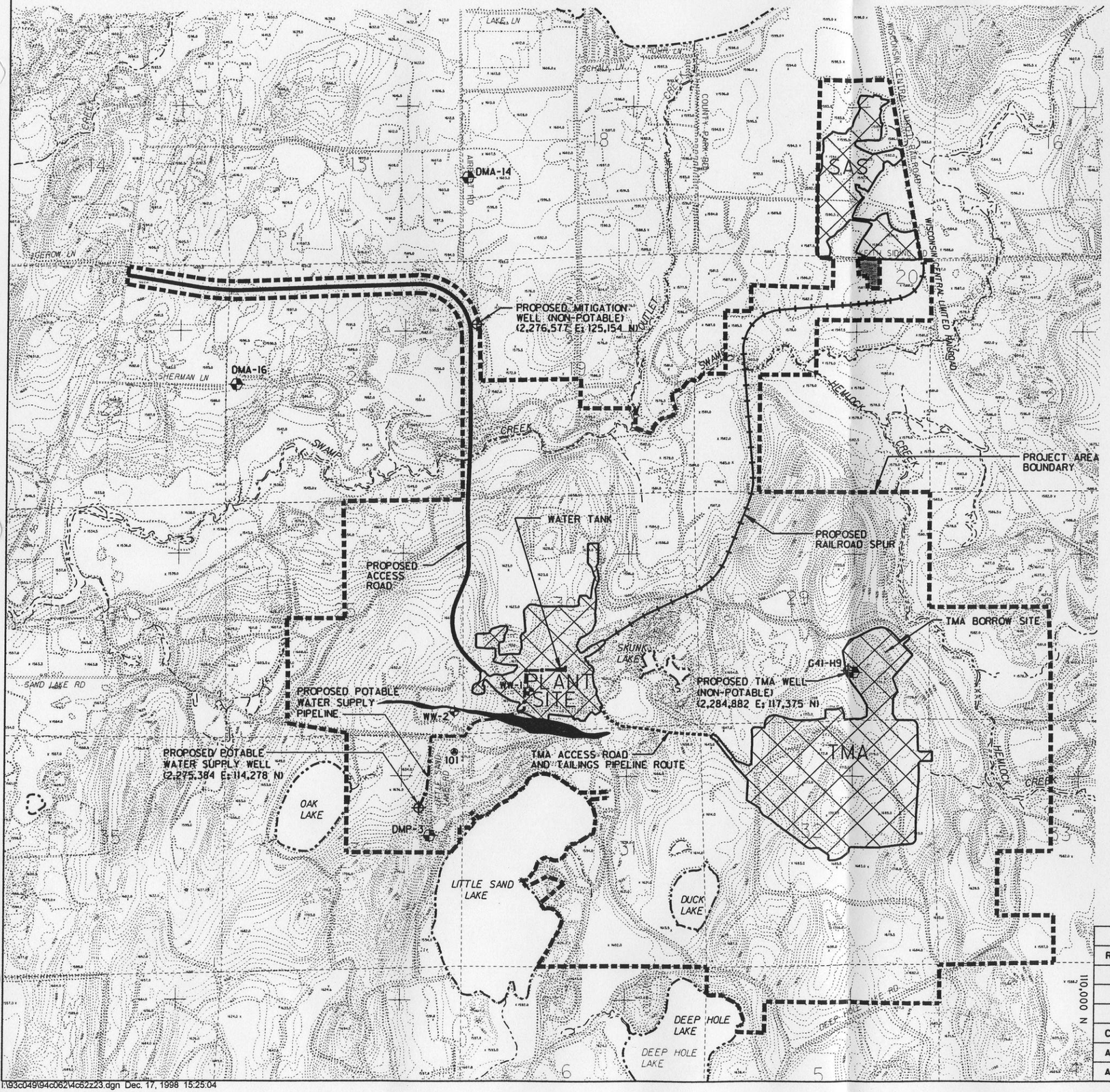
FIGURE 3-10

SOIL ABSORPTION SYSTEM WELL LOCATIONS

Scale: 0 500' 1000' | Date: DECEMBER, 1998

Prepared By: Foth & Van Dyke | By: JRB2 | 93C049

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LEGEND

- LAKES
- STREAMS
- EXISTING ROAD
- 1675 EXISTING CONTOUR
- x 1692.0 EXISTING SPOT ELEVATION
- SECTION LINE
- ORE BODY
- PROPOSED ACCESS ROAD
- PROPOSED TMA ACCESS ROAD AND TAILINGS PIPELINE ROUTE
- PROPOSED RAILROAD SPUR
- PROPOSED FACILITIES
- PROPOSED MITIGATION AND WATER SUPPLY WELLS
- WW-1 NMC OWNED WELL
- 101 CMC OWNED DOMESTIC WELL NUMBER AND LOCATION
- G41-H9 MONITORING WELL/BORING
- SKUNK LAKE MITIGATION PIPELINE ROUTE
- PROJECT AREA BOUNDARY
- PROPERTY NOT INCLUDED WITHIN PROJECT AREA

N

NOTES:

1. TOPOGRAPHIC BASE MAP DIGITIZED FROM 1" = 1000' SCALE, 5' CONTOUR INTERVAL MAP PREPARED BY AERO-METRIC ENGINEERING, INC., SHEBOYGAN, WISCONSIN. DATE OF PHOTOGRAPHY APRIL 28, 1976.
2. HORIZONTAL DATUM BASED ON WISCONSIN STATE PLANE COORDINATE SYSTEM - NORTH ZONE.
3. VERTICAL DATUM BASED ON MEAN SEA LEVEL DATUM. CONTOUR INTERVAL IS 5 FEET.
4. COUNTY AND TOWNSHIP LINES DIGITIZED FROM 7.5' SERIES USGS MAPS.
5. ORE BODY OUTLINE IS REPRESENTATIVE OF THE SUBCROP AT THE BASE OF THE OVERBURDEN.

Foth & Van Dyke

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1	12/98	MLD2	REVISED FOR 1998 UPDATE

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APPROVED BY:	RFS	DATE: SEPT.'95
APPROVED BY:	GWS	DATE: SEPT.'95

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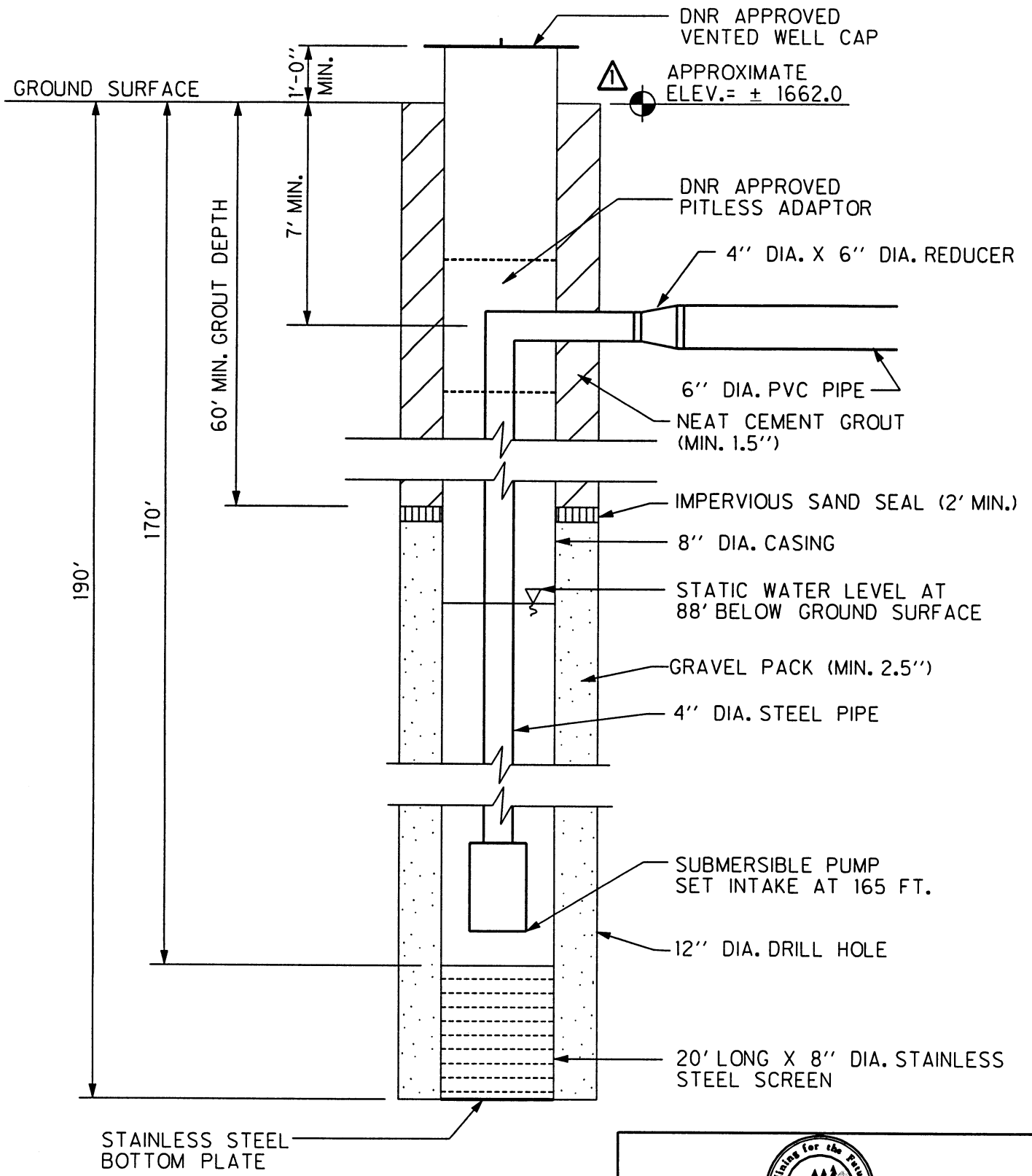
Mining for the Future Commitment

FIGURE 3-11

EXISTING AND PROPOSED NMC WATER SUPPLY WELLS

Scale: 0 1200' 2400' Date: SEPTEMBER, 1995

Prepared By: Foth & Van Dyke | By: JRB | 93C049



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1	11/14/95	PAE	WELL CONSTRUCTION AND GROUND ELEV. REVISION
2	12/98	MLD2	REVISED FOR 1998 UPDATE

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APPROVED BY:	PAE	DATE: SEPT.'95
APPROVED BY:	GWS	DATE: SEPT.'95

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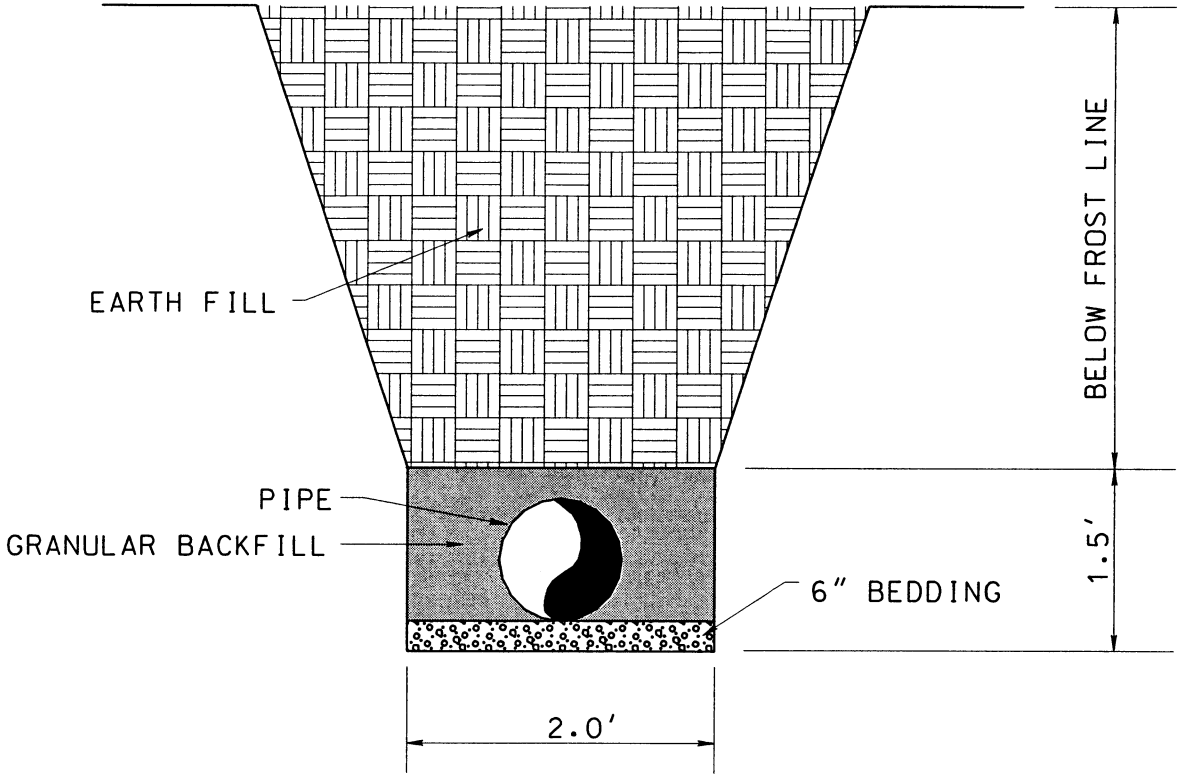
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FIGURE 3-12

PROPOSED POTABLE
WELL CONSTRUCTION

Scale: NOT TO SCALE	Date: SEPTEMBER, 1995	
Prepared By: Foth & Van Dyke	By: GAM	93C049

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APPROVED BY:	PAE	DATE:	DEC. '98
APPROVED BY:	GWS	DATE:	DEC. '98

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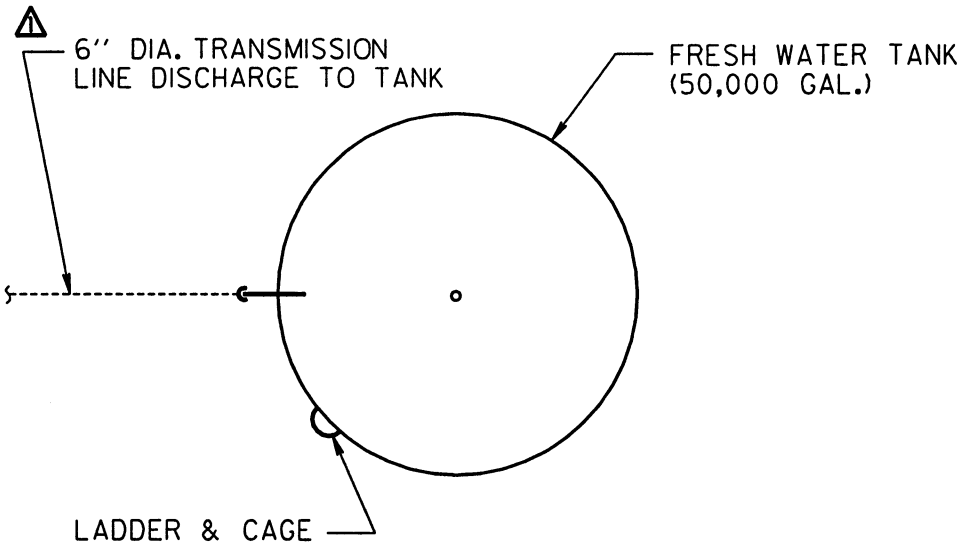
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FIGURE 3-13

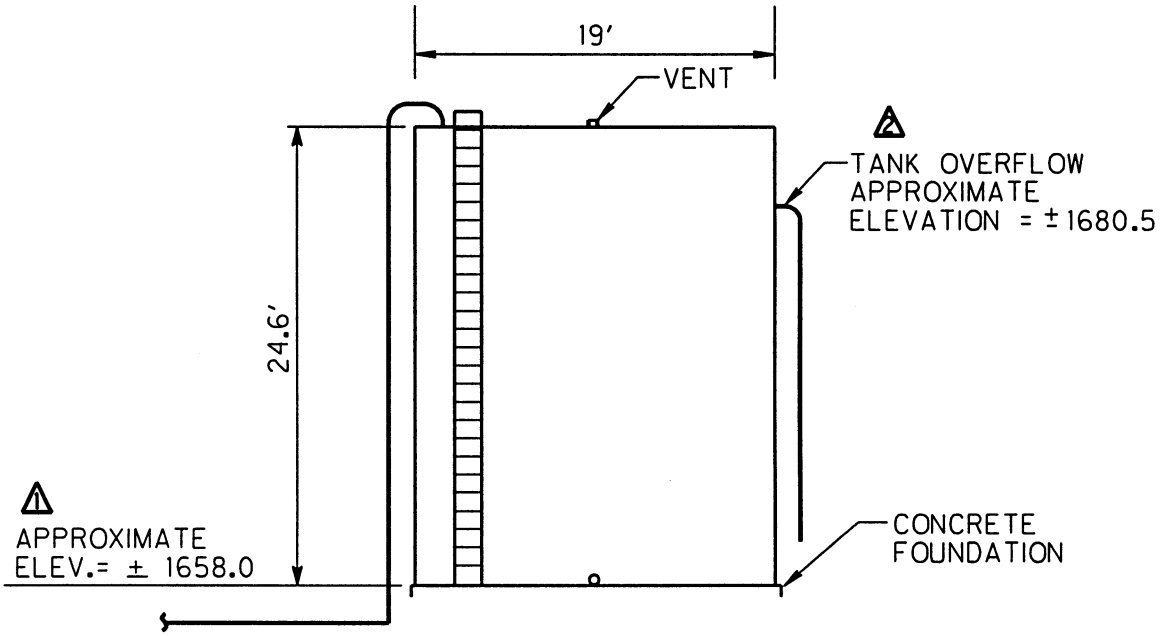
TYPICAL PIPE TRENCH

Scale: NOT TO SCALE		Date: DECEMBER, 1998	
Prepared By: Foth & Van Dyke		By: JRB2	93C049

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PLAN VIEW



ELEVATION LOOKING NORTH

TYPICAL REPRESENTATION:
REFINEMENTS MAY BE MADE
PRIOR TO CONSTRUCTION.

Foth & Van Dyke

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1	11/95	PAE	PIPE DIA. AND GROUND ELEVATION
2	10/96	RJCI	ADDED TANK OVERFLOW
3	12/98	MLD2	REVISED FOR 1998 UPDATE

CHECKED BY:	JKSI	DATE:	SEPT.'95
APPROVED BY:	PAE	DATE:	SEPT.'95
APPROVED BY:	GWS	DATE:	SEPT.'95

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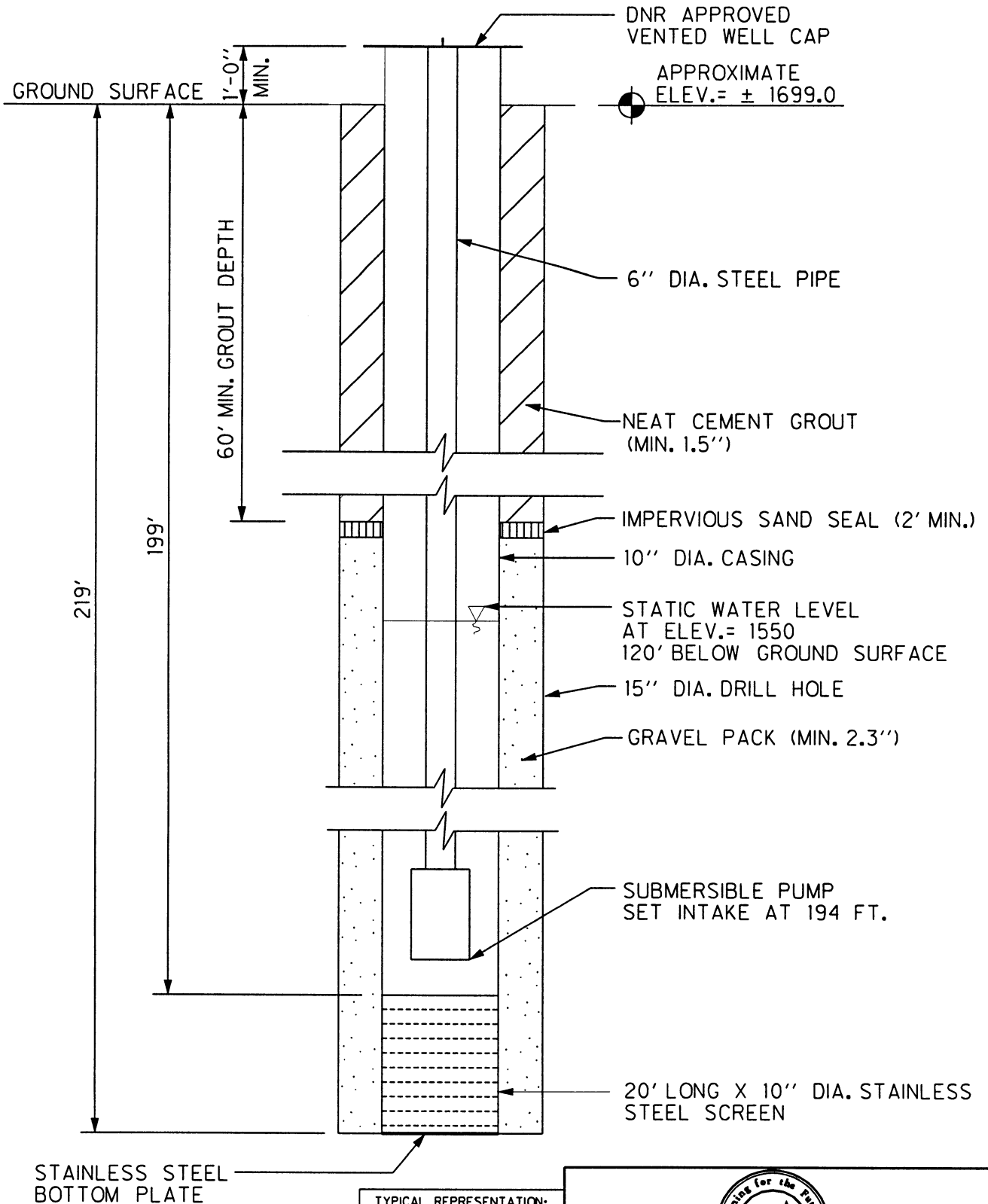
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FIGURE 3-14

WATER STORAGE TANK

Scale: NOT TO SCALE	Date: SEPTEMBER, 1995	
Prepared By: Foth & Van Dyke	By: JPRI	93C049

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TYPICAL REPRESENTATION:
REFINEMENTS MAY BE MADE
PRIOR TO CONSTRUCTION.

Foth & Van Dyke

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1	11/14/95	PAE	WELL CONSTRUCTION AND GROUND ELEV. REVISION
2	12/98	MLD2	REVISED FOR 1998 UPDATE

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APPROVED BY:	PAE	DATE: SEPT.'95
APPROVED BY:	GWS	DATE: SEPT.'95

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FIGURE 3-15

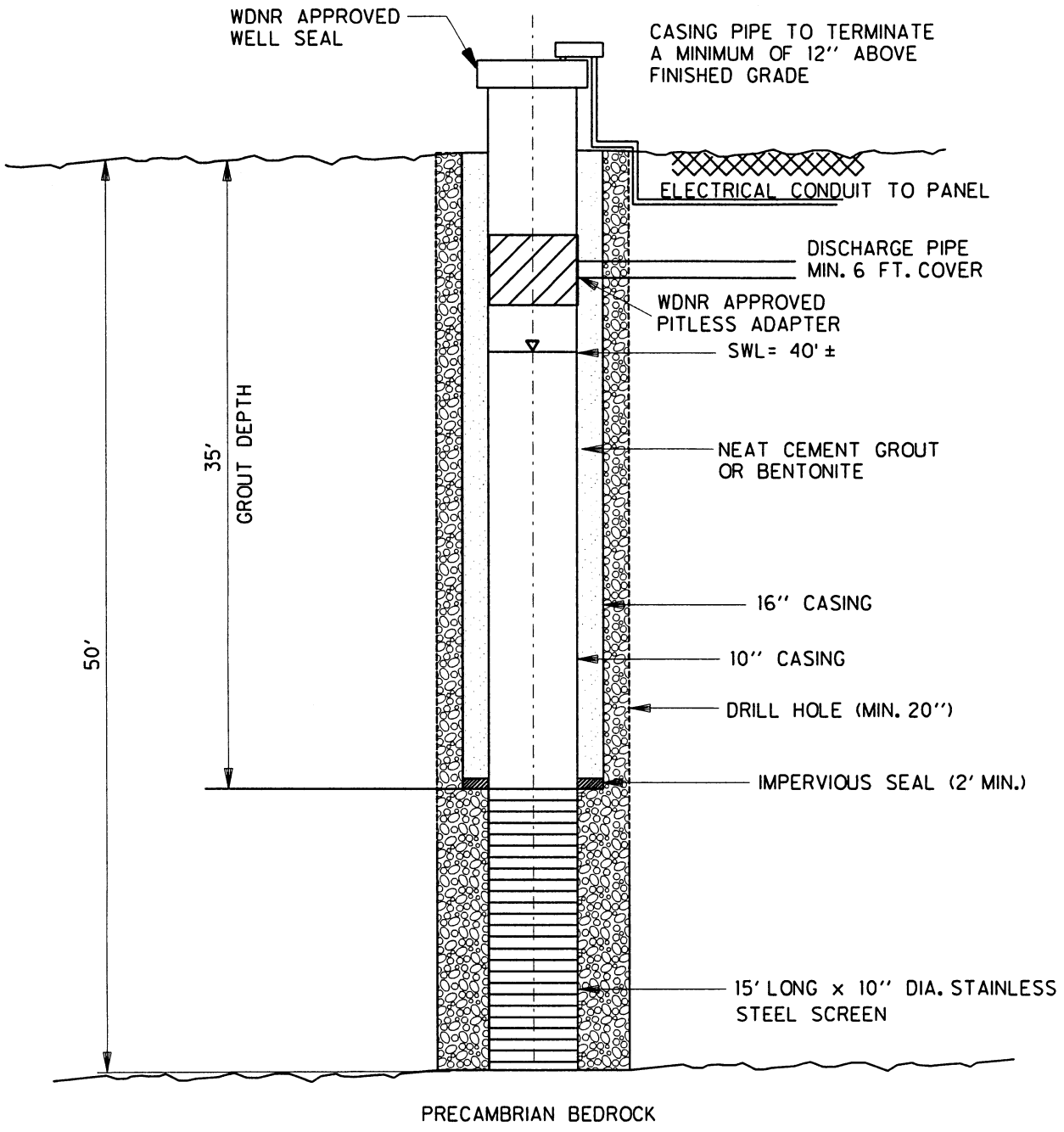
PROPOSED TMA
WELL CONSTRUCTION

Scale: 0 100' 200' | Date: SEPTEMBER, 1995

Prepared By: Foth & Van Dyke | By: GAM | 93C049

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MITIGATION WELL



Foth & Van Dyke					
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APPROVED BY:		SVDI	DATE:	DEC.'98	
APPROVED BY:		GWS	DATE:	DEC.'98	

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FIGURE 3-16

MITIGATION WELL
CONSTRUCTION DETAIL

Scale: NOT TO SCALE		Date: DECEMBER, 1998	
Prepared By: Foth & Van Dyke		By: JRB2	93C049

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2,265,000 E
2,270,000 E
2,275,000 E
2,280,000 E
2,285,000 E
120,000 N
115,000 N

PROPOSED LEVEL I & II MITIGATION WELL
W2
W1
P1
O1
3,816' - 6"
5,284' - 1½"
4,606' - 6"
8,917' - 4"
307' - 2"
LINCOLN
CREEK 19-14
HEMLOCK CREEK
CREEK 33-8
RICE LAKE
SWAMP CREEK
HOFFMAN CREEK
HOFFMAN SPRINGS
Z22
Z18
LAKE 25-II (POPPLE POND)
MOLE LAKE
LAKE 34-1
LAKE 35-7
OAK LAKE
NASHVILLE
SKUNK LAKE
PLANT SITE
TMA
LITTLE SAND LAKE
DUCK LAKE
LINCOLN
UPPER PICKEREL CREEK
PICKEREL CREEK
FOREST CO.
LANGLADE CO.
CREEK 12-9
LAKE 6-8
DEEP HOLE LAKE

N

LEGEND

- TREES/BRUSH
- UNPAVED ROAD/TRAIL
- PAVED ROAD
- WETLAND
- CREEKS/RIVERS/LAKES
- TOWNSHIP LINE
- COUNTY LINE
- ORE BODY
- PROPOSED ACCESS ROAD
- PROPOSED TMA ACCESS ROAD AND TAILINGS PIPELINE ROUTE
- PROPOSED RAILROAD SPUR
- PROPOSED FACILITIES
- LEVEL I MITIGATION PIPELINE
- LEVEL II MITIGATION PIPELINE

NOTES:

1. BASE MAP DIGITIZED FROM 1" = 1000' SCALE, MAP PREPARED BY AERO-METRIC ENGINEERING, INC., SHEBOYGAN, WISCONSIN. DATE OF PHOTOGRAPHY: APRIL 28, 1976.
2. HORIZONTAL DATUM BASED ON WISCONSIN STATE PLANE COORDINATE SYSTEM - NORTH ZONE.
3. COUNTY AND TOWNSHIP LINES DIGITIZED FROM 7.5' SERIES USGS MAPS.
4. ORE BODY OUTLINE IS REPRESENTATIVE OF THE SUBCROP AT THE BASE OF THE OVERBURDEN.

Foth & Van Dyke

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CHECKED BY:	TWS	DATE:	DEC.'98
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APPROVED BY:	GWS	DATE:	DEC.'98

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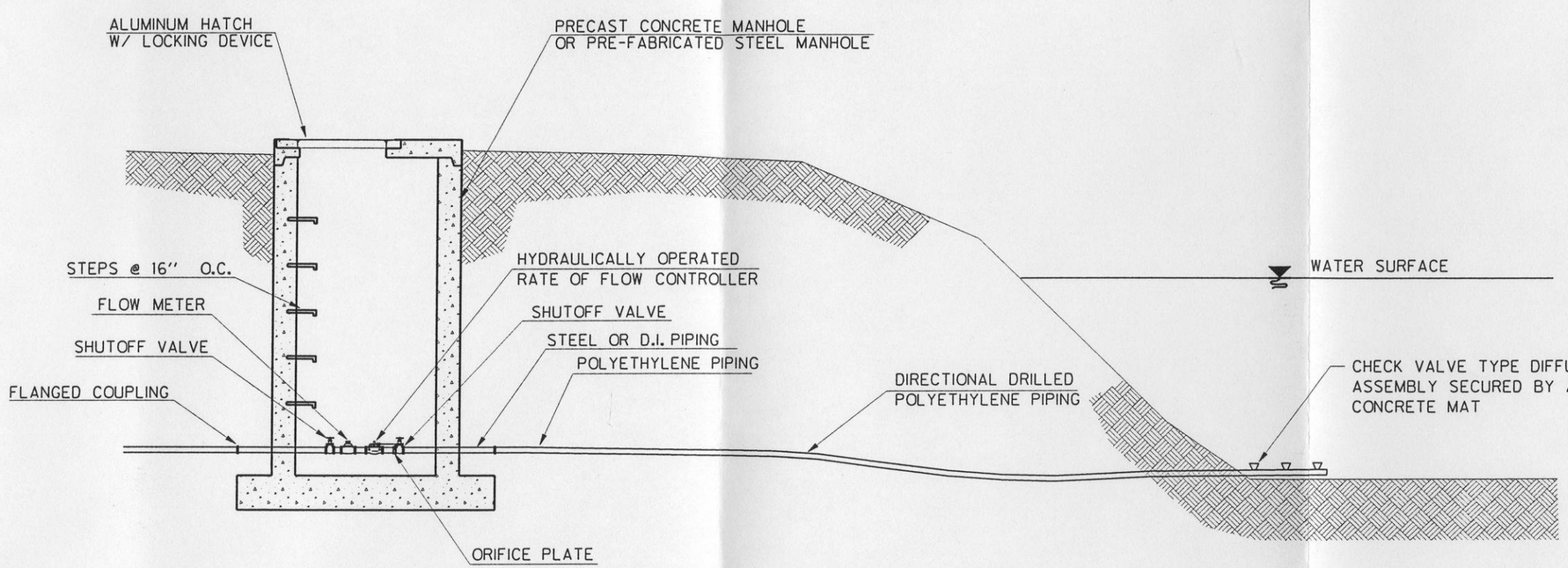
FIGURE 3-17

SURFACE WATER MITIGATION LEVEL I AND II - HARD WATER PIPELINE ROUTES

Scale: 0 1000' 2000' | Date: DECEMBER, 1998

Prepared By: Foth & Van Dyke | By: JRB2 | 93C049

I:\93c049\94c033\4c33zfig10.dgn Dec. 17, 1998 14:57:01



Foth & Van Dyke

REVISED	DATE	BY	DESCRIPTION

CHECKED BY:	TWS	DATE:	DEC. '98
APPROVED BY:	GEV	DATE:	DEC. '98
APPROVED BY:	GWS	DATE:	DEC. '98

Nicolet Minerals COMPANY

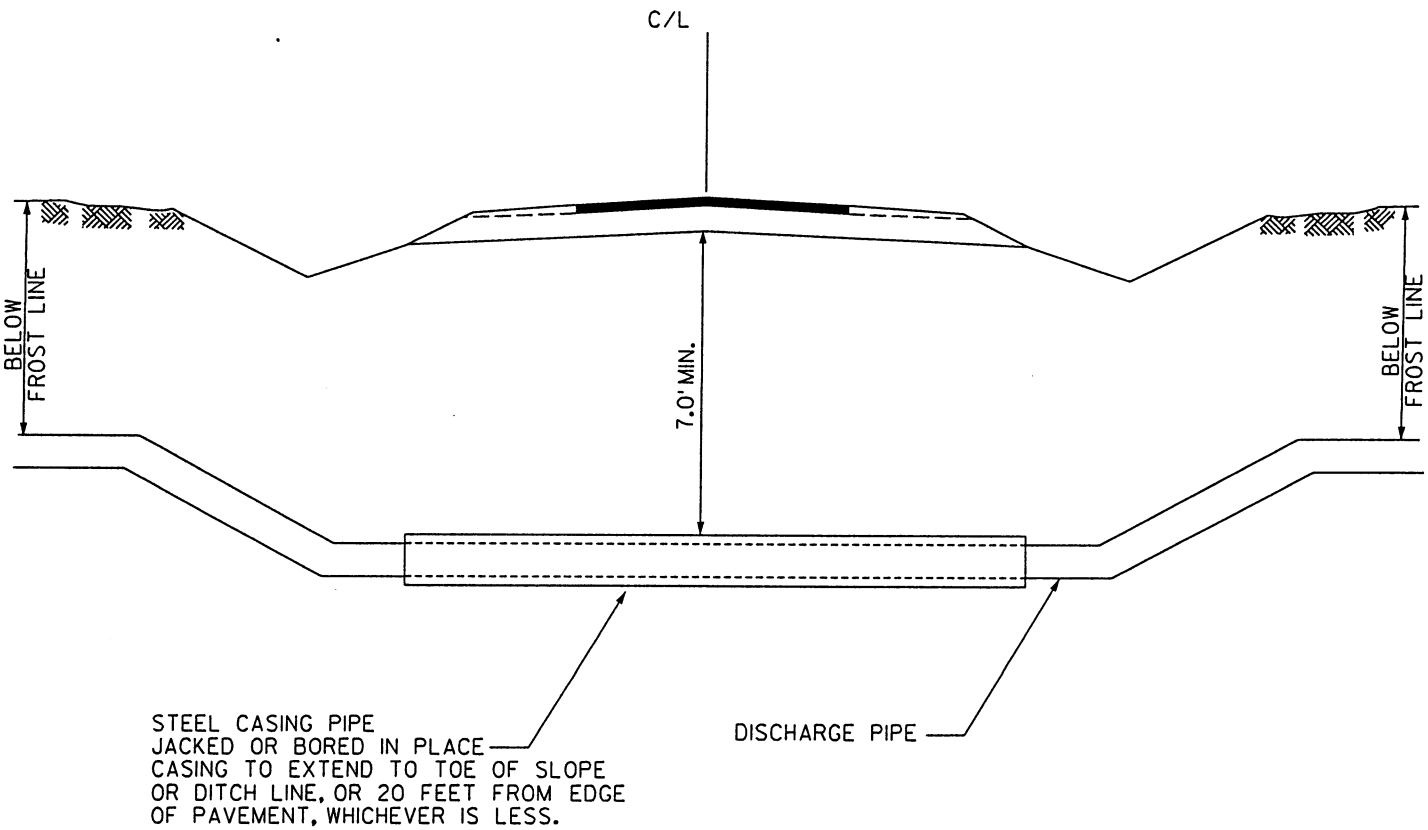
Mining for the Future · Commitment

FIGURE 3-18

MITIGATION WATER
DELIVERY SYSTEM

Scale: NOT TO SCALE		Date:	DECEMBER, 1998
Prepared By: Foth & Van Dyke	By: JRB2		93C049

I:\93c049\3c49f292.dgn Dec. 17, 1998 14:32:49



NOTE: THIS DETAIL PERTAINS TO COUNTY AND/OR TOWN ROADS.

Foth & Van Dyke

REVISED	DATE	BY	DESCRIPTION
1	12/98	MLD2	REVISED FOR 1998 UPDATE

CHECKED BY:	PMPI	DATE: AUG. '95
APPROVED BY:	GEV	DATE: AUG. '95
APPROVED BY:	GWS	DATE: AUG. '95

Nicolet Minerals COMPANY

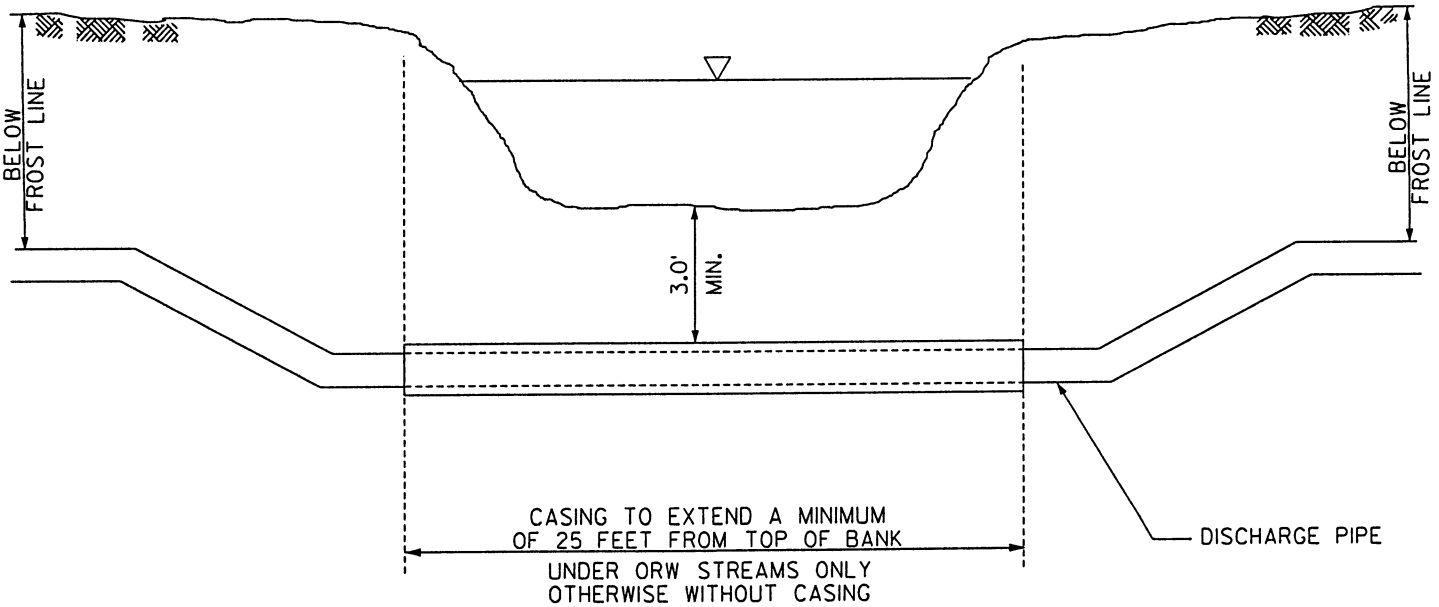
Mining for the Future • Commitment

FIGURE 3-19

TYPICAL SIDE ROAD BORING & JACK

Scale: NOT TO SCALE		Date: AUGUST, 1995	
Prepared By: Foth & Van Dyke	By: SMMI	93C049	

I:\93c049\94c065\4c65det3.dgn Dec. 15, 1998 12:57:11



Foth & Van Dyke

REVISED	DATE	BY	DESCRIPTION
1	12/98	MLD2	REVISED FOR 1998 UPDATE

CHECKED BY:	PMPI	DATE: AUG. '95
APPROVED BY:	GEV	DATE: AUG. '95
APPROVED BY:	GWS	DATE: AUG. '95

Nicolet Minerals COMPANY

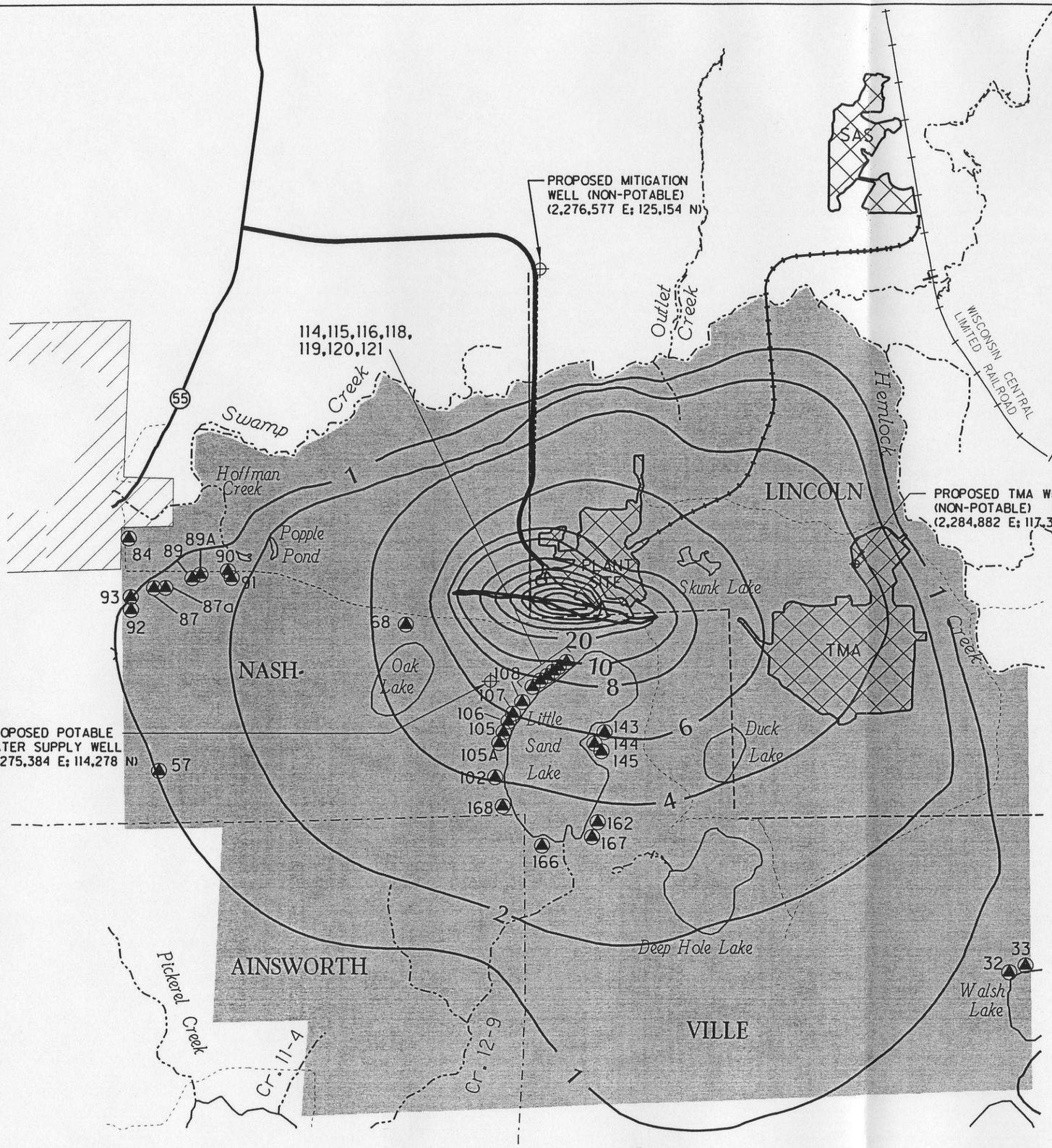
Mining for the Future • Commitment

FIGURE 3-20

TYPICAL RIVER/STREAM CROSSING

Scale: NOT TO SCALE		Date: AUGUST, 1995	
Prepared By: Foth & Van Dyke		By: SMMI	93C049

I:\93c049\94c065\4c65dt10.dgn Dec. 15, 1998 12:59:41



N

LEGEND

- STATE HWY
- COUNTY TRUNK HWY
- ROAD
- COUNTY BOUNDARY
- CIVIL TOWN BOUNDARY
- (4-7) STATE HWY NO.
- [W] COUNTY HWY LETTER
- SURVEY AREA
- ORE BODY
- PROPOSED ACCESS ROAD
- PROPOSED RAILROAD SPUR
- PROPOSED FACILITIES
- ▲ 68 DOMESTIC WELL NUMBER AND LOCATION
- ⊕ PROPOSED MITIGATION AND WATER SUPPLY WELLS
- — 2 — PRACTICAL WORST CASE DRAWDOWN CONTOUR

NOTE:

1. BASE MAP DERIVED FROM COUNTY MAPS PREPARED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
2. ORE BODY OUTLINE IS REPRESENTATIVE OF THE SUBCROP AT THE BASE OF THE OVERBURDEN.

Foth & Van Dyke

REVISED	DATE	BY	DESCRIPTION
1	12/98	MLD2	REVISED FOR 1998 UPDATE

CHECKED BY:	JKSI	DATE:	SEPT. '95
APPROVED BY:	PAE	DATE:	SEPT. '95
APPROVED BY:	GWS	DATE:	SEPT. '95

Nicolet Minerals COMPANY

Mining for the Future — Committed to the Environment

FIGURE 4-1

MAXIMUM EXTENT OF DRAWDOWN IN RELATION TO PRIVATE WELLS

Scale: 0 1500' 3000' | Date: SEPTEMBER, 1995

Prepared By: Foth & Van Dyke | By: JOW | 93C049

I:\93c049\94c062\4c62z22.dgn Dec. 17, 1998 14:51:37

Appendix A

Well Construction Reports from the Wisconsin Geologic and Natural History Survey for Areas Within Well Survey Limit but Outside 2-Foot Practical Worst Case Drawdown Contour

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy -- Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

JUN 14 19..

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City Name: Lincoln

2. LOCATION: ¼ Section or Gov't. Lot: Govt. lot #1 | Section: 33 | Township: 35 N | Range: 13 E
OR – Grid or Street No. | Street or Road Name:
AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Thomas Sprehe
ADDRESS: 2202 Patty Lane
POST OFFICE: Green Bay Wis | ZIP CODE: 54304

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
30										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump			none yet		Seepage Pit	
				Clearwater Dr.		Clearwater Sump					Seepage Bed	
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well	Nonconforming Existing								
		Pump									
		Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin	Other (Describe)
					Concrete Floor Only	
					Concrete Floor and Partial Concrete Walls	

5. Well is intended to supply water for: cottage

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	98			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel I9.00 PE A53 US Steel	Surface	98

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
none	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
caving sand and clay	Surface	63
gravel and clay	63	96
large gravel	96	98

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air ☐ Air
☐ Rotary-w/drilling mud ☐ Reverse Rotary ☐ Water

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 30 GPM
Depth from surface to normal water level 32 Ft.
Depth of water level when pumping 60 Ft. Stabilized ☒ Yes ☐ No

Well construction completed on 5-15-82 19..
Well is terminated I2 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 5-18-82 19..

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Welsh
Registered Well Driller

Business Name and Complete Mailing Address:
RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

SEP - 7 1972

FR-414-U

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY Forest

CHECK ONE: ☐ Town Lincoln ☐ Village ☑ City

NAME Crandon

2. LOCATION — ¼ Section: Gov't Lot 3 | Section: 33 | Township: 35N | Range: 13E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no. Lot 30

3. OWNER AT TIME OF DRILLING Lloyd A. Buenning

ADDRESS 3603 North 83rd Street

POST OFFICE Milwaukee, Wisconsin

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.) None

5. Well is intended to supply water for: House

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	114			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	New Steel pipe	Surface	115
	1918 T and C		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	30
Clay	30	86
Gravel	86	114

10. TYPE OF DRILLING MACHINE USED

☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 11/16 19 72

11. MISCELLANEOUS DATA

Yield test: 5 Hrs. at 12 GPM

Depth from surface to normal water level 70 ft.

Depth to water level when pumping 83 ft.

Well is terminated ☑ above ☐ below final grade inches

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to State Lab of Hygiene Madison, Wisc. laboratory on: 8/15 19 72

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE Bernard Young Registered Well Driller

COMPLETE MAIL ADDRESS R.R.2 Gillett, Wisconsin 54124

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

Rev. 3-71

Well Construction Report For CV 257
WISCONSIN UNIQUE WELL NUMBER

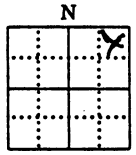
State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
OCT 26 1989
Box 7921
Madison, WI 53707

Property Owner: Eugene Baeten Telephone Number: 498 863-6136
Mailing Address: 4622 Humboldt
City: Green Bay | State: Wi. | Zip Code: 54311
County of Well Location: Forest | County Well Location Permit No.: W | Well Completion Date: 10/21/89 (M M D D Y Y)

(24)

Well Constructor (Business Name): Rhinelander Well Drilling | Registration #: 632
Address: PO Box 584
City: Rhinelander | State: Wi. | Zip Code: 54501

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of Lincoln | Fire # (if available)
Grid or Street Address or Road Name and Number (if available): E. Shore Lane
Subdivision Name | Lot # | Block #
Gov't Lot # 1 or ___ ¼ of ___ ¼ of Section 33; T 35 N; R 13 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # _____ constructed in 19 ____.
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and/or _____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
____ 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
37 3. Septic or Holding Tank	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
59 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type _____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage _____ Other NR 112 Waste Source
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	____ 24. _____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6"	surface	106

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit _____ in. dia.
☐ 6. Temp. Outer Casing _____ in. dia. Removed? ☐ Yes ☐ No If no, explain _____
☐ 7. Other _____

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
GSC	Caving Sand & Gravel	surface	24'
GSC	Caving Sand & Clay	24'	58'
ASC	Coarse Sand & Clay	58'	72'
-CG	Clay & Gravel	72'	102'
-G	Clean Gravel	102'	106

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6"	Sawhill Pipe Mfg	surface	106'
	A53 - 7E.		
	18.97 lbs/Ft. Grade B		
	Welded		
Dia. (in.)	screen type and material	From	To
	O.B.		

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

10. Static Water Level
____ ft. above ground level
27 ft. below ground surface

11. Pump Test
Pumping Level 46' ft. below surface
Pumping at ____ GPM for ____ hours.

12. Well Is:
12 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying or unsafe wells? ☒ Yes ☐ No If no, explain N/A

14. Signature of Point Driver or Registered Driller: Brad Rhodes DW | Date Signed: 10-17-89
Signature of Drill Rig Operator: Patrick J. Hagen PH | Date Signed: 10/11/89

Make additional comments on reverse side about geology, etc.

DNR/CNRS ORIGINAL

WELL CONSTRUCTOR'S REPORT — WISCONSIN STATE BOARD OF HEALTH — Wel 6

1. COUNTY: Forest — CHECK ONE: ☒ Town ☐ Village ☐ City — NAME: Lincoln

RECEIVED NOV 1 1966 DEPARTMENT OF RESOURCE DEVELOPMENT

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available:) 33 35N 13E Krahns Plat

3. OWNER AT TIME OF DRILLING: Edward Buckaloo

4. OWNER'S COMPLETE MAIL ADDRESS: 3162 N. Holton Milwaukee Wis

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		5 1/2							

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: Domestic

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
7 7/8 & 6 5/8	Surface	68			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6 5/8	New 26 L B Black Steel	Surface	64 Ft
Sand	Screen Set 63 To 65 Ft		
You should have Log Filed By Driller			
Forging Supervisor Water Sample Report			

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Fine Sand	Surface	68 Ft
Sand Comes in When Pump is Set		
Rig on		
Is Clear out is Bottom Not Dry.		
Will have to go Deeper to get		
Coarse Sand or Gravel		
Lawrence Rogel		

11. MISCELLANEOUS DATA

Yield test: Bailer test No Drawdown Hrs. GPM

Depth from surface to normal water level 17 Ft ft.

Depth to water level when pumping ~~Not installed~~ ft.

Well construction completed on aug 25 1966

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Pump installed By Milo Sandy Jamestown laboratory on: 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Lawrence Rogel WP 512 Registered Well Driller

COMPLETE MAIL ADDRESS: RR3 Box 187 Pewaukee

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS
See letter Driller's file 11-1-66				

WELL CONSTRUCTOR'S REPORT — WISCONSIN STATE BOARD OF HEALTH — Wel 6

RECEIVED NOV 15 1966 DEPARTMENT OF RESOURCE DEVELOPMENT

1. COUNTY: Forest — CHECK ONE: ☒ Town ☐ Village ☐ City — NAME: Lincoln

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available): Part of SE ¼ Sec 33 T. 35 R. 13 E Gov. Lot 2

3. OWNER AT TIME OF DRILLING: Edward Brecholtz

4. OWNER'S COMPLETE MAIL ADDRESS: 3162 N. Holton St Milw Wis (53212)

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
20	50		~~40~~		✓	✓	40	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
40	✓	60	✓	65	65	✓	✓	✓	✓

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.): None

6. Well is intended to supply water for: Home

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6 3/16 Redrock	Surface				
6 3/16	64	80			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6 3/16	Valley Steel 26#	Surface	80

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Puddled Sand	Surface	10

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Redrill	Surface	80
Sand	64	74
Gravel	74	80
Set Cistern in Drill., D. C.		
Dated Nov. 14, 1966		
1 a. c.		

11. MISCELLANEOUS DATA

Yield test: 20 Hrs. at 10 GPM

Depth from surface to normal water level 20 ft.

Depth to water level when pumping 27 ft.

Water sample sent to Madison laboratory on: Nov 3 1966

Well construction completed on 11-3 1966

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Gus Johnson Registered Well Driller

COMPLETE MAIL ADDRESS: Rt. Box 150 Rhinelander Wis

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

1. COUNTY: ~~Forest~~ Lincoln
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City Name

2. LOCATION: ¼ Section or Gov't. Lot: SE SE | Section: 33 | Township: 35N | Range: 13E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Ben & Joan Mohrmann
ADDRESS: 6209 Canyon Woods Dr.
POST OFFICE: Rockford, Ill. ZIP CODE: 61109

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
40										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump					None	Yet	Seepage Bed	
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well		Nonconforming Existing								
		Pump										
		Tank										

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin Concrete Floor Only Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	83			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# ~~PE A53 US Steel~~	Surface	80
6	15-slot Stainless Steel ~~Well Screen~~	80	83

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
None	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand	Surface	30
Sand & Clay	30	78
Sand & Gravel	78	83

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 15 GPM
Depth from surface to normal water level 33 Ft.
Depth of water level when pumping 50 Ft. Stabilized ☒ Yes ☐ No

Well construction completed on 8/4/81 19____
Well is terminated 8 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 8/4/81 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature]
Registered Well Driller

Business Name and Complete Mailing Address: ~~RHINELANDER WELL DRILLING, INC.~~ 660 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

AUG 26 1975

SEP 25 1975

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST
CHECK ONE: ☑ Town ☐ Village ☐ City
NAME: NASHVILLE

2. LOCATION – ¼ Section: NE¼ | Section: SE¼ | Section: 33 | Township: 35N. | Range: 13E.
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.: LOT # 29

3. OWNER AT TIME OF DRILLING: JOHN FIEST
ADDRESS: R#1
POST OFFICE: ONEIDA, WIS. 54155

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
12'	NEW SITE							

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	6			
5	6	100			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	98
	14.81#/FT. .258" COUPLED		
5	SCREEN STEEL	98	100
	JOHNSTON STAINLESS	20 SLOT	
	STD. FITTINGS		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
SLURRY CLAY	Surface	6

9. FORMATIONS

Kind	From (ft.)	To (ft.)
GRAVEL WITH CLAY	Surface	5
SAND & GRAVEL	5	66
CLAY	66	96
GRAVEL & SAND	96	100

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on AUG. 22 1975

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 9 GPM
Depth from surface to normal water level 65 ft.
Depth to water level when pumping 93 ft.

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: AUG 25 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel – Registered Well Driller
COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

First Water Quality Test For WISCONSIN UNIQUE WELL NUMBER FN 387

JUN 11 1993

State of Wisconsin
Private Water Supply - WS/2
Department of Natural Resources
Box 7921
Madison, WI 53707

(Please type or print using a black pen.)

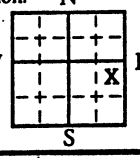
Property Owner: Larry Eisenreich
Telephone Number: (414) 497-8905

Mailing Address: 203 Allard Avenue
City: Green Bay
State: WI
Zip Code: 54303

County of Well Location: FOREST
Co. Well Permit No. W
Well Completion Date (mm-dd-yy): 02 - 10 - 93

21 Well Constructor (Business Name): Rhinelander Well Drilling, Inc.
License #: 632
Address: P.O. Box 584
City: Rhinelander, State: WI Zip Code: 54501

2. Mark well location with a dot in correct 40-acre parcel of section.



1. Well Location — Please use decimals instead of fractions.
[X] Town [ ] City [ ] Village of Lincoln
Fire # (if avail.): 2630
Grid or Street Address or Road Name and Number (if avail.): West Shore Drive
Subdivision Name: Lot #: Block #:
Gov't Lot #: or NE 1/4 of SE 1/4 of Section 33, T 35 N; R 13 [X] E. [ ] W

3. Well Type [X] New [ ] Replacement [ ] Reconstruction
of previous unique well # _____ constructed in 19 ____
Reason for new, replaced or reconstructed well?

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other

4. Well serves 1 # of homes and or _____
(Ex: barn, restaurant, church, school, industry, etc.)

High Capacity:
Well? [ ] Yes [X] No
Property? [ ] Yes [X] No

5. Well located on highest point of property, consistent with the general layout and surroundings? [X] Yes [ ] No If no, explain on back side.

Well located in floodplain? [ ] Yes [X] No
Distance in Feet From Well To Nearest:

____	1. Landfill	____	9. Downspout/Yard Hydrant	____	17. Wastewater Sump
18	2. Building Overhang	____	10. Privy	____	18. Paved Animal Barn Pen
85	3. Septic or Holding Tank (circle one)	____	11. Foundation Drain to Clearwater	____	19. Animal Yard or Shelter
90	4. Sewage Absorption Unit	45	12. Foundation Drain to Sewer	____	20. Silo - Type _____
____	5. Nonconforming Pit	____	13. Building Drain [X] Cast Iron or Plastic [ ] Other	____	21. Barn Gutter
____	6. Buried Home Heating Oil Tank	____	14. Building Sewer [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other	____	22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
____	7. Buried Petroleum Tank	____	15. Collector or Street Sewer	____	23. Other Manure Storage _____ Other NR 112 Waste Source
90	8. Shoreline/Swimming Pool	____	16. Clearwater Sump	____	24. _____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	63

Method of constructing upper enlarged drillhole only.
[ ] 1. Rotary - Mud Circulation
[ ] 2. Rotary - Air
[ ] 3. Rotary - Foam
[ ] 4. Reverse Rotary
[ ] 5. Cable-tool Bit _____ in. dia.
[ ] 6. Temp. Outer Casing _____ in. dia.
Removed? [ ] Yes [ ] No
If no, explain _____
[ ] 7. Other _____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification, Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	A-53 Grade B	surface	60
	Plain End Welded		
	18.97 #/Ft.		
	Sawhill Pipe Mfg.		
Dia. (in.) 6	screen type, material & slot size 3 ft. Stainless Steel 20 slot	From 60	To 63

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
QY	Caving Sand & Gravel	Surface	32
-Z-	Clay & Gravel	32	49
-Y-	Sand & Gravel	49	63

10. Static Water Level
____ ft. above ground surface
29 ft. below ground surface

11. Pump Test
Pumping Level 40 ft. below surface
Pumping at 20 GPM for 2 hours

12. Well Is:
12 in. [X] Above [ ] Below Grade
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
[ ] Yes [X] No If no, explain N/A

14. Signature of Point Driver or Licensed Supervisory Driller: Dean Funk DF — Date Signed: 2/13/93
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.
Comments on reverse side ____ (Check √, if yes)

DNR

WELL CONSTRUCTION REPORT 216
Form 3300-77A Rev. 1-92

WGNHS ORIGINAL

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

AUG 26 1975

SEP 25 1975

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

FR-404-U
STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST

CHECK ONE: ☑ Town ☐ Village ☐ City NAME: NASHVILLE

2. LOCATION – ¼ Section: NE¼ SE¼ | Section: 33 | Township: 35N. | Range: 13E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: HIRAM TURNER

ADDRESS: HEMLOCK LAKE

POST OFFICE: CRANDON, WIS. 54520

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
10'	25						25	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		30			60				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	61			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	59
14.81#/FT. .258" COUPLED			
5	SCREEN	59	61
JOHNSTON STAINLESS	STEEL 20 SLOT		
	STD. FITTINGS		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	61

10. TYPE OF DRILLING MACHINE USED

☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on AUG. 22 1975

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 15 GPM

Depth from surface to normal water level 44 ft.

Depth to water level when pumping 46 ft.

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: AUG. 25 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3-71

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

OCT 2 6 1979
STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST
CHECK ONE: ☑ Town ☐ Village ☐ City
NAME: NASHVILLE

2. LOCATION – ¼ Section: NE | Section: 33 | Township: 35N | Range: 13E
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.: HEMLOCK LAKE

3. OWNER AT TIME OF DRILLING: FRANK HERMAN
ADDRESS
POST OFFICE: GREEN BAY, WIS.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
30	60	–	–	–	–	–	~	~

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
–	–	70	–	–	90	–	–	–	–

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
HEMLOCK LAKE (>25') - Per phone call w/ Mr. Behm (EW1-11-23-79)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	68			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	U.S. STEEL 19#S. PE ASTM-A53	Surface	65
6	Stainless steel screen 15 slot	65	68

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
NONE	Surface	
SELF SEALING		

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND	Surface	25
SANDY CLAY	25	40
CLAY & GRAVEL	40	60
SAND & GRAVEL	60	68

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 10 – 11 1979

11. MISCELLANEOUS DATA
Yield test: 3 Hrs. at 15 GPM
Depth from surface to normal water level: 10 ft.
Depth to water level when pumping: 11 ft.

Well is terminated 18 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to Madison laboratory on: 10-12 1979

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Robert D. Behm Registered Well Driller
COMPLETE MAIL ADDRESS: Rt. 5 Rhinelander, Wis. 54501

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

AUG 1 1974

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST
CHECK ONE: ☑ Town ☐ Village ☐ City
NAME: LINCOLN

2. LOCATION – ¼ Section: SW | NE | Section: 33 | Township: 35N | Range: 13E
OR – Grid or street no.
Street name
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: JOHN CAMPSHURE
ADDRESS: 5321 W. CORNELIA AVE.
POST OFFICE: CHICAGO, ILL.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
8								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
			60						

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	79			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL 15#/FT. .258" COUPLED	Surface	76
5	SCREEN	76	79

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND	Surface	27
CLAY	27	39
SAND + CLAY	39	75
SAND	75	79

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on JULY 27 1974

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 15 GPM
Depth from surface to normal water level: 18 ft.
Depth to water level when pumping: 70 ft.

Well is terminated 10 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: JULY 29 1974

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Philip Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: BOX 1 PHLOX, WIS.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 2-79

NOV 2 8 1983

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Lincoln

2. LOCATION: ¼ Section or Gov't. Lot: SE NE | Section: 33 | Township: 35N | Range: 13E

OR – Grid or Street No. | Street or Road Name

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Gary Moder

ADDRESS: 1129 Mt. Mary Dr.

POST OFFICE: Green Bay, Wis.

ZIP CODE: 54302

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
20										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump		Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other			Seepage Pit	
				Clearwater Dr.		Clearwater Sump				35		Seepage Bed 70	
												Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well										
		Pump										
		Tank										

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin Concrete Floor Only Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface				93

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	New black steel 18.97 PE A53 US steel	Surface	93
	Open bottom		
	.5 parts iron		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & gravel	Surface	40
Clay	40	92
Gravel	92	93

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on June 13 19 83

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 10 GPM
Depth from surface to normal water level 35 Ft.
Depth of water level when pumping 80 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 13 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on June 15 1983

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Webster — Registered Well Driller

Business Name and Complete Mailing Address: Rhinelander Well Drilling Inc
160 County Dr.
Rhinelander, WI 54501

Well Construction Report For CS 353
WISCONSIN UNIQUE WELL NUMBER

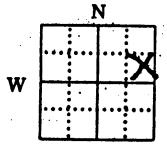
State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

JUL 27 1990 NOV 7 1990

Property Owner: Wesley S. Goode Telephone Number: 414-355-5429
Mailing Address: 3921 W. County Line Rd
City: Brown Deer State: WI Zip Code: 53209
County of Well Location: Forest 21 County Well Location Permit No.: W Well Completion Date: 07/11/1990 (M M D D Y Y)

Well Constructor (Business Name): Rhinelander Well Drilling Registration #: 632
Address: P.O. Box 584
City: Rhinelander State: WI Zip Code: 54501

2. Mark well location in correct 40-acre parcel of section.



1. Location
☒ Town ☐ City ☐ Village of Lincoln
Fire # (if available): 2680
Grid or Street Address or Road Name and Number (if available): Shore Drive
Subdivision Name: Lot #: Block #:
Gov't Lot # 2 or SE ¼ of NE ¼ of Section 33; T 35 N; R 13 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # _____ constructed in 19 _____.
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and/or _____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other _____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☐ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
10 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
55 3. Septic or Holding Tank	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
60 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type _____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
150 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage _____
8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	Other NR 112 Waste Source
		____ 24. _____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	59

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable tool Bit _____ in. dia.
☐ 6. Temp. Outer Casing _____ in. dia. Removed? ☐ Yes ☐ No If no, explain _____
☐ 7. Other _____

DNR USE ONLY

9. Geology — Type, Caving/Noncaving, Color, Hardness, Etc.

		From (ft.)	To (ft.)
QY-	Caving Sand + Gravel	surface	30
-Z-	Clay + Gravel	30	55
-S-	Sand	55	62

7. Casing, Liner, Screen — Material, Weight, Specification Mfg. & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
6	A-53 Grade B	surface	59
	Plain End Welded		
	18.97 #/Ft.		
	Sawhill Pipe MFG.		

Dia. (in.)	screen type and material	From	To

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

10. Static Water Level
12 ft. above ground level
ft. below ground surface

11. Pump Test
Pumping Level 50 ft. below surface
Pumping at 10 GPM for ____ hours

12. Well Is:
12 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☒ No If no, explain Owner Notified

14. Signature of Point Driver or Registered Driller: [signature] RS Date Signed: 7/23/90
Signature of Drill Rig Operator: [signature] DF Date Signed: 7/23/90 Verified

Make additional comments on reverse side about geology, etc.

DNR
WGNHS ORIGINAL

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

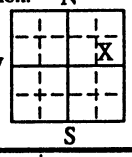
Well Construction Report For WISCONSIN UNIQUE WELL NUMBER GJ745

State of Wisconsin
Private Water Supply - WS/2
Department of Natural Resources
Box 7921
Madison, WI 53707 (Please type or print using a black pen.) JUL 22 1993

Property Owner: Freddie Bornowski
Telephone Number: (414) 469-1323
Mailing Address: 2328 Jubilee Dr.
City: Green Bay
State: WI
Zip Code: 54311
County of Well Location: Forest
Co. Well Permit No.: W
Well Completion Date (mm-dd-yy): 07-01-93

21 Well Constructor (Business Name): Rhinelander Well Drilling, Inc.
License #: 632
Address: P.O. Box 584
City: Rhinelander,
State: WI
Zip Code: 54501

2. Mark well location with a dot in correct 40-acre parcel of section.



1. Well Location — Please use decimals instead of fractions.
[X] Town [ ] City [ ] Village of Lincoln
Fire # (If avail.): 2654
Grid or Street Address or Road Name and Number (If avail.): West Shore Dr.
Subdivision Name:
Lot #: 20
Block #:
Gov't Lot # 2 or SE 1/4 of NE 1/4 of Section 33, T 35 N; R 13 [X] E [ ] W

3. Well Type [X] New [ ] Replacement [ ] Reconstruction
of previous unique well # _____ constructed in 19 ____
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and or _____
(Ex: barn, restaurant, church, school, industry, etc.)

High Capacity:
Well? [ ] Yes [X] No
Property? [ ] Yes [X] No

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other _____

5. Well located on highest point of property, consistent with the general layout and surroundings? [X] Yes [ ] No If no, explain on back side.

Well located in floodplain? [ ] Yes [X] No
Distance in Feet From Well To Nearest:

____ 1. Landfill	____	9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
10 2. Building Overhang	50	10. Privy	____ 18. Paved Animal Barn Pen
____ 3. Septic or Holding Tank (circle one)	____	11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
____ 4. Sewage Absorption Unit	____	12. Foundation Drain to Sewer	____ 20. Silo - Type _____
____ 5. Nonconforming Pit	____	13. Building Drain [ ] Cast Iron or Plastic [ ] Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	____	14. Building Sewer [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other	____ 22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
____ 7. Buried Petroleum Tank	____	15. Collector or Street Sewer	____ 23. Other Manure Storage _____ Other NR 112 Waste Source
75 8. Shoreline/Swimming Pool	____	16. Clearwater Sump	____ 24. _____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	63

Method of constructing upper enlarged drillhole only.
[ ] 1. Rotary - Mud Circulation
[ ] 2. Rotary - Air
[ ] 3. Rotary - Foam
[ ] 4. Reverse Rotary
[ ] 5. Cable-tool Bit _____ in. dia.
[ ] 6. Temp. Outer Casing _____ in. dia. Removed? [ ] Yes [ ] No If no, explain _____
[ ] 7. Other _____

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
QGM	Caving Gravel & Silt	Surface	8
QS	Caving Sand	8	21
GG	Boulders & Gravel	21	28
Z	Clay & Gravel	28	58
QS	Clean Sand	58	63

7. Casing, Liner, Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
6	A-53 Grade B	surface	60
	Plain End Welded		
	18.97 #/Ft.		
	Sawhill pipe		

Dia. (in.)	screen type, material & slot size	From (ft.)	To (ft.)
6	12 slot 3 Ft. Stainless Steel	60	63

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

10. Static Water Level
____ ft. above ground surface
6 ft. below ground surface

11. Pump Test
Pumping Level 47 ft. below surface
Pumping at 20 GPM for 2 hours

12. Well Is:
[X] Above [ ] Below Grade
24 in.
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
[ ] Yes [X] No If no, explain N/A

14. Signature of Point Driver or Licensed Supervisory Driller: Kevin Frank DF Date Signed: 7/1/93
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. Comments on reverse side _____ (Check ✓, if yes)

DNR

WELL CONSTRUCTION REPORT aa2
Form 3300-77A Rev. 11-92

WGNIIS ORIGINAL

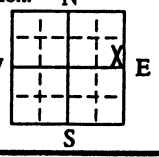
Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER GJ746

State of Wisconsin
Private Water Supply - WS/2
Department of Natural Resources
Box 7921
Madison, WI 53707 (Please type or print using a black pen.) JUL 22 1993

Property Owner: WES GOODE
Telephone Number: (414) 355-5429
Mailing Address: 3921 W. COUNTY LINE RD.
City: BROWN DEER
State: WI
Zip Code: 53209
County of Well Location: FOREST
Co. Well Permit No. W
Well Completion Date (mm-dd-yy): 07-06-93

21 Well Constructor (Business Name): Rhinelander Well Drilling, Inc.
License #: 632
Address: P.O. Box 584
City: Rhinelander,
State: WI
Zip Code: 54501

2. Mark well location with a dot in correct 40-acre parcel of section.



1. Well Location — Please use decimals instead of fractions.
[X] Town [ ] City [ ] Village of LINCOLN
Fire # (If avail.)
Grid or Street Address or Road Name and Number (If avail.): W. SHORE LANE
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or SE 1/4 of NE 1/4 of Section 33, T 35 N; R 13 [X] E [ ] W

3. Well Type [X] New [ ] Replacement [ ] Reconstruction
of previous unique well # ____ constructed in 19 ____
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and or ____
(Ex: barn, restaurant, church, school, industry, etc.)

High Capacity: Well? [ ] Yes [X] No Property? [ ] Yes [X] No

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other ____

5. Well located on highest point of property, consistent with the general layout and surroundings? [X] Yes [ ] No If no, explain on back side.

Well located in floodplain? [ ] Yes [X] No
Distance in Feet From Well To Nearest:

____ 1. Landfill
____ 2. Building Overhang
____ 3. Septic or Holding Tank (circle one) 1ST. CONST
____ 4. Sewage Absorption Unit
____ 5. Nonconforming Pit
____ 6. Buried Home Heating Oil Tank
____ 7. Buried Petroleum Tank
70 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
____ 16. Clearwater Sump
____ 17. Wastewater Sump
____ 18. Paved Animal Barn Pen
____ 19. Animal Yard or Shelter
____ 20. Silo - Type ____
____ 21. Barn Gutter
____ 22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
____ 23. Other Manure Storage ____
Other NR 112 Waste Source
____ 24. ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	59

Method of constructing upper enlarged drillhole only.
[ ] 1. Rotary - Mud Circulation
[ ] 2. Rotary - Air
[ ] 3. Rotary - Foam
[ ] 4. Reverse Rotary
[ ] 5. Cable-tool Bit ____ in. dia.
[ ] 6. Temp. Outer Casing ____ in. dia. Removed? [ ] Yes [ ] No If no, explain ____
[ ] 7. Other ____

DNR USE ONLY | 9. Geology Type, Caving/Noncaving, Color, Hardness, Etc. | From (ft.) | To (ft.)

QS-	CAVING SAND	Surface	22
QX-	CAVING SAND & CLAY	22	47
QS-	CAVING RED SAND	47	59

7. Casing, Liner, Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
6	A-53 GRADE B	surface	56
	PLAIN END WELDED		
	18.97 #/FT.		
	SAWHILL PIPE		
Dia. (in.)	screen type, material & slot size 12 SLOT	From	To
6	3 FT. STAINLESS STEEL	56	59

8. Grout or Other Sealing Material

Method ____ Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

10. Static Water Level
____ ft. above ground surface
8 ft. below ground surface

11. Pump Test
Pumping Level 50 ft. below surface
Pumping at 5 GPM for 2 hours

12. Well Is:
[X] Above [ ] Below Grade
18 in.
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
[ ] Yes [X] No If no, explain N/A

14. Signature of Point Driver or Licensed Supervisory Driller: [signature] DF Date Signed 7/7/93

Signature of Drill Rig Operator (Mandatory unless same as above): [signature] TL Date Signed 7/7/93

Make additional comments on reverse side about geology, additional screens, water quality, etc. Comments on reverse side ____ (Check ✓, if yes)

DNR

WELL CONSTRUCTION REPORT 222
Form 3300-77A Rev. 11-92

WGNHS ORIGINAL

WELL CONSTRUCTOR'S REPORT — WISCONSIN STATE BOARD OF HEALTH — Wel 6

1. COUNTY: FOREST — CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: LINCOLN

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SE 1/4 NE 1/4 SEC. 33 T. 35 N. R. 13 E.

3. OWNER AT TIME OF DRILLING
E. A. KERBOS

4. OWNER'S COMPLETE MAIL ADDRESS
WABENO, WIS.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
4			NEW SITE					

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

RECEIVED
JUN - 3 1966
SANITARY ENGINEERING

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	Surface	20			
4	20	56			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	STEEL	Surface	53
4	BRASS SCREEN	53	56

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
CLAY	Surface	21
GRAVEL	21	35
SAND	35	56

Well construction completed on MAY 26 1966

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 2 Hrs. at 15 GPM

Depth from surface to normal water level 17 ft.

Depth to water level when pumping 25 ft.

Water sample sent to MADISON laboratory on: MAY 31 1966

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel, Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

WELL CONSTRUCTOR'S REPORT — WISCONSIN STATE BOARD OF HEALTH — Wel 6

1. COUNTY: FOREST — CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: LINCOLN

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SE 1/4 NE 1/4 SEC. 33 T. 35 N. R. 13 E.

3. OWNER AT TIME OF DRILLING: SEVERN MATTSON

RECEIVED MAY 31 1966

4. OWNER'S COMPLETE MAIL ADDRESS: 64 CHAFFEE RD. OCONOMOWOC, WIS.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
4		12						

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		30		50					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	Surface	50			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	STEEL	Surface	47
4	BRASS SCREEN	47	50

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
GRAVEL	Surface	27
~~CLAY~~ CLAY	27	38
SAND	38	50

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 15 GPM

Depth from surface to normal water level 17 ft.

Depth to water level when pumping 25 ft.

Well construction completed on MAY 24 1966

Well is terminated 10 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: MAY 25 1966

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel — Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

WELL CONSTRUCTOR'S REPORT

Wel–6

MAR 1 1971

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST

CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: LINCOLN

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SE¼ NE¼ SEC. 33 T. 35 N. R. 13 E.

3. OWNER AT TIME OF DRILLING
SEVERN MATTSON

4. OWNER'S COMPLETE MAIL ADDRESS
R#1 CRANDON, WIS.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
6	15						15	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		40		50					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: HOME

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	Surface	52			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	NEW BLK. STEEL	Surface	49
	10.89#/FT. .237" COUPLED		
4	WELL SCREEN	49	52

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	52

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 12 GPM

Depth from surface to normal water level: 25 ft.

Depth to water level when pumping: 35 ft.

Well construction completed on: 5-24 1966

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: 5-24 1966

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

REV. 11–68

APR 16 1970

WELL CONSTRUCTOR'S REPORT

Wel–6

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST
CHECK ONE: ☑ Town ☐ Village ☐ City
NAME: LINCOLN

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SE/4 NE/4 SEC. 33 T. 35 N. R. 13 E.

3. OWNER AT TIME OF DRILLING
LAWRENCE HOLLANDER

4. OWNER'S COMPLETE MAIL ADDRESS
ALBERT RICKETT R#1 CRANDON, WIS. AGENT

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
6		NEW		SITE				

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	6			
5	6	64			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	61
14.81#/FT. .258" COUPLED			
5	STAINLESS SCREEN	61	64

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	6

10. FORMATIONS

Kind	From (ft.)	To (ft.)
SANDY CLAY	Surface	6
SAND & GRAVEL	6	64

Well construction completed on APR. 10 1970

Well is terminated 12 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: (Hrs. at 15 GPM

Depth from surface to normal water level 46 ft.

Depth to water level when pumping 50 ft.

Water sample sent to MADISON laboratory on: APR. 13 1970

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

REV. 11–68

WELL CONSTRUCTOR'S REPORT

Wel–6

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST — CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: LINCOLN

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
NW1/4 NE1/4 SEC. 33 T. 35 N. R. 13 E.

3. OWNER AT TIME OF DRILLING
REV. JAMES JACOBS GREENBAY, WIS.

4. OWNER'S COMPLETE MAIL ADDRESS
AGENT JOE PERRY R#1 CRANDON, WIS.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
15		NEW		SITE				

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	6			
5	6	120			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	117
14.81 #/FT. .258" WALL			
5	STAINLESS SCREEN	117	120

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	6

10. FORMATIONS

Kind	From (ft.)	To (ft.)
RED SAND	Surface	20
QUICK SAND	20	65
CLAY	65	115
SAND (WATER BEARING)	115	120

RECEIVED OCT 20 1969 Dept. Nat. Res.

Well construction completed on: OCT. 14 1969

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 12 GPM

Depth from surface to normal water level 24 ft.

Depth to water level when pumping 35 ft.

Water sample sent to MADISON laboratory on: OCT. 15 1969

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

REV. 11–68

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy - Division's Copy
Green Copy - Driller's Copy
Yellow Copy - Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 2-79

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: LINCOLN

2. LOCATION: ¼ Section or Gov't. Lot: NE NE | Section: 33 | Township: 35N | Range: 13E

OR - Grid or Street No. | Street or Road Name:

AND - If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Max Richter

ADDRESS: 34328 116 th Street

POST OFFICE: Twin Lakes, Wis. | ZIP CODE: 53181

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
10										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump					50		Seepage Bed 75	
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well										
		Pump										
		Tank										

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin	Other (Describe)
					Concrete Floor Only	
					Concrete Floor and Partial Concrete Walls	

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface				100

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6		Surface	100
	Open Bottom		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & clay Caving	Surface	50
Clay	50	75
Gravel, clay, boulders	75	97
Gravel	97	100

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☒ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on Nov. 1 1983

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield Test: 1 Hrs. at 50 GPM

Depth from surface to normal water level 20 Ft.

Depth of water level when pumping 50 Ft. Stabilized ☒ Yes ☐ No

Water sample sent to Madison laboratory on Nov. 2 1983

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature]
Registered Well Driller

Business Name and Complete Address of Registered Well Driller:
RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

AUG 29 1972

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST | CHECK ONE: ☑ Town ☐ Village ☐ City | NAME: LINCOLN

2. LOCATION – ¼ Section: NE/4 | ¼ Section: NE/4 | Section: 33 | Township: 35N. | Range: 13 E.
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: JAMES NEWLAND
ADDRESS: 5763 N. WITTE LANE
POST OFFICE: MILWAUKEE, WIS. 53209

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
25								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
			70					✓	

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	75			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	73
	15#/FT. .258" COUPLED		
5	SCREEN	73	75

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	75

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on AUG. 23 1972

11. MISCELLANEOUS DATA
Yield test: | Hrs. at | 15 GPM
Depth from surface to normal water level: 44 ft.
Depth to water level when pumping: 47 ft.

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: AUG. 24 1972

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

State of Wisconsin
Department of Natural Resources
Box 450
Madison, Wisconsin 53701

NOV 15 1976

NOTE: SEP 27 1976
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15
Rev. 10-75

1. COUNTY: Forest
CHECK (✓) ONE: [X] Town [ ] Village [ ] City
Name: Lincoln

2. LOCATION: ¼ Section: NE NE | Section: 33 | Township: 35N | Range: 13E
OR – Grid or Street No. | Street Name:
AND – If available subdivision name, lot & block No.

3. NAME [X] OWNER [ ] AGENT AT TIME OF DRILLING CHECK (✓) ONE: Paul Vandervest
ADDRESS: XX 312 Conover Dr.
POST OFFICE: Green Bay, Wisc. 54303

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
15										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Sewage Sump / Clearwater Sump			NONE		Seepage Bed	NONE
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	62			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	62

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
NONE	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand X Caving	Surface	30
Sand & Clay	30	61
Gravel	61	62

10. TYPE OF DRILLING MACHINE USED
[ ] Cable Tool
[ ] Rotary-air w/drilling mud
[ ] Rotary-w/drilling mud
[X] Rotary-hammer w/drilling mud & air
[ ] Rotary-hammer & air
[ ] Reverse Rotary
[ ] Jetting with: [ ] Air [ ] Water

Well construction completed on 9/10/76 19___

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 10 GPM
Depth from surface to normal water level 33 Ft.
Depth of water level when pumping 50 Ft. Stabilized [X] Yes [ ] No

Well is terminated 12 inches [X] above [ ] below final grade
Well disinfected upon completion [X] Yes [ ] No
Well sealed watertight upon completion [X] Yes [ ] No

Water sample sent to St Mary's Hospital laboratory on 9/12/76 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature]
Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

JUN - 9 1972

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST
CHECK ONE: ☑ Town ☐ Village ☐ City
NAME: LINCOLN

2. LOCATION – ¼ Section: NE 1/4 | SW 1/4 | Section: 34 | Township: 35N | Range: 13 E
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.: LOT #1

3. OWNER AT TIME OF DRILLING: EDWARD WALERKO
ADDRESS: R#1
POST OFFICE: CRANDON, WIS.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
15	25						25	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		50		60					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	6			
5	6	60			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	58
	15#/FT. .258" COUPLED		
5	STAINLESS SCREEN	58	60

9. FORMATIONS

Kind	From (ft.)	To (ft.)
CLAY	Surface	4
GRAVEL	4	28
HARD PAN	28	57
GRAVEL	57	60

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	6

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on: JUNE 2 1972

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 10 GPM
Depth from surface to normal water level: 20 ft.
Depth to water level when pumping: 50 ft.

Well is terminated 10 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: JUNE 5 1972

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

FOREST | CHECK (✓) ONE: ☑ Town ☐ Village ☐ City | Name NASHVILLE

2. LOCATION
¼ Section or Gov't. Lot: NW | Section: 3 | Township: 34N | Range: 13E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: TAYLOR BROWN
ADDRESS
POST OFFICE: PICKEREL | WIS. | ZIP CODE: 54465

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
NONE			25							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Seepage Pit	Seepage Bed	Seepage Trench	Manure Hopper or Retention or Pnuematic Tank
											30				55		

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well									
		Pump									
		Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: MOBILE HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	46			

7. CASING, LINER, CURBING AND SCREEN Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK STEEL	Surface	43
	15#/FT, .258" A120		
	RECESSED COUPLING + THREADS		
	UNION STEEL		
5	STAINLESS SCREEN	43	46

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	46

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air ☐ Water

Well construction completed on MAY 5 19 82

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 15 GPM
Depth from surface to normal water level 28 Ft.
Depth of water level when pumping 38 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 10 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on MAY 6 1982

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Philip L Kasperek
Registered Well Driller

Business Name and Complete Mailing Address
A-25 Box 1 PHLOX WIS.

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 2-79

OCT 2 1981

1. COUNTY: FOREST
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: NASHVILLE

2. LOCATION: ¼ Section or Gov't. Lot: NW¼ | Section: 3 | Township: 34N | Range: 13E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: TAYLOR C. BROWN
ADDRESS
POST OFFICE: Pickerel, Wis. ZIP CODE: 54465

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
12			35							

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pneumatic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump					40		Seepage Bed 50	
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well										
		Pump										
		Tank										

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin Concrete Floor Only Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	5			
5	5	62			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	60
	15#/FT. .258" THREAD & RECESS. COUPL.		
	SUMOTOMO METALS A-53		
5	STAINLESS SCREEN	60	62

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
PUDDLED CLAY	Surface	5

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Gravel with Clay	Surface	5
gravel & sand	5	27
gravel with Clay	27	59
gravel	59	62

10. TYPE OF DRILLING MACHINE USED

☑ Cable Tool	☐ Rotary-hammer w/drilling mud & air	☐ Jetting with
☐ Rotary-air w/drilling mud	☐ Rotary-hammer & air	☐ Air ☐ Water
☐ Rotary-w/drilling mud	☐ Reverse Rotary	

Well construction completed on SEPT. 4 1981

11. MISCELLANEOUS DATA

Yield Test: 1 Hrs. at 20 GPM
Depth from surface to normal water level 32 Ft.
Depth of water level when pumping 52 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 12 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on SEPT. 8 1981

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Oscar Volpel Registered Well Driller

Business Name and Complete Mailing Address: Box 11 Phlox Wis. 54464

FR-355-U

WELL CONSTRUCTOR'S REPORT

Wel–6

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST — CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: NASHVILLE

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SE 1/4 SE 1/4 SEC. 4 T. 34 N. R. 13 E.

3. OWNER AT TIME OF DRILLING: WM. C. WOOD

4. OWNER'S COMPLETE MAIL ADDRESS: PICKEREL, WIS

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
4	35					✓		

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		40		75					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: HOME

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20			
6	20	59			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	NEW BLK. STEEL	Surface	54
	19.45#/FT. .280" COUPLED		
6	STAINLESS SCREEN	54	59

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
CLAY WITH GRAVEL	Surface	27
GRAVEL & SAND	27	59

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 25 GPM

Depth from surface to normal water level: 28 ft.

Depth to water level when pumping: 35 ft.

Well construction completed on: AUG. 13 1969

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: AUG. 13 1969

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

A-27

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

AUG 23 1982

1. COUNTY: FOREST
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: NASHVILLE

2. LOCATION: ¼ Section or Gov't. Lot: SW | Section: 9 | Township: 34N | Range: 13E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: DR. JOHN PHELPS
ADDRESS: BOX 8
POST OFFICE: SULLIVAN | ZIP CODE: WIS. 53178

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
11			20							

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other				Seepage Pit	
				Clearwater Dr.	Clearwater Sump				50		Seepage Bed 60	
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well		Nonconforming Existing								
		Pump										
		Tank										

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	8			
5	8	40			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK STEEL	Surface	37
	15 #/FT. .258" A-120		
	RECESSED COUP + THREADS		
	UNION STEEL		
5	STAINLESS SCREEN	37	40

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	8

9. FORMATIONS

Kind	From (ft.)	To (ft.)
GRAVEL + CLAY	Surface	8
SAND + GRAVEL	8	40

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on AUG 12 1982

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 10 GPM
Depth from surface to normal water level 16 Ft.
Depth of water level when pumping 32 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on AUG 12 1982

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Philip Koeppel Registered Well Driller
Business Name and Complete Mailing Address: BOX 1 PHLOX WIS.

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER DW 069

AUG 21 1990

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

Property Owner: ERVIN KLAPPER | Telephone Number: 414 437 2819

Mailing Address: 1111 SUYDAM ST.

City: GREEN BAY | State: WIS | Zip Code: 54301

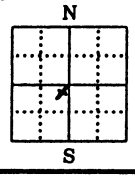
County of Well Location: 21 FOREST | County Well Location Permit No.: W | Well Completion Date: 8 2 90 (M M D D Y Y)

Well Constructor (Business Name): PHILIP KOEPPEL | Registration #: 667

Address: W6824 REDRIVER RD

City: ANTIGO | State: WIS | Zip Code: 54409

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)

☑ Town ☐ City ☐ Village of NASHVILLE | Fire # (if available)

Grid or Street Address or Road Name and Number (if available)

Subdivision Name | Lot # | Block #

Gov't Lot # ____ or NE ¼ of SW ¼ of Section 29 ; T 34 N; R 13 ☒ E ☐ W

3. Well Type ☒ New ☒ Replacement ☐ Reconstruction

of unique well # NONE constructed in 19 ____.

Reason for new, replaced or reconstructed well? FAILING POINT

4. Well serves 1 # of homes and/or ____ (ex: barn, restaurant, church, school, industry, etc.)

High Capacity Well? ☐ Yes ☒ No

High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.

Well Located in Floodplain? ☐ Yes ☒ No

Distance In Feet From Well To Nearest:

- ____ 1. Landfill
- 2 2. Building Overhang
- 55 3. Septic or Holding Tank
- 65 4. Sewage Absorption Unit
- ____ 5. Nonconforming Pit
- ____ 6. Buried Home Heating Oil Tank
- ____ 7. Buried Petroleum Tank
- 95 8. Shoreline/Swimming Pool
- ____ 9. Downspout/Yard Hydrant
- 110 10. Privy
- ____ 11. Foundation Drain to Clearwater
- ____ 12. Foundation Drain to Sewer
- ____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other
- 45 14. Building Sewer ☒ Gravity ☐ Pressure ☒ Cast Iron or Plastic ☐ Other
- ____ 15. Collector or Street Sewer
- ____ 16. Clearwater Sump
- ____ 17. Wastewater Sump
- ____ 18. Paved Animal Barn Pen
- ____ 19. Animal Yard or Shelter
- ____ 20. Silo — Type ____
- ____ 21. Barn Gutter
- ____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
- ____ 23. Other Manure Storage ____ Other NR 112 Waste Source
- ____ 24. ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
5	surface	82

Method of constructing upper enlarged drillhole only.

☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	BLACK STEEL	surface	79
	15#/FT. .258" A53B		
	RECESSED COUP & THREAD		
	V.S.P. 1950 P.S.I.		
Dia. (in.)	screen type and material	From	To
5	STAINLESS JOHNSON #12	79	82

8. Grout or Other Sealing Material

Method ____ Kind of Sealing Material ____

From (ft.)	To (ft.)	# Sacks Cement
surface		

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
-4-	SAND & GRAVEL	surface	82

10. Static Water Level
____ ft. above ground level
11 ft. below ground surface

11. Pump Test
Pumping Level 40 ft. below surface
Pumping at 25 GPM for 3 hours

12. Well Is:
12 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☒ No If no, explain STILL IN USE

14. Signature of Point Driver or Registered Driller: Philip Koeppel PK — Date Signed: 8-2-90

Signature of Drilling Operator: Jeff Kirkman JK — Date Signed: 8-2-90

Make additional comments on reverse side about geology, etc.

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER DS 303

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

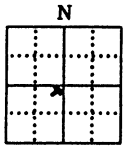
NOV 28 1990

Property Owner: EMIL CIBIK | Telephone Number: (715) 484 8976
Mailing Address: P.O. Box 74
City: PICKEREL | State: WIS | Zip Code: 54465
County of Well Location: FOREST | County Well Location Permit No.: W | Well Completion Date: 11 8 90 (M M D D Y Y)

(21)

Well Constructor (Business Name): PHILIP KOEPPEL | Registration #: 667
Address: W6824 REDRIVER RD
City: ANTIGO | State: WIS | Zip Code: 54409

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of S. NASHVILLE | Fire # (if available)
Grid or Street Address or Road Name and Number (if available)
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or NE ¼ of SW ¼ of Section 9 ; T 34 N; R 13 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # ____ constructed in 19 ____.
Reason for new, replaced or reconstructed well? NEW HOME

4. Well serves 1 # of homes and/or ____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
2 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
30 3. Septic or Holding Tank	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
____ 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type ____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	12 14. Building Sewer ☒ Gravity ☐ Pressure ☒ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage ____ Other NR 112 Waste Source
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	____ 24. ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
5	surface	72

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
SG	SAND + GRAVEL	surface	10
YU	MUDDY SAND + GRAVEL	10	68
S	SAND	68	72

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	BLACK STEEL	surface	69
	15#/FT. .258" A53B		
	RECESSED COUP + THREAD		
	V.S.P. 1950 P.S.I.		
Dia. (in.)	screen type and material	From (ft.)	To (ft.)
5	STAINLESS JOHNSON #12	69	72

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

10. Static Water Level
____ ft. above ground level
10 ft. below ground surface

11. Pump Test
Pumping Level 35 ft. below surface
Pumping at 20 GPM for 2 hours

12. Well Is:
16 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☐ No If no, explain NONE

14. Signature of Point Driver or Registered Driller: Philip Koeppel (PK) Date Signed: 11-8-90
Signature of Drill Rig Operator: A-30 SAME (PK) Date Signed:

Make additional comments on reverse side about geology, etc.

DNR

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

94

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 2-79

JUL 17 1981

1. COUNTY: FOREST
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: NASHVILLE

2. LOCATION: ¼ Section or Gov't. Lot: NW¼ SE¼ | Section: 9 | Township: 34N | Range: 13E
OR – Grid or Street No. | Street or Road Name:
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: CARL JOHNSON
ADDRESS: 700 OWEN RD
POST OFFICE: MONONA, WIS. | ZIP CODE: 53716

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
12			20							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
											30		Seepage Pit Seepage Bed 50 Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well Pump Tank	Nonconforming Existing								

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin Concrete Floor Only Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	65			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK. STEEL 15#/FT. .258" THR. & RECESS. COUPL. A-53 SUMOTOMO METALS	Surface	63
5	STAINLESS SCREEN	63	65

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & Gravel	Surface	65

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on JUNE 30 19 81

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 15 GPM
Depth from surface to normal water level 26 Ft.
Depth of water level when pumping 56 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on JUNE 30 19 81

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Oscar Koeppel Registered Well Driller

Business Name and Complete Mailing Address: Box 11 Phlox Wis. 54464

STATE OF WISCONSIN

WELL CONSTRUCTOR'S REPORT — **DEPARTMENT OF RESOURCE DEVELOPMENT** — FR-356-U Wel 6

1. COUNTY: FOREST — CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: NASHVILLE

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
NW¼ SE¼ SEC. 9 T. 34 N. R. 13 E.

3. OWNER AT TIME OF DRILLING: ROBERT MCKENNA

4. OWNER'S COMPLETE MAIL ADDRESS: 230 TERRACE COURT GREEN BAY, WIS. 54301

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
5	25		15				40	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		60		70					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	50			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	47
	14.81# .258" COUPLED		
5	BRASS WELL SCREEN	47	50

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
GRAVEL WITH SAND	Surface	50

Well construction completed on JAN. 13 1968

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 15 GPM

Depth from surface to normal water level 20 ft.

Depth to water level when pumping 35 ft.

Water sample sent to MADISON laboratory on: JAN. 15 1968

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller — COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis. 54464

A-32

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-80

JAN 28 1980

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: SW NW | Section: 26 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Ms. Mary Polar
ADDRESS: Mole Lake, Wisc. 54520
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
30										

Street Sewer		Other Sewers		Foundation Drain Connected to:			Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump	C.I.	Other		95		Seepage Pit	
				Clearwater Dr.		Clearwater Sump						Seepage Bed	100
												Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	33	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	30
6	15-slot Stainless Well Screen	30	33

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Clay	Surface	30
Sand	30	33

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☒ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on 6/26/79 19

11. MISCELLANEOUS DATA
Yield Test: 1½ Hrs. at 10 GPM
Depth from surface to normal water level 14 Ft.
Depth of water level when pumping 18 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☐ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 6/26/79 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature
Registered Well Driller

A-33

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
[illegible] COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER CN 977

OCT 5 1990

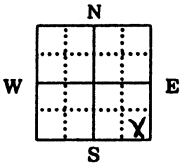
State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

Property Owner: Golda Long | Telephone Number: ( )
Mailing Address: Mole Lake Indian Reservation
City: Mole Lake | State: (W)i | Zip Code: 54520
County of Well Location: Forest | County Well Location Permit No.: W | Well Completion Date: 9 / 17 / 90 (M M / D D / Y Y)

(21)

Well Constructor (Business Name): Shawano Well Drilling # 196 | Registration #
Address: Route 3 Box 247
City: Shawano | State: Wi | Zip Code: 54166

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of Nashville | Fire # (if available)
Grid or Street Address or Road Name and Number (if available): Hwy 55
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or SE ¼ of SE ¼ of Section 27; T 35 N; R 12 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # ____ constructed in 19 90.
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and/or ____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
55 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
50 3. Septic or Holding Tank	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
50 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type ____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage ____
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	Other NR 112 Waste Source
		____ 24. none - septic

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
10	surface	25
6'	25	60

Method of constructing upper enlarged drillhole only.
☒ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	Astm A53 18.97	surface	57
	Butt welded		
		15	slot

Dia. (in.)	screen type and material	From	To
6	Johnson Stainless Steel	57	60

8. Grout or Other Sealing Material

Method Circulation / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
Cement grout	surface		
↓	8	25	6

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
-V-	Sand & gravel	surface	25
MS-	medium sand	25	42
NS-	fine sand	42	54
MS-	medium sand	54	60

10. Static Water Level
15 ft. above ground level
~~15~~ ft. below ground surface

11. Pump Test
Pumping Level 18 ft. below surface
Pumping at 12 GPM for 2 hours

12. Well Is:
____ in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
☒ Yes ☐ No If no, explain ____

14. Signature of Pump Driver or Registered Driller: Don Dillenburg (DD) Date Signed: 9-12-90
Signature of Drill Rig Operator: Date Signed: 9-12-90

Make additional comments on reverse side about geology, etc.

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER CH 174

MAR 29 1991

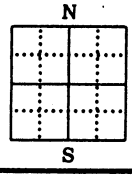
State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

Property Owner: Mole Lake Wood Inf. | Telephone Number:
Mailing Address: Rt. 1 Box 567 Crandon
City: Mole Lake | State: WI | Zip Code: 54520
County of Well Location: Forest | County Well Location Permit No.: W | Well Completion Date: 21 / 28 / 90 (M M D D Y Y)

(21)

Well Constructor (Business Name): Northwoods Well Drilling | Registration #: 156
Address: 6608 Prune Lake Rd
City: Rhinelander | State: WI | Zip Code: 54501

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of Mole Lake | Fire # (if available)
Grid or Street Address or Road Name and Number (if available): (Nashville)
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or SE ¼ of SE ¼ of Section 27; T 35 N; R 12 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # _____ constructed in 19 ____.
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and/or Industry (ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
____ 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
28 3. Septic or Holding Tank	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
80 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type ____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage ____ Other NR 112 Waste Source
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	____ 24. ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	44

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification, Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	PEUS 18.97#	surface	41

Dia. (in.)	screen type and material	From (ft.)	To (ft.)
6	3' NO. 15 SS	41	44

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
S	Sand	surface	44

10. Static Water Level
15 ft. above ground level
____ ft. below ground surface

11. Pump Test
Pumping Level 30 ft. below surface
Pumping at ____ GPM for ____ hours

12. Well Is:
☒ Above ☐ Below Grade
12 in.
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☐ No If no, explain ____

14. Signature of Joint Driver or Registered Driller (PW) Date Signed 5/30/90
Signature of Drill Rig Operator Date Signed

Make additional comments on reverse side about geology, etc.

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: NE SE | Section: 27 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Mole Lake Tribal Council Lot# 3
ADDRESS: Mole Lake, Wisc.
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
FIRST CONSTRUCTION ON LOT										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit
				Clearwater Dr.		Clearwater Sump							Seepage Bed
													Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	40

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	37
6	12-slot Stainless Well Screen	37	40

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand	Surface	40

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary
☐ Jetting with ☐ Air ☐ Water

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 12 GPM
Depth from surface to normal water level 13 Ft.
Depth of water level when pumping 26 Ft. Stabilized ☒ Yes ☐ No

Well construction completed on 11/27/79 19
Well is terminated 24 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 11/28/79 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

Well # 6 FR-208-U

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE: White Copy – Division's Copy; Green Copy – Driller's Copy; Yellow Copy – Owner's Copy

OCT 2 0 1977

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 12-76

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City Name: Nashville

2. LOCATION: ¼ Section: ~~SE NE~~ Section: ~~29~~ Township: 35N Range: 12E
OR – Grid or Street No. Street Name: NE NE SE sec 27 per USGS
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Farley Ackley
ADDRESS
POST OFFICE ~~MXXX~~ Mole Lake, Wisc.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
7										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other		35		Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	50
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	41			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	38
6	12-slot Stainless Well Screen	38	41

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
~~XXXXX~~ Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand Caving	Surface	41

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with ☐ Air ☐ Water
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on 8/9/77 19

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 12 GPM

Depth from surface to normal water level 27½ Ft.

Depth of water level when pumping 32 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary's Hospital laboratory on 8/11/77 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Webster Registered Well Driller

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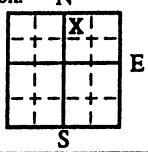
Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

First Water Quality Test For
WISCONSIN UNIQUE WELL NUMBER FN 346

Property Owner: Spruce Corporation, Inc
Telephone Number: (None)
Mailing Address: P.O. Box 245
City: Crandon
State: WI
Zip Code: 54520
County of Well Location: Forest
Co. Well Permit No. W
Well Completion Date (mm-dd-yy): 11 - 04 - 92

21 Well Constructor (Business Name): Rhinelander Well Drilling, Inc.
License #: 632
Address: P.O. Box 584
City: Rhinelander,
State: WI
Zip Code: 54501

2. Mark well location with a dot in correct 40-acre parcel of section.



State of Wisconsin
Private Water Supply - WS/2
Department of Natural Resources
Box 7921
Madison, WI 53707

FEB 10 1993

(Please type or print using a black pen.)

1. Well Location — Please use decimals instead of fractions.
[X] Town [ ] City [ ] Village of Nashville
Fire # (If avail.)
Grid or Street Address or Road Name and Number (If avail.): Mole Lake Road
Subdivision Name / Lot # / Block #
Gov't Lot # ____ or NW 1/4 of NE 1/4 of Section 34, T 35 N; R 12 [X] E [ ] W

3. Well Type [X] New [ ] Replacement [ ] Reconstruction
of previous unique well # ____ constructed in 19 ____
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and or ____
(Ex: barn, restaurant, church, school, industry, etc.)

High Capacity:
Well? [ ] Yes [X] No
Property? [ ] Yes [X] No

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other ____

5. Well located on highest point of property, consistent with the general layout and surroundings? [X] Yes [ ] No If no, explain on back side.

Well located in floodplain? [ ] Yes [X] No
Distance in Feet From Well To Nearest:

4 1. Landfill
____ 2. Building Overhang
50 3. Septic or Holding Tank (circle one)
65 4. Sewage Absorption Unit
____ 5. Nonconforming Pit
____ 6. Buried Home Heating Oil Tank
____ 7. Buried Petroleum Tank
50 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
____ 16. Clearwater Sump
____ 17. Wastewater Sump
____ 18. Paved Animal Barn Pen
____ 19. Animal Yard or Shelter
____ 20. Silo - Type ____
____ 21. Barn Gutter
____ 22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
____ 23. Other Manure Storage ____
Other NR 112 Waste Source
____ 24. ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	242

Method of constructing upper enlarged drillhole only.
[ ] 1. Rotary - Mud Circulation
[ ] 2. Rotary - Air
[ ] 3. Rotary - Foam
[ ] 4. Reverse Rotary
[ ] 5. Cable-tool Bit ____ in. dia.
[ ] 6. Temp. Outer Casing ____ in. dia.
Removed? [ ] Yes [ ] No
If no, explain ____
[ ] 7. Other ____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification, Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	A-53 Grade B	surface	145
	Plain End Welded		
	18.97 #/Ft.		
	Sawhill Pipe Mfg.		
Dia. (in.)	screen type, material & slot size	From	To

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
QY	Caving Sand & Gravel	Surface	20
-Y-	Sand & Gravel	20	45
-GB	Boulders & Gravel	45	85
-Z-	Clay & Gravel	85	145
SQ	Soft Green Granite	145	242

10. Static Water Level
____ ft. above ground surface
10 ft. below ground surface

11. Pump Test
Pumping Level 235 ft. below surface
Pumping at 0.5 GPM for 2 hours

12. Well Is:
12 in. [X] Above [ ] Below Grade
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
[ ] Yes [X] No If no, explain n/a

14. Signature of Point Driver or Licensed Supervisory Driller: [signature] DF Date Signed 11/4/92
Signature of Drill Rig Operator (Mandatory unless same as above): Brad [illegible] DF 11/4/92

Make additional comments on reverse side about geology, additional screens, water quality, etc.
Comments on reverse side ____ (Check √, if yes)

DNR
A-38

WELL CONSTRUCTION REPORT
Form 3300-77A
Rev. 1-92

WGNHS ORIGINAL

203

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE: JUN 21 1978

White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 12-76

1. COUNTY: Langlade
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Ainsworth

2. LOCATION: ¼ Section: Lot 5 | Section: 11 | Township: 34N | Range: 12E
OR – Grid or Street No. | Street Name:
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Leon Rose Jr.
ADDRESS: 7919 W. Silver Spring drive
POST OFFICE: Milwaukee Wisc

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
8'			65'							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
											75'		Seepage Pit: Seepage Bed 100' Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well / Pump / Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Private home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6"	Surface	34			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6"	NEW STEEL TFC 19.45 lbs	Surface	34'
	Open bottom	No screen	
	FSTMA 53		
	Installed		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & Gravel	Surface	20'
Sand & loose clay	20'	30'
Gravel	30'	34

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on 6-8 1978

11. MISCELLANEOUS DATA

Yield Test: 1 Hrs. at 15 GPM
Depth from surface to normal water level 6 Ft.
Depth of water level when pumping 20 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Wisc. lab of hygiene laboratory on 6-9 19 78

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature] Registered Well Driller

Complete Mail Address: Marshfield Wisc 54449

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE: JUN 21 1978

White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-76

1. COUNTY: Jefferson — CHECK (✓) ONE: ☒ Town ☐ Village ☐ City — Name: Aurora

2. LOCATION: ¼ Section: Govt Lot 5 — Section: 11 — Township: 34N — Range: 12E
OR – Grid or Street No. — Street Name:
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Robert Nestle
ADDRESS: 1525 Helene drive
POST OFFICE: Brookfield Wisc

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
9'			65'							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
											75'		Seepage Pit; Seepage Bed 100'; Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well; Pump; Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Private home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	34			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Steel TFC 19.45	Surface	34
	Open bottom - No Screen		
	ASTM A53		
	Smls A/G		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & Gravel	Surface	20'
Sand & loose clay	20'	30'
Gravel	30'	34

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with Air ☐ Water

Well construction completed on 6-8 19 78

11. MISCELLANEOUS DATA

Yield Test: 1 Hrs. at 15 GPM

Depth from surface to normal water level 6 Ft.

Depth of water level when pumping 20 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

• Water sample sent to Wisc lab of hygiene laboratory on 6-9 19 78

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: William J Nebel Registered Well Driller

Complete Mail Address: Harshaw, Wisc 54529

APR 29 1977

WELL CONSTRUCTOR'S REPORT
FORM 3300--15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

APR 29 1977
STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

LA-747-U

1. COUNTY Langlade

CHECK ONE: [X] Town [ ] Village [ ] City

NAME: Ainsworth

2. LOCATION – ¼ Section: | Section: 11 | Township: 34N | Range: 12E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.: Cov. lot 5

3. OWNER AT TIME OF DRILLING
Donald Hermann
ADDRESS: P.O. Box 18059
POST OFFICE: Milwaukee, WI

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
8	30							

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		50			75				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
lake 200 ft

5. Well is intended to supply water for:
Cottage

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	36			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	New steel, T&C 19:45 lbs	Surface	36
	No Screen		
	Astm A-53 Valley Steel		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand, gravel	Surface	24
hard pan	24	34
gravel	34	36

10. TYPE OF DRILLING MACHINE USED

[X] Cable Tool | [ ] Direct Rotary | [ ] Reverse Rotary
[ ] Rotary – air w/drilling mud | [ ] Rotary – hammer with drilling mud & air | [ ] Jetting with [ ] Air [ ] Water

Well construction completed on 4/ 29/ 19 76

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 25 GPM

Depth from surface to normal water level 10 ft.

Depth to water level when pumping 20 ft.

Well is terminated 10 inches [X] above [ ] below final grade

Well disinfected upon completion [X] Yes [ ] No

Well sealed watertight upon completion [X] Yes [ ] No

Water sample sent to Wis State Lab. of Hygiene laboratory on: 4/29 1976

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: William Finkelstein
Registered Well Driller

COMPLETE MAIL ADDRESS
Harshaw, WI 54529

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
		A-41		

REV 3-71

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 2-79

SEP 6 1984

1. COUNTY: LANGLADE
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: AINSWORTH

2. LOCATION: ¼ Section or Gov't. Lot: NE | Section: 11 | Township: 34N | Range: 12E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: DAVID JAGLA
ADDRESS: 852 MANITOWOC ST
POST OFFICE: MENASHA WIS ZIP CODE: 54952

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
50			75							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit	Seepage Bed	Seepage Trench	Manure Hopper or Retention or Pnuematic Tank
											50			55		

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well	Pump	Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo W/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	6			
5	6	32			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK STEEL 15#/FT. .258" A120 RECESSED COUP+THREAD UNION STEEL	Surface	30
5	STAINLESS SCREEN	30	32

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	6

9. FORMATIONS

Kind	From (ft.)	To (ft.)
GRAVEL + CLAY	Surface	6
MUDDY GRAVEL	6	30
SAND	30	32

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☑ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air ☐ Water

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 10 GPM
Depth from surface to normal water level 4 Ft.
Depth of water level when pumping 25 Ft. Stabilized ☑ Yes ☐ No

Well construction completed on AUG 9 1984
Well is terminated 12 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to SCHULZ CREAMERY #230 laboratory on AUG 10 1984

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Philip Koeppel Registered Well Driller

A-42

Business Name and Complete Mailing Address: W6824 RED RIVER RD ANTIGO WIS 54409

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County LANGLADE — Town ☑ / Village ☐ / City ☐ AINSWORTH (Check one and give name)

2. Location GOV. LOT # 3 SEC. 12 T 34 N. R. 12 E.
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☑ or Agent ☐ HENRY JACOBSON EAST SIDE LODGE
Name of individual, partnership or firm

4. Mail Address PEARSON, WIS
Complete address required

5. From well to nearest: Building 50 ft; sewer ____ ft; drain ____ ft; septic tank ____ ft; dry well or filter bed ____ ft; abandoned well ____ ft. toilet 60 ft.

6. Well is intended to supply water for: COTTAGES

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	0	20			
5	20	29			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	STEEL	0	29

9. GROUT:

Kind	From (ft.)	To (ft.)
PUDDLED CLAY	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
CLAY	0	22
GRAVEL	22	29

RECEIVED
JUN 14 1956
ENVIRONMENTAL SANITATION

Construction of the well was completed on: JUNE 6 19 56

The well is terminated 8 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 2 Hrs. at 15 GPM.

Depth from surface to water-level: 6 ft.

Water-level when pumping: 9 ft.

Water sample was sent to the state laboratory at: MADISON City on JUNE 7 19 56

Signature Oscar Koeppel — Registered Well Driller

PHLOX, WIS — Complete Mail Address

Please do not write in space below

Rec'd JUN 8 - 1956 No. 17379

Ans'd ____

Interpretation Safe

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.	0				
Confirm					
B. Coli	0				

Examiner ____

WELL #2

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County LANGLADE — Town ☑ / Village ☐ / City ☐ AINSWORTH (Check one and give name)

2. Location SEC. 12 GOV. LOT # 3 T. 34N. R. 12 E.
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☑ or Agent ☐ HENRY JACOBSON - EAST END RESORT
Name of individual, partnership or firm

4. Mail Address PEARSON WIS.
Complete address required

5. From well to nearest: Building 75 ft; sewer ____ ft; drain ____ ft; septic tank ____ ft; dry well or filter bed ____ ft; abandoned well ____ ft.

6. Well is intended to supply water for: RESORT WELL #2

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	0	20			
4	20	30			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	STD. STEEL	0	30

9. GROUT:

Kind	From (ft.)	To (ft.)
PUDDLED CLAY	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
STONY CLAY	0	16
SAND	16	24
GRAVEL	24	30

RECEIVED
JUN 22
ENVIRONMENTAL

Construction of the well was completed on: JUNE 19 19 56

The well is terminated 12 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 2 Hrs. at 12 GPM.

Depth from surface to water-level: 10 ft.

Water-level when pumping: 21 ft.

Water sample was sent to the state laboratory at: MADISON City on JUNE 20 1956

Signature Oscar Kaeppel Registered Well Driller

Box 11 PHLOX, WIS. Complete Mail Address

Please do not write in space below

Rec'd JUN 22 1956 No. 20128

Ans'd ____

Interpretation Safe

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.	____	____	____	____	____
48 hrs.	0	____	____	____	____
Confirm	____	____	____	____	____
B. Coli	____	____	____	____	____

A-44

Examiner ____

WELL # 3 NOT FOR HUMAN CONSUMPTION

Vol 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County LANGLADE — Town ☑ / Village ☐ / City ☐ AINSWORTH (Check one and give name)

2. Location SEC. 12 GOV. LOT # 3 T. 34 N. R. 12 E.
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☑ or Agent ☐ HENRY JACOBSON - EAST END RESORT
Name of individual, partnership or firm

4. Mail Address PEARSON, WIS.
Complete address required

5. From well to nearest: Building 4 ft; sewer ____ ft; drain ____ ft; septic tank ____ ft; dry well or filter bed ____ ft; abandoned well ____ ft. NOT FOR HUMAN CONSUMPTION

6. Well is intended to supply water for: SHOWER ROOM - WELL # 3

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	0	20			
4	0	25			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	STD. STEEL	0	25

9. GROUT:

Kind	From (ft.)	To (ft.)
PUDDLED CLAY	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
CLAY	0	21
GRAVEL	21	25

RECEIVED
JUN 20 1956
ENVIRONMENTAL SANITATION

Construction of the well was completed on:
JUNE 20 19 56

The well is terminated 12 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion?
Yes ✓ No ____

Was the well sealed watertight upon completion?
Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 2 Hrs. at 15 GPM.

Depth from surface to water-level: 7 ft.

Water-level when pumping: 10 ft.

Water sample was sent to the state laboratory at:
NOT FOR HUMAN CONSUMPTION
City on ____ 19____

Signature Oscar Kaeppel — Registered Well Driller

Box 11 Phlox, Wis. — Complete Mail Address

Please do not write in space below

Rec'd JUN 22 1956 No. ____

Ans'd ____

Interpretation ____

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner ____

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

RECEIVED
AUG 23 1950
STATE BOARD OF HEALTH
ENG.

1. County LANGLADE — Town ☑ / Village ☐ / City ☐ AINSWORTH — Check one and give name

2. Location SEC. 12 T. 34 N. R. 12 E. LOT #1
Name of street and number of premise or Sec. Tn. and R. numbers

3. Owner ☑ or Agent ☐ EUGENE STEBER
Name of individual, partnership or firm

4. Mail Address 2ND AVE. ANTIGO, WIS.
Complete address required

5. From well to nearest: Building _____ ft; sewer _____ ft; drain _____ ft; septic tank _____ ft; dry well or filter bed _____ ft; abandoned well _____ ft.

6. Well is intended to supply water for: HOME

7. DRILLHOLE;

Dia. (in.)	From (ft.)	To (ft.)
6	0	12
4	12	38

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind	From (ft.)	To (ft.)
4	STEEL	0	38

9. GROUT:

Kind	From (ft.)	To (ft.)
PUDDLED CLAY	0	12

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
STONY CLAY	0	12
CLAY & GRAVEL MIX	12	35
GRAVEL (WATER BEARING)	35	38

11. MISCELLANEOUS DATA:

Yield test: 3 Hrs. at 12 GPM.

Depth from surface to water: 8 ft.

Water-level when pumping: 12 ft.

Water sample sent to laboratory at WAUSAU, WIS. on 21 AUG. 1950

Construction of the well was completed on 16 AUGUST 1950

The well is terminated 24 inches ☐ above, below ☑ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No _____

Was the well sealed watertight upon completion? Yes ✓ No _____

Signature KOEPPEL DRILLING CO — Registered Well Driller

OSCAR KOEPPEL

Oscar Koeppel

BOX 11 — Complete Mail Address

PHLOX, WIS

RECEIVED
SEP 19 1949
BUREAU SAN. ENG.

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County LANGLADE { Town ☑ / Village ☐ / City ☐ } AINSWORTH Check one and give name

2. Location SEC. 12 T. 34 E. R. 12 E LOT #1 ROLLING STONE LAKE
Name of street and number of premise or Sec. Tn. and R. numbers

3. Owner ☑ or Agent ☐ ALFRED JOHNSON
Name of individual, partnership or firm

4. Mail Address 1120 4TH AVE. ANTIGO WIS.
Complete address required

5. From well to nearest: Building 6 ft; sewer ____ ft; drain ____ ft; septic tank ____ ft; dry well or filter bed ____ ft; abandoned well ____ ft.

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)
6	0	18
4	18	31

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind	From (ft.)	To (ft.)
4	STEEL CASING	0	31

9. GROUT:

Kind	From (ft.)	To (ft.)
PUDDLED CLAY	0	18

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
SAND	0	18
CLAY	18	30
GRAVEL (WATER BEARING)	30	31

11. MISCELLANEOUS DATA:

Yield test: 2 Hrs. at 12 GPM.

Depth from surface to water: 5 ft.

Water-level when pumping: 12 ft.

Water sample sent to laboratory at WAUSAU, WIS. on 19 SEPT. 1949

Construction of the well was completed on 29 AUG. 1949

The well is terminated 30 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

Signature KOEPPEL DRILLING CO. BOX 11 PHLOX, WIS.
Registered Well Driller — Complete Mail Address

OSCAR KOEPPEL (PARTNER)

Oscar Koeppel

JUL 27 1979 LA-762-U

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

1. COUNTY: LANGLADE
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: AINSWORTH

2. LOCATION: ¼ Section: SW1/4 | Section: 12 | Township: 34 N. | Range: 12 E.
OR – Grid or Street No. | Street Name:
AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☑ AGENT AT TIME OF DRILLING CHECK (✓) ONE: RAYMOND POTRYKUS CONSTR. JR.
ADDRESS: PINE POINT RD.
POST OFFICE: PICKEREL, WIS. 54465

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
45			50							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
											50		Seepage Pit; Seepage Bed 50; Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well; Pump; Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	40			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	37
	15 #/FT. .258" RECESS. COUPL.		
	A-53 SUMITOMO ST.		
5	STAINLESS SCREEN	37	40

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	40

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on JULY 3 1979

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 15 GPM
Depth from surface to normal water level 18 Ft.
Depth of water level when pumping 32 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on JULY 5 1979

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Oscar Koeppel Registered Well Driller
Complete Mail Address: Box 11 Phlox, Wis.

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

SEP 17 19

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

1. COUNTY: LANGLADE
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: AINSWORTH

2. LOCATION: ¼ Section: SW¼ | Section: 12 | Township: 34-N. | Range: 12 E.
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: MILTON HILL
ADDRESS: HILLS EAST SHORE RESORT
POST OFFICE: PEARSON, WIS. 54462

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
6			25							

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other		40		Seepage Pit	
				Clearwater Dr.	Clearwater Sump						Seepage Bed	50
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: CABINS

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	25			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK. STEEL 15#/FT. .258" RECESS. COUPL. A-53 SUMITOMO ST.	Surface	25

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	24
GRAVEL	24	25

10. TYPE OF DRILLING MACHINE USED

☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary
☐ Jetting with ☐ Air ☐ Water

Well construction completed on AUG. 27 19 79

11. MISCELLANEOUS DATA

Yield Test: 1 Hrs. at 20 GPM
Depth from surface to normal water level 8 Ft.
Depth of water level when pumping 12 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on AUG. 27 19 79

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Oscar Koeppel Registered Well Driller
Complete Mail Address: Box 11 Phlox, Wis.

WELL CONSTRUCTOR'S REPORT

Wel–6

JUL 27 1970

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: LANGLADE | CHECK ONE: ☑ Town ☐ Village ☐ City | NAME: AINSWORTH

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SE 1/4 SW 1/4 SEC. 12 T. 34 N. R. 12 E

3. OWNER AT TIME OF DRILLING: JAMES JICHA

4. OWNER'S COMPLETE MAIL ADDRESS: 827 SPRUCE ST. ANTIGO, WIS.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
4	12						15	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		25		50					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	5			
5	5	32			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	29
14.81 #/FT. .258" COUPLED			
5	STAINLESS SCREEN	29	32

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	5

10. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	32

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 15 GPM

Depth from surface to normal water level 10 ft.

Depth to water level when pumping 15 ft.

Well construction completed on JULY 21 1970

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: JULY 22 1970

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS
		A-50		

STATE OF WISCONSIN

WELL CONSTRUCTOR'S REPORT

DEPARTMENT OF RESOURCE DEVELOPMENT

Wel

1. COUNTY: LANGLADE

CHECK ONE: ☑ Town ☐ Village ☐ City NAME: AINSWORTH

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)

SE 1/4 SW 1/4 SEC. 12 T. 34 N. R. 12 E.

3. OWNER AT TIME OF DRILLING

DALE PERRY

4. OWNER'S COMPLETE MAIL ADDRESS

125 WAUSAU RD. ANTIGO, WIS.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
4								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
			50						

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	Surface	20			
4	20	37			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	NEW BLK STEEL	Surface	37
	11 #/FT COUPLED		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
CLAY	Surface	35
GRAVEL	35	37

Rec'd: July 10, 1967

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 15 GPM

Depth from surface to normal water level 5 ft.

Depth to water level when pumping 7 ft.

Well construction completed on JUNE 29 1967

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: JULY 5 1967

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Kalppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

WELL CONSTRUCTOR'S REPORT

Wel–6

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: LANGLADE | CHECK ONE: ☑ Town ☐ Village ☐ City | NAME: AINSWORTH

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SE 1/4 SW 1/4 SEC. 12 T. 34 N. R. 12 E.

3. OWNER AT TIME OF DRILLING
AUGUST GOTTER

4. OWNER'S COMPLETE MAIL ADDRESS
PEARSON, WIS.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
NEW SITE								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: MOBILE HOME

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	6			
5	6	26			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL 14.81 #/FT. .258" COUPLED	Surface	26

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	6

10. FORMATIONS

Kind	From (ft.)	To (ft.)
CLAY	Surface	6
GRAVEL & SAND	6	26

RECEIVED
SEP 22 1969
Dept. Nat. Res.

Well construction completed on: SEPT. 18 1969

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 5 GPM

Depth from surface to normal water level 8 ft.

Depth to water level when pumping 16 ft.

Water sample sent to MADISON laboratory on: SEPT. 18 1969

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller | COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

Wel 6

See Instructions on Reverse Side

1. County LANGLADE — Town ☑ AINSWORTH / Village ☐ / City ☐ — Check one and give name

2. Location SE 1/4 SW 1/4 SEC. 12 T. 34 N. R. 12 E.
Name of street and number of premise or Section, Town and Range numbers

RECEIVED APR 21 1964 SANITARY ENGINEERING

3. Owner ☑ or Agent ☐ GERALD CHERWINKA
Name of individual, partnership or firm

4. Mail Address 231 MARY ST. ANTIGO, WIS
Complete address required

5. From well to nearest: Building 5 ft; sewer ____ ft; drain ____ ft; septic tank ____ ft; dry well or filter bed ____ ft; abandoned well ____ ft. PRIVY 50'

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	0	19			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	STEEL	0	19

9. GROUT:

Kind	From (ft.)	To (ft.)

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
GRAVEL	0	19

Construction of the well was completed on: APR. 13 1964

The well is terminated 8 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 2 Hrs. at 5 GPM.

Depth from surface to water-level: 6 ft.

Water-level when pumping: 8 ft.

Water sample was sent to the state laboratory at: MADISON City on APR. 14 1964

Signature Oscar Koeppel Registered Well Driller — Box 11 Phlox, Wis. Complete Mail Address

Please do not write in space below

Rec'd APR 15 1964 No. 13891

Ans'd ____

Interpretation ____

SAFE—BACTERIOLOGICALLY

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli	0	0	0	0	0

Examiner ____

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

NOV - 6 1972
STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: LANGLADE | CHECK ONE: ☑ Town ☐ Village ☐ City | NAME: AINSWORTH

2. LOCATION – ¼ Section: SE 1/4 | SW1/4 | Section: 12 | Township: 34N. | Range: 12 E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: AUGUST GOTTER
ADDRESS
POST OFFICE: PEARSON, WIS.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
20	30						30	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		60		100					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	35			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	35
	15#/FT. .258" COUPLED		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	35

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on OCT. 31 1972

11. MISCELLANEOUS DATA
Yield test: 2 Hrs. at 6 GPM
Depth from surface to normal water level 5 ft.
Depth to water level when pumping 25 ft.

Well is terminated 10 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on NOV. 1 1972

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
		A-54		

JUN 27 1975

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: LANGLADE | CHECK ONE: ☑ Town ☐ Village ☐ City | NAME: AINSWORTH

2. LOCATION – ¼ Section: SE 1/4 | Section: SW 1/4 | Township: 12 | Range: 34N. 12E.
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.: GOV. LOT # 3

3. OWNER AT TIME OF DRILLING: DONALD H. SCHAEFER
ADDRESS: 11560 N. SOLAR AVE. 77W.
POST OFFICE: MEQUON, WIS. 53092

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
15	25						25	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		55			70				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	26			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	24
	15#/FT. .258" COUPLED		
5	SCREEN	24	26

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
GRAVEL & SAND	Surface	26

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on JUNE 19 1975

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 15 GPM
Depth from surface to normal water level: 6 ft.
Depth to water level when pumping: 10 ft.

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: JUNE 23 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
		A-55		

REV. 2-71

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER DW 053

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

AUG 21 1990

Property Owner: GORDON LUEDTKE Telephone Number: (715) 258 7723

Mailing Address: E3310 CTY K

City: WAUPACA State: WIS Zip Code: 54981

County of Well Location: LANGLADE

County Well Location Permit No.: W

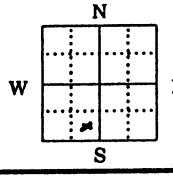
Well Completion Date: 7 9 90 (M M D D Y Y)

Well Constructor (Business Name): PHILIP KOEPPEL Registration #: 667

Address: W6824 REDRIVER RD

City: ANTIGO State: WIS Zip Code: 54409

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)

☒ Town ☐ City ☐ Village of AINSWORTH

Fire # (if available)

Grid or Street Address or Road Name and Number (if available)

Subdivision Name Lot # Block #

Gov't Lot # ____ or SE ¼ of SW ¼ of Section 12; T 34 N; R 12 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction

of unique well # _____ constructed in 19 ____.

Reason for new, replaced or reconstructed well? HAND PUMP FOR CAMPER

4. Well serves 1 # of homes and/or _____ (ex: barn, restaurant, church, school, industry, etc.)

High Capacity Well? ☐ Yes ☒ No

High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other _____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.

Well Located in Floodplain? ☐ Yes ☒ No

Distance In Feet From Well To Nearest:

____ 1. Landfill
N 2. Building Overhang
0 3. Septic or Holding Tank
N 4. Sewage Absorption Unit
E 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
____ 16. Clearwater Sump
____ 17. Wastewater Sump
____ 18. Paved Animal Barn Pen
____ 19. Animal Yard or Shelter
____ 20. Silo — Type _____
____ 21. Barn Gutter
____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 23. Other Manure Storage _____
____ 24. Other NR 112 Waste Source none - septic

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
5	surface	21

Method of constructing upper enlarged drillhole only.

☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit _____ in. dia.
☐ 6. Temp. Outer Casing _____ in. dia. Removed? ☐ Yes ☐ No If no, explain _____
☐ 7. Other _____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	BLACK STEEL	surface	18
	15#/FT. .258" A53B		
	RECESSED COUP x THREAD		
	V.S.P. 1950 P.S.I.		
Dia. (in.)	screen type and material	From	To
5	STAINLESS JOHNSON #/2	18	21

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
S	SAND	surface	2
SU	MUDDY SAND	2	15
S	SAND	15	21

10. Static Water Level
____ ft. above ground level
3 ft. below ground surface

11. Pump Test
Pumping Level 8 ft. below surface
Pumping at 4 GPM for 2 hours

12. Well Is:
8 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☐ No If no, explain NONE

14. Signature of Point Driver or Registered Driller: Philip Koeppel PK Date Signed: 7-9-90

Signature of Drill Rig Operator: SAME PK Date Signed

Make additional comments on reverse side about geology, etc.

DNR
A-56

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

87

SEP 12 1975 SEP 23 1975

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: LANGLADE
CHECK ONE: ☑ Town ☐ Village ☐ City
NAME: AINSWORTH

2. LOCATION – ¼ Section: NE¼ SW | Section: 12 | Township: 34N | Range: 12E
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: MAURICE NOVAK
ADDRESS: 119 WIEX ST.
POST OFFICE: ANTIGO, WIS.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
25	30						30	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		50	75		60				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	36			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	36
	14.81 #/FT. .258" COUPLED		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND	Surface	7
MUCK MUDDY SAND	7	34
GRAVEL + SAND	34	36

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 12 GPM
Depth from surface to normal water level: 7 ft.
Depth to water level when pumping: 22 ft.

Well construction completed on: SEPT 8 1975
Well is terminated 14 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: SEPT 8 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Philip Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: BOX 1 PHLOX, WIS.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
		A-57		

REV. 2-71

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

JUN 14 19[illegible]

1. COUNTY: LANGLADE
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: AINSWORTH

2. LOCATION: ¼ Section or Gov't. Lot: SE | Section: 12 | Township: 34N | Range: 12E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: VERNON RUSCH
ADDRESS: 416 THIRD STREET
POST OFFICE: REEDSVILLE | ZIP CODE: WIS 54230

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
11										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.	10	Clearwater Sump					47		Seepage Bed 67	
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well	Nonconforming Existing								
		Pump									
		Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin	Concrete Floor Only	Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	46			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK STEEL 15#/FT. .258" A120 RECESSED COUP+THREAD UNION STEEL	Surface	44
5	STAINLESS SCREEN	44	46

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND + GRAVEL	Surface	46

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air ☐ Water

Well construction completed on MAY 30 19 84

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 25 GPM
Depth from surface to normal water level 18 Ft.
Depth of water level when pumping 27 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 12 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on MAY 30 19 84

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Philip Koeppel Registered Well Driller

A-58

Business Name and Complete Mailing Address: W6824 REDRIVER RD ANTIGO WIS

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

1582

1. COUNTY: LANGLADE
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: AINSWORTH

2. LOCATION: ¼ Section or Gov't. Lot: SE | Section: 12 | Township: 34N | Range: 12E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: DON KELLER
ADDRESS: 1618 N. HALL
POST OFFICE: APPLETON WIS ZIP CODE: 54911

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
			NEW SITE							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit / Seepage Pit / Seepage Bed / Seepage Trench	Manure Hopper or Retention or Pneumatic Tank

Privy	Pet Waste Pit	Pit: Nonconforming Existing / Well / Pump / Tank	Subsurface Pumproom / Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	10			
6	10	74½			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	NEWBLK STEEL	Surface	70
	19.45 #/FT. .280" A53		
	RECESSED COUP + THREADS		
	LIVINGSTON STEEL		
5	STAINLESS SCREEN	70	74½

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	10

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SANDY CLAY	Surface	10
SAND + GRAVEL	10	30
MUDDY GRAVEL	30	70
SANDY GRAVEL	70	74½

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with: ☐ Air ☐ Water

Well construction completed on AUG 26 1982

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 4½ GPM
Depth from surface to normal water level 30 Ft.
Depth of water level when pumping 65 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to SCHULZ CREAMERY LAB 230 laboratory on AUG 27 1982

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Philip Koeppel Registered Well Driller
Business Name and Complete Mailing Address: BOX 1 PIXLOX WIS.

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

SEP 10 1982

1. COUNTY: JEFFERSON | CHECK (✓) ONE: ☑ Town ☐ Village ☐ City | Name: AINSWORTH

2. LOCATION: ¼ Section or Gov't. Lot: SE | Section: 12 | Township: 3N | Range: 12E

OR – Grid or Street No. | Street or Road Name

AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: CLEM SCHNEIDER

ADDRESS: 134 EASTMAN

POST OFFICE: PLYMOUTH | ZIP CODE: WIS 53073

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
NEW	SITE									

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well	Nonconforming Existing								
		Pump									
		Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin	Other (Describe)
					Concrete Floor Only	
					Concrete Floor and Partial Concrete Walls	

5. Well is intended to supply water for: MOBILE HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	20			
5	20	52			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK STEEL	Surface	48
	15#/FT. .258" A 120		
	RECESSED COUPLING + THREADS		
	UNION STEEL		
5	STAINLESS SCREEN	48	52

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SANDY CLAY	Surface	40
MUDDY SAND & GRAVEL	40	48
SANDY GRAVEL	48	52

10. TYPE OF DRILLING MACHINE USED

☑ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☐ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with Air ☐ Water

Well construction completed on AUG 19 1982

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 6 GPM

Depth from surface to normal water level 17 Ft.

Depth of water level when pumping 43 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 16 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on AUG 19 1982

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Philip Koeppel
Registered Well Driller

A–80 Business Name and Complete Mailing Address: BOB'S PUMP SVC.

Box 46

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Langlade {Town ☒ / Village ☐ / City ☐} Ainsworth — Check one and give name

2. Location Sec. 13 Range 12E Tawage T34 n
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ Ray G. Miller
Name of individual, partnership or firm

4. Mail Address Neenah Wis -
Complete address required

5. From well to nearest: Building 8 ft; sewer none ft; drain none ft; septic tank none ft; dry well or filter bed none ft; abandoned well none ft.

6. Well is intended to supply water for: cottage

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	0	22			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	Steel	0	22
6"	Liner Pipe for grouting	for out	

9. GROUT:

Kind	From (ft.)	To (ft.)
slurry clay	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Top soil	0	4
Hard Pan	0	15
water sand	0	3
RECEIVED		
SEP 13		
ENVIRONMENTAL SANITATION		

Construction of the well was completed on: Aug 19 19 59

The well is terminated 14 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No

Was the well sealed watertight upon completion? Yes X No

11. MISCELLANEOUS DATA:

Yield test: 5 Hrs. at 10 GPM.

Depth from surface to water-level: 6 ft.

Water-level when pumping: 16 ft.

Water sample was sent to the state laboratory at: self sending in
City on 19

) over

Signature Edgar M. Kriegel
Registered Well Driller

Antigo Wis
Complete Mail Address

Please do not write in space below

Rec'd No

Ans'd Mr. Miller is driving a well point be on this drilling hole for it was soft water sand he stop the drilling

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

A-61

Examiner

WELL CONSTRUCTOR'S REPORT

Wel–6

OCT 11 1971

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Langlade

CHECK ONE: ☒ Town ☐ Village ☐ City

NAME: Ainsworth

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
Part of gov't. lot 2, Sec. 13, T34N, R12E

3. OWNER AT TIME OF DRILLING
Bud Young

4. OWNER'S COMPLETE MAIL ADDRESS
Pearson, Wisconsin 54462

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
6								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		none	----------	none	----------				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
none

6. Well is intended to supply water for:
home

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	Surface	31			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	New black steel, T&C 11 lb. per ft.	Surface	31

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	31

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 4 GPM

Depth from surface to normal water level 1 ft.

Depth to water level when pumping 26 ft.

Water sample sent to St. Marys hospital laboratory on: Oct. 4 1971

Well construction completed on Oct. 4 1971

Well is terminated 18 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Merritt Schaefer, Registered Well Driller

COMPLETE MAIL ADDRESS: Route 1, Rhinelander, Wisconsin 54501

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS
		A-62		

Wel 6 Box 46

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Sanglade, Town ☒ Village ☐ City ☐ Ainsworth (Check one and give name)
2. Location Sec. 13 Range 12 E 34 - N - (Name of street and number of premise or Section, Town and Range numbers)
3. Owner ☒ or Agent ☐ George Hoenrisch (Name of individual, partnership or firm)
4. Mail Address Shiocton Wis. R 1 (Complete address required)
5. From well to nearest: Building 2 ft; sewer none ft; drain none ft; septic tank none ft; dry well or filter bed none ft; abandoned well none ft.
6. Well is intended to supply water for: cottage

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	0	40			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	Steel	0	40
6	Liner Pipe	for	
	Grouting out		

9. GROUT:

Kind	From (ft.)	To (ft.)
[redacted] Slurry	0	15
clay	0	

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Top soil	0	2
Sandy & slurry clay	0	20
Hard Pan	0	10
water sand	0	4

RECEIVED
SEP 18 1959
ENVIRONMENTAL
STATION

11. MISCELLANEOUS DATA:

Yield test: 4 Hrs. at 15 GPM.

Depth from surface to water-level: 20 ft.

Water-level when pumping: _____ ft.

Water sample was sent to the state laboratory at: Madison (City) on Sept 19__

Construction of the well was completed on: Sept 4 19 59

The well is terminated 15 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No_____

Was the well sealed watertight upon completion? Yes X No_____

Signature Edw. M. Kriegel (Registered Well Driller) Antigo Wis. R 1 (Complete Mail Address)

Please do not write in space below

Rec'd _____ No_____

Ans'd _____

Interpretation _____

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

A-63

Examined

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County LANGLADE { Town ☑ / Village ☐ / City ☐ } AINSWORTH (Check one and give name)

2. Location GOV. LOT #1 SEC. 13 T. 34 N. R. 12 E.
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☑ or Agent ☐ EINER LARSON
Name of individual, partnership or firm

4. Mail Address LINCOLN ST. PALETINE, ILL.
Complete address required

5. From well to nearest: Building_____ft; sewer_____ft; drain_____ft; septic tank_____ft;_____
dry well or filter bed_____ft; abandoned well_____ft. NEW SITE FOR COTTAGE

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	0	33			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	STEEL	0	33

9. GROUT:

Kind	From (ft.)	To (ft.)

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
SAND	0	31
GRAVEL	31	33

RECEIVED
MAY 29 1961
SANITARY ENGINEERING

11. MISCELLANEOUS DATA:

Yield test: 2 Hrs. at 10 GPM.

Depth from surface to water-level: 3 ft.

Water-level when pumping: 12 ft.

Water sample was sent to the state laboratory at: MADISON City on May 2 1961

Construction of the well was completed on: MAY 17 1961

The well is terminated 12 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No_____

Was the well sealed watertight upon completion? Yes ✓ No_____

Signature Oscar Koeppel Box 11 Phlox, Wis.
Registered Well Driller Complete Mail Address

Please do not write in space below

Rec'd MAY 23 1961 No. 16512

Ans'd _____

Interpretation _____

SAFE—BACTERIOLOGICALLY

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner_____

WELL CONSTRUCTOR'S REPORT — WISCONSIN STATE BOARD OF HEALTH — Wel 6

1. COUNTY: LANGLADE — CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: AINSWORTH — RECEIVED JUL 11 1966

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
[redacted] NW¼ SE¼ SEC. 13 T. 34 N. R. 12 E.

3. OWNER AT TIME OF DRILLING: GILBERT ROSSOW

4. OWNER'S COMPLETE MAIL ADDRESS: 1922 A.W. LLOYD MILW. WIS. 53205

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
20								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		40		60					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20			
6	20	35			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	STEEL	Surface	35

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	20

10. FORMATIONS

Kind	From (ft.)	To (ft.)
CLAY	Surface	28
GRAVEL	28	35

Well construction completed on JULY 5 1966

Well is terminated 12 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 3 GPM

Depth from surface to normal water level 4 ft.

Depth to water level when pumping 25 ft.

Water sample sent to MADISON laboratory on: JULY 6 1966

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel, Registered Well Driller — COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

JUN 25 1975

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: LANGLADE — CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: AINSWORTH

2. LOCATION – ¼ Section: NW1/4 SE1/4 | Section: 13 | Township: 24N | Range: 12E.
OR – Grid or street no. | Street name: 134N

AND – If available subdivision name, lot & block no.: LOT #3 ROLLING STONE EST.

3. OWNER AT TIME OF DRILLING: WALTER THYSSEN
ADDRESS: 1009 E. ROELAND AVE.
POST OFFICE: APPLETON, WIS. 54911

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
6	40						40	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		50			75				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: MOBILE HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	47			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	45
	15#/FT. .258" COUPLED		
5	SCREEN	45	47

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	47

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on JUNE 18 1975

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 7 GPM
Depth from surface to normal water level: 26 ft.
Depth to water level when pumping: 40 ft.

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: JUNE 19 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis. 54464

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
		A-66		

REV. 3-71

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

JUN 30 1977

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

1. COUNTY LANGLADE | CHECK (✓) ONE: ☑ Town ☐ Village ☐ City | Name AINSWORTH

2. LOCATION | ¼ Section NE1/4 | Section 13 | Township 34N. | Range 12E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
JIM MILLER

ADDRESS
310 HARRISON ST.

POST OFFICE
NEENAH, WIS. 54956

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
6'										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit
				Clearwater Dr.		Clearwater Sump							Seepage Bed
													Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
60		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	45			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK. STEEL Surface		45
	15#/FT. .258" RECESS. COUPL.		
	A-53 U.S.P.		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	45

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on JUNE 20 19 77

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 12 GPM
Depth from surface to normal water level 4 Ft.
Depth of water level when pumping 40 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on JUNE 21 19 77

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Oscar Koeppel Registered Well Driller

Complete Mail Address: Box 11 Phlox, Wis.,

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 5-85

MAY 28 1987

1. COUNTY: LANGLADE
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: AINSWORTH

2. LOCATION: ¼ Section or Gov't. Lot: NE | Section: 13 | Township: 34N | Range: 12E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: WILLIAM O'BRIEN
ADDRESS: 3542 N SPRUCE
POST OFFICE: APPLETON | ZIP CODE: WIS 54914

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
	NEW	SITE								

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
													☐ Seepage Pit ☐ Seepage Bed ☐ Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		☐ Well ☐ Pump ☐ Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin Concrete Floor Only Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	6			
5	6	68			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK STEEL	Surface	68
	15#/FT. .258" A120		
	RECESSED COUP + THREAD		
	V.S.P. 1200 PSI		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	6

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND + GRAVEL	Surface	3
MUDDY SAND + GRAVEL	3	67
GRAVEL	67	68

10. TYPE OF DRILLING MACHINE USED
☒ Cable Tool ☐ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air ☐ Air
☐ Rotary w/drilling mud ☐ Reverse Rotary ☐ Water

Well construction completed on MAY 12 1987

11. MISCELLANEOUS DATA
Yield Test: 1½ Hrs. at 4 GPM
Depth from surface to normal water level 3 Ft.
Depth of water level when pumping 63 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 10 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to MADISON laboratory on MAY 13 1987

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Philip Koeppel Registered Well Driller

Business Name and Complete Mailing Address
W6824 RED RIVER RD
ANTIGO WIS 54409

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

DEC 5 1985

1. COUNTY: LANGLADE
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: AINSWORTH

2. LOCATION: ¼ Section or Gov't. Lot: NE | Section: 13 | Township: 34N | Range: 12E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: ORLIE BUTLER
ADDRESS: 1345 MANITOWOC RD
POST OFFICE: MENASHA | ZIP CODE: WIS 54952

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
13			NONE							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pneumatic Tank
													Seepage Pit Seepage Bed Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
60		Well Pump Tank	Nonconforming Existing								

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin Concrete Floor Only Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	6			
5	6	58			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK STEEL	Surface	54
	15# FT. .258" A120		
	RECESSED COUP + THREAD		
	J + L STEEL		
4	STAINLESS SCREEN	54	58

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	6

9. FORMATIONS

Kind	From (ft.)	To (ft.)
GRAVEL + CLAY	Surface	6
MUDDY SAND + GRAVEL	6	54
SAND + GRAVEL	54	58

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on NOV 7 1985

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 7 GPM
Depth from surface to normal water level 2 Ft.
Depth of water level when pumping 49 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 10 inches ☑ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to KRAFT #209 laboratory on NOV 8 1985

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Philip Koeppel Registered Well Driller
A-69
Business Name and Complete Mailing Address: W6824 RED RIVER RD ANTIGO WIS

STATE OF WISCONSIN

WELL CONSTRUCTOR'S REPORT — **DEPARTMENT OF RESOURCE DEVELOPMENT** — Wel 6

1. COUNTY: LANGLADE — CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: AINSWORTH

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SW 1/4 NE 1/4 SEC. 13 T. 34 N. R. 12 E.

3. OWNER AT TIME OF DRILLING
GILBERT BREMMER

4. OWNER'S COMPLETE MAIL ADDRESS
1513 W. WALKER MILWAUKEE, WIS.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
10								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
			50						

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: TRAILER HOUSE

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	58			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK 15#/FT	Surface	58
	STEEL COUPLED		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
GRAVEL	Surface	30
CLAY	30	55
GRAVEL (ROTTEN GRANITE)	55	58
Rec'd:		
Jul 3, 1967		

11. MISCELLANEOUS DATA
Yield test: 4 Hrs. at 2 GPM

Depth from surface to normal water level: 10 ft.

Depth to water level when pumping: 48 ft.

Water sample sent to MADISON laboratory on: JUNE 29 1967

Well construction completed on JUNE 28 1967

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

NOV 1 0 1972

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: LANGLADE
CHECK ONE: ☑ Town ☐ Village ☐ City
NAME: AINSWORTH

2. LOCATION – ¼ Section: NW 1/4 NE 1/4 | Section: 13 | Township: 34N | Range: 12E
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: ADOLPH SONNLEITNER
ADDRESS: 1713 S. HOWE ST.
POST OFFICE: APPLETON, WIS. 54911

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
4								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
			60						

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	51			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	49
	15#/FT. .258" COUPLED		
5	SCREEN	49	51

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	51

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on: NOV 6 19 72

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 2 GPM
Depth from surface to normal water level: 1 ft.
Depth to water level when pumping: 44 ft.

Well is terminated 1 2 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: NOV. 7 19 72

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER DU 684

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

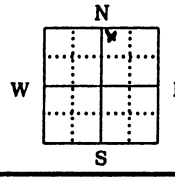
AUG 12 1991

Property Owner: ARDEN BONNELL | Telephone Number: (715) 258 5491
Mailing Address: E. 1818 KING RD
City: WAUPACA | State: WIS | Zip Code: 54981
County of Well Location: LANGLADE | County Well Location Permit No.: W | Well Completion Date: 5/15/91 (M M D D Y Y)

34

Well Constructor (Business Name): PHILIP KOEPPEL | Registration #: 667
Address: W6824 REDRIVER RD
City: ANTIGO | State: WIS | Zip Code: 54409

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of N. AINSWORTH
Fire # (if available)
Grid or Street Address or Road Name and Number (if available)
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or NW ¼ of NE ¼ of Section 13; T 34 N; R 12 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # _____ constructed in 19 ____.
Reason for new, replaced or reconstructed well? SHALLOW POINT AT COTTAGE

4. Well serves 1 # of homes and/or _____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other _____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

____ 1. Landfill	____ 11. Foundation Drain to Clearwater	____ 17. Wastewater Sump
25 2. Building Overhang	____ 12. Foundation Drain to Sewer	____ 18. Paved Animal Barn Pen
90 3. Septic or Holding Tank	____ 13. Building Drain	____ 19. Animal Yard or Shelter
____ 4. Sewage Absorption Unit	☐ Cast Iron or Plastic ☐ Other	____ 20. Silo — Type _____
____ 5. Nonconforming Pit	75 14. Building Sewer ☒ Gravity ☐ Pressure	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	☒ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	☐ Cast Iron or Plastic ☐ Other
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	____ 23. Other Manure Storage _____
80 9. Downspout/Yard Hydrant		Other NR 112 Waste Source
80 10. Privy		____ 24. _____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
5	surface	59

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit _____ in. dia.
☐ 6. Temp. Outer Casing _____ in. dia.
Removed? ☐ Yes ☐ No
If no, explain _____
☐ 7. Other _____

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
-4-	SAND + GRAVEL	surface	20
-M-	MUDDY SAND + GRAVEL	20	58
-G-	GRAVEL	58	59

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	BLACK STEEL	surface	59
	15#/FT. .258" A53B		
	RECESSED COUP + THREAD		
	VSP. 1950 PSI.		
Dia. (in.)	screen type and material	From	To

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

10. Static Water Level
1 ft. above ground level
—, — ft. below ground surface

11. Pump Test
Pumping Level 54 ft. below surface
Pumping at 2 GPM for 10 hours

12. Well Is:
24 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☒ No If no, explain STILL IN USE

14. Signature of Point Driver or Registered Driller: Philip Koeppel PK | Date Signed: 7-25-91
Signature of Drill Rig Operator: SAME PK | Date Signed

Make additional comments on reverse side about geology, etc.

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER CO 636

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

JUL 6 1990

Property Owner: JIM MILLER | Telephone Number: (414) 722-7893
Mailing Address: STAR RT
City: PICKEREL | State: WIS | Zip Code: 54465
County of Well Location: 34 LANGLADE | County Well Location Permit No.: W | Well Completion Date: 6/12/90 (M M D D Y Y)

Well Constructor (Business Name): PHILIP KOEPPEL | Registration #: 667
Address: W6824 REDRIVER RD
City: ANTIGO | State: WIS | Zip Code: 54409

1. Location (Please type or print using a black pen.)
☑ Town ☐ City ☐ Village of AINSWORTH | Fire # (if available)
Grid or Street Address or Road Name and Number (if available)
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or NW ¼ of NE ¼ of Section 13 ; T 34 N; R 12 ☑ E ☐ W

2. Mark well location in correct 40-acre parcel of section.
N / W / E / S

3. Well Type ☑ New ☐ Replacement ☐ Reconstruction
of unique well # ____ constructed in 19 ____.
Reason for new, replaced or reconstructed well? NEW HOME

4. Well serves 1 # of homes and/or ____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☑ No
High Capacity Property? ☐ Yes ☑ No

☑ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☑ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☑ No
Distance In Feet From Well To Nearest:
____ 1. Landfill
N/O 2. Building Overhang
____ 3. Septic or Holding Tank
N/E 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
____ 16. Clearwater Sump
____ 17. Wastewater Sump
____ 18. Paved Animal Barn Pen
____ 19. Animal Yard or Shelter
____ 20. Silo — Type ____
____ 21. Barn Gutter
____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 23. Other Manure Storage ____
Other NR 112 Waste Source
____ 24. none

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
5	surface	45

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	BLACK STEEL	surface	45
	15#/FT. .258" A120		
	RECESSED COUP + THREAD		
	V.S.P. 1200 P.S.I.		
Dia. (in.)	screen type and material	From	To

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
Y	SAND + GRAVEL	surface	45

10. Static Water Level
____ ft. above ground level
8 ft. below ground surface

11. Pump Test
Pumping Level 40 ft. below surface
Pumping at 5 GPM for 2 hours

12. Well Is:
12 in. ☑ Above ☐ Below Grade
Developed? ☑ Yes ☐ No
Disinfected? ☑ Yes ☐ No
Capped? ☑ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☐ No If no, explain NONE

14. Signature of Point Driver or Registered Driller Philip Koeppel PK | Date Signed 6-12-90
Signature of Drill Rig Operator | Date Signed

Make additional comments on reverse side about geology, etc.

DNR WGNHS ORIGINAL

WELL CONSTRUCTOR'S REPORT

Wel–6

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: LANGLADE | CHECK ONE: ☑ Town ☐ Village ☐ City | NAME: AINSWORTH

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
NW 1/4 NE 1/4 SEC. 13 T. 34 N. R. 12 E.

3. OWNER AT TIME OF DRILLING
ARTHUR BOECK

4. OWNER'S COMPLETE MAIL ADDRESS
5665 N. 39 MILWAUKEE, WIS

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
15								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
			75						

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for:

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	10			
5	10	67			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	67
	14.81 #/FT. .258" COUPLED		

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	10

10. FORMATIONS

Kind	From (ft.)	To (ft.)
CLAY	Surface	10
SAND & GRAVEL	10	67

RECEIVED
SEP 22 1969
Dept. Nat. Res.

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 5 GPM

Depth from surface to normal water level 2 ft.

Depth to water level when pumping 55 ft.

Well construction completed on SEPT. 17 1969

Well is terminated 10 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: SEPT. 18 1969

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Ohlos, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

FEB 18 1976

LA-859-U

Jan 29 1976

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Langlade

CHECK ONE: [X] Town [ ] Village [ ] City

NAME: Ainsworth

2. LOCATION – ¼ Section: NW-NE | Section: 13 | Township: 34N | Range: 12E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: Anton Schriendl

ADDRESS: Pearson, Wisc.

POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
6'	30'							

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		55'			70'				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	163			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	New Black Steel 19.45# T.&C. A53 US Steel	Surface	43

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
None	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Clay	Surface	43
Black Quaritzite Granite	43	163
Water Enters	95'	

10. TYPE OF DRILLING MACHINE USED

[ ] Cable Tool [ ] Direct Rotary [ ] Reverse Rotary
[ ] Rotary – air w/drilling mud [X] Rotary – hammer with drilling mud & air [ ] Jetting with [ ] Air [ ] Water

Well construction completed on: 3/14/ 1975

11. MISCELLANEOUS DATA

Yield test: 24 Hrs. at 1½ GPM

Depth from surface to normal water level: 6 ft.

Depth to water level when pumping: 150 ft.

Well is terminated 8 inches [X] above [ ] below final grade

Well disinfected upon completion [X] Yes [ ] No

Well sealed watertight upon completion [X] Yes [ ] No

Water sample sent to: St. Marys Hospital laboratory on: 1/17/76 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE

Bradley Webster Registered Well Driller

COMPLETE MAIL ADDRESS
RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
		A-75		

REV 3-71

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County LANGLADE — Town ☒ / Village ☐ / City ☐ AINSWORTH (Check one and give name)

2. Location NW 1/4 NE 1/4 SEC. 13 T 34 N R 12 E
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☑ or Agent ☐ PETER SCHINKER
Name of individual, partnership or firm

4. Mail Address PEARSON, WIS.
Complete address required

5. From well to nearest: Building 12 ft; sewer ____ ft; drain ____ ft; septic tank ____ ft; dry well or filter bed ____ ft; abandoned well ____ ft. 50' PRIVY

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	0	34			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	STD. STEEL	0	34

9. GROUT:

Kind	From (ft.)	To (ft.)

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
SAND & GRAVEL MIX	0	27
CLAY	27	32
GRAVEL	32	34

RECEIVED
JUN 1 1962
SANITARY ENGINEERING

Construction of the well was completed on: MAY 25 19 62

The well is terminated 12 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 2 Hrs. at 5 GPM.

Depth from surface to water-level: 2 ft.

Water-level when pumping: 15 ft.

Water sample was sent to the state laboratory at: MADISON City on MAY 28 1962

Signature Oscar Kemper Box 11 Pelican, Wis.
Registered Well Driller — Complete Mail Address

Please do not write in space below

Rec'd ____ No 16741

Ans'd ____

Interpretation SAFE—BACTERIOLOGICALLY

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner ____

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

RECEIVED JUN 30 1964

SANITARY ENGINEERING

1. County LANGLADE — Town ☑ AINSWORTH / Village ☐ / City ☐ — Check one and give name

2. Location NW1/4 NE1/4 SEC. 13 T. 34 N. R. 12 E
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☑ or Agent ☐ ELMER KELLER
Name of individual, partnership or firm

4. Mail Address 113 N. MAIN BRILLION, WIS.
Complete address required

5. From well to nearest: Building_____ft; sewer_____ft; drain_____ft; septic tank_____ft;_____ dry well or filter bed_____ft; abandoned well_____ft. NEW SITE

6. Well is intended to supply water for: COTTAGE

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	0	39			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	STEEL	0	39

9. GROUT:

Kind	From (ft.)	To (ft.)

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
SAND	0	35
GRAVEL	35	39

Construction of the well was completed on: JUNE 23 19 64

The well is terminated 8 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No_____

Was the well sealed watertight upon completion? Yes ✓ No_____

11. MISCELLANEOUS DATA:

Yield test: 2 Hrs. at 8 GPM.

Depth from surface to water-level: 5 ft.

Water-level when pumping: 25 ft.

Water sample was sent to the state laboratory at: MADISON City on JUNE 24 1964

Signature Oscar Kaeppel Registered Well Driller

Box 11 Phlox, Wis. Complete Mail Address

Please do not write in space below

Rec'd JUN 25 1964 No. 26452

Ans'd _____

Interpretation SAFE—BACTERIOLOGICALLY

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli		0	0	0	0	0				

Examiner_____

Appendix B

Coordinates and Elevations for Selected Domestic Water Supply Wells

Approximate Coordinate and Elevation Data for Domestic Water Wells in Inventory Area as Listed in Table 3-2[1] of the December 1998 Updated HCWPA

Well Number	Northing	Easting	Elevation
32	106,600	2,289,011	1605
33	106,781	2,289,435	1606
57	111,921	2,266,727	1577
68	115,788	2,273,162	1635
84	118,071	2,265,879	1560
87	116,756	2,266,551	1555
87A	116,762	2,266,862	1561
89	117,016	2,267,574	1564
89A	117,109	2,267,785	1564
90	117,208	2,268,507	1560
91	117,023	2,268,606	1560
92	116,173	2,265,956	1555
93	116,522	2,265,944	1555
102	111,743	2,275,534	1597
105	112,929	2,275,743	1606
105A	112,649	2,275,637	1614
106	113,218	2,275,871	1608
107	113,420	2,275,982	1603
108	113,729	2,276,218	1597
114	114,128	2,276,491	1600
115	114,300	2,276,694	1602
116	114,412	2,276,866	1604
118	114,533	2,277,028	1615
119	114,655	2,277,169	1607
120	114,785	2,277,371	1607
121	114,800	2,277,371	1610
143	112,919	2,278,383	1609
144	112,620	2,278,123	1600

Well Number	Northing	Easting	Elevation
145	112,416	2,278,312	1603
162	110,551	2,278,232	1597
166	109,940	2,276,778	1605
167	110,158	2,278,087	1599
168	110,976	2,275,741	1593

[1] Data developed using plat maps, USGS quadrangles, and CMC site maps. Coordinates may only be accurate to within hundreds of feet, while elevations may only be accurate to within tens of feet.

Prepared by: GAM
Checked by: JWS

Appendix C

Sokaogaon Chippewa Community Well Information

- Letter Dated October 16, 1996 to Sokaogon Chippewa Community Requesting Well Information
- Well Constructor's Reports for the Sokaogon Chippewa Community

Letter Dated October 16, 1996 to Sokaogon Chippewa Community Requesting Well Information

Crandon Mining Company

7 N. BROWN ST., 3RD FLOOR
RHINELANDER, WI 54501-3161

Rodney A. Harrill
PRESIDENT

October 16, 1996

Mr. Arlyn Ackley, Chairman
Sokaogon Chippewa Community
Mole Lake Band
Route 1 Box 625
Crandon, WI 54520-0625

Dear Mr. Ackley:

Re: Crandon Project - Private Water Well Survey

As part of Crandon Project environmental studies, Crandon Mining Company (CMC) is completing an inventory requested by the Wisconsin Department of Natural Resources (WDNR) of private and community wells in the area surrounding its proposed Crandon Project site. In order to complete the inventory, CMC is requesting that the Sokaogon Chippewa Community provide information regarding both community and private wells within the Mole Lake Indian Reservation.

It would be helpful if the Sokaogon Chippewa Community could identify all wells within the reservation. We have enclosed a questionnaire for your use in gathering and providing this information. In completing the questionnaire, we realize that some of the information may not be known to you. When this is the case, put a question mark (?) in the blank. If the answer is an estimate, write "E" after the answer. We ask that you please return the completed questionnaire to CMC using the enclosed, self-addressed, stamped envelope over the next several weeks.

Thank you for your time and cooperation. Your assistance is appreciated. If you have any questions regarding the questionnaire or desire assistance in gathering the requested information, please contact me at (715) 365-1450 or contact Mr. Bill Tans of WDNR at (608) 266-3524.

Sincerely,

Rodney A. Harrill

Rodney Harrill
President
Crandon Mining Company

Enclosure

cc: Mr. Bill Tans, Wisconsin Department of Natural Resources
Mr. Dan Cozza, U.S. Environmental Protection Agency
Mr. David Ballman, U.S. Army Corps of Engineers
Mr. Jerry Sevick, Foth & Van Dyke

MLD2\93C049\GBAPP\38865\4000

TEL.: (715) 365-1450

ENVIRONMENTALLY RESPONSIBLE

FAX: (715) 365-1457

Crandon Mining Company
Private Water Well Questionnaire

1. *If different:*

Name _____

Address _____

_____

Telephone (___) _____

Water Well Location (Address, Fire Lane #, etc.): _____

_____

_____

2. Did you have the well installed? Yes ☐ No ☐

If yes, skip Question 3.

3. If you purchased the property with the well installed, please identify the previous owner, if known:

Name _____

Address _____

_____

Phone No. _____

4. Primary Water Use: Private ☐ Public ☐ Irrigation ☐ Monitoring ☐

Other _____

5. Year well was installed: _____

6. How was well installed: Drilled ☐ Driven ☐ Jetted ☐ Other ☐

6a. Complete the following section for drilled wells only:

Well Depth: _____ feet

Drill Hole Diameter: _____ inches

Screen Length: _____ feet

Depth of Water from Ground Surface: _____ feet

Depth of Water from Ground Surface When Pumping: _____ feet

6b. *Complete the following section for driven, jetted or other wells only:*

Well Depth: _____ feet

Casing Material: Galvanized ☐ Black Iron ☐ Other _____

Casing Diameter: _____ inches

Screen Length: _____ feet

7. Pump Type: Submersible ☐ Piston ☐ Shallow Well ☐

Deep Well Jet ☐ Hand Pump ☐

8. What is your opinion of the water provided by this well (*taste, odor, iron staining, sufficient quantity, etc.*) _____

_____

_____

_____

_____

9. Describe any repairs you have done to the well or pump since installation: _____

_____

_____

_____

_____

10. **This questionnaire was completed by:** _____ **Date** _____

Well Constructor's Reports for the Sokaogon Chippewa Community

FR-172-U

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

AUG 19 1974

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST
CHECK ONE: ☑ Town ☐ Village ☐ City
NAME: NASHVILLE

2. LOCATION – ¼ Section: SW¼ | Section: SW¼ | Section: 23 | Township: 35N | Range: 12E
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: ROBERT TORGERSON
ADDRESS: BOX 22
POST OFFICE: CRANDON, WIS.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
4	26						26	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		45			60				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	44			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	42
	15#/FT., .258" COUPLED		
5	SCREEN	42	44

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND + GRAVEL	Surface	28
HARD PAN	28	40
SAND + GRAVEL	40	44

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on AUG 13 1974

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 15 GPM
Depth from surface to normal water level: 24 ft.
Depth to water level when pumping: 35 ft.

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: AUG 14 1974

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Philip Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: BOX 1 PHLOX WIS.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3-71

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-80

JAN 28 1980

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: SW NW; Section: 26; Township: 35N; Range: 12E
OR – Grid or Street No.: ; Street Name:
AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Ms. Mary Polar
ADDRESS: Mole Lake, Wisc.54520
POST OFFICE:

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
30										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		C.I.	Other		95		Seepage Pit	
				Clearwater Dr.		Clearwater Sump					Seepage Bed	100
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well	Nonconforming Existing							
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	33	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	30
6	15-slot Stainless Well Screen	30	33

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neay Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Clay	Surface	30
Sand	30	33

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☒ Rotary-hammer & air ☐ Air
☐ Rotary-w/drilling mud ☐ Reverse Rotary ☐ Water

11. MISCELLANEOUS DATA
Yield Test: 1½ Hrs. at 10 GPM
Depth from surface to normal water level 14 Ft.
Depth of water level when pumping 18 Ft. Stabilized ☒ Yes ☐ No

Well construction completed on 6/26/79 19
Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 6/26/79 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature]
Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTY DRIVE
RHINELANDER, WISCONSIN 54501

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

FEB 2 4 1976

MAY 7 1976

FR-199-U

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FORREST
CHECK ONE: ☐ Town ☑ Village ☐ City
NAME: MOLE LAKE

2. LOCATION – ¼ Section: SW ¼ | Section: 27 | Township: 35N | Range: 12E
OR – Grid or street no. | Street name:
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: MOLE LAKE CHAPLE
ADDRESS:
POST OFFICE: CRANDON, WIS.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
8	NONE				NONE			

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		NONE							

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: CHURCH

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	42			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	NEW BLACK STEEL	Surface	
	PE 18.97#		39
6	STAINLESS STEEL		
	SCREEN	39	42
ASTM A53 YOUNGSTOWN			

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
NONE	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	42

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on: NOV. 13, 1973

11. MISCELLANEOUS DATA
Yield test: 3 Hrs. at 15 GPM
Depth from surface to normal water level: 18 ft.
Depth to water level when pumping: 32 ft.

Well is terminated 12 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to: Madison laboratory on: Nov. 13, 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Robert D. Behm Registered Well Driller
COMPLETE MAIL ADDRESS: Rt. 3 Rhinelander, Wis. 54501

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

First Water Quality Test For
WISCONSIN UNIQUE WELL NUMBER FN 354

State of Wisconsin
Private Water Supply - WS/2
Department of Natural Resources
Box 7921
Madison, WI 53707

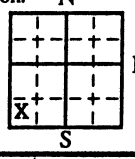
FEB 10 1993

(Please type or print using a black pen.)

Property Owner: Jimmy Landru
Telephone Number: (715) 478-2375
Mailing Address: RFD #1
City: Crandon
State: WI
Zip Code: 54520
County of Well Location: Forest
Co. Well Permit No. W
Well Completion Date (mm-dd-yy): 11 - 10 - 92

21 Well Constructor (Business Name): Rhinelander Well Driling
License #: 632
Address: P.O. Box 584
City: Rhinelander
State: WI
Zip Code: 54501

2. Mark well location with a dot in correct 40-acre parcel of section.



1. Well Location — Please use decimals instead of fractions.
[X] Town [ ] City [ ] Village of Nashville
Fire # (If avail.)
Grid or Street Address or Road Name and Number (If avail.): County Highwya M
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or SW 1/4 of SW 1/4 of
Section 27, T 35 N; R 12 [X] E [ ] W

3. Well Type [X] New [ ] Replacement [ ] Reconstruction
of previous unique well # ____ constructed in 19 ____
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and or ____
(Ex: barn, restaurant, church, school, industry, etc.)

High Capacity:
Well? [ ] Yes [X] No
Property? [ ] Yes [X] No

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other ____

5. Well located on highest point of property, consistent with the general layout and surroundings? [X] Yes [ ] No If no, explain on back side.

Well located in floodplain? [ ] Yes [X] No
Distance in Feet From Well To Nearest:

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
15 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
55 3. Septic or Holding Tank (circle one)	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
70 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo - Type ____
____ 5. Nonconforming Pit	____ 13. Building Drain [ ] Cast Iron or Plastic [ ] Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other	____ 22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage ____
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	Other NR 112 Waste Source
		____ 24. ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	40

Method of constructing upper enlarged drillhole only.
[ ] 1. Rotary - Mud Circulation
[ ] 2. Rotary - Air
[ ] 3. Rotary - Foam
[ ] 4. Reverse Rotary
[ ] 5. Cable-tool Bit ____ in. dia.
[ ] 6. Temp. Outer Casing ____ in. dia.
Removed? [ ] Yes [ ] No
If no, explain ____
[ ] 7. Other ____

7. Casing, Liner, Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
6	A-53 Grade B	surface	34
	Plain End Welded		
	18.97 #/Ft.		
	Sawhill Pipe Mfg.		
Dia. (in.)	screen type, material & slot size 2) 7	From	To
6	6 Ft. Stainless Steel slots	34	40

8. Grout or Other Sealing Material

Method ____ Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
QY	Caving Sand & Gravel	Surface	20
-Y-	Sand & Gravel	20	40

10. Static Water Level
____ ft. above ground surface
12 ft. below ground surface

11. Pump Test
Pumping Level 28 ft. below surface
Pumping at 20 GPM for 2 hours

12. Well Is:
12 in. [X] Above [ ] Below Grade
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
[ ] Yes [X] No If no, explain n/a

14. Signature of Point Driver or Licensed Supervisory Driller — Date Signed
Robert Lunke DF 11/10/92
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.
Comments on reverse side ____ (Check √, if yes)

DNR

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 1-92

WGNHS ORIGINAL

MAY 19 1980

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-76

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Nashville

2. LOCATION: ¼ Section: SW SW | Section: 27 | Township: 35N | Range: 12E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Lot-1 Mole Lake Tribal Council

ADDRESS: Mole Lake, Wisc. 54520

POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
15										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other	None Yet			Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	None Yet
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10½	Surface	25	6	25	40

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	37
6	12-slot Stainless Well Screen	37	40

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & Gravel Caving	Surface	40

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 4/21/80 19___

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 12 GPM

Depth from surface to normal water level 16 Ft.

Depth of water level when pumping 28 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 4/21/80 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Welsby Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

1. COUNTY Forest | CHECK (✓) ONE: ☒ Town ☐ Village ☐ City | Name Nashville

2. LOCATION | ¼ Section SW SW | Section 27 | Township 35N | Range 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mole Lake Tribal Council Lot # 7
ADDRESS Mole Lake, Wisc. 54520
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
FIRST CONSTRUCTION ON LOT										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
San.	Storm	C.I.	Other	Sewer		C.I.	Other				Seepage Pit
				Clearwater Dr.		Sewage Sump					Seepage Bed
						Clearwater Sump					Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	41

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	38
6	20-slot Stainless Steel Well Screen	38	41

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand	Surface	41

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on 11/30/79 19___

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 15 GPM

Depth from surface to normal water level 22 Ft.

Depth of water level when pumping 25 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 11/30/79 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Richard Webster Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

FR-122-U

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

OCT 29 1975

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Forest

CHECK ONE: ☒ Town ☐ Village ☐ City

NAME: Nashville

2. LOCATION – ¼ Section: NW ¼ SW ¼ | Section: 27 | Township: T35N | Range: R12E

OR Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: Learning Resource Bldg Mole Lake Tribe.

ADDRESS: Mole Lake

POST OFFICE: Wisc

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
67	-	-	-	-	-	-		

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
–		–	–	–	–	–	–	–	–

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Learning Resource Bldg

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	42			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6"	18.97 New Steel	Surface	39
	Welded Joints	39	42
3 Ft	No 12 slot		
	Johnson Stainless		
No 3 slot	Well Screen		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement.	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	42

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 9 - 9 19 75

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 10 GPM

Depth from surface to normal water level 25 ft.

Depth to water level when pumping 27 ft.

Well is terminated 24 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St. Mary's Hospital. Rhinelander laboratory on: Oct 17 19 75

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Geo Bugn Registered Well Driller

COMPLETE MAIL ADDRESS: Star Rt 3 Rhinelander.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

FR-125-U

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

OCT 29 1975

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Forest
CHECK ONE: ☒ Town ☐ Village ☐ City
NAME: Nashville.

2. LOCATION – ¼ Section: NW¼ SW¼ | Section: 27 | Township: T35N | Range: R12E
OR Grid or street no. | Street name:
AND – If available subdivision name, lot & block no.:

3. OWNER AT TIME OF DRILLING: Chester Fox Site 7
ADDRESS: Mole Lake Tribe.
POST OFFICE: Mole Lake Wisc.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
45	–	–	–	–	–	–	–	–

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
—	—	–	–	–	—	—	+	–	–

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Mobile Home.

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	42			

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & gravel	Surface	42

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6"	16.94 new steel	Surface	39
	Welded joints.		
3Ft	Johnson well	39	42
	Screen Stainless		
	No 3 slot.		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement	Surface	25

10. TYPE OF DRILLING MACHINE USED
☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

11. MISCELLANEOUS DATA
Yield test: 4 Hrs. at 1½ GPM
Depth from surface to normal water level: 25 ft.
Depth to water level when pumping: 39 ft.

Well construction completed on: 9-23 1975
Well is terminated 24 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary's Hospital Rhinelander laboratory on: Oct 20 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: [signature] Registered Well Driller
COMPLETE MAIL ADDRESS: Star Rt 2 Rhinelander Wisc

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

OCT 29 1975

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Forest

CHECK ONE: ☒ Town ☐ Village ☐ City

NAME: Nashville

2. LOCATION – ¼ Section: NW¼ SW¼ | Section: 27 | Township: T35N | Range: R12E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: Virgil Polar Site 1

ADDRESS: Mole Lake Tribe.

POST OFFICE: Mole Lake Wisc.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
55	–	–	–	–	–	–	–	–

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
—	—	—	—	—	—	–	–	–	–

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Mobile Home.

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	42			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6"	18.97 New Steel	Surface	39
	Welded Joints		
3 Ft	Stainless		
	Screen Johnson	39	42
	No 3 slot		

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & gravel	Surface	42

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement	Surface	25

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on: 9-22-1975

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 12 GPM

Depth from surface to normal water level: 25 ft.

Depth to water level when pumping: 32 ft.

Well is terminated 24 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary Hospital Rhinelander laboratory on: Oct 20 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Wm Beyer Registered Well Driller

COMPLETE MAIL ADDRESS: Star Rt 2 Rhinelander Wisc

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3-71

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

OCT 29 1975

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Forest
CHECK ONE: ☒ Town ☐ Village ☐ City
NAME: Nashville.

2. LOCATION – ¼ Section: NW ¼ SW ¼ | Section: 27 | Township: T35N | Range: R12E
OR Grid or street no. | Street name
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: Head Start Building Site 5
ADDRESS: Mole lake Tribe.
POST OFFICE: Mole lake Wisc.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
46	—	—	—	—	—	—	—	—

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
—	—	—	—	—	—	—	—	—	—

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Head Start Bldg

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	42			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6"	18.94 new Steel	Surface	39
	Welded Joints		
3Ft	Johnson Stainless		
	Screen.	39	42
	No 3 slot		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & gravel	Surface	42

10. TYPE OF DRILLING MACHINE USED
☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 9-21 1975

11. MISCELLANEOUS DATA
Yield test: 4 Hrs. at 8 GPM
Depth from surface to normal water level 25 ft.
Depth to water level when pumping 31 ft.

Well is terminated 24 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary Hospital Rhinelander laboratory on: Oct 30 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Jim Boyer Registered Well Driller
COMPLETE MAIL ADDRESS: Star Rt 2 Rhinelander.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3-71

DEC 2 1975

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

OCT 29 1975

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Forest
CHECK ONE: ☒ Town ☐ Village ☐ City
NAME: Nashville.

2. LOCATION – ¼ Section: NW¼ SW¼ | Section: 27 | Township: T35N | Range: R12E
OR Grid or street no. | Street name
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: Sylvester Polar Site 6
ADDRESS: Mole lake Tribe.
POST OFFICE: Mole lake. Wisc.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
50	—	—	—	—	—	—	—	—

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
—	—	—	—	—	—	—	—	—	—

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Mobile Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	69			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6"	18.97 New Steel	Surface	66
	Welded Joints		
3Ft	Stainless Steel	66	69
	Johnson Screen		
	No 3 slot		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sandy Clay	Surface	18
Dirty Sandy Gravel	18	61
Sand & gravel	61	69

10. TYPE OF DRILLING MACHINE USED
☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 9-17 1975

11. MISCELLANEOUS DATA
Yield test: 4 Hrs. at 10 GPM
Depth from surface to normal water level 16 ft.
Depth to water level when pumping 20 ft.

Well is terminated 24 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary Hospital Oct 17 Rhinelander laboratory on: Oct 17 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Thos Boyle Registered Well Driller
COMPLETE MAIL ADDRESS: Star Rt 2 Rhinelander

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

FR-202-U

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

OCT 27 1977

NOTE:
White Copy -- Division's Copy
Green Copy -- Driller's Copy
Yellow Copy -- Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 12-76

1. COUNTY: Forest

CHECK (✓) ONE: [X] Town [ ] Village [ ] City

Name: Nashville

2. LOCATION: ¼ Section: NE SW; Section: 27; Township: 35N; Range: 12E

OR – Grid or Street No.: ; Street Name:

AND – If available subdivision name, lot & block No.:

3. NAME [X] OWNER [ ] AGENT AT TIME OF DRILLING CHECK (✓) ONE: Charles Polar

ADDRESS: Mole Lake, Wisc.

POST OFFICE:

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
40										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		C.I.	Other		75		Seepage Pit	
				Clearwater Dr.		Clearwater Sump					Seepage Bed	85
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	45

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	42
6	12-slot Stainless Well Screen	42	45

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Brown Sand	Surface	21
Caving Red Sand	21	30
~~X~~ Brown Sand	30	45

10. TYPE OF DRILLING MACHINE USED

[ ] Cable Tool
[ ] Rotary-air w/drilling mud
[ ] Rotary-w/drilling mud
[ ] Rotary-hammer w/drilling mud & air
[X] Rotary-hammer & air
[ ] Reverse Rotary
[ ] Jetting with: [ ] Air [ ] Water

Well construction completed on 9/23/77 19__

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 16 GPM

Depth from surface to normal water level 22 Ft.

Depth of water level when pumping 35 Ft. Stabilized [X] Yes [ ] No

Well is terminated ~~X~~ 18 inches [X] above [ ] below final grade

Well disinfected upon completion [X] Yes [ ] No

Well sealed watertight upon completion [X] Yes [ ] No

Water sample sent to St Mary's Hospital laboratory on 9/23/77 19__

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Webster — Registered Well Driller

Complete Mail Address:
RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER CH 174

MAR 29 1991

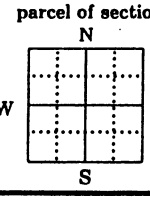
State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

Property Owner: Mole Lake Wood Inf. Telephone Number:
Mailing Address: Rt. 1 Box 567 Crandon
City: [illegible] State: WI Zip Code: 54520
County of Well Location: Forest County Well Location Permit No.: W Well Completion Date: 2 1 2 8 1 9 0 (M M D D Y Y)

(21)

Well Constructor (Business Name): Northwoods Well Drilling Registration #: 156
Address: 1608 Prune Lake Rd
City: Rhinelander State: WI Zip Code: 54501

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of Nashville
Fire # (if available)
Grid or Street Address or Road Name and Number (if available)
Subdivision Name Lot # Block #
Gov't Lot # ____ or SE ¼ of SE ¼ of Section 27; T 35 N; R 12 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # _____ constructed in 19 ____.
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and/or Industry (ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☑ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
____ 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
28 3. Septic or Holding Tank	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
80 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type ____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage ____ Other NR 112 Waste Source
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	____ 24. ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	44

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification, Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	PEUS 18.97#	surface	41

Dia. (in.)	screen type and material	From (ft.)	To (ft.)
6	3' NO.15 SS	41	44

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
S-	Sand	surface	44

10. Static Water Level
15 ft. above ground level
____ ft. below ground surface

11. Pump Test
Pumping Level 30 ft. below surface
Pumping at ____ GPM for ____ hours

12. Well Is:
☒ Above ☐ Below Grade
12 in.
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
☐ Yes ☐ No If no, explain ____

14. Signature of Point Driver or Registered Driller (PW) Date Signed 5/30/90
Signature of Drill Rig Operator Date Signed

Make additional comments on reverse side about geology, etc.

DNR

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

106

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER CN 977

OCT 5 1990

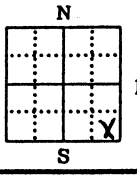
State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

Property Owner: Golda Long | Telephone Number: ( )
Mailing Address: Mole Lake Indian Reservation
City: Mole Lake | State: (W) | Zip Code: 54520
County of Well Location: Forest | County Well Location Permit No.: W | Well Completion Date: M M 9 D D 17 Y Y 90

(21)

Well Constructor (Business Name): Shawano Well Drilling | Registration #: 196
Address: Route 3 Box 247
City: Shawano | State: Wi | Zip Code: 54166

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☑ Town ☐ City ☐ Village of Nashville | Fire # (if available)
Grid or Street Address or Road Name and Number (if available): Hwy 55
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or SE ¼ of SE ¼ of Section 27; T 35 N; R 12 ☑ E ☐ W

3. Well Type ☑ New ☐ Replacement ☐ Reconstruction
of unique well # ____ constructed in 19 90.
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and/or ____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☑ No
High Capacity Property? ☐ Yes ☑ No

☑ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☑ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☑ No
Distance In Feet From Well To Nearest:

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
55 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
None 3. Septic or Holding Tank	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
None 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type ____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage ____
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	Other NR 112 Waste Source
		____ 24. none-septic

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
10	surface	25
6	25	60

Method of constructing upper enlarged drillhole only.
☑ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
SV	Sand & gravel	surface	25
MS	medium sand	25	42
NS	fine sand	42	54
MS	medium sand	54	60

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	Astm A53 18.97	surface	57
	S.T.&C. welded		
		15	slot

Dia. (in.)	screen type and material	From	To
6	Johnson Stainless Steel	57	60

8. Grout or Other Sealing Material
Method: Circulation
Kind of Sealing Material: Cement grout

From (ft.)	To (ft.)	# Sacks Cement
surface		
8	25	6

10. Static Water Level
15 ft. above ground level
~~15~~ ft. below ground surface

11. Pump Test
Pumping Level 18 ft. below surface
Pumping at 12 GPM for 2 hours

12. Well Is:
____ in. ☑ Above ☐ Below Grade
Developed? ☑ Yes ☐ No
Disinfected? ☑ Yes ☐ No
Capped? ☑ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☑ Yes ☐ No If no, explain ____

14. Signature of Pump Driver or Registered Driller: Don Dillenberg (DD) Date Signed: 9-12-90
Signature of Drill Rig Operator: Date Signed: 9-12-90

Make additional comments on reverse side about geology, etc.

DNR

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

105

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Nashville

2. LOCATION: ¼ Section: NW SE | Section: 27 | Township: 35N | Range: o 12E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Mole Lake Tribal Council Lot # 6
ADDRESS
Mole Lake, Wisc. 54520
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
FIRST CONSTRUCTION ON LOT										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Sewage Sump	Clearwater Dr.	Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
													Seepage Pit
													Seepage Bed
													Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well	Nonconforming Existing							
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for:
Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	42

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	39
6	12-slot Stainless Steel Well Screen	39	42

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand	Surface	42

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 12/10/79 19___

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 10 GPM
Depth from surface to normal water level 25 Ft.
Depth of water level when pumping 33 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 12/10/79 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature
Brad Webster
Registered Well Driller

Complete Mail Address RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

FR-206-U

State of Wisconsin
Department of Natural Resources
Box 450
Madison, Wisconsin 53701

OCT 3 1 1977

NOTE:
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Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15
Rev. 10-75

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Nashville

2. LOCATION: ¼ Section: NW SE; Section: 27; Township: 35N; Range: 12E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mole Lake Community Proj.# 06-01-01343

ADDRESS: Mole Lake, Wisc. 54520

POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
35										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
San.	Storm	C.I.	Other	Sewer	Clearwater Dr.	Sewage Sump	Clearwater Sump				Seepage Pit / Seepage Bed / Seepage Trench
									Not Installed Yet	Not Installed Yet	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well / Pump / Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Community Bldg.

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	41			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	38
6	20-slot Stainless Well Screen	38	41

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & Gravel Caving	Surface	38
Small Gravel	38	41

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☒ Rotary-hammer w/drilling mud & air
☐ Jetting with: ☐ Air ☐ Water
☐ Rotary-air w/drilling mud
☐ Rotary-hammer & air
☐ Rotary-w/drilling mud
☐ Reverse Rotary

Well construction completed on 10/12/77 19____

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 15 GPM

Depth from surface to normal water level 25 Ft.

Depth of water level when pumping 33 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary's Hospital laboratory on 10/12/77 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Webster
Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
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WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-76

JAN 28 1980

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: NW SE | Section: 27 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Mr. Willam McGeshick
ADDRESS: Mole Lake, Wisc. 54520
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
40										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
											95		Seepage Pit; Seepage Bed 105; Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well; Pump; Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	38	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	35
6	20-slot Stainless Well Screen	35	38

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Clay	Surface	35
Sand	35	38

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 6/25/79 19___

11. MISCELLANEOUS DATA
Yield Test: 1½ Hrs. at 10 GPM
Depth from surface to normal water level 21 Ft.
Depth of water level when pumping 23 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 18 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 6/25/79 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature] Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
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WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

JUN 23 1980

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: E NW SE | Section: 27 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓ ONE): Ms. Laura Olds
ADDRESS: Mole Lake, Wisc. 54520
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
30										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other		95		Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	110
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well		Nonconforming Existing							
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	38	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	35
6	15-slot Stainless Well Screen	35	38

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Clay	Surface	35
Sand	35	38

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☒ Rotary-hammer & air ☐ Air
☐ Rotary-w/drilling mud ☐ Reverse Rotary ☐ Water

Well construction completed on 6/25/79 19___

11. MISCELLANEOUS DATA
Yield Test: 1½ Hrs. at 12 GPM
Depth from surface to normal water level 21 Ft.
Depth of water level when pumping 24 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 24 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 6/25/79 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature
Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
600 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
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WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

1. COUNTY: Forest
CHECK (✓) ONE: [X] Town [ ] Village [ ] City
Name: Nashville

2. LOCATION: ¼ Section: NW SE | Section: 27 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME [ ] OWNER [X] AGENT AT TIME OF DRILLING CHECK (✓) ONE
Mole Lake Tribal Council Lot # 5
ADDRESS
Mole Lake, Wisc. 54520
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
FIRST CONSTRUCTION ON LOT										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
													Seepage Pit
													Seepage Bed
													Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	41

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# ~~PE A53 US Steel~~	Surface	38
6	12-slot Stainless Steel Well Screen	38	41

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand	Surface	41

10. TYPE OF DRILLING MACHINE USED
[ ] Cable Tool
[ ] Rotary-air w/drilling mud
[ ] Rotary-w/drilling mud
[ ] Rotary-hammer w/drilling mud & air
[X] Rotary-hammer & air
[ ] Reverse Rotary
[ ] Jetting with Air / Water

Well construction completed on 11/29/79 19____

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 15 GPM
Depth from surface to normal water level 22 Ft.
Depth of water level when pumping 26 Ft. Stabilized [X] Yes [ ] No

Well is terminated 12 inches [X] above [ ] below final grade
Well disinfected upon completion [X] Yes [ ] No
Well sealed watertight upon completion [X] Yes [ ] No

Water sample sent to Madison laboratory on 11/30/79 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Walsh
Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

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WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: NE SE | Section: 27 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mole Lake Tribal Council LOt# 2
ADDRESS: Mole Lake, Wisc. 54520
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain	Sanitary Bldg. Sewer	Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
FIRST CONSTRUCTION ON LOT			C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit
				Clearwater Dr.		Clearwater Sump							Seepage Bed
													Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	61	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	58
6	Stainless Steel Well Screen	58	61

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand	Surface	28
Sand & Clay	28	55
Sand	55	61

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 12 GPM
Depth from surface to normal water level 15.5 Ft.
Depth of water level when pumping 26 Ft. Stabilized ☒ Yes ☐ No

Well construction completed on 11/28/79 19__
Well is terminated 8 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 11/28/79

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Webster Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
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Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: NE SE | Section: 27 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Mole Lake Tribal Council Lot# 3
ADDRESS: Mole Lake, Wisc.
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
FIRST	CONSTRUCTION ON LOT									

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25 ~~40~~	40

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	37
6	12-slot Stainless Well Screen	37	40

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand	Surface	~~40~~ 40

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☒ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on 11/27/79 19___

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 12 GPM
Depth from surface to normal water level 13 Ft.
Depth of water level when pumping 26 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 24 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 11/28/~~80~~ 1979

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Webster Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

Well # 6 FR-208-U

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

OCT 2 0 1977

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-76

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Nashville

2. LOCATION: ¼ Section: SE NE; Section: ~~29~~; Township: 35N; Range: 12E

OR – Grid or Street No.: NE NE, SE; Street Name: sec 27 per USGS

AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Farley Ackley

ADDRESS:

POST OFFICE: ~~Mole~~ Mole Lake, Wisc.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
7										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other		35		Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	50
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	41			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	38
6	12-slot Stainless Well Screen	38	41

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
~~Neat~~ Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand Caving	Surface	41

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with ☐ Air ☐ Water
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on 8/9/77 19

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 12 GPM

Depth from surface to normal water level 27½ Ft.

Depth of water level when pumping 32 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary's Hospital laboratory on 8/11/77 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Wolosty — Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER DW 095

OCT 16 1990

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

Property Owner: KEN KRUSENSTERN Telephone Number: 715 478 2860

Mailing Address: RT. 1 BOX 619

City: CRANDON State: WIS Zip Code: 54520

County of Well Location: FOREST County Well Location Permit No.: W Well Completion Date: 19 81 90 (M M D D Y Y)

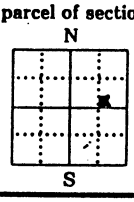
(21)

Well Constructor (Business Name): PHILIP KOEPPEL Registration #: 667

Address: W6824 REDRIVER RD

City: ANTIGO State: WIS Zip Code: 54409

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)

☒ Town ☐ City ☐ Village of NASHVILLE

Fire # (if available)

Grid or Street Address or Road Name and Number (if available)

Subdivision Name Lot # Block #

Gov't Lot # 2 or SE ¼ of NE ¼ of Section 27; T 35 N; R 12 ☒ E ☐ W

3. Well Type ☒ New ☒ Replacement ☐ Reconstruction

of unique well # NONE constructed in 19 ____.

Reason for new, replaced or reconstructed well? FAILING POINT

4. Well serves 1 # of homes and/or _____ (ex: barn, restaurant, church, school, industry, etc.)

High Capacity Well? ☐ Yes ☒ No

High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other _____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.

Well Located in Floodplain? ☐ Yes ☒ No

Distance In Feet From Well To Nearest:

- ____ 1. Landfill
- 3 2. Building Overhang
- 30 3. Septic or Holding Tank
- 55 4. Sewage Absorption Unit
- 20 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
- 12 14. Building Sewer ☒ Gravity ☐ Pressure ☒ Cast Iron or Plastic ☐ Other
- ____ 15. Collector or Street Sewer
- ____ 16. Clearwater Sump
- ____ 17. Wastewater Sump
- ____ 18. Paved Animal Barn Pen
- ____ 19. Animal Yard or Shelter
- ____ 20. Silo — Type _____
- ____ 21. Barn Gutter
- ____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
- ____ 23. Other Manure Storage _____ Other NR 112 Waste Source
- ____ 24. _____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
5	surface	27

Method of constructing upper enlarged drillhole only.

- ☐ 1. Rotary — Mud Circulation
- ☐ 2. Rotary — Air
- ☐ 3. Rotary — Foam
- ☐ 4. Reverse Rotary
- ☐ 5. Cable-tool Bit _____ in. dia.
- ☐ 6. Temp. Outer Casing _____ in. dia. Removed? ☐ Yes ☐ No If no, explain _____
- ☐ 7. Other _____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	BLACK STEEL	surface	24
	15#/FT. .258" A53B		
	RECESSED COUP + THREAD		
	V.S.P. 1950 P.S.I.		
Dia. (in.)	screen type and material	From	To
5	STAINLESS JOHNSON #12	24	27

8. Grout or Other Sealing Material

Method _____ Kind of Sealing Material

From (ft.)	To (ft.)	# Sacks Cement
surface		

Use additional comments on reverse side about geology, etc.

DNR USE ONLY

9. Geology

Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
SAND + GRAVEL	surface	27

10. Static Water Level
____ ft. above ground level
8 ft. below ground surface

11. Pump Test
Pumping Level 14 ft. below surface
Pumping at 10 GPM for 2 hours

12. Well Is:
10 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
☐ Yes ☒ No If no, explain STILL IN USE

14. Signature of Point Driver or Registered Driller: Philip Koeppel (PK) Date Signed: 10-8-90

Signature of Drill Rig Operator: SAME (PK) Date Signed:

DNR

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

91

First Water Quality Test For
WISCONSIN UNIQUE WELL NUMBER FN 331

State of Wisconsin
Private Water Supply - WS/2
Department of Natural Resources
Box 7921
Madison, WI 53707

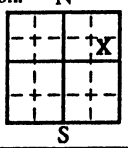
FEB 10 1993

(Please type or print using a black pen.)

Property Owner	Brownell Construction
Telephone Number	(715) 478-3968
Mailing Address	714 South Prospect
City	Crandon
State	WI
Zip Code	54520
County of Well Location	Forest
Co. Well Permit No.	W_____
Well Completion Date (mm-dd-yy)	10 - 08 - 92

21 Well Constructor (Business Name): Rhinelander Well Drilling, Inc. License # 632
Address: P.O. Box 584
City: Rhinelander, State: WI Zip Code: 54501

2. Mark well location with a dot in correct 40-acre parcel of section.



1. Well Location — Please use decimals instead of fractions.
[X] Town [ ] City [ ] Village of Nashville
Fire # (If avail.)
Grid or Street Address or Road Name and Number (If avail.): Highway 55
Subdivision Name | Lot # | Block #
Gov't Lot #_____ or SE 1/4 of NE 1/4 of
Section 27, T 35 N; R 12 [X] E [ ] W

3. Well Type [X] New [ ] Replacement [ ] Reconstruction
of previous unique well # _____ constructed in 19 ____
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and or _____
(Ex: barn, restaurant, church, school, industry, etc.)

High Capacity: Well? [ ] Yes [X] No Property? [ ] Yes [X] No

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other _____

5. Well located on highest point of property, consistent with the general layout and surroundings? [X] Yes [ ] No If no, explain on back side.

Well located in floodplain? [ ] Yes [X] No
Distance in Feet From Well To Nearest:

_____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
_____ 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
n/a 3. Septic or Holding Tank (circle one)	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
_____ 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo - Type _____
_____ 5. Nonconforming Pit	____ 13. Building Drain [ ] Cast Iron or Plastic [ ] Other	____ 21. Barn Gutter
_____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other	____ 22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
_____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage _____
_____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	Other NR 112 Waste Source
		____ 24. _____

1st Construction

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	47

Method of constructing upper enlarged drillhole only.
[ ] 1. Rotary - Mud Circulation
[ ] 2. Rotary - Air
[ ] 3. Rotary - Foam
[ ] 4. Reverse Rotary
[ ] 5. Cable-tool Bit _____ in. dia.
[ ] 6. Temp. Outer Casing _____ in. dia.
Removed? [ ] Yes [ ] No
If no, explain_____
[ ] 7. Other _____

9. Geology

DNR USB ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
QS-	Caving Sand	Surface	47

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	A-53 Grade B	surface	41
	Plain End Welded		
	18.97 #/Ft.		
	Sawhill Pipe Mfg.		

Dia. (in.)	screen type, material & slot size	From	To
6	6 Ft. Stainless Steel 12 slot	41	47

8. Grout or Other Sealing Material

Method _____ Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

10. Static Water Level
_____ ft. above ground surface
18 ft. below ground surface

11. Pump Test
Pumping Level 35 ft. below surface
Pumping at 45 GPM for 2 hours

12. Well Is:
18 in. [X] Above [ ] Below Grade
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
[ ] Yes [X] No If no, explain N/A

14. Signature of Point Driver or Licensed Supervisory Driller: [signature] DF Date Signed 10/23/92

Signature of Drill Rig Operator (Mandatory unless same as above): Charles Hagen CH Date Signed 10/8/92

Make additional comments on reverse side about geology, additional screens, water quality, etc.
Comments on reverse side _____ (Check √, if yes)

DNR

WELL CONSTRUCTION REPORT 200
Form 3300-77A Rev. 1-92

WGNHS ORIGINAL

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

JAN 28 1980

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: SE NE; Section: 27; Township: 35N; Range: 12E
OR – Grid or Street No.: ; Street Name:
AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mr. Archie McGeshick
ADDRESS: Mole Lake, Wisc.
POST OFFICE:

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
20										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump					100		Seepage Bed	100
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10 &	Surface	25	6	39	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	36
6	12-slot Stainless Well Screen	36	39

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Clay	Surface	36
Sand	36	39

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☒ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on 6/25/79 19____

11. MISCELLANEOUS DATA
Yield Test: 1½ Hrs. at 10 GPM
Depth from surface to normal water level 18 Ft.
Depth of water level when pumping 23 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 18 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 6/25/79 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature] Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

MAY 15 1980

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Nashville

2. LOCATION: ¼ Section: SE NE | Section: 27 | Township: 35N | Range: 12E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mole Lake Tribal Council Lot # 4

ADDRESS: Mole Lake, Wisc. 54520

POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
FIRST CONSTUCTION ON LOT										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other				Seepage Pit
				Clearwater Dr.	Clearwater Sump						Seepage Bed
											Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well	Nonconforming Existing							
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	38

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	35
6	20-slot Stainless Steel Well Screen	35	38

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand Caving	Surface	38

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with Air / Water

Well construction completed on 11/29/79 19___

Well is terminated 18 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 15 GPM

Depth from surface to normal water level 18 Ft.

Depth of water level when pumping 26 Ft. Stabilized ☒ Yes ☐ No

Water sample sent to Madison laboratory on 11/30/79 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Weber Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

OCT 20 1977 Well # 3 FR-200-J

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 12-76

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City Name: Nashville

2. LOCATION: ¼ Section: SE NE; Section: ~~29~~ 27; Township: 35N; Range: 12E; 5E

OR – Grid or Street No.; Street Name: per USGS

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Clayton Foxx

ADDRESS: Mole Lake, Wisc.

POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
7										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
											37		Seepage Pit; Seepage Bed 45; Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well; Pump; Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	85			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	85
	Open Bottom		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand Caving	Surface	52
Grey Clay Mud	52	75
Course Gravel & Grey Clay	75	82
Brown Gravel	82	85

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☒ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on 8/5/77 19___

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 12 GPM

Depth from surface to normal water level 12½ Ft.

Depth of water level when pumping 15 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary's Hopital laboratory on 8/11/77 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Bud Webster
Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISC.

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER CN 976

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

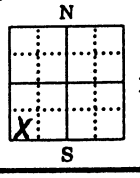
OCT 5 1990

Property Owner: Ron Smith — Telephone Number: ( )
Mailing Address: Mole Lake Indian Reservation
City: Mole Lake (Oak Corner) — State: Wi — Zip Code: 54520 (54154)
County of Well Location: Forest — County Well Location Permit No.: W — Well Completion Date: 9 / 12 / 90 (M M D D Y Y)

(21)

Well Constructor (Business Name): Shawano Well Drilling #196 — Registration #:
Address: Route 3 Box 247
City: Shawano — State: Wi — Zip Code: 54166

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☑ Town ☐ City ☐ Village of Nashville — Fire # (if available)
Grid or Street Address or Road Name and Number (if available): CTM
Subdivision Name — Lot # — Block #
Gov't Lot # ____ or SW ¼ of SW ¼ of Section 28; T 35 N; R 12 ☑ E ☐ W

3. Well Type: ☑ New ☑ Replacement ☐ Reconstruction
of unique well # _____ constructed in 19 90.
Reason for new, replaced or reconstructed well? old well slow

4. Well serves 1 # of homes and/or _____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☑ No
High Capacity Property? ☐ Yes ☑ No

☑ Drilled ☐ Driven Point ☐ Jetted ☐ Other _____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☑ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☑ No
Distance In Feet From Well To Nearest: B.P.

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
45 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
78 3. Septic or Holding Tank	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
96 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type _____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage _____
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	Other NR 112 Waste Source
		____ 24. _____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
10	surface	25
6	25	61 (16?)

Method of constructing upper enlarged drillhole only.
☑ 1. Rotary — Mud Circulation
☑ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit _____ in. dia.
☐ 6. Temp. Outer Casing _____ in. dia. Removed? ☐ Yes ☐ No If no, explain _____
☐ 7. Other _____

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
CS	Sandy clay	surface	21
GC	Sand, clay & stones	21	55
AS	Course sand	55	61

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	Astm A53 18.97 welded	surface	58
		45	Slot

Dia. (in.)	screen type and material	From (ft.)	To (ft.)
6	Johnson Stainless Steel	58	61

8. Grout or Other Sealing Material
Method Circulation

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		
Cement grout	8	25	6

10. Static Water Level
____ ft. above ground level
15 ft. below ground surface

11. Pump Test
Pumping Level 18 ft. below surface
Pumping at 12 GPM for 2 hours

12. Well Is:
20 in. ☑ Above ☐ Below Grade
Developed? ☑ Yes ☐ No
Disinfected? ☑ Yes ☐ No
Capped? ☑ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☑ Yes ☐ No If no, explain _____

14. Signature of Pump Driver or Registered Driller (DD) — Date Signed 9-12-90
Signature of Drill Rig Operator — Date Signed 9-12-90

Make additional comments on reverse side about geology, etc.

DNR

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

105

Well Construction Report For CV 005
WISCONSIN UNIQUE WELL NUMBER

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
AUG 4 1989 Madison, WI 53707

Property Owner: Sokgon Chippewa | Telephone Number: 715 362-5445
Mailing Address: PO Box 186
City: Crandon | State: Wi | Zip Code: 54520
County of Well Location: 21 FOREST | County Well Location Permit No.: W | Well Completion Date: 07/29/89 (MM DD YY)

Well Constructor (Business Name): Maurice Johnson | Registration #: 664
Address: N. 19382 Co "O"
City: Pembine | State: Wi | Zip Code: 54156

2. Mark well location in correct 40-acre parcel of section.

1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of Nashville | Fire # (if available)
Grid or Street Address or Road Name and Number (if available)
Subdivision Name | Lot # | Block #
Gov't Lot # ___ or SE ¼ of SW ¼ of Section 28 ; T 35 N; R 12 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # ___ constructed in 19 ___.
Reason for new, replaced or reconstructed well?

4. Well serves 1 # of homes and/or ___
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ___

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:
- ___ 1. Landfill
- 30 2. Building Overhang
- 70 3. Septic or 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
- 60 13. Building Drain ☒ Cast Iron or Plastic ☐ Other
- ___ 14. Building Sewer ☒ Gravity ☐ Pressure ☒ Cast Iron or Plastic ☐ Other
- ___ 15. Collector or Street Sewer
- ___ 16. Clearwater Sump
- ___ 17. Wastewater Sump
- ___ 18. Paved Animal Barn Pen
- ___ 19. Animal Yard or Shelter
- ___ 20. Silo — Type ___
- ___ 21. Barn Gutter
- ___ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
- ___ 23. Other Manure Storage ___ Other NR 112 Waste Source
- ___ 24. ___

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
10	surface	25
6	25	72

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☒ 5. Cable-tool Bit 6 in. dia.
☒ 6. Temp. Outer Casing 10 in. dia. Removed? ☒ Yes ☐ No
If no, explain ___
☐ 7. Other ___

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	New Steel	surface	64
	Valley Steel Co.		
	A.S.T.M. - A53 - 280 W		
	Welded Joints		
Dia. (in.)	screen type and material S.S. Johnson	From	To
6	M020-bkt.-5ft 5 in pipe	64	72

8. Grout or Other Sealing Material
Method Pumped
Kind of Sealing Material

	From (ft.)	To (ft.)	# Sacks Cement
Cement grout	surface	25	9

Make additional comments on reverse side about geology, etc.

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
SG	Sand + Gravelle	surface	30
GC	Gravelle + Clay	30	64
SG	Sand + Gravelle	64	72

10. Static Water Level
___ ft. above ground level
17 ft. below ground surface

11. Pump Test
Pumping Level 58 ft. below surface
Pumping at 10 GPM for 1½ (1.5) hours

12. Well Is:
18 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☐ No If no, explain ___

14. Signature of Point-Driver or Registered Driller: Maurice Johnson MJ | Date Signed: 8-2-89
Signature of Drill Rig Operator: Dan Johnson DJ | Date Signed: 8-2-89

DNR
WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE: OCT 20 1977
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

Well # 2
WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

FR-195-U

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: SW SW | Section: 28 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Bob McGeshick
ADDRESS: Mole Lake, Wisc.
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
5										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		C.I.	Other		30		Seepage Pit	
				Clearwater Dr.		Clearwater Sump					Seepage Bed	
											Seepage Trench	40

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	43			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	40
6	20-slot Stainless Well Screen	40	43

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand Caving	Surface	43

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air ☐ Air
☐ Rotary-w/drilling mud ☐ Reverse Rotary ☐ Water

Well construction completed on 8/4/77 19____

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 11 GPM
Depth from surface to normal water level 17½ Ft.
Depth of water level when pumping 35 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary's Hospital laboratory on 8/11/77 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Bud Webster
Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

Well # 1 FR-196-U

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashiville

2. LOCATION: ¼ Section: SE SW | Section: 28 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name:
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: James Devine
ADDRESS: Mole Lake, Wisc.
POST OFFICE:

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
6										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other		40		Seepage Pit	
				Clearwater Dr.	Clearwater Sump						Seepage Bed	55
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	59

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6 New	Black Steel 19.45# T&C A53 US Steel	Surface	53
6	20-slot Stainless Well Screen	53	59

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand Caving	Surface	24
Sand & Clay Mud	24	53
Dirty Sand & Gravel	53	59
Grey Clay	59	90
Soft Granite (No Water)	90	120

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary
☐ Jetting with ☐ Air ☐ Water

11. MISCELLANEOUS DATA
Yield Test: 8 Hrs. at 8 GPM
Depth from surface to normal water level 19 Ft.
Depth of water level when pumping 48 Ft. Stabilized ☒ Yes ☐ No

Well construction completed on 8/3/77 19
Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Marys Hospital laboratory on 8/11/77 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Webster Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

OCT 29 1975

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Forest.

CHECK ONE: ☒ Town ☐ Village ☐ City

NAME: Nashville

2. LOCATION – ¼ Section: SE ¼ & SW ¼ | Section: 28 | Township: T35N | Range: R 12 E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: Dan Polar Jnr.

ADDRESS: Mole Lake. Tribe.

POST OFFICE: Mole Lake Wisc.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
50	–	–	–	–	–	–	–	–

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
—	–	—	—	—	—	–	–	–	–

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Mobile Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	60			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6"	18.97 New Steel	Surface	57
	Welded Joints.		
3 Ft	Johnson Stainless	57	60
	Well Screen		
	No 3 slot		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & gravel	Surface	18
Dirty Sand & gravel	18	42
Clay & gravel	42	55
Sandy gravel	55	60

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 9 · 12 · 1975

Well is terminated 24 inches ☒ above ☒ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 8 GPM

Depth from surface to normal water level 16 ft.

Depth to water level when pumping 46 ft.

Water sample sent to St Mary Hospital Rhinelander laboratory on: Oct 17 1975

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Geo Beyer Registered Well Driller

COMPLETE MAIL ADDRESS: Star Rt 2 Rhinelander

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

OCT 27 1977 OCT 28 1977 Well # 5 FR-197-U

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: SW SE | Section: 28 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mr. Michael Polar
ADDRESS: Mole Lake, Wisc.
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
10										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump			40		Seepage Pit	
				Clearwater Dr.		Clearwater Sump					Seepage Bed	50
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well	Nonconforming Existing							
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	36			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	33
6	18-slot Stainless Well Screen	33	36

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand Caving	Surface	36

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on 8/8/77 19____

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 15 GPM
Depth from surface to normal water level 26 Ft.
Depth of water level when pumping 25 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary's Hospital laboratory on 8/11/77 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Wolosty
Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

OCT 20 1977 Well # 4 FR-198-U

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-76

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: SW SE | Section: 28 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name:
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: George Polar
ADDRESS: Mole Lake, Wisc.
POST OFFICE:

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
FIRST CONSTRUCTION ON LOT										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well		Nonconforming Existing							
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25			
6	25	43			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53US Steel	Surface	41
6	20-slot Stainless Well Screen	41	44

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand Caving	Surface	44

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on 8/8/77 19____

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 15 GPM
Depth from surface to normal water level 15 Ft.
Depth of water level when pumping 20 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary's Hospital laboratory on 8/11/77 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

AUG 3 0 1973

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST — CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: NASHVILLE

2. LOCATION – ¼ Section: SE 1/4 | Section: SE 1/4 | Township: 28 | Range: 35N. | 12 E.
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: ANGELINE SCOTT
ADDRESS: 3415 A.W. LISBON AVE.
POST OFFICE: MILW. WIS. 53208

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
5	15						15	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		40		50					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	63			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	60
	15#/FT. .258" COUPLED		
5	STAINLESS SCREEN	60	63

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND	Surface	63

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on AUG. 23 1973

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 15 GPM
Depth from surface to normal water level 12 ft.
Depth to water level when pumping 18 ft.

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: AUG. 27 1973

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

JAN 28 1980

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City Name: Nashville

2. LOCATION: ¼ Section: SE SE | Section: 28 | Township: 35N | Range: 12E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mr. Jim Beaumannen

ADDRESS: Mole Lake, Wisc.

POST OFFICE: 54520

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
None Yet										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other		None	Yet	Seepage Pit	None Yet
				Clearwater Dr.		Clearwater Sump							Seepage Bed	
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	41	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	38
6	20 Slot Stainless Well Screen	38	41

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand	Surface	41

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on 9/18/79 19____

11. MISCELLANEOUS DATA

Yield Test: 1 Hrs. at 12 GPM

Depth from surface to normal water level 16 Ft.

Depth of water level when pumping 33 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 18 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 9/18/79 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature] Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
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Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-76

MAY 19 1980

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: SE SE | Section: 28 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Mole Lake Tribal Council Lot-10
ADDRESS: Mole Lake, Wisc. 54520
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
FIRST CONSTRUCTION ON LOT										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	41

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	38
6	12-slot Stainless Steel Well Screen	38	41

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand	Surface	41

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air ☐ Jetting with Water

Well construction completed on 12/7/79 19___

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 12 GPM
Depth from surface to normal water level 14 Ft.
Depth of water level when pumping 21 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 12/7/79 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Webster
Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

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WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: SE SE | Section: 28 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Mole Lake Tribal Council Lot # 9
ADDRESS: Mole Lake, Wisc. 54520
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
FIRST	CONSTRUCTION ON LOT									

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well		Nonconforming Existing							
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	42

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	39
6	12-slot Stainless Steel Well Screen	39	42

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Gravel	Surface	29
Caving Sand & Clay	29	39
Sand	39	42

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary
☐ Jetting with ☐ Air ☐ Water

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 12 GPM
Depth from surface to normal water level 24.5 Ft.
Depth of water level when pumping 29 Ft. Stabilized ☒ Yes ☐ No

Well construction completed on 12/6/79 19____
Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 12/6/79 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Welsh Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

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MAY 19 1980

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-76

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Nashville

2. LOCATION: ¼ Section: SE SE | Section: 28 | Township: 35N | Range: 12E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mole Lake Tribal Council Lot # 8

ADDRESS: Mole Lake, Wisc. 54520

POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
FIRST CONSTRUCTION ON LOT										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Sewage Sump					Seepage Bed	
						Clearwater Sump					Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	42

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	39
6	20-slot Stainless Steel Well Screen	39	42

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand Gravel & Clay	Surface	39
Sand	39	~~42~~

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☒ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 12/6/79 19___

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 12 GPM

Depth from surface to normal water level 24.5 Ft.

Depth of water level when pumping 28 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 12/6/79 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Webster Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

MAY 19 1980

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

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WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-76

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Nashville

2. LOCATION: ¼ Section: SE SE | Section: 28 | Township: 35N | Range: 12E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mole Lake Tribal Council Lot- 11

ADDRESS: Mole Lake, Wisc. 54520

POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
FIRST CONSTRUCTION ON LOT										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		C.I.	Other				Seepage Pit	
				Clearwater Dr.		Sewage Sump					Seepage Bed	
						Clearwater Sump					Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well								
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	25	42

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.00# PE A53 US Steel	Surface	39
6	12-slot Stainless Steel Well Screen	39	42

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand	Surface	42

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with
☐ Air
☐ Water

Well construction completed on 12/7/79 19____

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 10 GPM

Depth from surface to normal water level 14.5 Ft.

Depth of water level when pumping 23 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 12/7/79 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Brad Webster Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

Wel 6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH FR-132-U

See Instructions on Reverse Side

1. County FOREST — Town ☐ Village ☑ MOLE LAKE City ☐ Check one and give name

2. Location SCHOOL STREET LOT #1 (SE,SE,SE 28,35N 12E)
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☑ or Agent ☐ CRANDON DIST #1
Name of individual, partnership or firm

4. Mail Address SCHOOL DIST. #1 CRANDON, WIS.
Complete address required

5. From well to nearest: Building 60 ft; sewer ____ ft; drain ____ ft; septic tank 100 ft; dry well or filter bed ____ ft; abandoned well ____ ft.

6. Well is intended to supply water for: SCHOOL

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	0	119			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	STD STEEL	0	119

9. GROUT:

Kind	From (ft.)	To (ft.)

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
SAND	0	80
CLAY	80	116
GRAVEL	116	119

RECEIVED
OCT 19 1960
SANITARY ENGINEERING

Construction of the well was completed on: OCT. 6 1960

The well is terminated 8 inches ☑ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ✓ No ____

Was the well sealed watertight upon completion? Yes ✓ No ____

11. MISCELLANEOUS DATA:

Yield test: 5 Hrs. at 15 GPM.

Depth from surface to water-level: 11 ft.

Water-level when pumping: 43 ft.

Water sample was sent to the state laboratory at: MADISON City on OCT 10 1960

Signature Oscar Kaeppel Registered Well Driller — Box 11 Phlox, Wis. Complete Mail Address

Please do not write in space below

Rec'd OCT 11 1960 No. 39554

Ans'd ____

Interpretation ~~SAFE—BACTERIOLOGICALLY~~

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli	0				

Examiner ____

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
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Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-76

JAN 28 1980

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Nashville

2. LOCATION: ¼ Section: NW SE | Section: 28 | Township: 35N | Range: 12E

OR – Grid or Street No. | Street Name:

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mr. Chuck McGeshick

ADDRESS: Mole Lake, Wisc. 54520

POST OFFICE:

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
40										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other		75		Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	110
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well		Nonconforming Existing							
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	79	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	76
6	20-slot Stainless Well Screen	76	79

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Clay	Surface	76
Sand	76	79

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on 6/22/79 19____

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 12 GPM

Depth from surface to normal water level 29 Ft.

Depth of water level when pumping 35 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 18 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 6/22/79 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature] Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

JAN 28 1980

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: NW SE; Section: 28; Township: 35N; Range: 12E
OR – Grid or Street No.: Street Name:
AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Ms. Mildred McGeshick
ADDRESS: Mole Lake, Wisc. 54520
POST OFFICE:

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
10										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other		100		Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	110
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	59	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	56
6	12-slot Stainless Well Screen	56	59

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Clay	Surface	56
Sand	56	59

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☐ Rotary-hammer w/drilling mud & air ☐ Jetting with
☐ Rotary-air w/drilling mud ☒ Rotary-hammer & air ☐ Air ☐ Water
☐ Rotary-w/drilling mud ☐ Reverse Rotary

Well construction completed on 6/19/79 19___

11. MISCELLANEOUS DATA
Yield Test: 2½ Hrs. at 10 GPM
Depth from surface to normal water level 16 Ft.
Depth of water level when pumping 50 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 18 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 6/19/79 19___

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature]
Registered Well Driller

Complete Mail Address:
RHINELANDER WELL DRILLING, INC.
660 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

FR-527-U

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 12-78

JAN 28 1980

1. COUNTY: Forest
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Nashville

2. LOCATION: ¼ Section: NW SE | Section: 28 | Township: 35N | Range: 12E
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Ms. Debbie Vanzile
ADDRESS: Mole Lake, Wisc. 54520
POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
30										

Street Sewer		Other Sewers		Foundation Drain Connected to:				Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other		100		Seepage Pit	
				Clearwater Dr.		Clearwater Sump							Seepage Bed	100
													Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing		Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well									
		Pump									
		Tank									

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	76	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	73
6	15-slot Stainless Well Screen	73	76

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Clay	Surface	73
Sand	73	76

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with: ☐ Air ☐ Water

Well construction completed on 6/22/79 19____

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 12 GPM
Depth from surface to normal water level 17½ Ft.
Depth of water level when pumping 25½ Ft. Stabilized ☒ Yes ☐ No

Well is terminated 18 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 6/22/79 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature]
Registered Well Driller

Complete Mail Address:
RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 12-76

JAN 2 8 1980

1. COUNTY Forest | CHECK (✓) ONE: ☒ Town ☐ Village ☐ City | Name Nashville

2. LOCATION | ¼ Section SE NE | Section 28 | Township 35N | Range 12E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE
Mr. Ray Mogeshick

ADDRESS Mole Lake, Wisc. 54520

POST OFFICE

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
15										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer		C.I.	Other		80		Seepage Pit	
				Clearwater Dr.		Sewage Sump					Seepage Bed	85
						Clearwater Sump					Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well	Nonconforming Existing							
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	25	6	75	

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	~~72~~ 75
~~x6~~	Open Bottom		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Neat Cement	Surface	25

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Sand & Clay	Surface	69
Sand & Gravel	69	73
Gravel	73	75

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with Air / Water

Well construction completed on 9/18/79

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 90gph GPM

Depth from surface to normal water level 25 Ft.

Depth of water level when pumping ____ Ft. Stabilized ☒ Yes ☐ No

Well is terminated 18 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on 9/18/79 19____

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature

Registered Well Driller

Complete Mail Address RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

Appendix D

Well Constructor's Reports for Domestic Water Supply Wells in the Vicinity of the Proposed Soil Absorption System

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

DEC 19 197

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 12-76

1. COUNTY: Forest

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City Name: Lincoln

2. LOCATION: ¼ Section: SE SE; Section: 16; Township: 35N; Range: 13E

OR – Grid or Street No.: ; Street Name:

AND – If available subdivision name, lot & block No.:

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mr. Peter Davison

ADDRESS: Box 64

POST OFFICE: Crandon, Wisc. 54520

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
FIRST CONSTRUCTION ON LOT										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Dwelling

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	91			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 19.45# T&C A53 US Steel	Surface	91
	Open Bottom		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
None	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Caving Gravel & Clay	Surface	31
Hard Gray Clay	31	44
Hardpan & Boulders	44	90
Gravel	90	91

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with ☐ Air ☐ Water
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air
☐ Rotary-w/drilling mud ☐ Reverse Rotary

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 10 GPM

Depth from surface to normal water level 58 Ft.

Depth of water level when pumping 75 Ft. Stabilized ☒ Yes ☐ No

Well construction completed on 11/29/77 19___

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to St Mary's Hospital laboratory on 11/29/77 19___

* Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature]
Registered Well Driller

Complete Mail Address: RHINELANDER WELL DRILLING, INC.
680 COUNTRY DRIVE
RHINELANDER, WISCONSIN 54501

WELL CONSTRUCTOR'S REPORT — WISCONSIN STATE BOARD OF HEALTH — Wel

1. COUNTY: FOREST — CHECK ONE: ☑ Town ☐ Village ☐ City — NAME: Lincoln

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers): SEC. 17 - T35 N. R13 E — RECEIVED FEB 14 1966

3. OWNER AT TIME OF DRILLING: Relf Hansen

4. OWNER'S COMPLETE MAIL ADDRESS: Crandon Wis

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
5								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		50		70					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: home

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	Surface	65			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	Black steel 10.89	Surface	65

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
none	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
sand & Bolder	Surface	30
clay sand mix	30	49
hard pan	49	63
coarse gravel	63	65

11. MISCELLANEOUS DATA

Yield test: Bail Check Hrs. at 5 GPM

Depth from surface to normal water level 13 ft.

Depth to water level when pumping 30 ft.

Water sample sent to Madison laboratory on: 1-3 1966

Well construction completed on 1-20 1966

Well is terminated 4in inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Daniel Behm Registered Well Driller

COMPLETE MAIL ADDRESS: RR2 Rhinelander Wis

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

FEB 2 1977

State of Wisconsin
Department of Natural Resources
Box 450
Madison, Wisconsin 53701

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15
Rev. 10–75

1. COUNTY FOREST — CHECK (✓) ONE: ☑ Town ☐ Village ☐ City — Name LINCOLN

2. LOCATION: ¼ Section SW¼ | Section 17 | Township 35N. | Range 13E.
OR – Grid or Street No. | Street Name
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: RAY VANRITE
ADDRESS: 690 MORRIS AVE.
POST OFFICE: GREEN BAY, WIS. 54301

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
15			25							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
											50		Seepage Pit: Seepage Bed 75: Seepage Trench

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
50		Well / Pump / Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	20			
5	20	66			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK. STEEL GALV. 15# FT. .258" WALL RECESS COUPL. A-589 U.S.S. CERT. EQUAL.	Surface	64
5	STAINLESS SCREEN A-120	64	66

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
PUDDLED CLAY	Surface	20

9. FORMATIONS

Kind	From (ft.)	To (ft.)
CLAY WITH GRAVEL	Surface	60
GRAVEL & SAND	60	66

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with ☐ Air ☐ Water

Well construction completed on FEB. 10 19 77

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 15 GPM
Depth from surface to normal water level 8 Ft.
Depth of water level when pumping 30 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on FEB. 10 19 77

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Oscar Koeppel Registered Well Driller

Complete Mail Address: Box 11 Pulaski, Wis.

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER EO 019

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

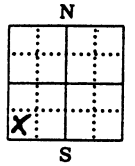
NOV 25 1992

Property Owner: Dave Heath — Telephone Number: (414) 435-0792
Mailing Address: 1056 Henry St.
City: Green Bay — State: Wi. — Zip Code: 54302
County of Well Location: Forest — County Well Location Permit No.: W — Well Completion Date: 11/2/92 (M M / D D / Y Y)

21

Well Constructor (Business Name): Gillett Well Drilling, Inc. — Registration #: 640
Address: 10460 Hwy A
City: Suring, Wi. — State — Zip Code: 54174

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of Lincoln — Fire # (if available)
Grid or Street Address or Road Name and Number (if available): Keith Siding Rd.
Subdivision Name — Lot # — Block #
Gov't Lot # ___ or SW ¼ of SW ¼ of Section 17 ; T 35 N; R 13 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # ___ constructed in 19 ___
Reason for new, replaced or reconstructed well? For new home

4. Well serves 1 # of homes and/or ___ (ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ___

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

—	1. Landfill	—	9. Downspout/Yard Hydrant
15	2. Building Overhang	—	10. Privy
80	3. Septic or Holding Tank	—	11. Foundation Drain to Clearwater
—	4. Sewage Absorption Unit	—	12. Foundation Drain to Sewer
—	5. Nonconforming Pit	35	13. Building Drain ☒ Cast Iron or Plastic ☐ Other
—	6. Buried Home Heating Oil Tank	60	14. Building Sewer ☒ Gravity ☐ Pressure ☒ Cast Iron or Plastic ☐ Other
—	7. Buried Petroleum Tank	—	15. Collector or Street Sewer
—	8. Shoreline/Swimming Pool	—	16. Clearwater Sump

—	17. Wastewater Sump
—	18. Paved Animal Barn Pen
—	19. Animal Yard or Shelter
—	20. Silo — Type ___
—	21. Barn Gutter
—	22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
—	23. Other Manure Storage ___ Other NR 112 Waste Source
___	24. ___

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
10	surface	20
6	20	59

Method of constructing upper enlarged drillhole only.
☒ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ___ in. dia.
☐ 6. Temp. Outer Casing ___ in. dia. Removed? ☐ Yes ☐ No If no, explain ___
☐ 7. Other ___

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
0CG	Gravel clay with stones, Caving	surface	45.
SC	Sand gravel clay mix	45	55
G	Gravel	55	59

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	ASTM A-53 18.97# Sawhill Steel - welded	surface	56

Dia. (in.)	screen type and material	From	To
.5	Stainless Steel - Telescope	56	59

8. Grout or Other Sealing Material

Method: Mud Circ. — Kind of Sealing Material	From (ft.)	To (ft.)	Sacks Cement
Drilling Mud	surface	20	

10. Static Water Level
___ ft. above ground level
8 ft. below ground surface

11. Pump Test
Pumping Level 45 ft. below surface
Pumping at 15 GPM for 2 hours

12. Well Is:
12 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☐ No If no, explain ___

14. Signature of Point Driver or Registered Driller: Noble Jones — Date Signed: 15 Nov. 92
Signature of Drill Rig Operator — Date Signed

Make additional comments on reverse side about geology, etc.

DNR

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 11-90 192

WGNHS ORIGINAL

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER HJ 711

DEC 21 1993

State of Wisconsin
Private Water Supply - WS/2
Department of Natural Resources
Box 7921
Madison, WI 53707

(Please type or print using a black pen.)

Property Owner: Richard Haezen
Telephone Number: (414) 882-1027
Mailing Address: 831 Twin Creeks Rd
City: Sobieski
State: Wi
Zip Code: 54171
County of Well Location: Forest
Co. Well Permit No. W
Well Completion Date (mm-dd-yy): 9-17-93

21 Well Constructor (Business Name): Rhinelander Well Drill
License #: 632
Address: PO Box 584
City: Rhinelander
State: Wi
Zip Code: 54501

2. Mark well location with a dot in correct 40-acre parcel of section.

1. Well Location — Please use decimals instead of fractions.
☒ Town ☐ City ☐ Village of Lincoln
Fire # (If avail.)
Grid or Street Address or Road Name and Number (If avail.): County Park Rd.
Subdivision Name / Lot # / Block #
Gov't Lot # ____ or NW 1/4 of SW 1/4 of Section 17, T 35 N; R 13 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of previous unique well # ____ constructed in 19 ____
Reason for new, replaced or reconstructed well?

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

4. Well serves 1 # of homes and or ____
(Ex: barn, restaurant, church, school, industry, etc.)

High Capacity: Well? ☐ Yes ☒ No; Property? ☐ Yes ☒ No

5. Well located on highest point of property, consistent with the general layout and surroundings? ☒ Yes ☐ No If no, explain on back side.

Well located in floodplain? ☐ Yes ☒ No
Distance in Feet From Well To Nearest:
____ 1. Landfill
25' 2. Building Overhang
4/12 3. Septic or Holding Tank (circle one)
____ 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
85 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
____ 16. Clearwater Sump
____ 17. Wastewater Sump
____ 18. Paved Animal Barn Pen
____ 19. Animal Yard or Shelter
____ 20. Silo - Type ____
____ 21. Barn Gutter
____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 23. Other Manure Storage ____
Other NR 112 Waste Source
____ 24. septic not in

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6"	surface	73'

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary - Mud Circulation
☐ 2. Rotary - Air
☐ 3. Rotary - Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification, Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6"	A 53 Grade B	surface	73'
	19 lbs/ft		
	Sawmill		
	Plainend welded		

Dia. (in.)	screen type, material & slot size	From	To
6			

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
-Y-	Sand & Gravel	Surface	20'
-Z-	Clay & Gravel	20'	68'
-XG	Sand, Clay, Gravel	68'	70'
-G-	Gravel	70'	73'

10. Static Water Level
____ ft. above ground surface
8 ft. below ground surface

11. Pump Test
Pumping Level 27' ft. below surface
Pumping at 15 GPM for 2 hours

12. Well Is:
12 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☒ No If no, explain N/A.

14. Signature of Print Driver or Licensed Supervisory Driller: Dean Funk DF — Date Signed: 9/20/93
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.
Comments on reverse side ____ (Check √, if yes)

DNR

WELL CONSTRUCTION REPORT 256
Form 3300-77A Rev. 7-93

WGNHS ORIGINAL

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

JUL 31 1973

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST

CHECK ONE: ☑ Town ☐ Village ☐ City NAME: LINCOLN

2. LOCATION – NW ¼ | SW ¼ | Section 17 | Township 35N | Range 13E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: MELVIN BROCKMAN
ADDRESS: 419 S. SIDNEY
POST OFFICE: KIMBERLY, WIS 5413

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
5		NEW		SITE				

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: MOBILE HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	6			
5	6	31			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	29
	15#/FT. .258" COUPLED		
5	STAINLESS SCREEN	29	31

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
DRILL CUTTINGS	Surface	6

9. FORMATIONS

Kind	From (ft.)	To (ft.)
CLAY	Surface	5
SAND & GRAVEL	5	31

10. TYPE OF DRILLING MACHINE USED

☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on JULY 25 1973

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 8 GPM

Depth from surface to normal water level 7 ft.

Depth to water level when pumping 18 ft.

Well is terminated 10 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: JULY 26 1973

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER AB512

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

AUG 8 1991 SEP 18 1991 SEP 18 1991

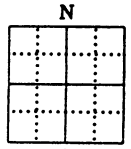
Property Owner: MARTIN WIED — Telephone Number: (414) 498-1257
Mailing Address: 1159 GROSS AVE
City: GREEN BAY — State: WIS — Zip Code: 54304
County: FOREST — County Well Location Permit No.: W — Well Completion Date: 7/26/91 (M M D D Y Y)

21

Well Constructor (Business Name): Martin Wied — License #:
Address: 1159 Gross Ave
City: Green Bay — State: WI — Zip Code: 54301

1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of LINCOLN — Fire # (if available): 9104
Grid or Street Address or Road Name and Number (if available): KEITH SIDING Road
Subdivision Name — Lot # — Block #
Gov't Lot # ____ or NE ¼ of SW ¼ of Section 17; T 35 N; R 13 ☒ E ☐ W

2. Mark well location in correct 40-acre parcel of section.



3. Well Type ☒ New ☐ Replacement ☐ Reconstruction/Rehabilitation
of well constructed in 19 91.
Reason for new, reconstructed, replaced, or rehabilitated well?
☐ Drilled ☒ Driven Point ☐ Jetted ☐ Other

4. Well serves 1 # of homes and/or 0 (ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No
Well Located in Floodplain? ☐ Yes ☒ No LOT
Distance In Feet From Well To Nearest:

5 MILES	1. Landfill	NONE	9. Downspout/Yard Hydrant
5 feet	2. Building Overhang	NONE	10. Privy
025'	3. Septic or Holding Tank	NONE	11. Foundation Drain to Clearwater
NONE	4. Sewage Absorption Unit	NONE	12. Foundation Drain to Sewer
NONE	5. Nonconforming Pit	10'	13. Building Drain ☒ Cast Iron or Plastic ☐ Other
NONE	6. Buried Home Heating Oil Tank		14. Building Sewer ☒ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
NONE	7. Buried Petroleum Tank	50'	15. Collector Sewer
1 MILE	8. Shoreline/Swimming Pool 5280		16. Clearwater Sump

NONE	17. Wastewater Sump	
NONE	18. Paved Animal Barn P	
NONE	19. Animal Yard or	
NONE	20. Silo — Type	
NONE	21. Barn Gutter	
NONE	22. Manure Pipe ☐ Gravity ☐ Pressu ☐ Cast Iron or Plastic ☐ Other	
NONE	23. Other Manure Storage	
NONE	24. Other NR 112 Waste Source	

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
	surface	

Method of constructing upper enlarged drillhole. (If applicable ✓ more than one.)
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.

From (ft.)	To (ft.)	
surface	18	NYG SANDY - GRAVEL - FINE STONE

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
4"	STEEL	surface	18'
1.25			

Dia. (in.)	screen type and material	From (ft.)	To (ft.)
1.25			
4"	POINT	15	18

10. Static Water Level
5 ft. below ground surface

11. Pump Test
Pumping Level ____ ft. below surface
Pumping at 9 GPM for 1 MIN. hours

12. Well Is:
18 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

13. Were all unused, noncomplying, or unsafe wells properly ... ☒ Yes ☐ No If no, explain ____

14. Signature of Well Constructor: Martin Wied M... Date Signed: 8-28-91
Signature of Drill Rig Operator ... Date Signed

Make additional comments on reverse side about geology, etc.

DNR

WELL CONS...TION REPORT
Form 3300-77 ... Rev. 8-87

D-7

WGNHS ORIGINAL

Department of Natural Resources

WELL CONSTRUCTION REPORT COMMENT SHEET
Form 3300-85
Rev. 8-91

A = Add
C = Change F/M Code A
D = Delete

WISCONSIN UNIQUE WELL NUMBER AB512

County Well Location Permit Number W _ _ _ _ _ Distict _ County _ _

Owner's Name Martin Weid

Hi-cap Permanent Well Number _ _ _ _ _
Geologic Log Number _ _ _ _ _ _
Common Well Number _ _ _
Common Well Name _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
Specific Capacity _ _ _ _
Date of Approval _ _ _ _ _ _
Approval Number _ _ _ _ _ _

Facility I.D. Number _ _ _ _ _ _ _ _
SID Number _ _ _ _ _ _ _ _

VARIANCE

(1) Type _ _ (01 = Distance, 02 = Depth, 03 = Landfill, 04 = Well Construction, 05 = Pump, 06 = Other)
Date of Approval _ _ _ _ _ _
Reason for Issuance _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300–15 Rev. 2-79

FEB 1 1983

1. COUNTY: FOREST
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: LINCOLN

2. LOCATION: ¼ Section or Gov't. Lot: NW | Section: 17 | Township: 35N | Range: 13E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: HARRY MELIUS
ADDRESS: BOX 351
POST OFFICE: CRANDON WIS. ZIP CODE: 54520

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
25			50							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench	Manure Hopper or Retention or Pneumatic Tank
												70		

Privy	Pet Waste Pit	Pit: Nonconforming Existing: Well	Pump	Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
100		–											

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin / Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	67			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	NEW BLK STEEL	Surface	65
	15#/FT. .258" A120		
	RECESSED COUP + THREAD		
	UNION STEEL		
5	STAINLESS SCREEN	65	67

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND + GRAVEL	Surface	30
HARDPAN	30	65
SANDY GRAVEL	65	67

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air ☐ Jetting with Water

Well construction completed on NOV 15 1982

11. MISCELLANEOUS DATA
Yield Test: 10 Hrs. at 15 GPM
Depth from surface to normal water level 5 Ft.
Depth of water level when pumping 60 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on NOV 15 1982

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Philip Koeppel D-9 Registered Well Driller

Business Name and Complete Mailing Address: BOX 1, PHLOX WIS.

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER CQ 794

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

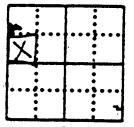
OCT 12 1989

Property Owner: NORMAN MENDLESKI | Telephone Number: 414 786 6527
Mailing Address: 1526 S 168TH
City: NEW BERLIN | State: WIS | Zip Code: 53151
County of Well Location: 21 FOREST | County Well Location Permit No.: W | Well Completion Date: 9/27/89 (M M D D Y Y)

24

Well Constructor (Business Name): PHILIP KOEPPEL | Registration #: W667
Address: W6824 REDRIVER RD
City: ANTIGO | State: WIS | Zip Code: 54409

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of LINCOLN | Fire # (if available)
Grid or Street Address or Road Name and Number (if available)
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or ~~NW~~ ¼ of NW ¼ of SW, NW, of
Section 17 ; T 35 N; R 13 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # ____ constructed in 19 ____.
Reason for new, replaced or reconstructed well?
NEW COTTAGE

4. Well serves 1 # of homes and/or ____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
7 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
55 3. ~~Septic~~ or Holding Tank	____ 11. Foundation Drain to Clearwater	____ 19. Animal Yard or Shelter
____ 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type ____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	35 14. Building Sewer ☒ Gravity ☐ Pressure ☒ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage ____
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	Other NR 112 Waste Source ____ 24. ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
5	surface	77

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit ____ in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No If no, explain ____
☐ 7. Other ____

9. Geology

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
SG	SAND + GRAVEL	surface	40
GC	GRAVEL + CLAY	40	74
GS	SANDY GRAVEL	74	77

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
5	BLACK STEEL	surface	74
	15#/FT. .258" A53B		
	RECESSED COUP + THREAD		
	V.S.P. 1950 P.S.I.		
Dia. (in.)	screen type and material	From	To
5	STAINLESS JOHNSON #20	74	77

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

10. Static Water Level
____ ft. above ground level
7 ft. below ground surface

11. Pump Test
Pumping Level 69 ft. below surface
Pumping at 9 GPM for 2 hours

12. Well Is:
9 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
☐ Yes ☐ No If no, explain NONE

14. Signature of Point Driver or Registered Driller: Philip Koeppel PK — Date Signed 9-27-89
Signature of Drill Rig Operator: SAME PK — Date Signed

Make additional comments on reverse side about geology, etc.

D-DNR WGNHS ORIGINAL

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER EQ 855

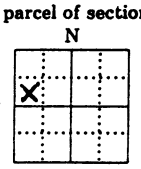
State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

MAR 13 1992

Property Owner: Todd Muenster | Telephone Number: (414) 739-9876
Mailing Address: 1724 N. Outagamie St.
City: Appleton, Wi. | State: Wi. | Zip Code: 54914
County of Well Location: Forest | County Well Location Permit No.: W | Well Completion Date: Apr 5 92 (M M D D Y Y)

21 Well Constructor (Business Name): Gillett Well Drilling Inc | Registration #: 640
Address: 10460 Hwy A
City: Suring, Wi. | State | Zip Code: 54174

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of Lincoln | Fire # (if available)
Grid or Street Address or Road Name and Number (if available)
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or SW ¼ of NW ¼ of Section 17 ; T 35 N; R 13 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # _____ constructed in 19 ____
Reason for new, replaced or reconstructed well? For Home

4. Well serves 1 # of homes and/or _____
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other _____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

— 1. Landfill	— 9. Downspout/Yard Hydrant	— 17. Wastewater Sump
15 2. Building Overhang	52 10. Privy	— 18. Paved Animal Barn Pen
55 3. Septic or Holding Tank	— 11. Foundation Drain to Clearwater	— 19. Animal Yard or Shelter
65 4. Sewage Absorption Unit	— 12. Foundation Drain to Sewer	— 20. Silo — Type _____
— 5. Nonconforming Pit	35 13. Building Drain ☒ Cast Iron or Plastic ☐ Other	— 21. Barn Gutter
— 6. Buried Home Heating Oil Tank	45 14. Building Sewer ☒ Gravity ☐ Pressure ☒ Cast Iron or Plastic ☐ Other	— 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
— 7. Buried Petroleum Tank	— 15. Collector or Street Sewer	— 23. Other Manure Storage _____ Other NR 112 Waste Source
— 8. Shoreline/Swimming Pool	— 16. Clearwater Sump	____ 24. _____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
10	surface	20
6	20	69

Method of constructing upper enlarged drillhole only.
☒ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☐ 5. Cable-tool Bit _____ in. dia.
☐ 6. Temp. Outer Casing _____ in. dia. Removed? ☐ Yes ☐ No If no, explain _____
☐ 7. Other _____

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	ASTM A-53 18.97# Sawhill Steel welded	surface	67

Dia. (in.)	screen type and material	From (ft.)	To (ft.)
5	Stainless Steel (Telescoping)	67	69

8. Grout or Other Sealing Material

Method: Mud Circ. / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
Drilling Mud.	surface	20	

DNR USE ONLY	9. Geology Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
TS	Sand, brown — Caving	surface	20
GS	Sand, grey	20	35
Z	Clay gravel mix	35	60
Y	Sand + gravel	60	69

10. Static Water Level
____ ft. above ground level
6 ft. below ground surface

11. Pump Test
Pumping Level 50 ft. below surface
Pumping at 25 GPM for 0.5 hours

12. Well Is:
☒ Above ☐ Below Grade
24 in.
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells?
☐ Yes ☐ No If no, explain —

14. Signature of Point Driver or Registered Driller: Noble James NJ | Date Signed: 9 Mar 92
Signature of Drill Rig Operator: NJ | Date Signed

Make additional comments on reverse side about geology, etc.

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

MAY 29 1974

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST
CHECK ONE: ☑ Town ☐ Village ☐ City
NAME: LINCOLN

2. LOCATION – ¼ Section: NW¼ | Section: NW¼ | 17 | Township: 35N | Range: 13E
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: P. A. BRIGGS
ADDRESS: RT. 1
POST OFFICE: CRANDON, WIS. 54520

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
6	60						60	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		80			100				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: MOBILE HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	60			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL	Surface	57
	15# FT .258" COUPLED		
5	SCREEN	57	60

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND (MUDDY)	Surface	32
GRAVEL + CLAY	32	56
SAND + GRAVEL	56	60

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on MAY 20 19 74

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 15 GPM
Depth from surface to normal water level: 5 ft.
Depth to water level when pumping: 30 ft.

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: MAY 21 19 74

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Philip Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: BOX 1 PHLOX, WIS.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

D-12

REV. 3–71

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

AUG 5 1974

NOTE
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YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST

CHECK ONE: ☑ Town ☐ Village ☐ City

NAME: LINCOLN

2. LOCATION – ¼ Section: NW ¼ NW ¼ | Section: 17 | Township: 35N | Range: 13E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: HAROLD HORN

ADDRESS: 1730 RIDGE ROAD

POST OFFICE: GREEN BAY, WIS. 54304

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
5								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
			60						

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: MOBILE HOME

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	66			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5	NEW BLK. STEEL 15#/FT. .258" COUPLED	Surface	64
5	SCREEN	64	66

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
MUDDY SAND & GRAVEL	Surface	28
HARD PAN	28	63
SAND & GRAVEL	63	66

10. TYPE OF DRILLING MACHINE USED

☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on JULY 30 1974

11. MISCELLANEOUS DATA

Yield test: 1 Hrs. at 15 GPM

Depth from surface to normal water level: 8 ft.

Depth to water level when pumping: 42 ft.

Well is terminated 8 inches ☑ above ☐ below final grade

Well disinfected upon completion ☑ Yes ☐ No

Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: JULY 31 1974

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Philip Koeppel Registered Well Driller

COMPLETE MAIL ADDRESS: Box 1 PHLOX, WIS.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

AUG 28 1972

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
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YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: FOREST
CHECK ONE: ☑ Town ☐ Village ☐ City
NAME: LINCOLN

2. LOCATION – ¼ Section: NW1/4 | Section: NW1/4 | Township: 17 | Range: 35N. 13 E.
OR – Grid or street no. | Street name
AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: WILLIAM REFFKE
ADDRESS: 200 E CALUMET
POST OFFICE: APPLETON, WIS.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DR. C. I.	WASTE WATER DR. TILE
20								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
			60						✓

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: MOBILE HOME FOR COTTAGE

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5	Surface	64			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
5"	NEW BLK. STEEL	Surface	62
15#/FT.	.258" COUPLED		
5	SCREEN	62	64

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND & GRAVEL	Surface	26
HARDPAN	26	60
SAND & GRAVEL	60	64

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on AUG. 22 1972

11. MISCELLANEOUS DATA
Yield test: 1 Hrs. at 8 GPM
Depth from surface to normal water level 6 ft.
Depth to water level when pumping 53 ft.

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to MADISON laboratory on: AUG. 23 1972

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Oscar Koeppel Registered Well Driller
COMPLETE MAIL ADDRESS: Box 11 Phlox, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

DEC 31 1971

FR-422-J

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
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YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY Forest

CHECK ONE: ☒ Town ☐ Village ☐ City — NAME: Lincoln

2. LOCATION – ¼ Section: NW¼ of NW¼ | Section: Sec. 17 | Township: T35N | Range: R13E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING Forest County
% Kenneth Conway
ADDRESS City Clerk
Forest County Court House
POST OFFICE Crandon, Wis. 54520

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
5								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		not installed							

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
none

5. Well is intended to supply water for:
Forest County Park Camp ground

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	37			

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	new blk steel 19.45/ft T&C	Surface	34
6	stainless steel screen 15-slot	34	37

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
sand & clay	Surface	34
gravel	34	37

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

11. MISCELLANEOUS DATA

Yield test: 2 Hrs. at 30 GPM
Depth from surface to normal water level 3 ft.
Depth to water level when pumping 12 ft.

Well construction completed on Dec. 9 19 71
Well is terminated 8 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison Lab laboratory on: Dec 9. 19 71

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE Robert Webster
Registered Well Driller

COMPLETE MAIL ADDRESS
Rhinelander Well Drilling
680 Country Drive
Rhinelander Wis. 54501

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

REV. 3–71

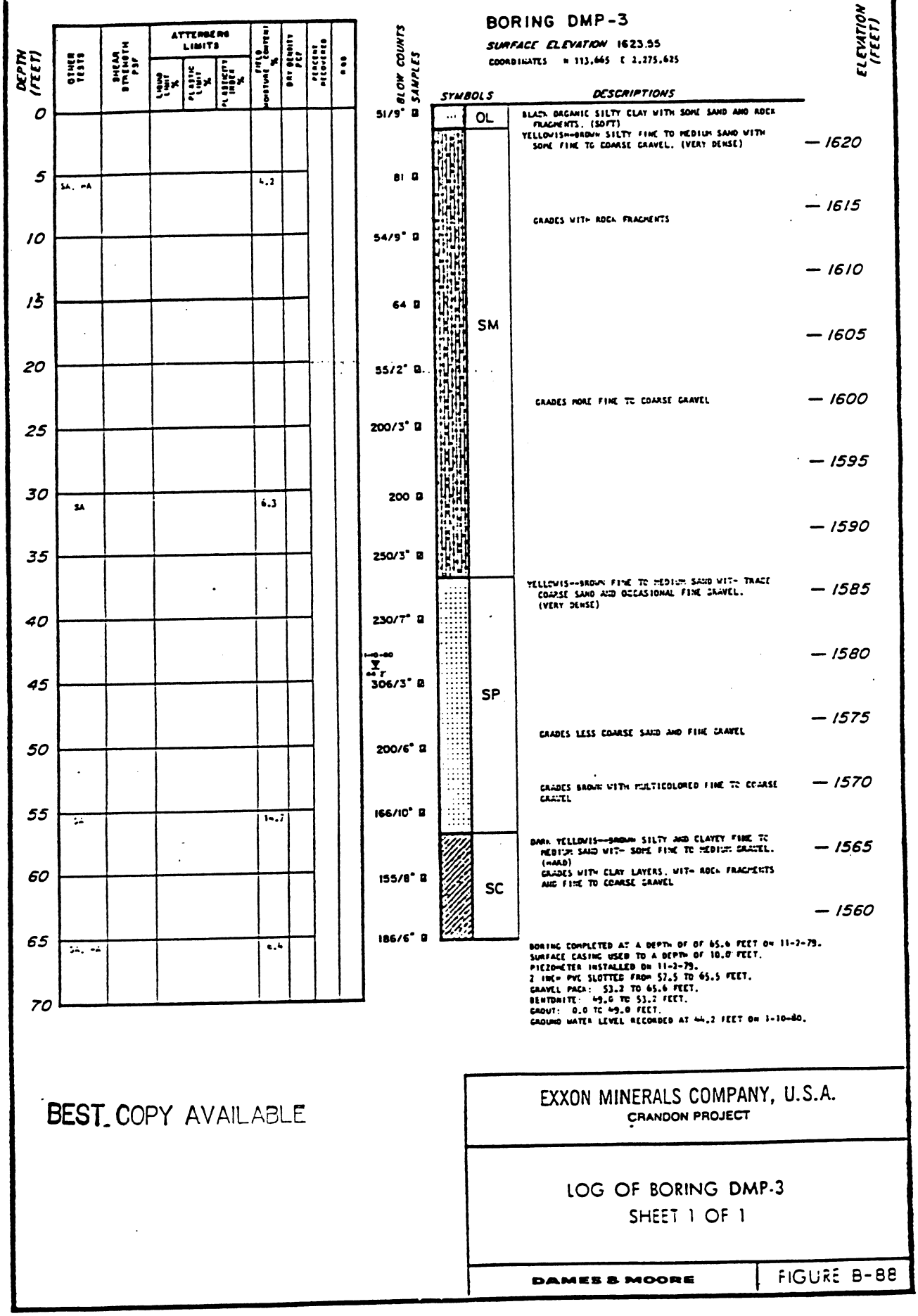
Appendix E

Boring Logs

Appendix E-1	Boring Log DMP-3
Appendix E-2	Boring Log G41-H9
Appendix E-3	Boring Logs DMA-14 and DMA-16

Appendix E-1

Boring Log DMP-3



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EXXON MINERALS COMPANY, U.S.A.
CRANDON PROJECT

LOG OF BORING DMP-3
SHEET 1 OF 1

DAMES & MOORE | FIGURE B-88

Appendix E-2

Boring Log G41-H9

BEST COPY AVAILABLE

COOR. N117330 ft. (N35762m)
E2285000 ft. (E696469m)

BORING LOG G41-H9

SHEET 1 OF 10

SURFACE ELEV. 1702.0 ft. (518.78m) PROJECT EXXON CRANDON TAILINGS DISPOSAL SYSTEM

DATUM USGS MSL DATE STARTED 5/14/81 DATE COMPLETED 5/26/81

DRILL RIG Schramm Rotadrill T64HP DRILLING METHOD Mud Rotary

DEPTH METER / FEET	STRAT PLOT	DESCRIPTION	UNIFIED CLASS	BLOWS / FOOT	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: HAMMER BLOWS PER 6 IN.	SAMPLES: REC/ATT	GROUNDWATER OBSERVATION WELL
0.0									
				-	1	DO	Hydraulic Push	12/24	
		Compact to very dense, brown, fine to coarse SAND, some fine to coarse gravel, some silt, occasional cobbles	SM	-	2	DO	Hydraulic Push	12/24	
				-	3	DO	Air Hammer	18/18	
7.92									
26.0		Very dense, brown, fine to coarse SAND, trace fine to coarse gravel, trace to some silt to fine to coarse gravelly fine to coarse SAND, trace silt	SP-SM	-	4	DO	Air Hammer	18/18	
10.4									
34.0		CONTINUED							

Job No. 786085
Scale 1" = 5'

Golder Associates

Drawn SKB
Checked MRB

COOR. N117330 ft. (N35762m)
E2285000 ft. (E696469m)

BORING LOG G41-H9

SHEET 2 OF 10

SURFACE ELEV. 1702.0 ft. (518.78m) PROJECT EXXON CRANDON TAILINGS DISPOSAL SYSTEM

DATUM USGS MSL DATE STARTED 5/14/81 DATE COMPLETED 5/26/81

DRILL RIG Schramm Rotadrill T64HP DRILLING METHOD Mud Rotary

DEPTH METER / FEET	STRAT. PLOT	DESCRIPTION	UNIFIED CLASS	BLOWS / FOOT	SAMPLES: NUMBER	TYPE	HAMMER BLOWS PER 6 IN.	REC. / ATT.	GROUNDWATER OBSERVATION WELL
10.4		CONTINUED							
34.0				-	5	DO	Air Hammer	12/12	
		Very dense, brown, fine to coarse SAND, trace fine to coarse gravel, trace to some silt to fine to coarse gravelly fine to coarse SAND, trace silt	SP-SM	-	6	DO	Air Hammer	8/8	
16.76									
55.0		Very dense, brown, silty fine to coarse SAND, some fine to coarse gravel to fine to coarse gravelly fine to coarse SAND, some silt, occasional cobbles	SM	-	7	DO	Air Hammer	16/16	
20.3									
66.5		CONTINUED							

Job No. 786085
Scale 1" = 5'

Golder Associates

Drawn SKB
Checked MRB

COOR. N117330 ft. (N35762m)
E2285000 ft. (E696469m)

BORING LOG G41-H9

SHEET 3 OF 10

SURFACE ELEV. 1702.0 ft. (518.78m) PROJECT EXXON CRANDON TAILINGS DISPOSAL SYSTEM

DATUM USGS MSL DATE STARTED 5/14/81 DATE COMPLETED 5/26/81

DRILL RIG Schramm Rotadrill T64HP DRILLING METHOD Mud Rotary

DEPTH METER / FEET	STRAT PLOT	DESCRIPTION	UNIFIED CLASS	BLOWS/FOOT	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: HAMMER BLOWS PER 6IN.	SAMPLES: REC/ATT.	GROUNDWATER OBSERVATION WELL
20.3 / 66.5		CONTINUED							
		Very dense, brown, silty fine to coarse SAND, some fine to coarse gravel to fine to coarse gravelly fine to coarse SAND, some silt, occasional cobbles	SM	-	8	DO	Air Hammer	21/21	
				-	9	DO	Air Hammer	24/24	
25.91 / 85.0									
		Very dense, multi-colored, fine to coarse sandy fine to coarse GRAVEL, trace silt	GP	-	10	DO	Air Hammer	12/12	
28.96 / 95.0									
		Very dense, brown, fine to coarse SAND, some fine to coarse gravel, trace to some silt	SP to SM						
30.18 / 99.0		CONTINUED							

Job No. 786085
Scale 1" = 5'

Golder Associates

Drawn SKB
Checked MRB

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COOR. N117330 ft. (N35762m)
E2285000 ft. (E696469m)

BORING LOG G41-H9

SURFACE ELEV. 1702.0 ft. (518.78m) PROJECT EXXON CRANDON TAILINGS DISPOSAL SYSTEM

DATUM USGS MSL DATE STARTED 5/14/81 DATE COMPLETED 5/26/81

DRILL RIG Schramm Rotadrill T64HP DRILLING METHOD Mud Rotary

DEPTH METER FEET	STRAT PLOT	DESCRIPTION	UNIFIED CLASS	BLOWS/FOOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES HAMMER BLOWS PER 6 IN.	SAMPLES REC./ATT.	GROUNDWATER OBSERVATION WELL
30.18 99.0		CONTINUED							
				-	11	DO	Air Hammer	24/24	
		Very dense, brown, fine to coarse SAND, some fine to coarse gravel, trace to some silt	SP to SM						▼ 5/26/81 33.69 110.5
				-	12	DO	Air Hammer	24/24	
35.05 115.0									
		Very dense, gray-brown to red-brown, silty, fine to coarse SAND, some fine to coarse gravel, trace clay to fine to coarse gravelly fine to coarse SAND, some silt, frequent cobbles and occasional boulders	SM	-	13	DO	Air Hammer	24/24	
40.08 131.5		CONTINUED		-	14	DO	Air Hammer	16/16	

Job No. 736085
Scale 1" = 5'

Golder Associates

Drawn SKB
Checked MRB

COOR. N117330 ft. (N35762m)
E2285000 ft. (E696469m)

BORING LOG G41-H9

SHEET 5 OF 10

SURFACE ELEV. 1702.0 ft. (518.78m) PROJECT EXXON CRANDON TAILINGS DISPOSAL SYSTEM

DATUM USGS MSL DATE STARTED 5/14/81 DATE COMPLETED 5/26/81

DRILL RIG Schramm Rotadrill T64HP DRILLING METHOD Mud Rotary

DEPTH METER / FEET	STRAT PLOT	DESCRIPTION	UNIFIED CLASS	BLOWS/FOOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES HAMMER BLOWS PER 6IN.	SAMPLES REC/ATT.	GROUNDWATER OBSERVATION WELL
40.08 / 131.5		CONTINUED							
		Very dense, gray-brown to red-brown, silty fine to coarse SAND, some fine to coarse gravel, trace clay to fine to coarse gravelly fine to coarse SAND, some silt, frequent cobbles and occasional boulders	SM	-	15	DO	Air Hammer	6/18	
				-	16	DO	Air Hammer	15/15	
				-	17	DO	Air Hammer	7/7	
50.75 / 166.5		CONTINUED							

Job No. 786085
Scale 1" = 5'

Golder Associates

Drawn SKB
Checked MRB

BEST COPY AVAILABLE

COOR. N117330 ft. (N35762m)
E2285000 ft. (E695469m)
SURFACE ELEV. 1702.0 ft. (518.78m)
DATUM USGS MSL
DRILL RIG Schramm Rotadrill T64HP

BORING LOG G41-H9

SHEET 6 OF 10
PROJECT EXXON CRANDON TAILINGS DISPOSAL SYSTEM
DATE STARTED 5/14/81 DATE COMPLETED 5/26/81
DRILLING METHOD Mud Rotary

DEPTH METER FEET	STRAT PLOT	DESCRIPTION	UNIFIED CLASS	BLOWS / FOOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES HAMMER BLOWS PER 6IN.	SAMPLES REC / ATT.	GROUNDWATER OBSERVATION WELL
50.75 / 166.5		CONTINUED							
		Very dense, gray-brown to red-brown, silty fine to coarse SAND, some fine to coarse gravel, trace clay to fine to coarse gravelly fine to coarse SAND, some silt, frequent cobbles and occasional boulders	SM	-	18	DO	Air Hammer	6/6	
				-	19	DO	Air Hammer	12/12	
				-	20	DO	Air Hammer	12/12	
59.42 / 195.0		Very dense, orange-brown, fine to medium SAND, trace silt	SP-SM	-	21	DO	Air Hammer	9/9	2" Solid PVC Pipe (to surface) Grout (to surface)
61.42 / 201.5		CONTINUED							CONTINUED

Job No. 706085
Scale 1" = 5'

Golder Associates

Drawn SKB
Checked MRB

COOR. N117330 ft. (N35762m)
E2285000 ft. (E696469m)

BORING LOG G41-H9

SHEET 7 OF 10

SURFACE ELEV. 1702.0 ft. (518.78m) PROJECT EXXON CRANDON TAILINGS DISPOSAL SYSTEM

DATUM USGS MSL DATE STARTED 5/14/81 DATE COMPLETED 5/26/81

DRILL RIG Schramm Rotadrill T64HP DRILLING METHOD Mud Rotary

DEPTH METER / FEET	STRAT PLOT	DESCRIPTION	UNIFIED CLASS	BLOWS / FOOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES HAMMER BLOWS PER 6 IN.	SAMPLES REC / ATT.	GROUNDWATER OBSERVATION WELL
61.42		CONTINUED							CONTINUED
201.5		Very dense, orange-brown, fine to medium SAND, trace silt	SP-SM						Grout
62.48 / 205.0									63.03 / 207.0 Bentonite Clay Seal
		Very dense, red-brown, silty fine to coarse SAND, some fine to coarse gravel	SM	-	22	DO	Air Hammer	11/11	64.01 / 210.0
65.53 / 215.0				-	23	DO	Air Hammer	18/18	2" Solid PVC Pipe
		Very dense, brown to red-brown, fine to coarse SAND, trace silt to fine to coarse SAND, some fine to coarse gravel, trace silt	SP	-	24	DO	Air Hammer	18/18	Pea Gravel
									70.10 / 230.0
72.09 / 236.5		CONTINUED							2" Slotted PVC Pipe; Pea Gravel (to bottom of boring)
									CONTINUED

Job No. 786085
Scale 1" = 5'

Golder Associates

Drawn SKB
Checked MRB

BEST COPY AVAILABLE

COOR. N117330 ft. (N35762m)
E2285000 ft. (E696469m)

BORING LOG G41-H9

SURFACE ELEV. 1702.0 ft. (518.78m) PROJECT EXXON CRANDON TAILINGS DISPOSAL SYSTEM

DATUM USGS MSL DATE STARTED 5/14/81 DATE COMPLETED 5/26/81

DRILL RIG Schramm Rotadrill T64HP DRILLING METHOD Mud Rotary

DEPTH METER / FEET	STRAT PLOT	DESCRIPTION	UNIFIED CLASS	BLOWS / FOOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES HAMMER BLOWS PER 6 IN.	SAMPLES REC / ATT.	GROUNDWATER OBSERVATION WELL
72.09 / 236.5		CONTINUED							CONTINUED
		Very dense, brown to red-brown, fine to coarse SAND, trace silt to fine to coarse SAND, some fine to coarse gravel, trace silt	SP	-	25	DO	Air Hammer	18/18	Pea Gravel 73.15 / 240.0 Pea Gravel (to bottom of boring)
74.67 / 245.0									
				-	26	DO	Air Hammer	18/18	
		Very dense, brown, fine to coarse SAND, trace fine to coarse gravel, trace silt	SP-SM						
				-	27	DO	Air Hammer	18/18	
80.77 / 265.0		Very dense to hard, dark brown to red-brown, fine sandy SILT, trace clay to silty fine SAND (very poorly graded, some stratification evident)	SM to ML						
				-	28	DO	Air Hammer	18/18	
82.75 / 271.5		CONTINUED							

Job No. 786085
Scale 1" = 5'

Golder Associates

Drawn SKB
Checked MRB

COOR. N117330 ft. (N35762m)
E2285000 ft. (E696469m)

BORING LOG G41-H9

SHEET 9 OF 10

SURFACE ELEV. 1702.0 ft. (518.78m) PROJECT EXXON CRANDON TAILINGS DISPOSAL SYSTEM

DATUM USGS MSL DATE STARTED 5/14/81 DATE COMPLETED 5/26/81

DRILL RIG Schramm Rotadrill T64HP DRILLING METHOD Mud Rotary

DEPTH METER / FEET	STRAT PLOT	DESCRIPTION	UNIFIED CLASS	BLOWS / FOOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES HAMMER BLOWS PER 6IN.	SAMPLES REC./ATT.	GROUNDWATER OBSERVATION WELL
82.75 / 271.5		CONTINUED							
		Very dense to hard, dark brown to red-brown, fine sandy SILT, trace clay to silty fine SAND (very poorly graded, some stratification evident)	SM to ML	-	29	DO	Air Hammer	18/18	
				-	30	DO	Air Hammer	18/18	
89.92 / 295.0		Very dense, brown, fine to coarse gravelly fine to coarse SAND, some silt	SM	-	31	DO	Air Hammer	18/18	
92.66 / 304.0		CONTINUED							

Job No. 786085
Scale 1" = 5'

Golder Associates

Drawn SKB
Checked MDB

BEST COPY AVAILABLE

COOR. N117330 ft. (N35762m)
E2285000 ft. (E696469m)

BORING LOG G41-H9

SURFACE ELEV. 1702.0 ft. (518.78m) PROJECT EXXON CRANDON TAILINGS DISPOSAL SYSTEM

DATUM USGS MSL DATE STARTED 5/14/81 DATE COMPLETED 5/26/81

DRILL RIG Schramm Rotadrill T64HP DRILLING METHOD Mud Rotary

DEPTH METER / FEET	STRAT PLOT	DESCRIPTION	UNIFIED CLASS	BLOWS/FOOT	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: HAMMER BLOWS PER 6 IN.	SAMPLES: REC./ATT.	GROUNDWATER OBSERVATION WELL
92.66 / 304.0		CONTINUED							
		Very dense, brown, fine to coarse gravelly fine to coarse SAND, some silt	SM						
94.64 / 310.5		Weathered to sound, green, metavolcanic TUFF		-	32	Cuttings			
96.01 / 315.0		END OF BORING							

NOTES

1. Elevation of top of protector pipe, 1704.8 ft. (519.63m).

Table of Water Level Readings by Date. Readings Indicate Depth Below Ground Surface.

DATE	5/26/81	6/10/81					
DEPTH (m)	33.69	33.67					
DEPTH (ft.)	110.5	110.5					

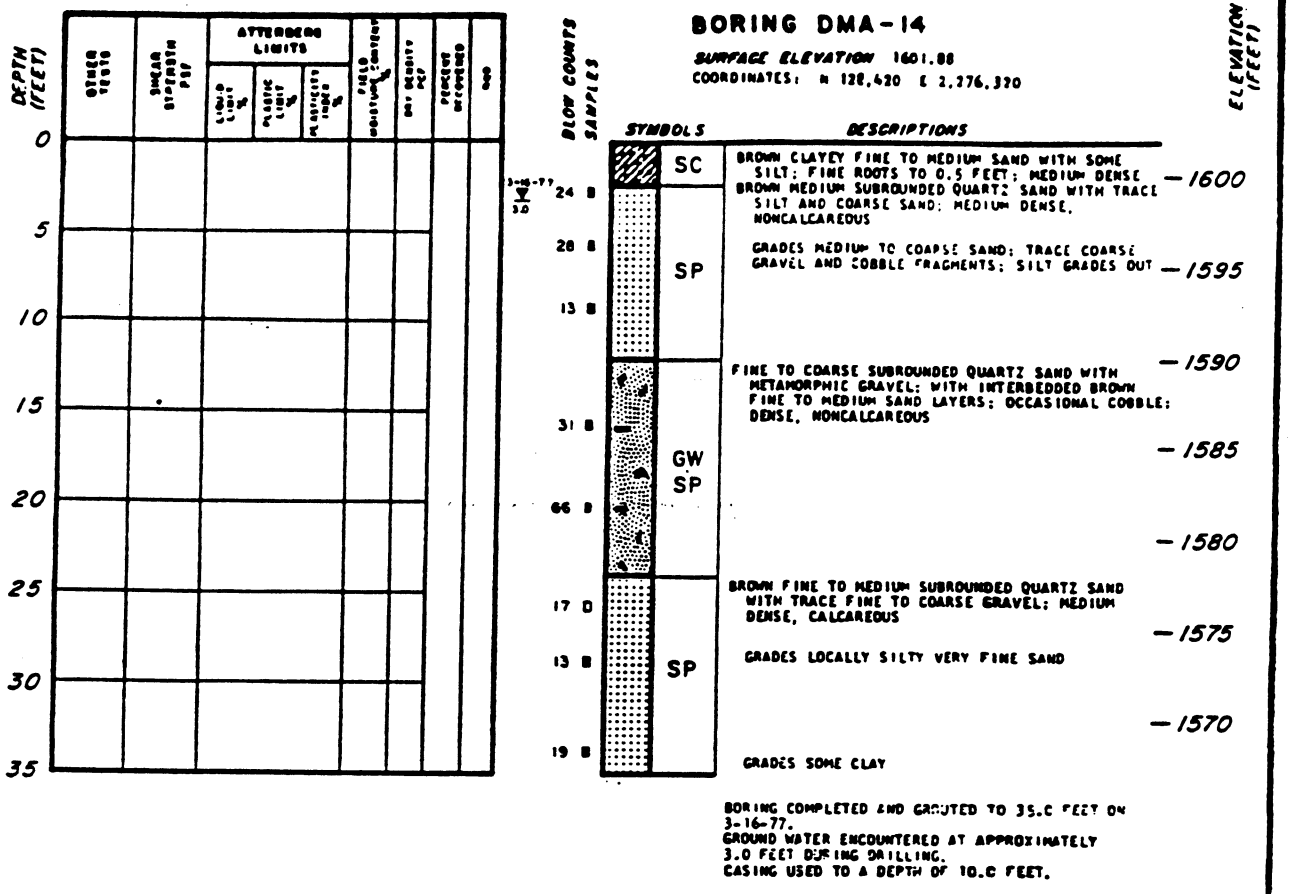
Job No. 786085
Scale 1" = 5'

Golder Associates

Drawn SKB
Checked MRB

Appendix E-3

Boring Logs DMA-14 and DMA-16



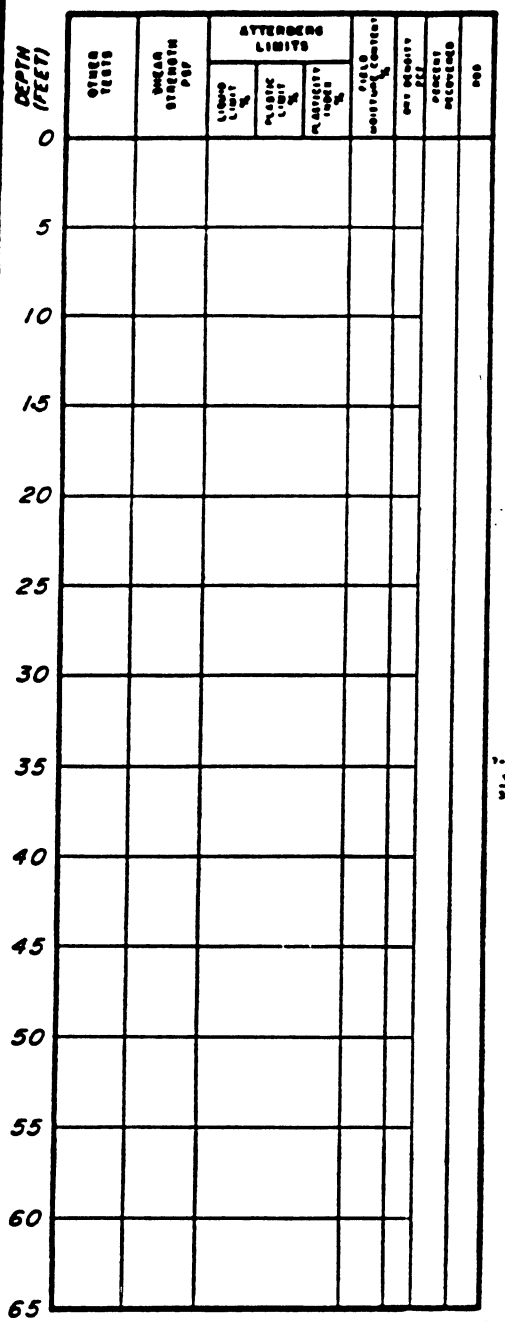
BORING COMPLETED AND GROUTED TO 35.0 FEET ON 3-16-77.
GROUND WATER ENCOUNTERED AT APPROXIMATELY 3.0 FEET DURING DRILLING.
CASING USED TO A DEPTH OF 10.0 FEET.

EXXON MINERALS COMPANY, U.S.A.
CRANDON PROJECT

LOG OF BORING DMA-14
SHEET 1 OF 1

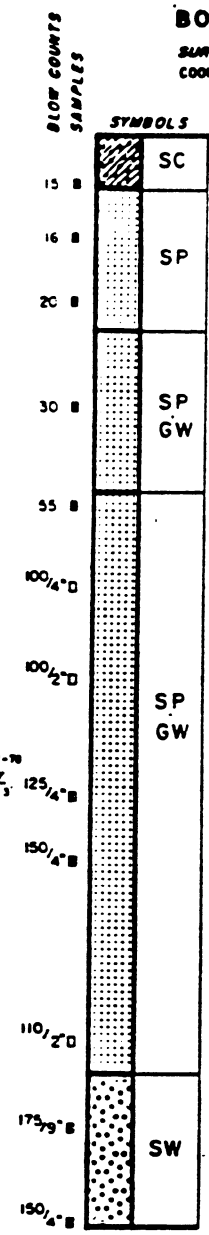
1/79

DAMES & MOORE | FIGURE B-10



BORING DMA-16

SURFACE ELEVATION 1589.93
COORDINATES: N 123,793 E 2,271,254



DESCRIPTIONS

BROWN CLAYEY FINE SAND WITH SILT AND FINE TO COARSE GRAVEL; STIFF, NONCALCAREOUS
GRADES LIGHT BROWN SILTY FINE SAND

BROWN FINE TO MEDIUM SUBROUNDED QUARTZ SAND WITH SOME FINE TO COARSE GRAVEL; OCCASIONAL COBBLE, MEDIUM DENSE, NONCALCAREOUS
WITH YELLOW SILT LENSE — 1585

— 1580

BROWN FINE TO MEDIUM SUBROUNDED QUARTZ SAND WITH INTERBEDDED FINE TO COARSE SAND, GRAVEL AND COBBLE LAYERS; DENSE, NONCALCAREOUS — 1575

COARSE GRAVEL AND COBBLES GRADES OUT FROM 16.0 TO 19.0 FEET

— 1570

BROWN FINE TO MEDIUM SUBROUNDED QUARTZ SAND WITH INTERBEDDED FINE TO COARSE SAND, GRAVEL AND COBBLE LAYERS; DENSE, CALCAREOUS

— 1565

WITH OCCASIONAL 12" COBBLE

— 1560

— 1555

— 1550

— 1545

— 1540

BROWNISH-GRAY FINE TO COARSE SUBROUNDED SAND WITH FINE TO COARSE GRAVEL; OCCASSIONAL COBBLE; VERY DENSE, CALCAREOUS — 1535

— 1530

ELEVATION (FEET)

BORING COMPLETED AT 60.3 FEET ON 3-17-77.
CASING USED TO A DEPTH OF 9.0 FEET.
PIEZOMETER INSTALLED ON 3-17-77.
2 INCH PVC SLOTTED FROM 56.0 TO 60.0 FEET.
GRAVEL PACK: 52.0 TO 60.0 FEET.
BENTONITE: 50.0 TO 52.0 FEET.
GROUT: 0.0 TO 50.0 FEET.
GROUND WATER LEVEL RECORDED AT 36.3 FEET ON 7-7-78.

EXXON MINERALS COMPANY, U.S.A.
CRANDON PROJECT

LOG OF BORING DMA-16
SHEET 1 OF 1

1/79

DAMES & MOORE

FIGURE B-11

Appendix F

Well Specifications

Appendix F-1	General Provisions for Constructing Water Wells
Appendix F-2	Well Performance Testing
Appendix F-3	Gravel Pack Well

Appendix F-1

General Provisions for Constructing Water Wells

GENERAL PROVISIONS FOR CONSTRUCTING WATER WELLS

PART 1 - GENERAL

1.1 DESCRIPTION

A. This section contains general provisions applying to the construction of water wells.

B. Work under this contract consists of furnishing all materials, labor, equipment, shipping, and storage necessary to construct the well with all appurtenances and shall include:

1. Drilling.
2. Casing installation.
3. Grouting.
4. Testing and sampling.
5. Site and groundwater protection.
6. Disinfection.
7. Well abandonment.
8. Safety and related matters.
9. Clean-up.

1.2 REFERENCE STANDARDS

A. American Water Works Association (AWWA):

1. AWWA A-100 Standard for Deep Wells
2. AWWA B-300 Standard for Hypochlorites
3. AWWA C-654 Standard for Disinfection of Wells

B. American Standard for Testing and Materials (ASTM):

1. ASTM A53 Specifications for Steel Pipe
2. ASTM A106 Specification for Seamless Carbon Steel Pipe for High-Temperature Service
3. ASTM A589 Specification for Seamless and Welded Carbon Steel Well Water Pipe
4. ASTM C150 Specifications for Portland Cement

1.3 QUALITY ASSURANCE

A. The work shall be performed by an experienced well driller licensed in the State of Wisconsin.

B. If requested furnish information and references on similar wells constructed.

1.4 SUBMITTALS

A. Samples
   1. Formation Samples:
      a. Take at 5-foot intervals and at changes in geologic formations.
      b. Submit to the State Geological Survey in containers provided for that purpose.
   2. Water samples for bacteriological analysis.
      a. Two shall be taken during the course of the test pumping.
      b. Provide analysis as required by the governing State authority.
      c. If unsafe, disinfect and resample.
   3. Water samples for other analysis.
      a. To be taken by others.

B. Reports
   1. Submit one copy of following to governing State agency:
      a. Well constructor's report.
   2. Submit one copy of following to Owner's representative:
      a. Well constructor's report.
      b. Pump test report on approved form.
      c. Plumbness and alignment report as authorized by the Engineer.
      d. Driller's log including data on construction progress, formations, water levels, and sampling.

C. Materials Documentation
   1. Grout:
      a. Furnish certificate from supplier attesting to:
         1) Design mix.
         2) Water cement ratio.
         3) Type of cement.
         4) Admixtures and quantity added.

1.5 JOB CONDITIONS

A. Test Well Data
   1. Data on a nearby test well is available upon request.

PART 2 - PRODUCT

2.1 CASING AND LINERS

A. Protective casing shall be new prime steel pipe meeting one of the following standards.
   1. ASTM A53
   2. ASTM A106
   3. ASTM A589:
      a. Type I, Grade A or B.

b. Type II, Grade A.

B. The protective casing shall have the following minimum weights and thicknesses.

Size (Inches) External	Diameter (Inches) Internal	Thickness (Inches)	Plain Ends (Pounds/Foot)
6	6.625	6.065	0.280	18.97
8	8.625	7.981	0.322	28.55
10	10.750	10.020	0.365	40.48
12	12.750	12.000	0.375	49.56
14	14.000	13.250	0.375	54.57
16	16.000	15.250	0.375	62.58
18	18.000	17.250	0.375	70.59
20	20.000	19.250	0.375	78.60
24	24.000	23.000	0.500	125.49

2.2 CEMENT GROUT

A. All cement shall be ASTM C150.

B. Neat Cement Grout
1. Not contain more than six gallons of water per sack (94 lbs.) of cement.
2. Additives shall not be used unless authorized in advance of time for grouting.

2.3 CHLORINE

A. Chlorine compounds shall meet AWWA B-300.

B. The following chlorine compounds are approved for use during well construction and for disinfection.
1. Calcium Hypochlorite (HTH).
2. Sodium Hypochlorite.

PART 3 - EXECUTION

3.1 GENERAL

A. Protect well and aquifer from following:
1. Contaminated water.
2. Oil, fuel, chemicals, and bacteria.
3. Tampering.

B. Perform work in a manner to avoid breakdown or caving-in of formations.

C. Unattended wells shall be capped at all times.

D. Completed wells shall have a steel plate tack welded to top of inner casing:
   1. Tack at a minimum of four locations.
   2. Overlap casing a minimum of ½ inch around the perimeter.

E. Aids and additives for drilling and development may be used only when authorized by Owner's representative, and at no time shall they be used within the screened interval.

F. Unacceptable Water Supply
   1. In the event that water of acceptable quality cannot be obtained due to unforeseen contamination encountered through no fault of the Contractor and reasonable efforts to locate and remove source of contamination are unsuccessful, this contract shall be considered complete provided that all other provisions of specifications are met.

3.2 WELL CONSTRUCTION SITE

A. Protection of the Site
   1. Protect all structures, walks, pipelines, trees, shrubbery, lawns, etc. during the progress of his work.
   2. Remove drill cuttings, debris, and unused materials.
   3. Upon completion of work restore site to its original conditions.

B. Mud Pond and Storage Pond
   1. Provide a mud and waste pond and allow only clear water to overflow:
      a. Point of discharge shall be as approved by Owner's representative.
      b. Line pond to prevent seepage into ground.
   2. Provide a water storage pond and water supply when required.
   3. Ponds shall not be located on location of proposed building or utilities.
   4. Dispose of excess mud and wastes from ponds an approved site as required.
   5. Ponds shall be filled in upon completion of well construction in a manner approved by the Owner's representative.

3.3 WELL GROUTING

A. Notify and submit the proposed grouting method to Owner's representative 48 hours prior to the anticipated grouting time and notify the Governing Authority.

B. Grouting shall not proceed unless Owner's representative is at the site.

C. Place grout in one continuous operation with a grout pump.

D. Grout shall be passed through a screen with openings which do not exceed one-half inch in size.

E. Grout shall be pumped in place through a steel tremie pipe (1½" minimum) placed to bottom of annular opening or grout shoe.

F. Pumping of grout shall continue until consistency of grout overflowing is equal to that being installed.

G. If grout settles, additional grout shall be added to refill annular opening.

H. Allow to set for 72 hours before continuing work.

I. Provide a "mud balance" to determine grout consistency.

3.4 CLEANING AND DISINFECTION

A. A chlorine residual of at least 10 parts per million shall be maintained in well throughout construction period.

B. Any water used in well construction shall contain a chlorine residual.

C. After well construction is completed, well shall be cleaned of oil, grease, and foreign materials.

D. Prior to test pumping the well shall be disinfected.
1. A chlorine solution shall be added to the well so the concentration throughout is 50 to 100 parts per million the well.
2. The casing and well above the water level shall be rinsed or brought into contact with the chlorinated water.
3. Additional chlorinated water shall be added to the well to force the solution through the screen and into the formation.
4. The chlorine solution shall remain in the well for a minimum of 12 hours.
5. The Owner's representative shall be contacted for chlorination of flowing wells.

E. The test pump should be disinfected as it is installed in the well.

3.5 PLUMBNESS AND ALIGNMENT TESTING

A. Wells in unconsolidated formations which are less than 100 feet in depth are exempt from testing.

B. Final plumbness and alignment test shall be conducted per NR812 and AWWA100, in the presence of Owner's representative.

C. Plumbness and alignment shall be tested by lowering a 40-foot dummy to a depth greater than the lowest anticipated pump setting.
1. Outer diameter of dummy shall not be more than ½ inch smaller than the diameter of casing or hole being tested.
2. Dummy shall consist of a rigid spindel with three rings, each ring being 12 inches long.
   a. Rings shall be cylindrical and shall be fastened at the ends and center of spindel.

D. Tolerances
   1. Dummy shall move freely throughout the length of the casing or hole to the required depth.
   2. Well shall not vary from the vertical in excess of two-thirds the smallest inside diameter of that part of the well being tested per 100 ft. of depth.
   3. Plumbness and alignment exceeding tolerances shall be corrected, failure of correction shall be cause to reject well.

3.6 WELL PERFORMANCE TESTING

A. Wells shall be test pumped as described in the section: "Well Performance Testing."

3.7 WELL ABANDONMENT

A. Wells, test wells, and other temporary wells to be abandoned shall be sealed with material and procedures required by governing authority.

B. A report shall be made to the governing authority for every well which has been abandoned or temporarily removed from service and include:
   1. Detailed description of location, construction, and geologic features.
   2. Method of sealing.

3.8 SAFETY AND RELATED MATTERS

A. Comply with all federal, state, and local rules and regulations concerning:
   1. Construction safety.
   2. Noise control.
   3. Dust and smoke control.

B. Access to Public Services
   1. Insure free access to all fire hydrants, valve boxes, manholes, curb stops, fire alarms, police call boxes.

C. Protection of Work, Public and Property
   1. Provide safe passage for local traffic, pedestrian and vehicular.
   2. Provide access to properties abutting street where well is being constructed.
   3. Provide all necessary barricades, warning lights, and signs, signals, flagmen, etc. in accordance with federal, state, and local regulations.
   4. Obtain and comply with required permits.
   5. Machinery, equipment, and hazards shall be guarded in accordance with federal, state or local regulations.
   6. Excavations and trenching shall be made in accordance with safety practices formulated and enforced by federal, state, and local regulations.
   7. Notify police or sheriff's department and fire department before blocking off street, highway, alley or public thoroughfare.

3.9 EXISTING UTILITIES AND STRUCTURES

A. When existing utilities and structures are indicated on drawing, it should not be assumed that all existing utilities and structures are shown.
   1. The location of existing utilities and structures when given are plotted on the drawings for information to the Contractor, but is not to be construed as a representation of the actual location.
   2. Contractor shall be responsible for injuries and damage to any structures, facilities, utilities, and public or private property resulting from construction and testing of wells.

3.10 PROTECTION OF ESTABLISHED PROPERTY MARKERS

A. Protect all property markers (iron pipe, concrete or wood posts, etc.) from movement from original position.

B. Cost of replacement of property markers moved during construction shall be at Contractor's expense.

3.11 CLEANING OF PROJECT SITE

A. Work Site
   1. Keep the site of the work including all private or public property involved in or adjacent to the work, free from any rubbish, surplus or waste materials deposited or which have accumulated as a result of the work.
   2. Remove all materials, tools, and equipment leaving the site of the work clean, unobstructed and ready for use.

- END OF SECTION -

Appendix F-2

Well Performance Testing

WELL PERFORMANCE TESTING

PART 1 - GENERAL

1.1 DESCRIPTION

A. This section describes method and equipment required for test pumping wells.

1.2 QUALITY ASSURANCE

A. A chlorine residual shall be available in the well during installation of test pumping equipment.

1.3 SUBMITTALS

A. One copy of discharge and drawdown data to Owner's representative.

1.4 WELL DESIGNATION

A. Well A - Potable Well

B. Well B - Non-potable Well

C. Well C - Mitigation Well

PART 2 - PRODUCTS

2.1 EQUIPMENT

A. Pump and Piping
   1. Provide necessary discharge piping complete with valve for throttling.
      a. Shall be of sufficient size and length to conduct flow to discharge point.
   2. Set well pump to depth of:
      a. Well A: 165 feet
      b. Well B: 175 feet
      c. Well C: 35 feet
   3. Provide power source of sufficient horsepower to meet requirements.
      a. Silencers shall be required.
   4. Provide check valve at top of pump bowls.

B. Measuring equipment to determine the flow and depth of water.
   1. Pipe orifice and manometer or water meter.
   2. Air line to bottom of test pump or an electric water level indicator.
   3. Gauge, air tank or air compressor to check air line readings.

C. Sample Tap
   1. Provide smooth end, downward opening tap in discharge piping at the well.

PART 3 - EXECUTION

3.1 TEST PUMPING

A. Perform test pumping after completion of cleaning.

B. Pump at a rate of Well A: 200 gpm, Well B: 400 gpm, Well C: 200 gpm or maximum capacity of well, whichever is less.
   1. Water level shall not be lowered below top of screen.

C. Provide drawdown and discharge readings at:
   1. One minute intervals for first 5 minutes.
   2. Five minute intervals for next 25 minutes.
   3. No more than ½-hour intervals for the balance of the test.
   4. Record on approved forms.

D. Preliminary Test Pumping
   1. Conduct for a minimum of 2 hours.

E. Final Test Pumping
   1. Conduct for a minimum of 12 hours.

F. Recovery Readings
   1. Conduct for a minimum of 1 hour after the pump is stopped.

G. Disposal of Water
   1. Point of discharge shall conform to following:
      a. Locate in an area which will prevent recharge of well.

- END OF SECTION -

Appendix F-3

Gravel Pack Well

GRAVEL PACK WELL

PART 1 - GENERAL

1.1 DESCRIPTION

A. Work under this section covers construction of gravel pack wells in unconsolidated formations.

1.2 QUALITY ASSURANCE

A. Contractor shall be responsible for selection of screen opening size, screen strength, and gravel pack gradation.
   1. Samples of formation for sizing shall be obtained during drilling.
   2. Provide Owner's representative with screen and gravel pack data prior to installation.

1.3 SUBMITTALS

A. Testing Results
   1. One copy of certification of gravel pack material showing gradation and percent of calcareous material.

PART 2 - PRODUCT

2.1 SCREENS

A. Screen material and fittings shall be type 304 stainless steel unless otherwise specified.

B. Screen to be stainless steel welded construction.

C. Bottom plate and fittings to be of same material as screen.

D. Telescopic size screens shall be attached to casing with a Johnson Division, or equal, Fig. K packer.

E. Openings shall be slots which are continuous around circumference of screen and widen inwardly.

F. Slots shall have close spacings to provide maximum percent of open area.

G. Entrance velocity of water shall not exceed 0.1 foot per second and head loss shall be minimal.

H. Screens to be Johnson Division, UOP, or equal.

2.2 GRAVEL PACK MATERIAL

A. Material
1. Gravel pack material shall be clean with well rounded grains that are smooth and uniform.
2. Material shall be mostly acid resistant siliceous particles.
3. Calcareous material shall be limited to 5 percent.
4. Material shall be free from shale, anhydrite, and gypsum.

B. Gradation of Material
1. Gradation of material shall be from sieve analysis curves of aquifer material.
2. The uniformity coefficient shall be less than 2.5.

C. Handling
1. Deliver and store in such a manner that material shall be kept clean and free from debris.

PART 3 - EXECUTION

3.1 WELL CONSTRUCTION

A. Outer Casing(s)
1. Install to depth as approved by Engineer and extend a minimum of 2 feet above existing ground.
2. Additional casings of larger diameter may be used in a telescoping manner prior to installation of outer casing.
3. Casing which is driven shall be equipped with drive shoe.
4. Outer casing shall be withdrawn during grouting.

B. Intermediate (Protective) Casing
1. Install to depth of as approved by Engineer and extend a minimum of 2 feet above existing ground.
2. Casing shall have minimum thickness as specified in section "General Provisions for Well Construction".
3. Casing shall be equipped with drive shoe if driven.
4. Depending on conditions, casing may have to be partially removed to expose screen and gravel pack.

C. Inner Casing and Screen
1. Install to depth as approved by Engineer and extend a minimum of 2 feet above existing ground.
   a. Casing shall have minimum thickness as specified in section "General Provisions for Well Construction."
2. Casing and screen shall be plumb.
3. A ½ inch steel plate shall be welded between inner and protective casings.
   a. Gravel fill pipes shall be welded to plate.
   b. An opening shall be made for observation pipe.

4. Screen shall be fitted and installed on inner casing.
   a. Centering guides shall be attached to screen to maintain it concentrically within protective casing until gravel pack is in place.
   b. Actual screen length will be determined after formation samples have been analyzed.

D. Observation Pipe
1. Suspend an observation pipe in the annular opening to depth shown.
   a. Pipe to be 1¼ inch, Schedule 80 PVC.
   b. Sand point to be 3 foot long stainless steel.

E. Gravel Pack Placement and Casing Removal
1. Fill annular space between casing and screen with selected gravel pack as casing is withdrawn.
   a. Gravel shall be placed with a tremie pipe.
2. Level of gravel shall be kept at least 10 feet above the bottom of casing to prevent heaving of native formation into gravel wall.
3. Gravel shall be brought up to ground surface.

F. Grout Placement
1. Install impervious seal at bottom of annular opening as shown.
2. Commence placement of grout.
3. Maintain grout at least 10 feet above bottom of casing to prevent native formation from slumping into grout or gravel pack while withdrawing outer casing.

3.2 WELL DEVELOPMENT AND TEST PUMPING

A. Start development of well only after grout has set for 72 hours.
1. Continue development until well is free of sand.
2. Well will not be considered fully developed until sand free.
3. The installation of hexametaphosphate is part of the development.

B. Hydraulic jetting is to be the method used for development.
1. Minimum jet velocity shall be 150 feet per second with jets less than one inch from screen.
2. Jetting tool shall be slowly rotated.
3. Jetting shall be from bottom of screen upward.
   a. Tool shall be positioned at one level for a minimum of 2 minutes and raised a maximum of 6 inches between levels.
4. Water shall be removed from well at a rate in excess of rate of injection.
5. Extreme care must be practiced to avoid damage to screen.

C. Test pump in accordance with Section "Well Performance Testing".

- END OF SECTION -

Appendix G

Drawdown Due to Proposed Non-Potable Water Supply Wells

HSI GEOTRANS
A TETRA TECH COMPANY

1080 Holcomb Bridge Road
Building 100, Suite 190
Roswell, Georgia
30076

770-642-1000 FAX 770-642-8808

MEMORANDUM

TO: Jerry W. Sevick, Foth & Van Dyke

FROM: Greg Council GMC

DATE: December 16, 1998

SUBJECT: Drawdown Due to Proposed Non-Potable Water Supply Wells
HSI GeoTrans Project No. N015-027

Nicolet Minerals Company is proposing to draw groundwater from three wells near the proposed copper and zinc mine near Crandon, Wisconsin. One of the wells would be located near the proposed Tailings Management Area (TMA), a second north of Swamp Creek, and a third northwest of Little Sand Lake (Figure 1). The TMA well water would be non-potable (primarily to be used for soil washing), while the northern well would be of a quality suitable for surface water mitigation. The third well would be used to provide potable water to the project site. This latter well is included as a stress in the regional groundwater flow model and therefore is not discussed further in this memorandum. This memorandum presents the results of two model simulations that show the extent of groundwater drawdown caused by each of the first two proposed wells.

TMA Non-Potable Well

The TMA non-potable well would be pumped intermittently as follows:

100 days at 200 gpm (12 hrs/day)
40 days at 300 gpm (12 hrs/day)

This cycle would occur approximately every three years. The regional groundwater flow model (HSI GeoTrans, August 1998 *Addendum No. 2 to Numerical Simulation of the Effect on Groundwater and Surface Water of the Proposed Zinc and Copper Mine Near Crandon, Wisconsin*) was used to simulate the 140-day pumping period for this well, using the average

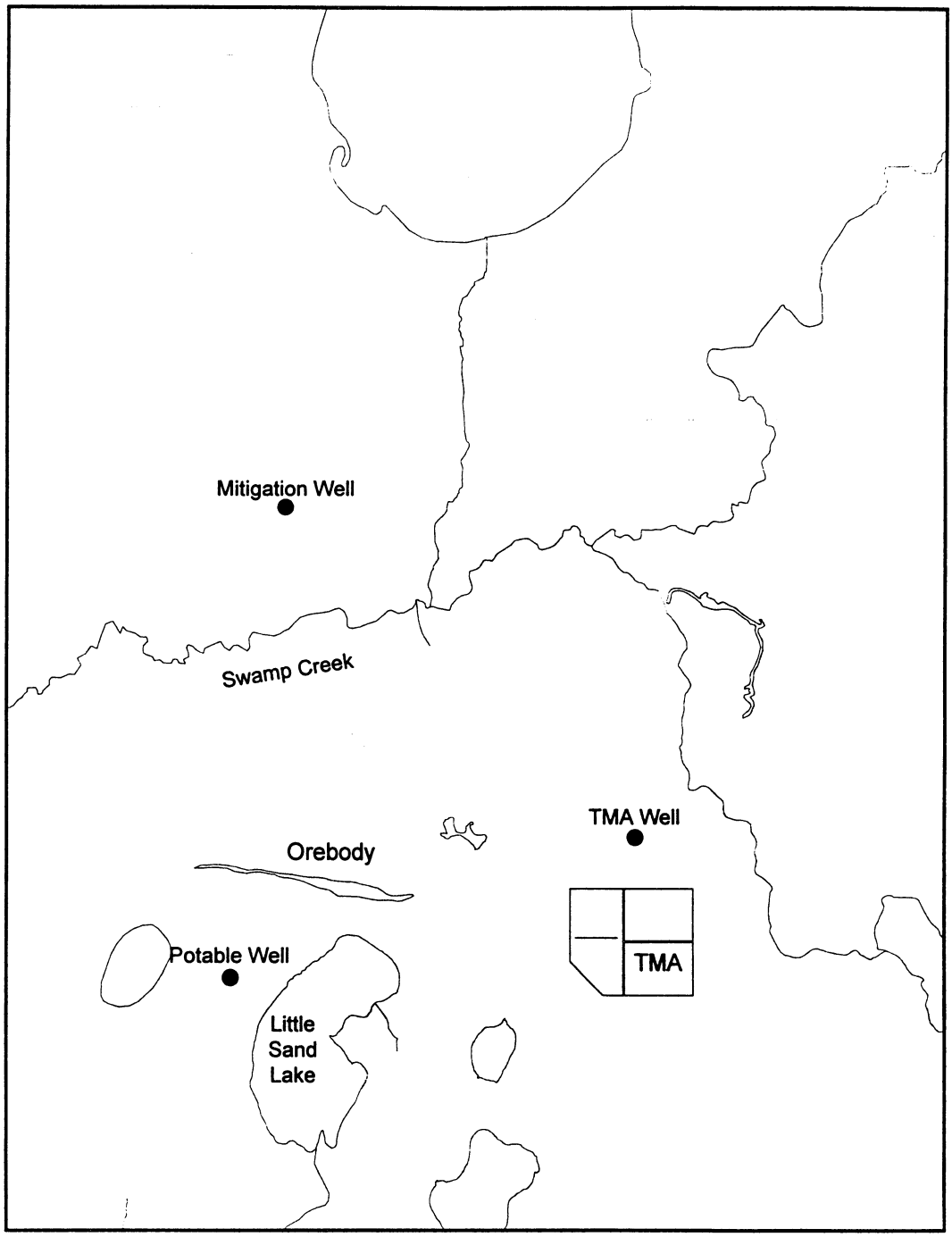
continuous withdrawal rate of 114 gpm (21,900 ft^3/d). Pumping was simulated in model layers 2 and 3, which primarily contain fine- and coarse-grained outwash. Best Engineering Judgement (BEJ) values were used for all hydrogeologic parameters, and the starting conditions were taken from the steady-state simulation of zinc mining (Simulation 49N).

Figure 2 shows the modeled drawdown due to 140 days of pumping in the transient simulation. At distances greater than 2300 feet from the well, the modeled drawdown is less than 1 foot. The expected three-year cycle would allow water levels to fully recover before the next 140-day pumping period begins. Maximum drawdown near the well is 6.9 feet. The 2-foot contour extends out a distance of approximately 550 feet from the well.

Mitigation Well

The proposed mitigation well will provide approximately 45 gpm (8,600 ft^3/d) over a three month period to Level I and II hard water bodies. The regional groundwater model used in the analysis of the TMA well (above) has coarse grid spacing in the area of this well. Therefore, a new model was constructed for analysis of this well using finer grid spacing, but covering a smaller domain (Figure 3). A simple uniformly-layered model was used for this analysis, with a constant-head boundary condition applied at a distance of 2500 feet from the well. By taking advantage of the problem's symmetry, only 1/4 of the domain was included in the model. Two outwash layers were simulated with geometry and hydraulic properties taken directly from the (BEJ) regional groundwater model. Note that the upper (Late-Wisconsinan) till layer is not generally present in this portion of the site, and that the lower (Pre- to Early-Wisconsinan) till and bedrock are not likely to affect the shape of the drawdown cone. Precipitation recharge is set to the default value of 9.7 in/yr (2.215E-03 ft/d) and the pumping is simulated in layer 2.

Figure 4 shows the predicted drawdown after 3 months of pumping (the results have been superimposed on a site map to show the modeled drawdown cone diameter in relation to the distance to area creeks). At distances greater than 260 feet from the well, the predicted drawdown is less than 1 foot. Maximum drawdown at the well is 2.7 feet. The 2-foot contour extends out a distance of approximately 50 feet from the well.



0 4000 8000

Scale in Feet

N

HSI GEOTRANS

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APPROVED BY:	DATE:

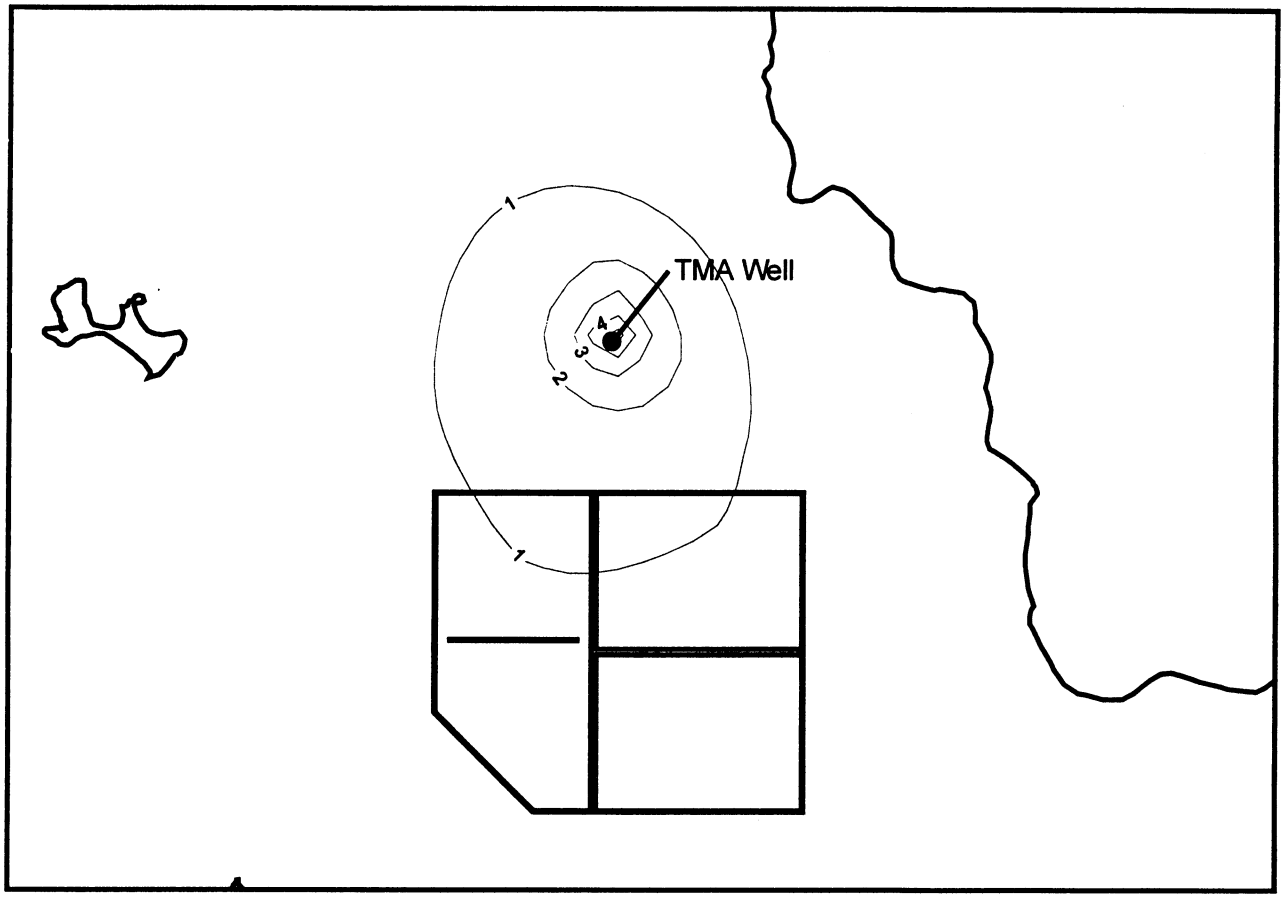
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Figure 1
Locations for Proposed Water-Supply Wells

Scale: 1 in. = 4000 ft. | Date: Dec 1998

Prepared By: HSI GeoTrans | By: GWC

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Notes:
Drawdown Contour Interval = 1 ft
Well Located at 2284882E, 117375N (Row 50, Col 111)
Pumping in Outwash (Layers 2 & 3)
Drawdown in Layer 2 is shown
Maximum Drawdown Modeled = 6.9 ft

N

0 1500 3000

Scale in Feet

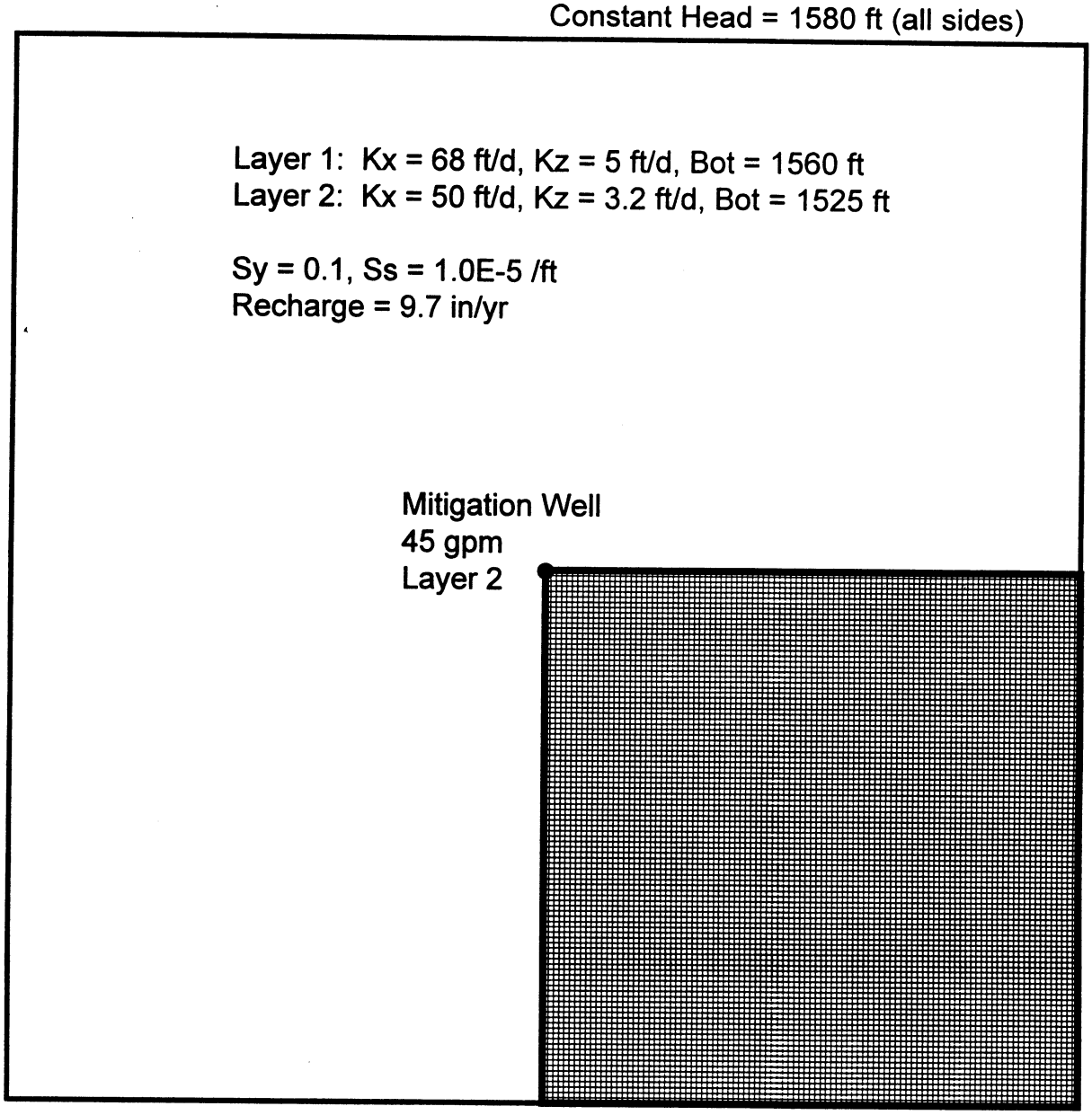
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Simulation 49W	APPROVED BY:			DATE:

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Figure 2
Modeled Drawdown after 140 days of Pumping at Proposed TMA Well

Scale: 1 in. = 1500 ft.	Date: Dec 1998
Prepared By: HSI GEOTRANS	By: GWC

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0 800 1600

Scale in Feet

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Figure 3

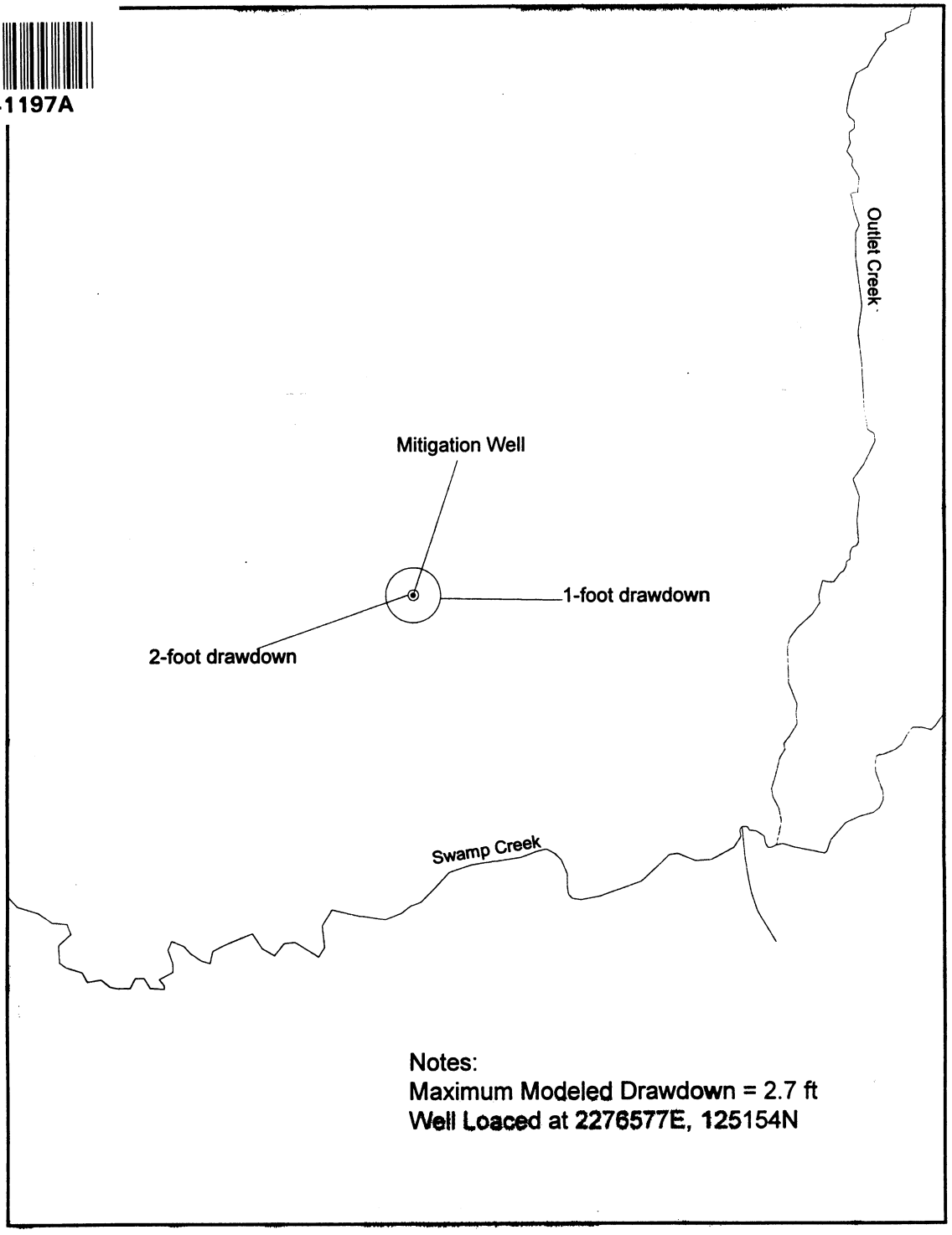
Model Construction for the Analysis of the Proposed Mitigation Well

Scale: 1 in. = 800 ft. | Date: Dec 1998

Prepared By: HSI GeoTrans | By: GWC

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0 1500 3000
Scale in Feet

N

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APPROVED BY:			DATE:

Nicolet Minerals COMPANY

Figure 4
Modeled Drawdown at the Proposed Mitigation Well after 90 days

Scale: 1 in. = 1500 ft. | Date: Dec 1998
Prepared By: HSI GeoTrans | By: GWC

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