

WATER PERMIT NO. 6420-3

Name of Applicant: Madison Golf & Country Club

Address: 1428 NE 4th St, Madison SD 57042 Phone: 605 256-9624

Amount of Water Claimed: 0.67 cfs Total Acres: 50 acres

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation County: Lake

Type of Waste Disposal System:

Location: North side of Lake Herman

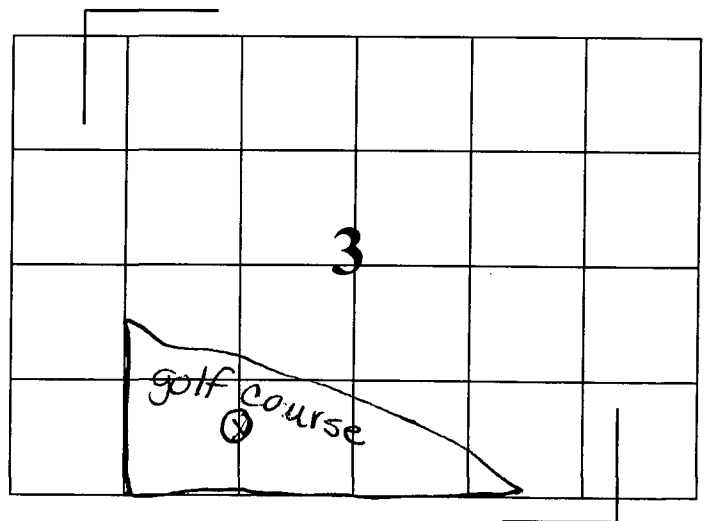
PRIORITY Date Received: 5-27-03 Application/License Fee: \$200

Corrected Application Received: Period of Annual Use: March 15 – November 15

Remarks: Well water will be used to fill a 1.4 acre pond. Water will be pumped from the pond to irrigate portions of the golf course.

Diversion Point: S ½ SW ¼ Sec 3-T106N-R53W

Land to be Irrigated: SW1/4, S ½ SE ¼, Sec 3-T106N-R53W



Depth of Well: 300 feet deep

Well Driller: :

Remarks:

Type of Map: topo

Prepared by: Charles Leleedy

Reviewed and the Number Assigned on: 5-27-03

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	(office use only)	
	No. <u>6420-3</u>	Hydrologic Unit <u>10170203</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Daily Leader, Madison</u>	

RECEIVED
MAY 27 2003
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.) Want to drill well to fill newly constructed irrigation pond.

- Name of Applicant Madison Golf & Country Club/Bill Stromberg Phone (605) 256-9624
(check one) ☐ Owner ☐ Tenant/lessee
- Mailing Address 1428 NE 4th St Madison State SD 57042
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 0.67 *CFS or 300 **GPM ***AF Total Acreage 48-50
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 1 well SW1/4-3-106-53
2 3/4 miles west of Junction 81 & 34 Hwys in Madison
1/4 mile south of Hwy 34 S 1/2 SW 1/4 Sec 3-T106N-R53W County Lake
- County or counties where water will be used Lake
- Annual period during which water is to be used April thru October March 15 thru Nov. 15
- List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
<u>Putting Greens & Surrounding Area</u>	<u>2.35</u>	<u>Fairways 1-9</u>	<u>14.40</u>
<u>Tee Boxes & surrounding Areas</u>	<u>1.85</u>	<u>Fairways 10-18 & Range</u>	<u>21.63</u>

- Give a description of the project. (Attach sheet if more space is needed)
1.4 acre pond is constructed on the area designated on the map
And one 300gpm capacity well to fill the pond, then a separate pump station
will draw the water out of the pond and into the irrigation system, onto the golf
COURSE.
MAX. Pumping Ability of 800 GPM

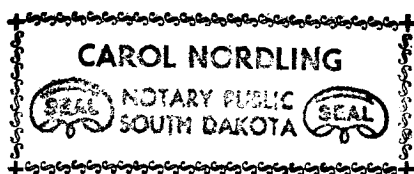
STATE OF SOUTH DAKOTA) SS
County of Lake

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

I, Bill Stromberg (MCC.), the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Bill Stromberg Bill Stromberg

Subscribed and sworn to before me this 14 day of MAY 20 03



CAROL NORDLING
Lake County, South Dakota
My Commission Expires 6-9-05

Notary Public signature

SOUTH DAKOTA
WATER PERMIT NO. 6420-3

Date of first receipt of application May 27, 2003.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6420-3 to Madison Golf & Country Club, 1428 NE 4th St, Madison SD 57042 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 6420-3 appropriates 0.67 cubic feet of water per second (cfs) from one well (Howard Aquifer) 300 feet deep to fill a 1.4 acre storage pond both located in the S ½ SW ¼ Section 3-T106N-R53W. Water will then be diverted from the pond at a rate of 1.78 cfs to irrigate approximately 50 acres of the golf course located in the SW ¼, S ½ SE ¼ Section 3-T106N-R53W. This permit supplements Water Right No. 5336-3 which authorizes irrigation of the same golf course acreage from Lake Herman.
2. The amount of the appropriation may not exceed 3 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: March 15 – November 15.
3. The date from which applicant may claim right is May 27, 2003.
4. The date of approval of Permit No. 6420-3 is August 8, 2003.
5. One-fifth of the construction is to be completed on or before February 8, 2006.
6. All construction is to be completed on or before August 8, 2008.
7. Water is to be put to beneficial use on or before August 8, 2012.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

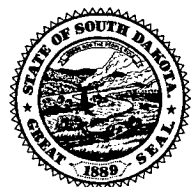
1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6420-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to ARSD 74:02:04:28.
3. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 6420-3 authorizes a maximum diversion rate from the pond of 1.78 cfs for the irrigation of 50 acres with an annual volume not to exceed 3 acre-feet of water per acre per year.
4. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: Garland Erbele
Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

AUG 28 2003

date



(Complete applicable portions only)

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 12" Depth 300'
- b) Casing Type Plastic Diameter 8" Thickness _____
- c) Screen Type Plastic Diameter 8" Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:

On applicants property Disbanded-400 yds On property owned by others None

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) _____
- b) System Capacity (gallons) _____ Year Constructed _____
- c) Connected to the City of _____ Sanitary System _____

3. Dugout Information

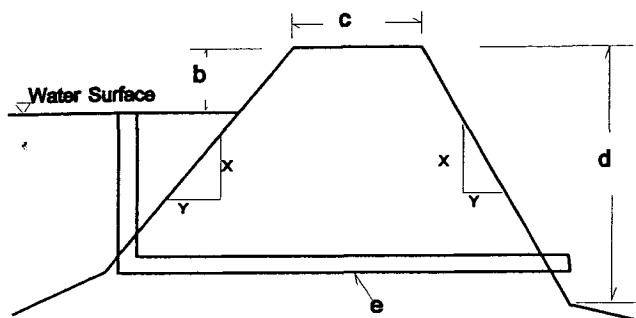
- a) Surface Dimensions 62,000 sq ft 1.4 acres Depth 12 Feet
- b) Depth to water (ground surface to water level) 4 to 1 back slope 2 to 3 Feet to water surface

4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

US Army Corp of Engineers



- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage [redacted] Acre Feet
- j) Drainage Area Above Dam [redacted] Acres

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date May 27, 20 03

RECEIVED OF Madison Country Club, PO Box 254, Madison SD 57042

The following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>6420-3</u> to Appropriate Water, to construct and to put water to beneficial use	150	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>6430-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	200.00

No.

000725

By

Darland Erbe
Chief Engineer *gm*

NOT TO SCALE

NOS. 547-3, 4313-3, 5336-3

MADISON COUNTRY CLUB

MADISON, SD

DRAWN BY: GREGORY C. JOHNSTON

Gregory C. Johnston

Natural Resources Engineer

Water Rights Division, DENR

3/11/92

No. 5336-3

Net SW 1/4 = 17 acres

SW¹/₄ SW¹/₄ = 35 acres

SE 1/4 SW 1/4 = 11 acres

Total = 63 acres

No. 4313-3

SE $\frac{1}{4}$ SW $\frac{1}{4}$ = 9 acres

NE $\frac{1}{4}$ SW $\frac{1}{4}$ = 2 acres

Total 11.0 acres

NE¹/₄ SW¹/₄ = 2 acres

HEL 3

NW¹/₄ SW¹/₄ = 17 acres

LOT 1 or (NE 1/4 SE 1/4 of SW 1/4) = 19 acres

NE $\frac{1}{4}$ SW $\frac{1}{4}$ = 5 acres

SE $\frac{1}{4}$ SW $\frac{1}{4}$ = 15 acres

Mananed
Creek

LOT 11
(20.9)

~~SW 1/4 SE 1/4 = 30 acres~~

~~45 SW 4 = 35 acres~~

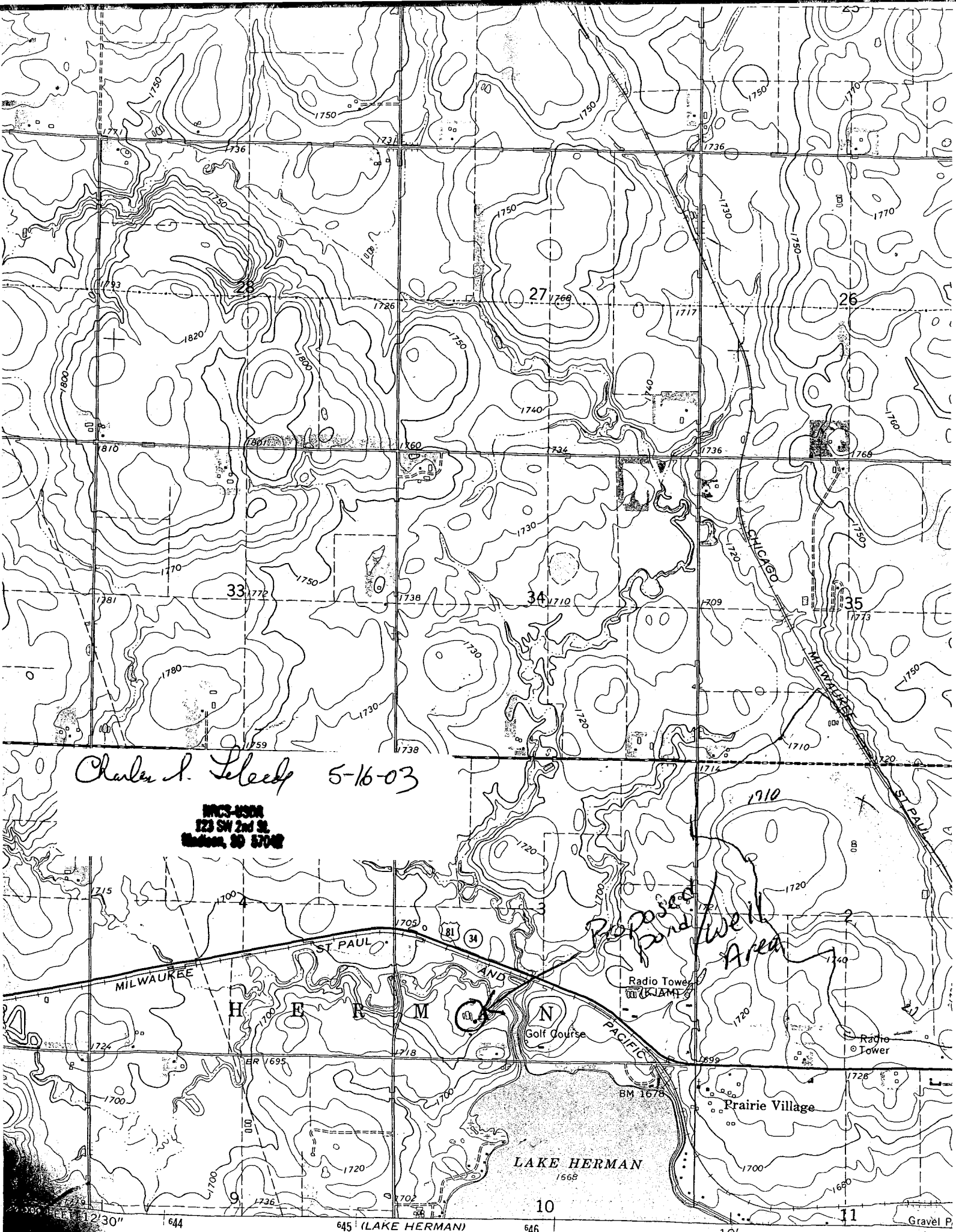
5336-3

SE¹/₄ SW¹/₄ -

77 = 11 acres

55/4 56/4

= 100



Charles J. Leedy 5-16-03

NRCS-NDNR
123 SW 2nd St.
Madison, SD 57002

Proposed Pond/Well Area

6420-3

Recharge to the Rutland and Ramona aquifers is by leakage from the till. Water-level fluctuations from observation wells in the Rutland aquifer (fig. 12) indicate that there are seasonal changes in recharge, however, the recharge area is probably in Brookings County (fig. 1). Water-level fluctuations from observation wells in the Ramona aquifer do not indicate seasonal changes in recharge. Discharge from the aquifers is from domestic and stock wells.

Predominant chemical constituents in water from the Rutland aquifer are calcium, sulfate, and bicarbonate. Specific conductance, determined by onsite analyses, in water from the Rutland aquifer ranged from 2,270 to 2,690 $\mu\text{mhos/cm}$ and averaged 2,430 $\mu\text{mhos/cm}$. Hardness concentration, determined by onsite analyses, in water from the Rutland aquifer ranged from 1,330 to 1,900 $\mu\text{mhos/cm}$ and averaged 1,500 $\mu\text{mhos/cm}$. Laboratory analyses of water from the Rutland aquifer are given in table 5. Specific conductance of water from the Ramona aquifer, determined by onsite analyses, ranged from 1,500 to 3,600 $\mu\text{mhos/cm}$ and averaged 2,100 $\mu\text{mhos/cm}$. The average dissolved-solids concentration, calculated from the field specific conductance, in water from the Ramona aquifer was 1,360 mg/L. Hardness concentration of water from the Ramona aquifer, determined by onsite analyses, ranged from 620 to 2,600 mg/L and averaged 1,200 mg/L. Water from the Ramona and Rutland aquifers is used for domestic and stock purposes.

Howard aquifer

The Howard aquifer (fig. 15) ranges from a fine to medium quartzose sand in southeast Moody County to a medium to coarse sand and fine gravel in Lake and northern Moody Counties. The aquifer is composed of angular, coarse quartzose gravel in the northeast part of T. 105 N., R. 50 W. The aquifer is at about 1,400 ft above sea level and is overlain by as much as 470 ft of till. A geologic section of the aquifer is shown in figures 14 and 16. Hydrologic characteristics are given in table 3.

Recharge to the Howard aquifer in Lake and Moody Counties probably is by leakage from the till. Recharge to the aquifer by infiltration of precipitation through the till probably does not occur in Lake and Moody Counties because as much as 470 ft of till overlies the aquifer. The recharge area probably is north of the study area, in Kingsbury and Brookings Counties. Water-level fluctuations in observation wells in Lake and Moody Counties show seasonal changes in recharge and discharge. Results of test drilling suggest that the Howard aquifer and the quartzite wash aquifer may be hydraulically connected (fig. 15) in eastern Moody County.

The direction of water movement in the aquifer (fig. 17) is shown by arrows perpendicular to potentiometric contours. Movement in Lake County generally is from northwest to southeast, however, in southwest Lake County movement is southwest, into Miner and McCook Counties. The direction of water movement in Moody County is from north to south.

Discharge from the aquifer is: (1) To fractures in the Sioux Quartzite in southern Lake and Moody Counties and to the Dell Rapids quarry located 2 mi south of well 105N49W36DDDD; (2) from municipal wells, domestic wells, and uncontrolled, flowing stock wells in T. 105 N., R. 48 and 49 W.; and (3) by leakage to the underlying Niobrara aquifer in the southwest and central part of Lake County.

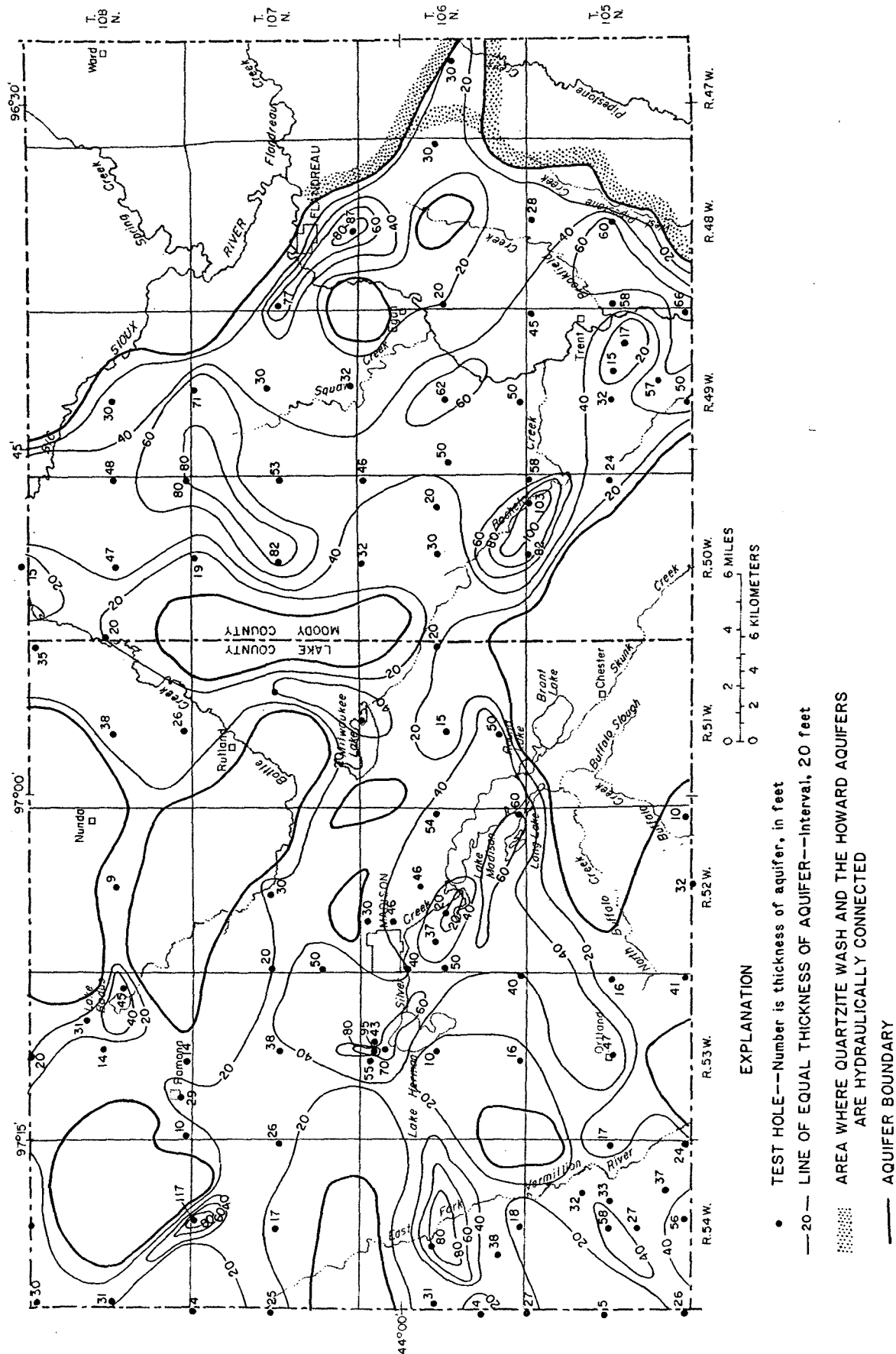


Figure 15.--Extent and thickness of the Howard aquifer in Lake and Moody Counties.

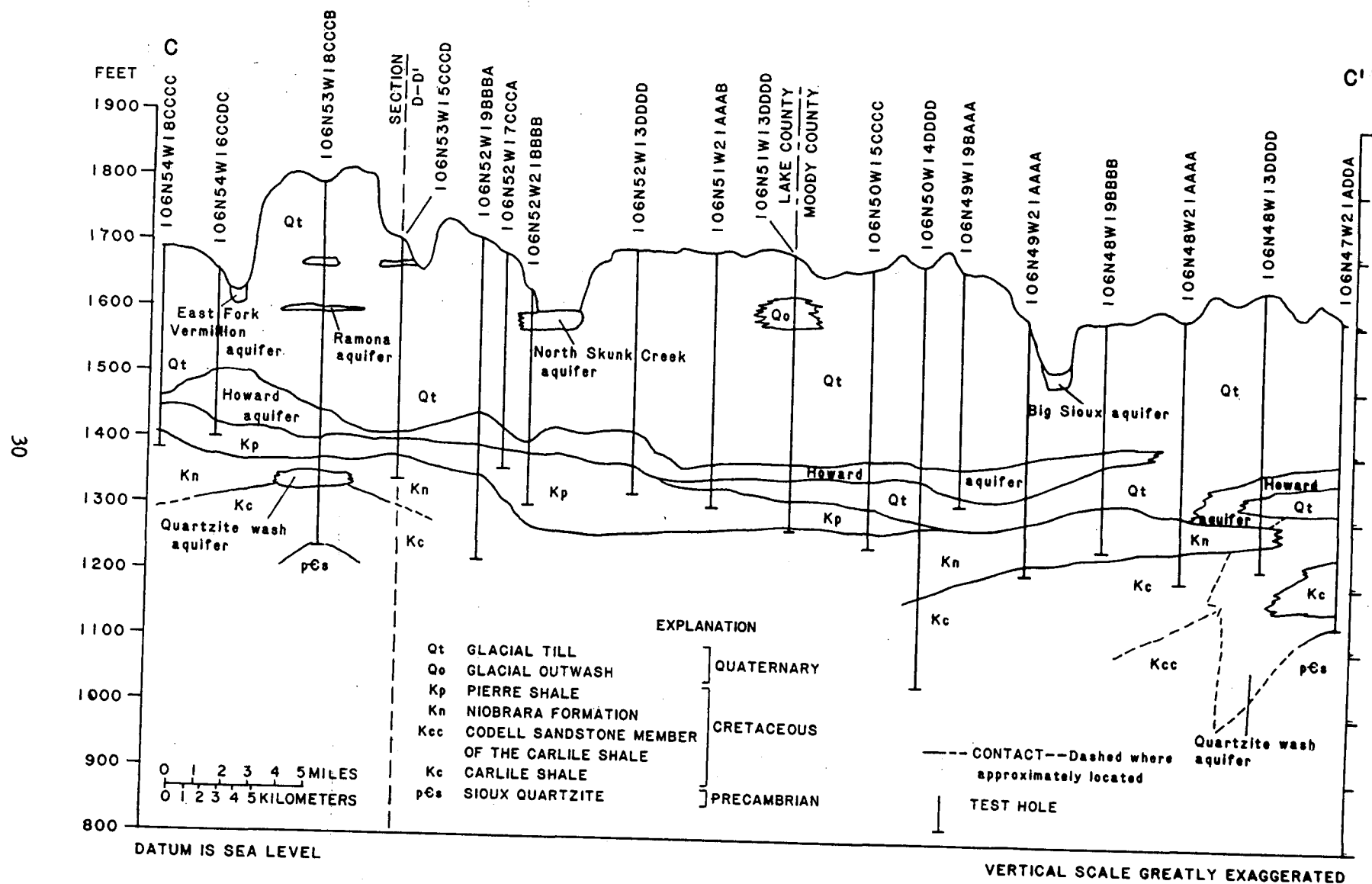


Figure 16.--Geologic section C-C' showing the Howard aquifer. (Section C-C' is shown in figure 2.)

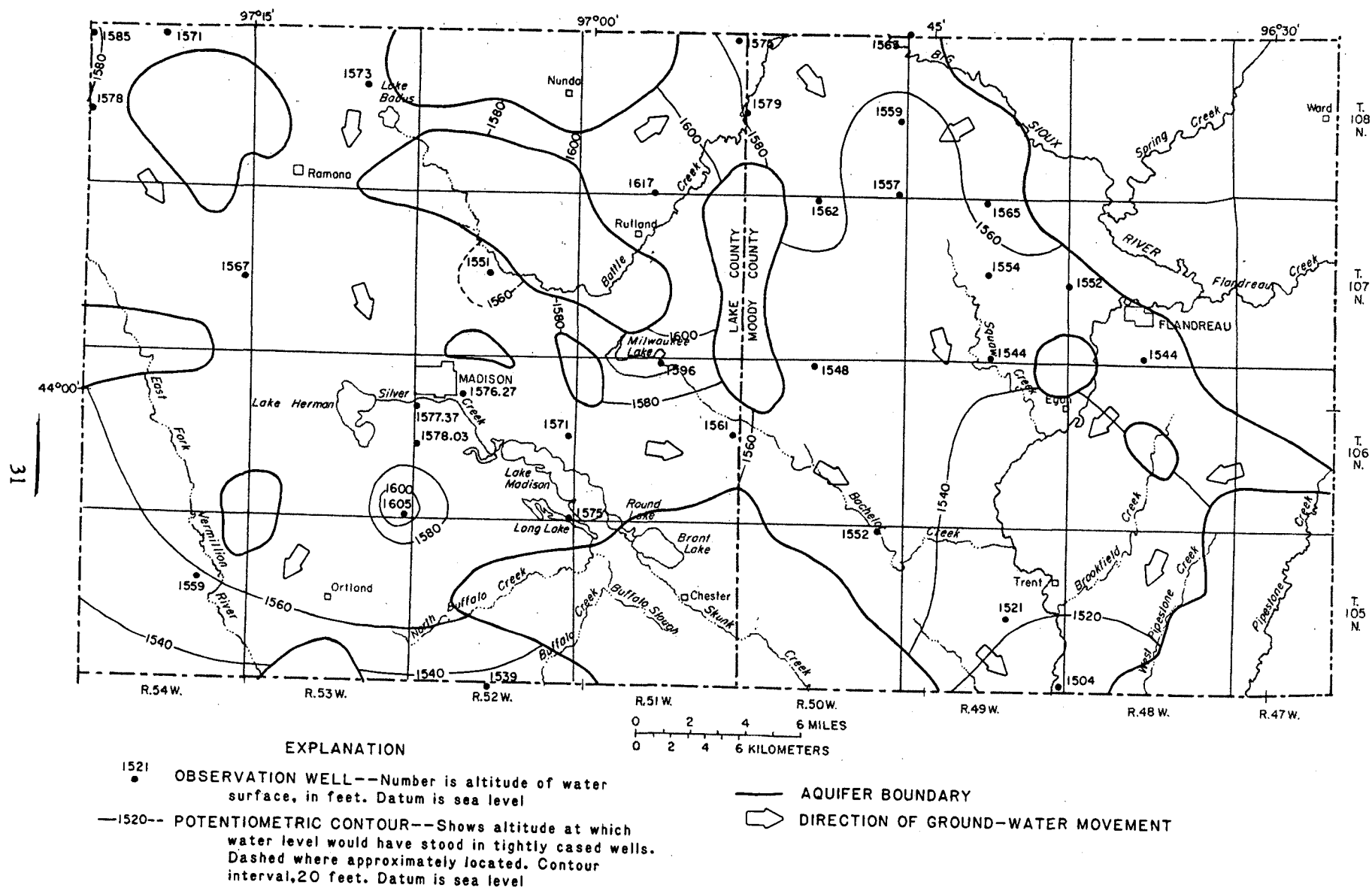


Figure 17.--Potentiometric surface of the Howard aquifer, October 1982.

Water-level fluctuations (fig. 18) are caused by seasonal changes in recharge and discharge. Water levels in observation wells generally rose from November 1981 to June 1982 because of recharge from snowmelt and spring rainfall. Below-average precipitation from April to May 1981 caused water levels to decline about 1.5 ft. Above-average precipitation from September to December 1982 caused water levels to rise about 0.5 ft.

Predominant chemical constituents in water from the aquifer are calcium and sulfate. Dissolved-solids concentration ranged from 964 to 5,520 mg/L and averaged 1,750 mg/L. Hardness concentrations ranged from 605 to 1,697 mg/L and averaged 1,050 mg/L. Dissolved sulfate concentration ranged from 500 to 1,600 mg/L and dissolved calcium concentration ranged from 160 to 350 mg/L. Water from the aquifer in southern Moody County generally had higher dissolved-solids concentrations. Dissolved sulfate concentration ranged from 900 to 1,500 mg/L and dissolved calcium concentration ranged from 240 to 350 mg/L. A summary of the chemical analyses of water from the Howard aquifer is given in table 4.

Water from the aquifer is used for domestic, municipal, and stock purposes. The water is of suitable quality for irrigation, based on South Dakota irrigation-water standards, revised January 1982. The average concentration of chemical constituents (table 4) in water from the Howard aquifer was used to plot the datum point on the South Dakota irrigation-water classification diagram (fig. 7).

Bedrock Aquifers

The bedrock aquifers in Lake and Moody Counties, in order of increasing age, are the Niobrara, Codell, and Dakota aquifers (fig. 19). These aquifers are absent in southeast Lake County and in the southern, eastern, and the northeast quarter of Moody County, where they pinch out against the Precambrian Sioux Quartzite. All of the bedrock aquifers are under artesian conditions.

During pre-Cretaceous time, the Sioux Quartzite was a topographic high and subject to erosion. Valleys as much as 600 ft were incised in the quartzite in southern Lake and Moody Counties. At the same time, either wave action or streams reworked sediment from the weathered quartzite and deposited coarse quartzose sand in the valleys and throughout the Cretaceous sediments. The quartzose sand was named the Sioux Quartzite wash aquifer (Hansen, 1983) in Hanson and Miner Counties and is referred to as the quartzite wash aquifer in this report. The aquifer is interbedded in the Cretaceous bedrock in southern Lake and eastern Moody Counties, thus, the age of the aquifer is pre-Cretaceous or Cretaceous, depending on the area.

Niobrara aquifer

The Niobrara aquifer in the Upper Cretaceous Niobrara Formation (fig. 20) is a fractured, dark gray to white, calcareous chalk that contains numerous solution cavities. Fractures in the Niobrara have developed enough in the southwest quarter of Lake County to provide sufficient water for stock and domestic wells. Local fractures and solution zones may be present in the aquifer in other parts of the county. The Niobrara aquifer is in hydraulic connection with the quartzite wash aquifer in eastern and northern Moody County (fig. 16). Hydrologic characteristics of the aquifer are given in table 3.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

JUN 12 1998

5336-3

Madison Country Club, Inc.
%Bill Stromberg
Box 254
Madison, SD 57042-0254

Dear Mr. Stromberg:

Enclosed is Water License No. 5336-3 and Receipt No. 415490 for \$50.00 which was assessed for an investigation and issuance of the license. Water License No. 5336-3 is the final document which completes the process of obtaining a water right.

As long as you use the water beneficially, as stated in the Water License, State Water Laws provide that you have a continuing right to use the water.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Program
(605) 773-3352

gm
enclosures

NOTE: The applicable portions of Water Permit No. 4313-3 have been incorporated into this Water License No. 5336-3.

Current Water Permit
450 GPM ^{AT} Total capacity
Source - Lake Herman

~~1605-229-8311~~

HURON DRILLING INC. DRILLERS LOG

PAGE NO.

Madison County
Club

Lake County

9/17/76

19

Steven

Kuehl

FOREMAN

JOB NAME

LOCATION

DATE

RIG NO.

#	DEPTH	TIME	Hole #1	REMARKS
1	0-20		0-4 Top soil, 4-12 Coarse yellow gravel, 12-20 blue clay.	
2	20-35		Blue clay	
3	35-50		Blue clay and streaks.	
4	50-65		Blue clay.	
5	65-80		Blue clay and streaks.	
6	80-95		Blue clay.	
7	95-110		Blue clay.	
8	110-125		Blue clay.	
9	125-140		Blue clay.	
10	140-155		Blue clay.	
11	155-170		Blue clay.	
12	170-185		Blue clay.	
13	185-200		Blue clay	
14	200-215		Blue clay.	
15	215-230		Blue clay	
16	230-245	TD 245	230-240 Blue clay, 240-245 Shale	
			Hole #2	
1	0-20		0-4 Top soil, 4-12 Yellow clay and gravel, 17-20 Blue clay	
2	20-35		20-30 Blue clay, 30-35 Coarse gravel.	
3	35-50		Blue clay and streaks (small)	
4	50-65		Blue clay.	
5	65-80		65-77 Blue clay, 77-80 Gravel.	
6	80-95		Blue clay.	
7	95-110		Blue clay and streaks	
8	110-120		Blue clay	
			Hole #3	
1	0-20		0-3 Top soil, 3-9 Yellow clay and gravel, 9-15 yellow gravel, 15-20 Blue clay	
2	20-35		20-24 Yellow sand, 24-35 Blue clay.	
3	35-50		Blue clay and a small streak.	
4	50-65		Blue clay and some streaks.	
5	65-80		Blue clay.	
6	80-95		Blue clay.	
7	95-110		Blue clay and streaks	
8	110-125		Blue clay with streaks on top.	

Schlaak, Karen

From: Gronlund, Eric
Sent: Wednesday, May 14, 2003 2:59 PM
To: Schlaak, Karen
Subject: Madison Country Club

Will be submitting an application from groundwater. The hold WR No. 5336-3 to irrigate 124.9 acres from Lake Herman. Their application is going to be for 50 acres of the tee boxes, greens and fairways. The 124.9 acres is what they own but they don't irrigate it all. They are also digging a pond so they'll fill out the dugout information. They are requesting 300 gpm from the well and I told him we also needed a diversion rate from the pond to the sprinkler system.

5/27/2003

REPORT ON WATER PERMIT NO. 6420-3
For Madison Golf and Country Club
June 26, 2003

Application No. 6420-3 proposes to appropriate 0.67 cfs (300 gpm) from one well approximately 300 feet deep to fill a 1.4 acre storage pond both located in the S $\frac{1}{2}$ SW $\frac{1}{4}$ of section 3, T106N R53W. The water will then be diverted from the pond at a rate of 1.78 cfs to irrigate approximately 50 acres of the golf course located in the SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ of section 3, T106N R53W all in Lake County. This application, if approved, will supplement Water Right No. 5336-3 which authorized irrigation of the same golf course acreage from Lake Herman. The applicant is requesting a diversion rate greater than the statutory limit of one cfs per 70 acres.

AQUIFER – HOWARD (HO)

The Howard is a buried outwash (sand and gravel) which is under confined or artesian conditions in this area. The aquifer underlies 675 square miles and contains an estimated 3.5 million acre-feet of water in storage in Lake and Moody Counties (Hansen, 1986). Ground water movement is from north to south across the area of this application. The aquifer extends into McCook and Minnehaha Counties to the south, into Miner County to the west and into Kingsbury and Brookings Counties to the north.

Test hole information supplied with the application does not indicate that the Howard aquifer is present at this site. However, it appears that the test may not have been drilled deep enough to penetrate the Howard aquifer. Information in the county study indicates that the aquifer should be present at this site with a total well depth of about 300 feet. If the test is accurate, though, the Howard aquifer would not be a viable aquifer at this site.

The Water Rights Program monitors one observation well, LK-84A, completed into the Howard aquifer and located about four miles east of this site. Water levels for this well show good response to climatic conditions and to pumping by the City of Madison. A hydrograph for this observation well is included with this report. In general, the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2003).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

The nearest existing water right from the Howard aquifer is for the city of Madison. This right is located about four miles to the east of this application. Interference is not a concern. The distance between diversion points is sufficient to minimize any potential effects.

CONCLUSIONS

1. Water is available from the Howard aquifer.
2. The aquifer is confined and under artesian conditions. Drawdown will occur from pumping. This is not expected to be significant nor cause any adverse effects.

3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. This well for this application requests 300 gpm which is to be diverted into a pond. From the pond the diversion rate will be 800 gpm to irrigate the golf course. This diversion rate is greater than one cfs per 70 acres and is a reasonable request.
5. The combined use for this application and from the existing water right No. 5336-3 cannot exceed 159 acre-feet per year. Both the existing right and this application are for irrigation of the same acreage but just different water sources.



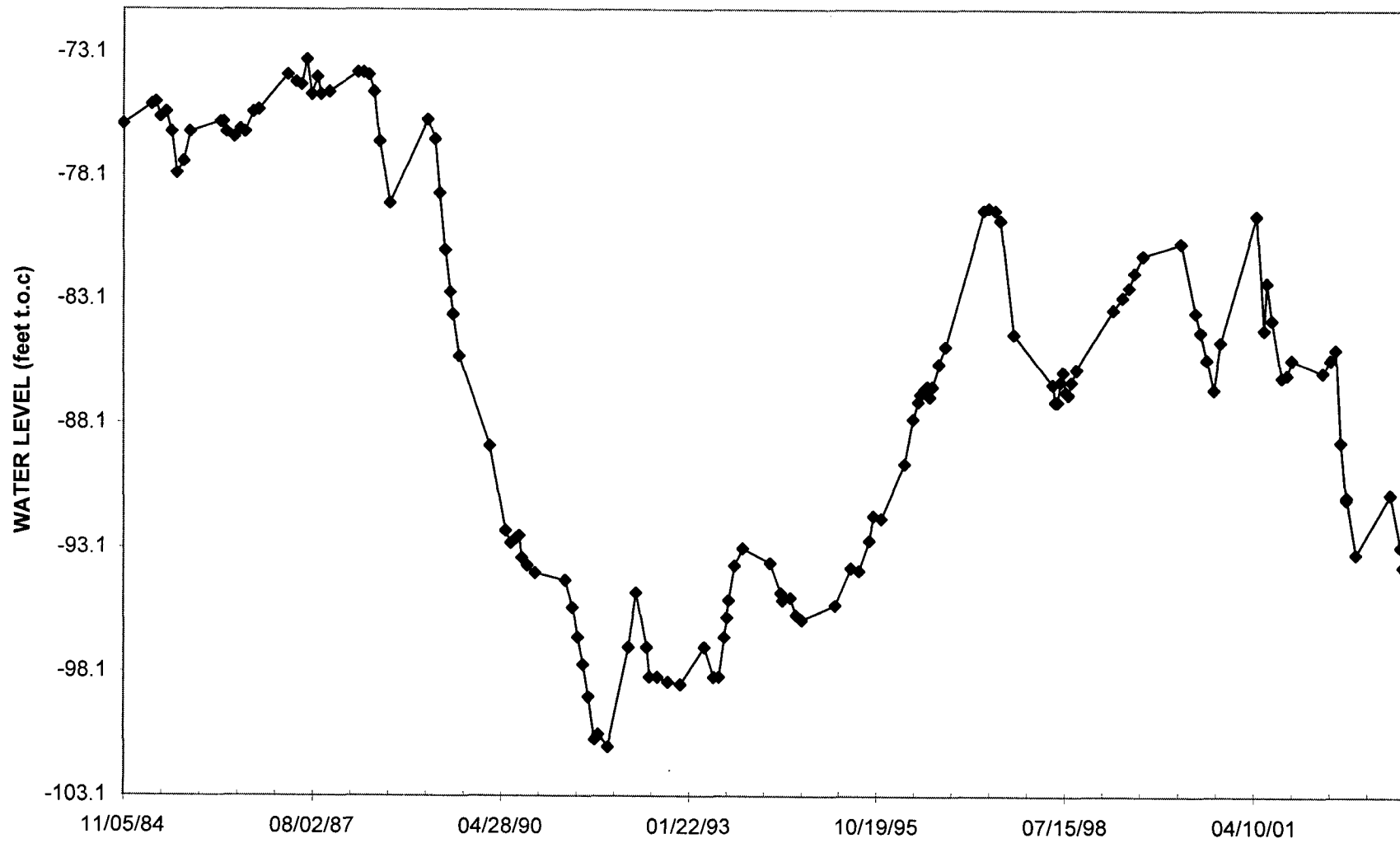
James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

Hansen, D.S., 1986, Water Resources of Lake and Moody Counties, South Dakota, Water Resources Investigations Report 84-4209, USGS, Huron, SD, 57350.

Water Rights, 2003, Unpublished Observation Well Records for Lake County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
LK-84A





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6420-3, Madison Golf & Country Club**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 6420-3, Madison Golf & Country Club, c/o Bill Stromberg, 1428 NE 4th Street, Madison SD 57042.

The Chief Engineer is recommending APPROVAL of Application No. 6420-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6420-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to ARSD 74:02:04:28.
3. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 6420-3 authorizes a maximum diversion rate from the pond of 1.78 cfs for the irrigation of 50 acres with an annual volume not to exceed 3 acre-feet of water per acre per year.
4. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
July 1, 2003

AFFIDAVIT OF PUBLICATION

RECEIVED

JUL 31 2003

WATER RIGHTS
PROGRAM

STATE OF SOUTH DAKOTA

County of Lake

ss.

Deanna Bergheim

of the City of Madison,

County of Lake, State of South Dakota, being first duly sworn on oath, deposes and says:

The Madison Daily Leader is a daily legal newspaper of general circulation, printed and published in the City of Madison, in said County of Lake, by Hunter Publishing, Inc., Jon M. Hunter, publisher, and has been such legal newspaper during the times hereinafter mentioned; that the said Madison Daily Leader has been in existence as such legal newspaper for more than one year prior to the publication of the notice hereunto attached, and has during all of said time had, and now has, more than 200 bona fide subscribers; that the undersigned, the affiant, is the Secretary of the said newspaper, in charge of the advertising department thereof and has personal knowledge of all the facts stated in this affidavit and the advertisement headed

Notice of Application No. 6420-3 to Appropriate

Water/Madison Golf & Country Club

printed copy of which hereunto attached, was printed and published in the said

two

newspaper for successive weeks, once each week and on the same day of the week, on the following dates, to-wit:

On Friday the 25th day of July 20 03

On Monday the 28th day of July 20 03

On the day of 20

On the day of 20

On the day of 20

On the day of 20

On the day of 20

On the day of 20

That \$ 47.66 being the full amount of the fees for publication of the attached notice inures solely for the benefit of the publisher of the said newspaper; that no arrangement or understanding for a division thereof has been made with any other person and that no part thereof has been agreed to be paid to any other person whomsoever.



Subscribed and sworn to before me this 29th day of

July 20 03

ANN L. KOCH

NOTARY PUBLIC
SOUTH DAKOTA


Notary Public, Lake County, South Dakota

NOTICE OF APPLICATION NO.
6420-3

to Appropriate Water

Notice is given that Madison Golf & Country Club, c/o Bill Stromberg, 1428 NE 4th St., Madison SD 57042 has filed an application for a water permit to appropriate 0.67 cubic feet of water per second (cfs) from one well (Howard Aquifer) 300 feet deep to fill a 1.4 acre storage pond both located in the S 1/2 SW 1/4 Section 3-T106N-R53W. Water will then be diverted from the pond at a rate of 1.78 cfs to irrigate approximately 50 acres of the golf course located in the SW 1/4, S1/2 SE1/4 Section 3-T106N-R53W. This application if approved, will supplement Water Rights No. 5336-3 which authorizes irrigation of the same golf course acreage from Lake Herman. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6420-3 because 1) unappropriated water is available, 2) existing rights will be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre, SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by August 8, 2003.

The petition may be informal but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Firner, Secretary, Department of Environment and Natural Resources.

Publication Fees \$

Notary Fees \$

Total \$

Received Payment,

Water Rights Program - File Documentation

NAME: Deanna

ADDRESS: Madison Daily Leader

DATE: 7-25-03 **COUNTY:** LK **TELEPHONE:** 605 256-4555

RE: Publication notice

COMMENTS:

On July 25th, we received the Proof of Publication form for Water Permit No. 6420-3 published on July 10 & 17. The clipping had an incorrect legal description.

On July 14th I had called Deanna with corrections to the notice. One of those corrections was the placement of a comma. The comma was inserted but in the wrong legal description.

Deanna indicated the corrected notice could run in today's paper (July 25th). Eric stated this would meet the statutory requirement of two consecutive weeks. The date to file petitions was extended to August 4, 2003.

I told Deanna that Water Rights Program would be responsible for payment of the notice published July 25th, since the original notice we sent was incorrect. Deanna stated there would be no charge for this 3rd publication.

July 28, 2003

Deanna called and said the notice done July 25th wasn't right either. After talking with Eric we decided to publish again on July 28th which would make two consecutive weeks of publication. The date for filing petitions will be August 8th.


Karen Schlaak
Environmental Scientist

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
 County of Lake)

I, Deanna D. Bergheim

certify that the attached printed Notice was
 taken

from the Madison Daily Leader

printed and published in City of Madison

County of Lake and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

Thursday, July 10, 2003

Thursday, July 17, 2003

Cost of Printing 47.66

Deanna Bergheim
 (Signature)

Bookkeeper
 (Title)

7-23-03
 (Date Signed)

Thurs., July 10, 17, 2003

NOTICE OF APPLICATION NO.
 6420-3

to Appropriate Water

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Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6420-3 because 1) unappropriated water is available, 2) existing rights will be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre, SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by July 28, 2003.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

RECEIVED
 JUL 25 2003
 WATER RIGHTS
 PROGRAM

Instruction to Newspaper - Publish first Notice on July 10, 2003 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6420-3 to Appropriate Water

Notice is given that Madison Golf & Country Club, c/o Bill Stromberg, 1428 NE 4th St, Madison SD 57042 has filed an application for a water permit to appropriate 0.67 cubic feet of water per second (cfs) from one well (Howard Aquifer) 300 feet deep to fill a 1.4 acre storage pond both located in the S $\frac{1}{2}$ SW $\frac{1}{4}$ Section 3-T106N-R53W. Water will then be diverted from the pond at a rate of 1.78 cfs to irrigate approximately 50 acres of the golf course located in the SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 3-T106N-R53W. This application if approved, will supplement Water Right No. 5336-3 which authorizes irrigation of the same golf course acreage from Lake Herman. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6420-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

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August 4, 2003

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

*Deanna
going to put in
July 25th paper
w/ changes*



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

www.state.sd.us/denr

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.

July 2, 2003

Madison Golf & Country Club
% Bill Stromberg
1428 NE 4th St
Madison, SD 57042

Dear Mr. Stromberg:

Water Permit Application No. 6420-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Daily Leader printed at Madison, SD (Ph # 605-256-4555). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

July 2, 2003

Daily Leader
PO Box 348
Madison SD 57042-0348

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 6420-3 to Appropriate Water to be published twice. Please publish the first notice on July 10, 2003 with the second publication 7 days later.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Madison Golf & Country Club, %Bill Stromberg, 1428 NE 4th St., Madison SD 57042 (Ph # 605-256-9624).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 6420-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of July 2, 2003 enclosing Notice of Hearing to Appropriate Water by Application No. 6420-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

AUG 28 2003

Madison Golf & Country Club
%Bill Stromberg
1428 NE 4th St
Madison SD 57042

Dear Mr. Stromberg:

Enclosed is Water Permit No. 6420-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE

Date 6-22-04

TO: Water Rights Program, DENR *
523 E. Capitol
Pierre, SD 57501-3181

RECEIVED
JUN 25 2004
WATER RIGHTS
PROGRAM

FROM: Madison Golf & Country Club
(name)
45152 233rd St - P.O. Box 254
(address)
Madison, SD 57042 605-256-9624
(city, state, zip) (phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

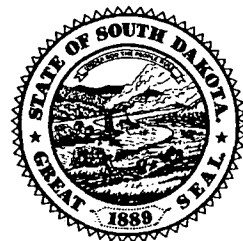
Water Permit No. 6420-3 states that the water use system is to be constructed by 8-8-08, and water is to be put to beneficial use by 8-8-12.
(date) (date)

The water use system was completed on 5-19-04.
(date)

Applying the water to beneficial use was completed on 6-11-04.
(date)

You may schedule an investigation so that the water license may be issued.

Bill Stromberg (Golf Dept.)
(signature)



Permit No. 6420-3
Sioux River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, **July 10, 2007**, made a thorough examination of the water use system constructed by **Madison Golf and Country Club** of **1428 NE 4th St., Madison, SD 57042** holder of Permit No. **6420-3**, bearing the priority of **May 27, 2003** authorizing the diversion of **0.67** cu. ft. per second and the storage of **1.4** acre-feet of the waters of the **Howard Aquifer** for **Irrigation** purposes, in **Lake** County.

Inspection contact & relationship **Bill Stromberg**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: **Huron Drilling**
- 2) No. of Wells **1**
- 3) Depth(s) **Unknown** feet
- 4) Well log is available **N**
- 5) Comment: **There were 5 test holes drilled by Huron Drilling for the Golf Course. The proposed well was to be 300 feet deep with 8 inch plastic casing and screen. There is no other well information available for this project.**

Pump for Well:

- 1) Make **Franklin submersible**
- 2) Model **2366149020**
- 3) Capacity **300** GPM

Pumps for Pond:

- 1) Make **(2) Flow Serve**
- 2) Model **10EM**
- 4) Capacity **400 gpm each**

Motors for Pond Pumps:

- 1) Make **(2) US Motor**
- 2) Model No. **BF 43A**
- 3) Horsepower rating **40** hp

Dugout Information:

This dugout was designed by the USACE. The surface area is 62,000 ft² (1.4 acres) with 4-1 back slope and is 12 feet deep.

Chemigation Equipment:

- 1) Does chemigate N

B. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y
- 3) Exceptions to compliance are: None

The system is in Good condition with the point(s) of diversion located as follows:

Approximately 420 feet north and 1310 feet east of the SW corner of Section 3-T106N-R53W

(N 44.00882, W -97.18444) (SW ¼ SW ¼)

The works are capable of diverting and conveying to the place of use 0.67cu. ft. per second of water and storing 1.4 acre-feet of water which is to be used for Irrigation of the golf course. Water has been put to beneficial use to the maximum extent as follows:

Section 3-T106N-R53W

SE ¼ SE ¼ - 3 acres

SW ¼ SE ¼ - 15 acres

NW ¼ SW ¼ - 5 acres

NE ¼ SW ¼ - 1 acre

SW ¼ SW ¼ - 16 acres

SE ¼ SW ¼ - 10 acres

comprising a total of 50 acres of land and the license should be issued for 0.67 cfs and 1.4 acre-feet of storage.

All structures, wells and lands on map Y

Comments or other permit(s) associated with the project:

Water Permit No. 6420-3 authorizes the diversion of water from one well which is pumped into a pond at a rate of 0.67 cfs (300 gpm). Water from the pond is then pumped into the irrigation system at a rate of 1.78 cfs (800 gpm) to irrigate 50 acres of putting greens, tee boxes and fairways in the SW ¼, SE ¼ Section 3-T106N-R53W. This permit is a supplement to Water Right No. 5336-3 and Vested Water Right No. 547-3 which are authorized to irrigate 128.9 acres of the golf course in the SW ¼, SE ¼ Section 3-T106N-R53W from the tailwater of Lake Herman. The combined use for Water Right No. 5336-3 and Vested Water Right No. 547-3 may not exceed 1.33 cfs. It appears to me that the acres covered under Water Permit No. 5336-3 and Vested Water Right No. 547-3 is what the golf course owns, but does not necessarily irrigate all the acres. At the time of this investigation, 50 acres were capable of being irrigated.


Mike DeFea

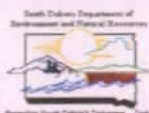
Natural Resources Project Engineer
DENR, Water Rights Program

Date report completed: November 28, 2007

Water Permit No. 6420-3



Mike De-la



Country	Number of people
Mexico	2,200
India	1,100
China	1,100
Vietnam	550

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 6420-3

(1) Madison Golf and Country Club, 1428 NE 4th St, Madison SD 57042 made Application No. 6420-3, May 27, 2003 for a water permit to divert 0.67 cubic feet of water per second (cfs) from groundwater (one well) to fill a 1.4 acre storage pond, Lake County, South Dakota for irrigation purposes. Permit No. 6420-3, with a priority date of May 27, 2003 was approved August 8, 2003 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before August 8, 2008 and for the application to beneficial use of water on or before August 8, 2012.

Water Permit No. authorizes diversion of 0.67 cfs from a well to fill a 1.4 acre pond. Water is diverted from the pond at a rate of 1.78 cfs to irrigate 50 acres of the golf course. This permit supplements Water Right No. 5336-3 and Vested Right No. 547-3 which authorize irrigation of the same acreage from Lake Madison.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 6420-3 is issued a license, bearing a priority date of May 27, 2003 to appropriate 0.67 cubic feet of water per second from groundwater (one well) to fill a 1.4 acre pond to irrigate 50 acres.

The diversion point is located: approximately 420 feet north and 1,310 feet east of the southwest corner of Section 3-T106N-R53W (SW ¼ SW ¼). The acres authorized for irrigation are as follows:

Section 3-T106N-R53W	SE ¼ SE ¼	3 acres	NW ¼ SW ¼	5 acres
	SW ¼ SE ¼	15 acres	NE ¼ SW ¼	1 acre
			SW ¼ SW ¼	16 acres
			SE ¼ SW ¼	10 acres
Total 50 acres				

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6420-3 including the following now applicable qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well authorized by Permit No. 6420-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to ARSD 74:02:04:28.
- Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 6420-3 authorizes a maximum diversion rate from the pond of 1.78 cfs for the irrigation of 50 acres with an annual volume not to exceed 3 acre-feet of water per acre per year.
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

Garland Erbele

Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAY 16 2008

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

MAY 16 2008

6420-3

Madison Golf and Country Club
1428 NE 4th St
Madison SD 57042

Dear Sir:

Enclosed is Water License No. 6420-3. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 6420-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures