

WATER PERMIT NO. 6319-3

Name of Applicant: Hillcrest Golf and Country Club

Address: 2206 Mulberry, Yankton SD 57078

Phone: 605 665-4522

Amount of Water Claimed: 0.36 cfs (add'l)

Total Acres: 100

Source of Water Supply: groundwater

Water to be used for: irrigation

County: Yankton

Type of Waste Disposal System:

Location: north edge of Yankton

PRIORITY

Date Received: 4-8-2002

Fee: \$150

Corrected Application Received:

Period of Annual Use: April 1 – October 31

Remarks: increases the diversion rate, changes location of diversion points, increases the period of annual use

Diversion Point: SE ¼ Sec 6-T93N-R55W

Land to be Irrigated: SE ¼ Sec 6 and N ½ NE ¼ Sec 7; all in T93N-R55W

Depth of Well: 118, 86 & 84 feet deep

Well Driller: : Wetmore

Remarks:

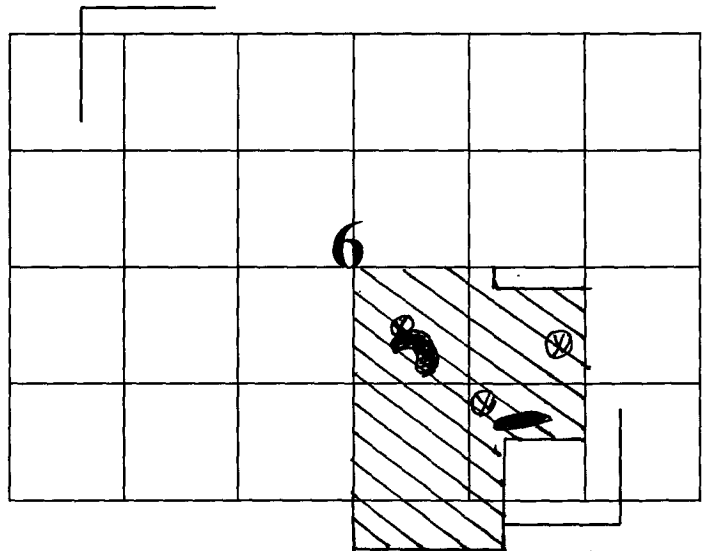
Type of Map: topo

Prepared by: Mark E Johnson, PE

Reviewed and the Number Assigned on: 4-8-2002

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



SOUTH DAKOTA
WATER PERMIT NO. 6319-3

Date of first receipt of application April 8, 2002.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6319-3 to Hillcrest Golf and Country Club, 2206 Mulberry, Yankton SD 57078 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. 6319-3 appropriates an additional 0.36 cubic feet of water per second (cfs) and changes the location of the diversion points authorized by Water Right No. 5315-3. Water Right No. 5315-3 appropriates 1.42 cfs from 3 wells (Lower James:Missouri Aquifer) to irrigate 100 acres located in the SE $\frac{1}{4}$ Section 6 and N $\frac{1}{2}$ NE $\frac{1}{4}$ Section 7; all in T93N-R55W. This water right authorizes water from the wells to be diverted to two ponds located in the SE $\frac{1}{4}$ of Section 6 with a storage capacity of 15.8 acre feet of water prior to irrigation of the golf course. This permit appropriates an additional 0.36 cfs from three wells which are located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 6-T93N-R55W. Water will be diverted from the well(s) at a maximum diversion rate of 1.78 cfs into the south pond. Water may be diverted from the pond at a rate of 2.67 cfs to irrigate the land. The diversion rate is greater than the statutory limit of 1 cfs per 70 acres. This permit also serves to expand the annual period of use from May 1 thru September 30 to April 1 thru October 31 of each year.
2. The amount of the appropriation may not exceed 2 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: April 1 – October 31.
3. The date from which applicant may claim right is April 8, 2002.
4. The date of approval of Permit No. 6319-3 is June 10, 2002.
5. One-fifth of the construction is to be completed on or before December 10, 2004.
6. All construction is to be completed on or before June 10, 2007.
7. Water is to be put to beneficial use on or before June 10, 2011.
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 wells 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. Any well that is abandoned must be plugged in accordance with Water Management Board Rules, Chapter 74:02:04.

(continued)

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. 6319-3 authorizes a maximum diversion rate of 2.67 cfs from the southern pond for the irrigation of 100 acres.
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

JUN 13 2002

date



FORM 2: Application for irrigation in South Dakota
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6319-3</u> (office use only) Hydrologic Unit <u>10170101</u>
	Basin <u>Missouri River</u>
	Newspaper <u>Daily Press + Dakotan, Yankton</u>

RECEIVED
APR - 8 2002
WATER RIGHTS
PROGRAM

Application For

Permit To Appropriate Water For Irrigation

Type of Application: New Vested Right X Amendment/Correction to Permit No. 5315-3 & 512-3
(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

Change of location of diversion point pursuant to SDCL, 46-5-13.1 to reflect the number and location of wells used for irrigation and an increase in diversion rate

- Name of Applicant Hillcrest Golf and Country Club Phone 605-665-4522
(check one) Owner Tenant/lessee
Mailing Address 2206 Mulberry, Yankton State SD 57078
0.36 add' (Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.78 *CFS or **GPM 15.8 ***AF Total Acreage 100
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable
- Source of water supply
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 3 Wells, all in the SE 1/4 of
Section 6 - T93N - R55W
Well No. 1 - NE 1/4, SE 1/4, Well No. 2 - NW 1/4, SE 1/4, Well No. 3 - SE 1/4, SE 1/4
 County Yankton
- County or counties where water will be used Yankton
- Annual period during which water is to be used April 1 to October 31
- 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
SE 1/4 Section 6 - T93N - R55W &	100		
N 1/2 NE 1/4 Section 7 - T93N - R55W			

- Give a description of the project. Modifications to an existing irrigation system for the Hillcrest Golf Course consisting of constructing a new well 1,050 feet west and 1,175 feet north of the southeast corner of Section 6, and plugging and abandoning a well 500 feet north and 1,450 west of the southeast corner of Section 6. Water is pumped from the wells into two ponds for temporary storage and then is routed through the irrigation system for application onto the golf course. The northern pond is partially recharged from storm-water runoff.

Limited available application times are inherent with the operation of this facility and other golf courses. The changes to this system were implemented to improve the efficiency of golf course irrigation. The improved system can reduce the duration of the irrigation application period. A shorter application period promotes water conservation by enabling irrigation to be completed during the cooler hours of the day. A shorter irrigation period is also more conducive to golf course operation. To provide efficient watering at the optimum time of the day (12:00AM-7:00AM), a maximum diversion rate of 2.67 cfs from the south storage pond maybe be reach at peak times. Average diversion rates from the south storage pond are estimated to be at 1.40 cfs.

STATE OF SOUTH DAKOTA) SS
County of YANKTON

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, Brian Strahl, President, 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

Brian Strahl, President

Subscribed and sworn to before me this 29th day of March 2002

[Signature]
Notary Public signature

Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 26 inches Depth 86 feet
- b) Casing Type PVC Diameter 16 inches Thickness Schedule 40
- c) Screen Type PVC Diameter 16 inches Thickness .080 slot
- d) Gravel Pack No Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 26 feet
- f) Depth to Water (ground surface to water level) 25 feet
- g) Distance to nearest existing domestic well:
- On applicants property 970 feet On property owned by others _____

2. Wastewater Disposal System Information

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

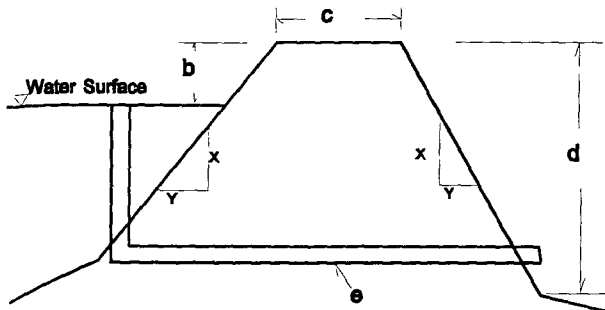
3. Dugout Information

- a) Surface Dimensions No Change - Existing Ponds Depth _____
- b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

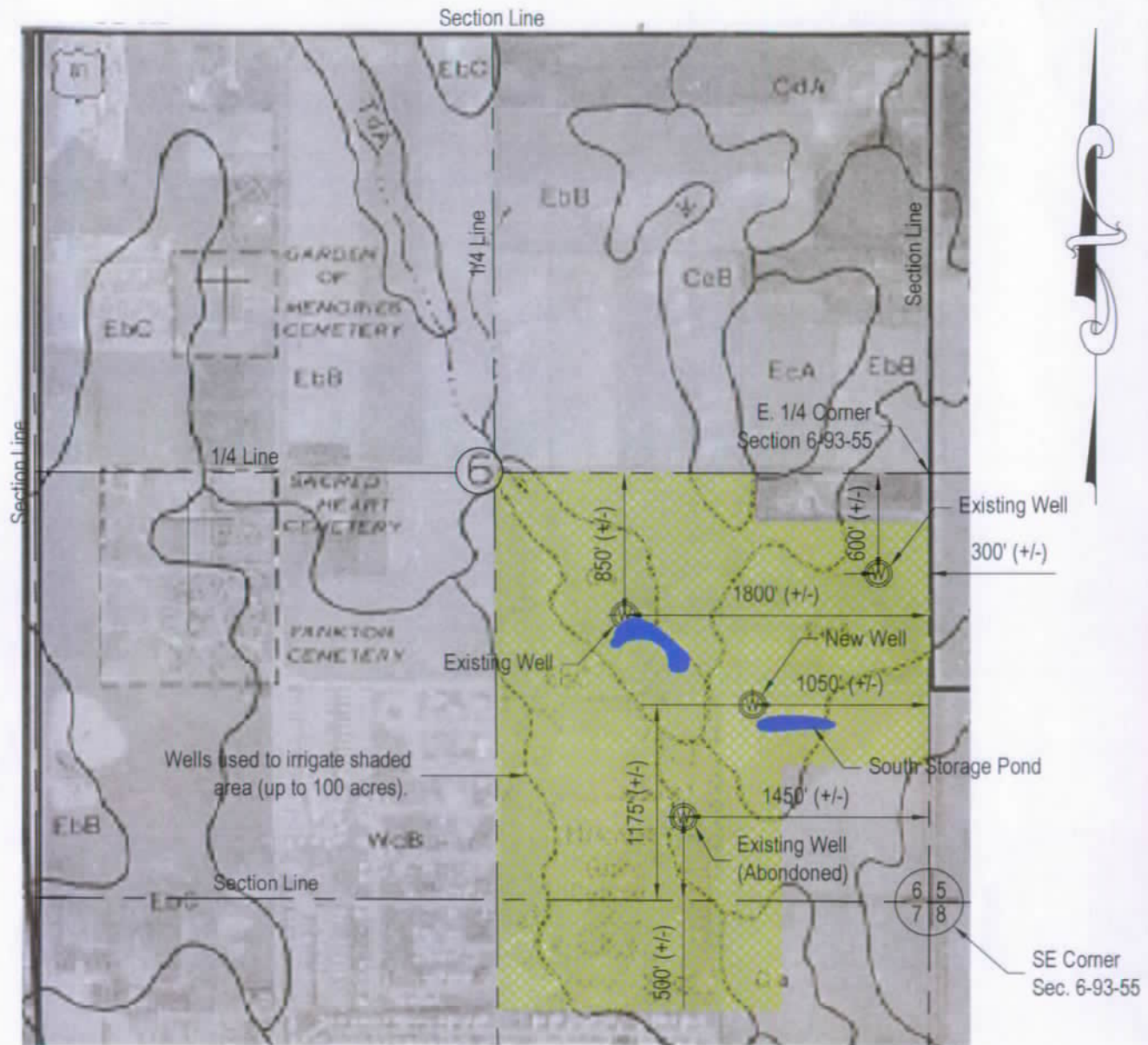
If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

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



- 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 _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres

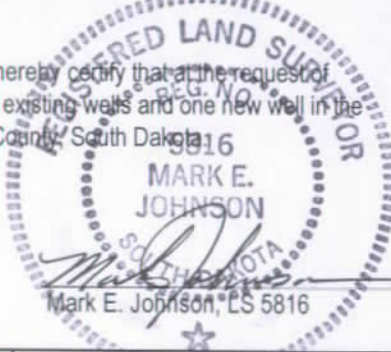
Map of Section 6, Township 93 North, Range 55 West of the 5th P.M., Yankton County, South Dakota



Surveyor's Certificate

I, Mark E. Johnson, a Registered Land Surveyor in the State of South Dakota, do hereby certify that at the request of Hillcrest Golf and Country Club did prepare this map depicting the location of three existing wells and one new well in the SE 1/4 of Section 6, Township 93 North, Range 55 West of the 5th P.M., Yankton County, South Dakota.

Dated this 26TH day of MARCH, 2002.



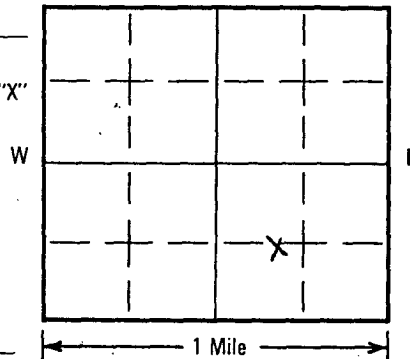
Title: Well Location Map for Water Rights Application for Hillcrest Golf & Country Club	Project Name: Hillcrest Country Club Yankton, South Dakota		Prepared By: Eisenbraun & Associates Professional Engineers & Surveyors 215 Walnut Yankton, South Dakota 57078 605-665-8092 FAX 605-665-0523 www.easweb.com	
	Sheet Name: Well Location Map		Drawn By: MEJ	Checked By: MEJ
	Proj. No.:	Dep. No.: wr-map	Date: 10-17-01	

6319-3

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location SW 1/4 SE 1/4 Sec 6 Twp 93N Rg 55W
 County Yankton
 Please mark well location with an "X"



Well Completion Date

July 16, 2000

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1000' from Aban Well (identify source).

PROPOSED USE:

- ☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

Rotary

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>5440 LB/FT</u>	<u>12 IN</u>	<u>0 FT</u>	<u>22 FT</u>	<u>18" IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement</u>	<u>15</u>	<u>714 lb./gal</u>	<u>1 ft</u>	<u>19 ft</u>
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure Tremie method

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 12 IN Length 52 FEET

Material PVC

Slot Size .060 Set From 22 Feet to 74 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

X YES, How: HTH Granular

NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: _____

Business Name: Hillcrest Golf Club

Address: 2206 Mulberry St
Yankton, SD 57078

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
clay, Brn, pebbly	0	12
GRavel, coarse	12	41
clay, gray, sandy	41	50
Sand, med to coarse	50	81
claystone, dk gray	81	84

STATIC WATER LEVEL 32' Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: _____

☐ Bailed _____

☐ Other _____

Pumping Level Below Land Surface

43 ft. After 4 Hrs. pumped 250 est GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate 200 est GPM

REMARKS

This well was drilled under license # 666

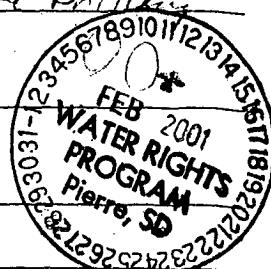
And this report is true and accurate.

Drilling firm Hammond-Wetmore Drilling

Signature of License/Representative: [Signature]

Signature of Well Owner or Equitable Property Holder: _____

Date: 7-16-00

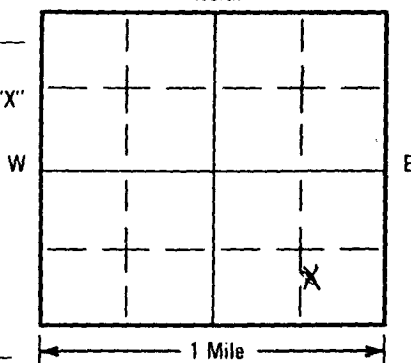


SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location S1/2 1/4 S1E 1/4 Sec 6 Twp 93N Rg 55 WCounty YANKTON North

Please mark well location with an "X"



Well Completion Date

9/10/01

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1/4 mile from YANKTON LIVE STOCK AUCTION (identify source).

PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

REVERSE ROTARYCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>SCED 40 LB/FT</u>	<u>16 IN</u>	<u>+1 FT</u>	<u>26 FT</u>	<u>26 IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>PORTLAND</u>	<u>85</u>	<u>15 lb./gal</u>	<u>0 ft</u>	<u>85 ft</u>
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure IREMIESCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 16 IN Length 60 FEETMaterial PVCSlot Size 080 Set From 26 Feet to 86 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How:CHLORINATED☒ NO, Why Not?IRRIGATION

Laboratory sent to for water quality analysis _____

WELL

Well Owner: _____

Business Name: HILLCREST COUNTRY CLUBAddress: 2206 MULBERRY ST YANKTON, S.D

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
BRN CLAY W SMALL ROCKS	0	26
COURSE GRAVEL & " "	26	40
SANDY BLUE CLAY	40	45
COURSE GRAVEL	45	51
FINE GRAVEL & SAND	51	86
BIG BOULDERS	86	

STATIC WATER LEVEL 25 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ PumpedDescribe: TEST TURBINE☐ Bailed☐ Other

Pumping Level Below Land Surface

48 ft. After 1 Hrs. pumped 850 GPM52 ft. After 2 Hrs. pumped 1250 GPM

If pump installed, pump rate _____ GPM

REMARKS

RECEIVED

FEB 28 2002

This well was drilled under license # 444

WATER RIGHTS PROGRAM

And this report is true and accurate.

Drilling firm CHRISTENSEN WELL & IRRIGATION INC.

Signature of License Representative:

William J Christensen

Signature of Well Owner or Equitable Property Holder:

Date: 8/28/2001

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

417135

Pierre, April 8, 20 02

RECEIVED OF Hillcrest Golf & Country Club, 2206 Mulberry, PO Box 327, Yankton, SD 57078
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ 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. _____	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	200 00

By

Darlene Ebel

Chief Engineer

gms



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

February 15, 2001

Hillcrest Golf & Country Club
2206 Mulberry St
Yankton SD 57078

Dear Sir:

I am writing in regard to a well driller's report filed by Hammond-Wetmore Drilling. The report shows a new well was completed for the golf club on July 16, 2000. A review of our files indicates that Hillcrest Golf & Country Club holds Water Right No. 5315-3 for 1.42 cubic feet of water per second from three wells and 15.8 acre-feet storage (2 ponds) located in the SE ¼ Section 6-T93N-R55W for irrigation of the golf course.

South Dakota Codified Law 46-5-13.1 provides that a point of diversion may be changed or additional points of diversion may be approved without application or publication of a notice of hearing if the additional point of diversion is from the same source of water, no additional water is appropriated and the Chief Engineer makes a finding that the change does not increase the potential for interference with existing diversions.

Is the new well a replacement for one of the three existing wells or is it an additional well? Once this information is received, we can determine if an additional water permit is required.

If you have any questions, please contact Eric Gronlund or me. We will be happy to assist you in any way possible.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

March 5, 2002

Hillcrest Country Club
2206 Mulberry St
Yankton SD 57078

Dear Sir:

I am writing in regard to a well driller's report filed by Christensen Well & Irrigation Inc. The report shows a new well was completed for the club on September 10, 2001. A review of our files indicates that Hillcrest Golf & Country Club holds Water Right No. 5315-3 for 1.42 cubic feet of water per second from three wells and 15.8 acre-feet storage (2 ponds) located in the SE ¼ Section 6-T93N-R55W for irrigation of the golf course.

Based on a March 13, 2001 conversation with Bill Branson, a replacement well was drilled in July 2000, for one of the three wells authorized by No. 5315-3. Is this new well a replacement well also? Has the diversion rate increased?

South Dakota Codified Law 46-5-13.1 provides that a point of diversion may be changed or additional points of diversion may be approved without application or publication of a notice of hearing if the additional point of diversion is from the same source of water, no additional water is appropriated and the Chief Engineer makes a finding that the change does not increase the potential for interference with existing diversions.

If you have any questions, please contact Eric Gronlund or me. We will be happy to assist you in any way possible.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352

Water Rights Program - File Documentation

NAME: Bill Branson, Business Manager
Hillcrest Golf & Country Club

ADDRESS: Yankton SD

DATE: 3-13-2001 **COUNTY:** YA **TELEPHONE:**

RE: Replacement well

COMMENTS:

Bill Branson called concerning my letter dated February 15, 2001. Mr. Branson indicated the well drilled on July 16, 2000 was a replacement well for one of the three wells authorized by Water Right No. 5315-3. The use of this well did not increase the authorized diversion rate of 1.42 cfs.



Karen Schlaak
Environmental Scientist

REPORT ON WATER PERMIT APPLICATION NO. 6319-3
For Hillcrest Golf and Country Club
May 7, 2002

Application No. 6319-3 proposes to appropriate an additional 0.36 cfs (162 gpm) and a change of the location of the diversion points authorized by Water Right No. 5315-3. Water Right No. 5315-3 appropriates 1.42 cfs from 3 wells to irrigate 100 acres located in the SE $\frac{1}{4}$ of section 6 and the N $\frac{1}{2}$ NE $\frac{1}{4}$ of section 7; all in T93N R55W. This water right authorizes water from the wells to be diverted to two ponds with a storage capacity of 15.8 acre feet prior to irrigation of the golf course. This application proposes to appropriate an additional 0.36 cfs from the three well which are located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ of section 6, T93N R55W. Water will be diverted from the well(s) at a maximum diversion rate of 1.78 cfs into the two ponds. Water may be diverted from the southern pond at a rate of 2.67 cfs to the land. The application is requesting a diversion rate greater than the statutory limit of one cfs per 70 acres. This application also serves to expand the annual period of use from May 1 through September 30 to April 1 through October 31 of each year.

AQUIFER – LOWER JAMES MISSOURI (LJM)

The Lower James Missouri is an outwash (sand and gravel) which is under water table conditions in this area. The aquifer underlies 92,500 acres and contains an estimated 2.08 million acre-feet of recoverable water in storage in Yankton County (Hedges, 1982). The aquifer blends into the Missouri Elk Point to the south, the Lower James Missouri-Scotland aquifer to the northwest and extends into Hutchinson County to the north and into Clay County to the east. The aquifer is hydraulically connected to the James and Missouri Rivers with ground water generally discharging into the rivers (Bugliosi, 1986).

Driller's logs are available for the existing irrigation wells at this site. The newest irrigation well completed by Christensen Well and Irrigation, Inc., indicates brown clay and rocks to a depth of 26 feet, followed by coarse gravel from 26 to 40 feet, followed by sandy blue clay from 40 to 45 feet, followed by coarse gravel from 45 to 51 feet, followed by fine gravel and sand from 51 to 86 feet, followed by boulders at 86 feet. The well had a static water level of 25 feet and was capable of producing 1250 gpm with 27 feet of drawdown. This results in a specific capacity of 46.4 gpm/ft of drawdown.

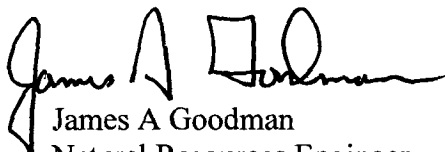
The Water Rights Program monitors water levels from the Lower James Missouri aquifer in Yankton County. The nearest observation well is YA-57C, which is located about three miles north of this application. Water levels for this well show good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2002). A hydrograph for observation well YA-57C is included with this report.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are irrigation wells to the southeast of this application, which also obtain water from the Lower James Missouri aquifer. The closest irrigation well is about one-half mile to the southeast. Interference is not a concern. Drawdown created by pumping does not extend very far from individual production wells. Interference is not a problem.

CONCLUSIONS

1. Water is available from the Lower James Missouri aquifer.
2. The aquifer is under water table conditions in this area. Pumping does not create significant drawdown especially at a distance of one-half mile from the well. Interference is not a concern.
3. Two wells will be used for this application even though three are listed. The main well is the Christensen well drilled in 2001. The Hammond well drilled in 2000 is to be abandoned. The Wetmore well drilled in 1989 will be maintained as a backup. The irrigation system is set up to use water from the south pond only. The well(s) will be pumped into the pond and then pumped from the pond for irrigation of the course. (Personal communication with Steve Schnell, May 8, 2002)
4. The maximum diversion rate from the well(s) will be 1.78 cfs. The maximum diversion rate from the south pond will be 2.67 cfs. This diversion rate is greater than the one cfs per 70 acre statutory rate but is necessary to optimize use of the golf course and to improve the efficiency of golf course irrigation.
5. This application allows the expansion of the time of possible pumping from April 1 through October 31, annually.
6. Any wells that are presently abandoned or will be abandoned must be plugged pursuant to SD Well Construction Standards. The two existing wells are completed in accordance with SD Well Construction Standards.
7. The north pond will remain part of the facility but not part of the irrigation system.

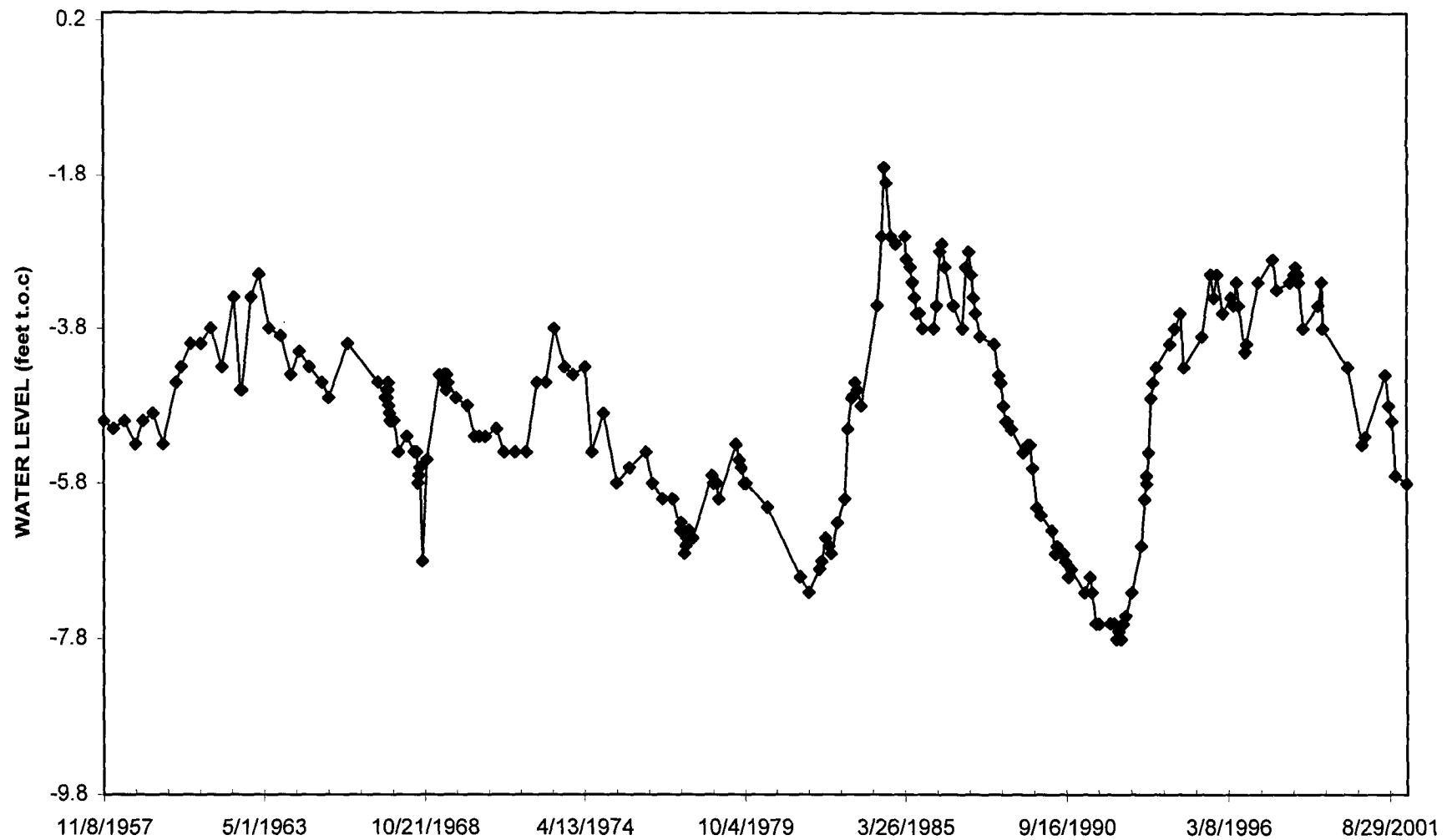


James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

- Bugliosi, E.F., 1986, Water Resources of Yankton County, South Dakota, Water-Resources Investigations Report 84-4241, USGS, Huron, SD, 57350.
- Hedges, L.S., 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.
- Water Rights, 2002, Unpublished Observation Well Data for Yankton County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

**WATER RIGHTS' OBSERVATION WELL
YA-57C**





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6319-3, Hillcrest Golf and 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. 6319-3, Hillcrest Golf and Country Club, c/o Brian Strahl, President, 2206 Mulberry, Yankton SD 57078.

The Chief Engineer is recommending APPROVAL of Application No. 6319-3 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 wells 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. Any well that is abandoned must be plugged in accordance with Water Management Board Rules, Chapter 74:02:04.
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. 6319-3 authorizes a maximum diversion rate of 2.67 cfs from the southern pond for the irrigation of 100 acres.
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
May 14, 2002



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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.

May 15, 2002

Brian Strahl, President
Hillcrest Golf and Country Club
2206 Mulberry
Yankton SD 57078

Dear Mr. Strahl:

Water Permit Application No. 6319-3 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 Press & Dakotan printed at Yankton, SD (Ph # 665-7811). 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

c: John Childs, Eisenbraun & Assoc., 910 N. Central Ave., Pierre SD 57501

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

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

May 15, 2002

Daily Press & Dakotan
PO Box 56
Yankton SD 57078-0056

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 6319-3 to Appropriate Water to be published twice. Please publish the first notice on May 22, 2002 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 Hillcrest Golf and Country Club, c/o Brian Strahl, President, 2206 Mulberry, Yankton SD 57078 (Ph # 665-4522).

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-----

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

No. 6319-3

Date _____

We are in receipt of your letter of May 15, 2002, enclosing Notice of Hearing to Appropriate Water by Application No. 6319-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Daily Press & Dakotan
Newspaper

Instruction to Newspaper - Publish first Notice on May 22, 2002 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6319-3 to Appropriate Water
to Amend Water Right No. 5315-3

Notice is given that Hillcrest Golf and Country Club, 2206 Mulberry, Yankton SD 57078 has filed an application for a water permit to appropriate an additional 0.36 cubic feet of water per second (cfs) and change the location of the diversion points authorized by Water Right No. 5315-3. Water Right No. 5315-3 appropriates 1.42 cfs from 3 wells (Lower James Missouri Aquifer) to irrigate 100 acres located in the SE $\frac{1}{4}$ Section 6 and N $\frac{1}{2}$ NE $\frac{1}{4}$ Section 7; all in T93N-R55W. This water right authorizes water from the wells to be diverted to two ponds located in the SE $\frac{1}{4}$ of Section 6 with a storage capacity of 15.8 acre feet of water prior to irrigation of the golf course. This application proposes to appropriate an additional 0.36 cfs from three wells which are located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 6-T93N-R55W. Water will be diverted from the well(s) at a maximum diversion rate of 1.78 cfs into the south pond. Water may be diverted from the pond at a rate of 2.67 cfs to irrigate the land. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres. This application also serves to expand the annual period of use from May 1 thru September 30 to April 1 thru October 31 of each year.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6319-3 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.

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 June 10, 2002.

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.

AFFIDAVIT OF PUBLICATION

YANKTON DAILY PRESS AND DAKOTAN

Department of Environment/Water Rights Program
523 E. Capitol, Joe Foss Building
Pierre, SD 57501

STATE OF SOUTH DAKOTA
COUNTY OF YANKTON

Kelley Hertz BEING FIRST DULY SWORN ON OATH DEPOSES
AND SAYS THAT HE IS THE EDITOR OF THE YANKTON
PRINTING COMPANY, A CORPORATION, THE PRINTER AND THE
EDITOR OF THE YANKTON DAILY PRESS AND DAKOTAN, A LEGAL
DAILY NEWSPAPER PRINTED AND PUBLISHED IN THE CITY OF YANKTON,
SAID COUNTY AND STATE, AND ONE OF THE OFFICIAL NEWSPAPERS OF
THE SAID COUNTY OF FACTS STATED IN THIS AFFIDAVIT; THAT THE
ANNEXED Notice Of Application Water Rights

TAKEN FROM THE PAPER IN WHICH IT WAS PUBLISHED IN THE
NEWSPAPER ON THE 29th DAY OF May 2002
THAT THE FULL AMOUNT OF THE FEE CHARGED FOR THE PUBLICATION
OF SAID NOTICE TO WIT \$66.67 ENSURES TO THE
BENEFITS OF THE PUBLISHER OF SAID NEWSPAPER AND THAT NO
AGREEMENT AND UNDERSTANDING FOR THE DIVISION THEREOF HAS
BEEN MADE WITH ANY OTHER PERSON, AND THAT NO PART THEREOF
HAS BEEN AGREED TO BE PAID TO ANY PERSON WHOMSOEVER.

PUBLISHED ON: 05/22/02; 05/29/02

FILED ON: 05/31/02

Kelley Hertz
SUBSCRIBED AND SWORN TO BEFORE 31st DAY OF May 2002

Stephen M. Pirner
NOTARY PUBLIC, SOUTH DAKOTA
MY COMMISSION EXPIRES

08/19/03

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
JUN 05 2002
WATER RIGHTS
PROGRAM

5+22+29

NOTICE OF APPLICATION NO. 6319-3
to Appropriate Water
to Amend Water Rights No. 5315-3

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to appropriate an additional additional 0.36 cfs from three wells which are located in the NE 1/4 SE 1/4, NW 1/4 SE 1/4, SE 1/4 SE 1/4 Section 6-T93N-R55W. Water will be diverted from the well(s) at a maximum diversion rate of 1.78 cfs into the south pond. Water may be diverted from the pond at a rate of 2.67 cfs to irrigate the land. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres. This application also serves to expand the annual period of use from May 1 thru September 30 to April 1 thru October 31 of each year.

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**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JUN 13 2002

Hillcrest Golf and Country Club
% Brian Strahl, President
2206 Mulberry
Yankton, SD 57078

Dear Mr. Strahl:

Enclosed is Water Permit No. 6319-3 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