

Considered: _____

WATER PERMIT NO. 5473-3

Phone: 226-0900

Name of Applicant: Moccasin Creek Country Club

Post Office Address: PO Box 163, Aberdeen SD 57401

Amount of Water Claimed: 0.43 ~~1.22~~ Total Acres: 75 ~~100~~ 35 ad.

Source of Water Supply: groundwater

Water to be used for: irrigation County: Brown

About 2 miles North of Aberdeen

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

F.F. & C/.L. Adopted _____ Not Approved _____ Deferred _____

PRIORITY Date Received: 8-15-90 Fee: \$250 Remarks 18 wells in

addition to 18 wells authorized by No. 1667-3 and 5349-3

Corrected Application Received 8-29-90 ^{9/20/90} Period of Annual Use May 1 - Oct 31

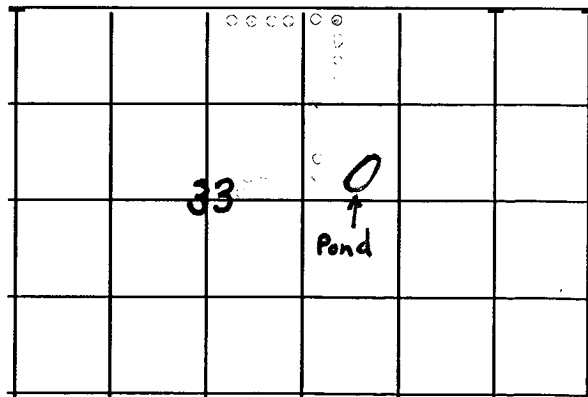
WATER QUALITY APPROVAL RECEIVED 9-18-90 ^{10/30/90} APPROVED CONDITIONAL (Circle one)

WI-1 Description same as Application YES x NO _____ REMARKS _____

Diversion Point: NE 1/4 33-124-63

Land to be Irrigated: NE 1/4 33-124-63 &

SE 1/4 33-124-63



Well Log: Driller: Huron Drilling Licensed YES x NO _____

Depth of Well: 30-35' REMARKS _____

Type of Map: plat PREPARED BY: Douglas Ochs Reviewed and the Number

Assigned on 9-19-90 By Karen Schlaak

(See instructions)

No. 5473-3 Hydrologic Unit 1016003
Basin James River
Newspaper American News, P.O. Box 4430, Aberdeen

57402-4420

Application For Soil/Water Compatibility Permit and Permit To Appropriate Water

Type of Application: ☐ New ☐ Vested Right ☐ Amend Permit No. _____
☐ Change Acreage ☐ Change diversion point(s) ☒ Add diversion point(s)
☒ Add Acreage ☒ Increase diversion rate ☐ Other _____



Applicant MOCCASIN CREEK COUNTRY CLUB Phone No. 226-0900

Post Office Address P.O. BOX 163 ABERDEEN State S.D. Zip Code 57402-0163
(Street, RR or Box) (City)

2. Amount of water claimed (c.f.s.) .43 Total acres irrigated 110 (35 acres add'l)

3. Source of Water supply SHALLOW WELLS 18 add'l shallow wells

4. Location of point of diversion SEE MAP NE 1/4 Section 33 T124N-R63W
Dugout. SE 1/4 NE 1/4 Section 33 T124N-R63W

County BROWN

5. Counties where water will be used BROWN

6. Annual period during which water is to be used MAY 1 - OCTOBER 31

7. List below each forty acre subdivision, lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.
NE 1/4 NE 1/4 33-T124 N-R63W	15
NW 1/4 NE 1/4 33-T124 N-R63W	2
SE 1/4 NE 1/4 33-T124 N-R63W	20
SW 1/4 NE 1/4 33-T124 N-R63W	10

Land Description	No. Acres Irr.
NE 1/4 SE 1/4 33-T124 N-R63W	20
SE 1/4 SE 1/4 33-T124 N-R63W	20
NW 1/4 SE 1/4 33-T124 N-R63W	8
SW 1/4 SE 1/4 33-T124 N-R63W	15

Attach sheet if more space is needed

8. Type of Irrigation: Gravity: _____ Towline: _____ Center Pivot: _____ Gun: _____ Other: SPRINKLER
(Specify) SYSTEM

9. Crops to be Irrigated: GRASS TURF

10. Give a description of proposed project. (Attach sheet if more space is needed)

A) EIGHTEEN NEW WELLS IN ADDITION TO THE 18 WELLS AUTHORIZED BY WATER RIGHT PERMIT #1667-3 AND 5349-3.

B) DUG OUT POND SHOWN ON MAP ENCLOSED IS 300' X 75' OR 1/2 ACRE OF SURFACE AREA. IT HOLDS 3 ACRE FEET OF WATER WITH A AVERAGE DEPTH OF SIX FEET.

Diversion from pond = 705 gpm (1.57cfs)

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach maps, soils information and any other technical information.

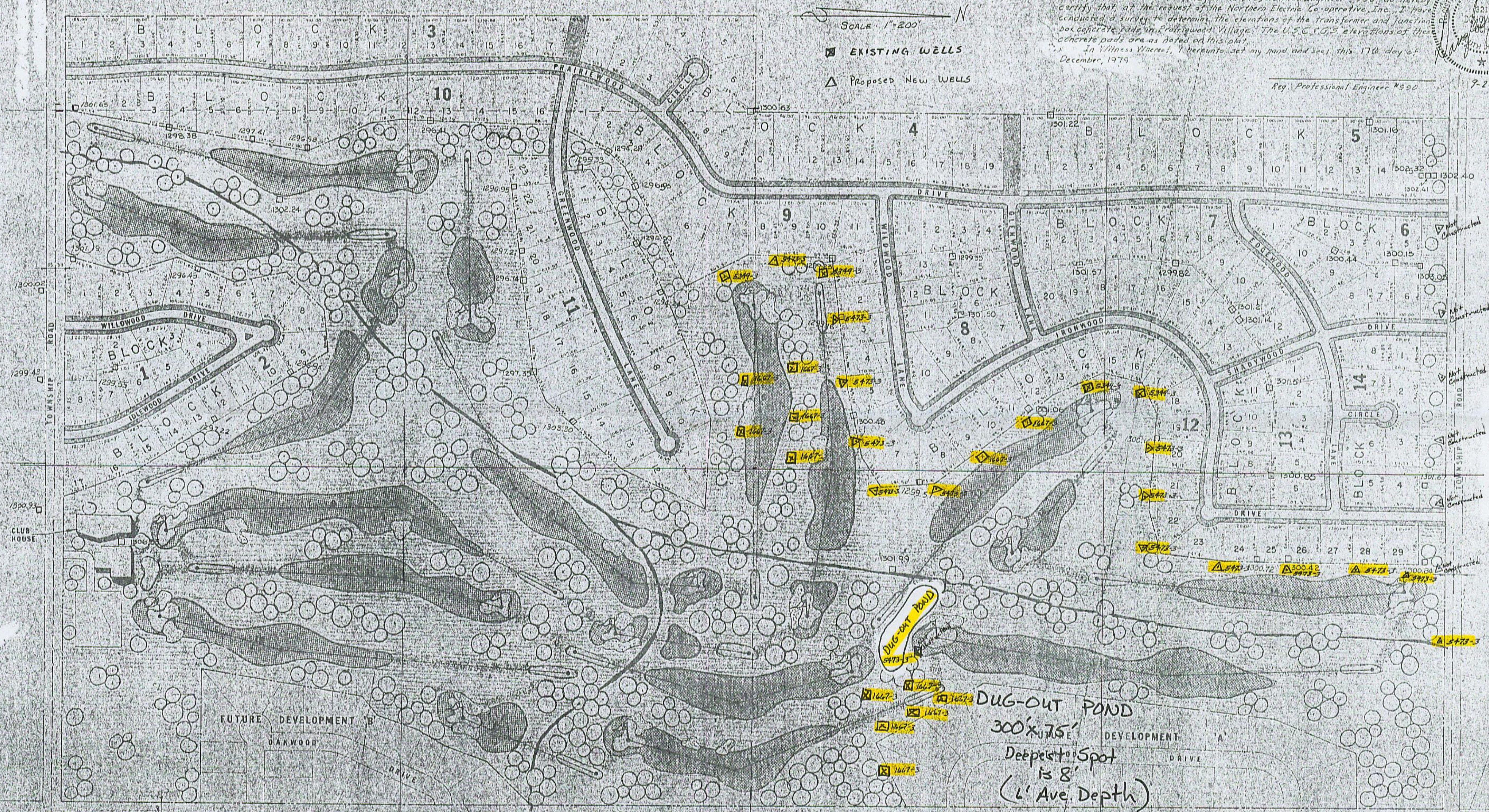
STATE OF SOUTH DAKOTA)
County of BROWN)^{ss}

I, Bruce Castille, the applicant, certify that I have read this application and examined the attached maps, that the water sample, if needed, has been taken by the required procedures and has not been adulterated or tampered with and is truly representative of the water to be used, and that the matters stated in this application are true and correct.

Signed B. Castille

Subscribed and sworn to before me this 25 day of SEPTEMBER 1990

John Anderson
My commission expires 10-22-92



I, William D. Steller, Registered Professional Engineer #990, do hereby certify that, at the request of the Northern Electric Co-operative, Inc., I have conducted a survey to determine the elevations of the transformer and junction box concrete pads in Prairiewood Village. The U.S.C. & G.S. elevations of these concrete pads are as noted on this plat.
In Witness Whereof, I hereunto set my hand and seal this 17th day of December, 1979



Reg. Professional Engineer #990

9-26-90

DUG-OUT POND
300'x75'
Deepest Spot is 8' (1' Ave. Depth)

As Constructed Map, copied from parent map by Douglas, Ochs, P.E.

NE Corner 33 T124N R63W



5473-3

SOUTH DAKOTA
WATER PERMIT No. 5473-3 FOR IRRIGATION

Date of first receipt of application August 15, 1990.
Date Soil/Water Compatibility Permit received November 30, 1990.
Date of return to applicant for corrections, amendments or changes
August 16, 1990.
Date of receipt of corrected application September 28, 1990.

The Water Management Board approved Water Permit Application No. 5473-3 on December 5, 1990 for Moccasin Creek Country Club, P.O. Box 163, Aberdeen, SD 57401 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. 5473-3 appropriates an additional 0.43 cubic feet of water per second (cfs) to irrigate 35 additional acres from 18 additional wells (Elm Northern Brown Aquifer) to be located in the NE1/4 Section 33 T124N, R63W and to authorize storage of water in a 3 acre feet dugout. Water Right No. 1667-3 and Water Permit No. 5349-3, combined, appropriate 0.89 cfs from 18 existing wells located in the E1/2 to irrigate 75 acres in the E1/2; all in Section 33 T124N, R63W. This Permit combined with Nos. 1667-3 and 5349-3 authorizes diversion of 1.32 cfs from a total of 36 wells into an existing 3 acre feet dugout (regulating pond) located in the SE1/4 NE1/4 Section 33 T124N, R63W. Water is to be diverted from this pond at a diversion rate of 1.57 cfs to irrigate the acreage specified on Nos. 1667-3 and 5349-3, plus 35 additional acres located in the E1/2 Section 33 T124N, R63W.
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: May 1 - October 31.
3. The date from which applicant may claim right is November 30, 1990.
4. One-fifth of the construction is to be completed on or before June 5, 1993.
5. All construction is to be completed on or before December 5, 1995.
6. Water is to be put to beneficial use on or before December 5, 1999.
7. 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 authorized pursuant to this permit shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04.

(continued)

2. 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.
3. This permit is approved subject to the irrigation water use questionnaire being submitted each year.
4. Approval of Permit No. 5473-3 authorizes a maximum diversion of 1.32 cfs (593 gpm) from 36 wells authorized by Permits No. 5473-3, 5349-3 and 1667-3 into a 3 acre foot capacity dugout.
5. Diversion from the dugout for irrigation is limited to 1.57 cfs (705 gpm).

WATER MANAGEMENT BOARD

By: _____

Chief Engineer, Water Rights Division
Department of Water and Natural Resources

MAR 19 1991

(date)

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter 8" Depth 20'-35'
- b) Casing Type PLASTIC Diameter 5" Thickness 1/2"
- c) Screen Type STAINLESS Diameter 5" Thickness 1/4"
- d) Gravel Pack Thickness 3" Length of Gravel Pack VARIABLE
- e) Depth to Top of Water Bearing Material 15'-20'
- f) Depth to Water (ground surface to water level) 12'-15'
- g) Distance to nearest existing domestic well:
- On applicants property NONE On property owned by others NONE FOR DOMESTIC USE

2. Dugout Information Estimates

- a) Surface Dimensions 300' X 75' Depth 6'
- b) Depth to water (ground surface to water level) 15' X 20'

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should 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 _____

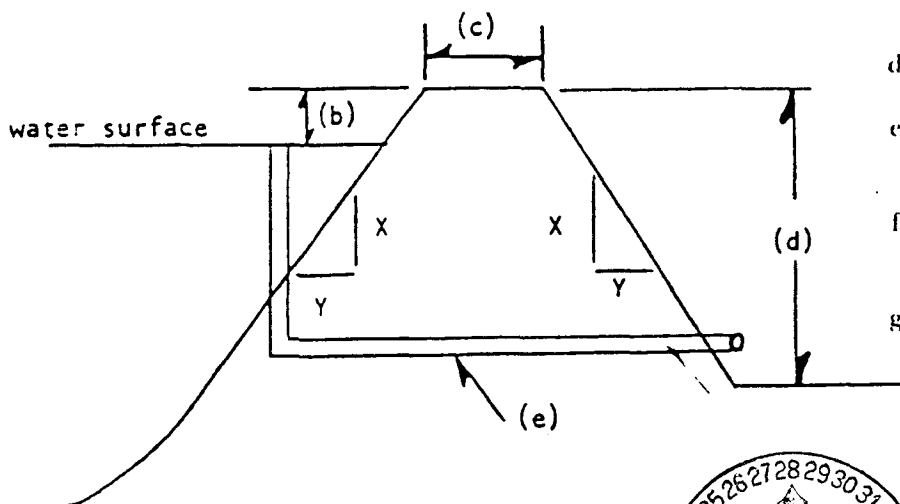
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



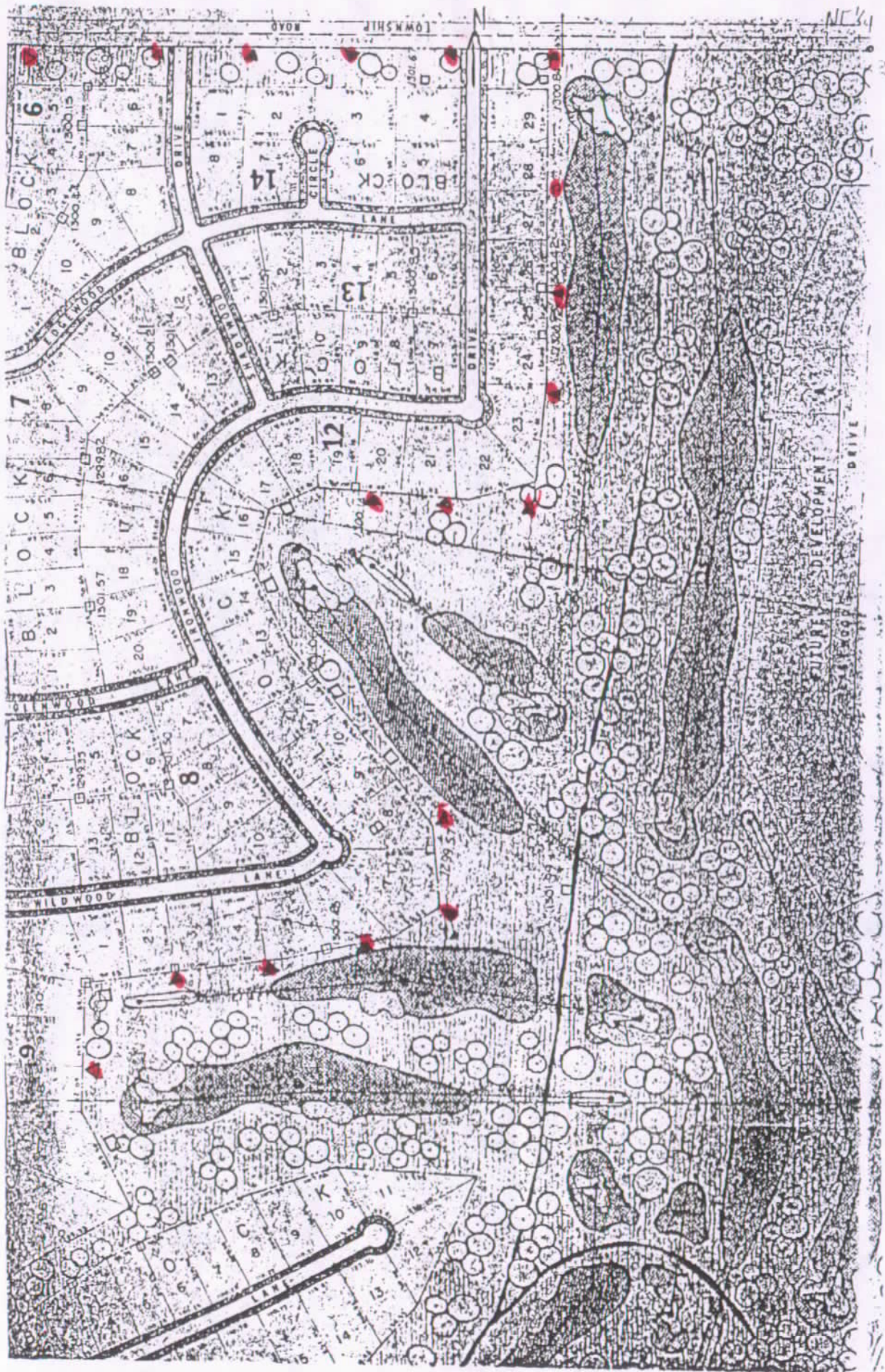
Signature of Applicant _____



PAGE NO.

Tom Rathjen
FOREMAN

[illegible]



Department of Agriculture
WI#1
5/87

SOIL/WATER COMPATIBILITY PERMIT
Division of Conservation

Office Use Only

4400-A

WR#

OWNERS NAME: MOCCASIN CREEK COUNTRY CLUB OWNERS ADDRESS: P.O. BOX 163
ABERDEEN SD 57401

COUNTY LAND LOCATED IN: BROWN PHONE: 605-226-0900

LEGAL DESCRIPTION:

☒ Well

☐ Surface

1. LOCATION (1) NW $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W; (2) SW $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W;
(1) SE $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W; (1) NW $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W
Depth _____



Legal Description	Acres	Legal Description	Acres
NE $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	10	NE $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	15
NW $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	1	SE $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	15
SE $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	14	NW $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	5
SW $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	5	SW $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	10

2. TYPE OF IRRIGATION: GRAVITY: _____ TOWLINE: _____ CENTER PIVOT: _____ GUN: _____ OTHER: (Specify) _____

3. CROPS TO BE IRRIGATED: ALFALFA AND GRASS.

WATER QUALITY:

4. WATER SAMPLE NUMBER: 89-0356

7. ADJUSTED (SAR): 3.23

5. SALINITY (EC X 10⁶): 1300

8. PERCENT SODIUM 20.40

6. SODIUM (SAR): 1.23

Requirements:

That a buffer strip along the creek be maintained to prevent streambank erosion and that strip not be irrigated.

The maximum allowable limits of salt and sodium buildup in the profile at the root zone (upper 12 inches of the soil profile) at the beginning of the growing season apply. They become applicable upon the issuing of a soil-water compatibility permit by the Division, or the Commission.

John Quick
Director, Division of Conservation

November 20, 1990

Date

☒ APPROVED
☐ DISAPPROVED
☐ WAIVER

☒ REQUIREMENTS

Soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.

Department of Agriculture
WI#1
5/87

SOIL/WATER COMPATIBILITY PERMIT
Division of Conservation

Office Use Only

4520

WR#

OWNERS NAME: MOCCASIN CREEK COUNTRY CLUB OWNERS ADDRESS: P. O. Box 163
Aberdeen, SD 57401

COUNTY LAND LOCATED IN: BROWN PHONE: 226-0900

LEGAL DESCRIPTION: 18 ☒ Well ☐ Surface

1. LOCATION: NE $\frac{1}{4}$ 33-T124N-R63W (See attached Map)
Depth: _____

Legal Description	Acres	Legal Description	Acres
NE $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	10	NE $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	15
NW $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	1	SE $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	15
SE $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	14	NW $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	5
SW $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	5	SW $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	10

2. TYPE OF IRRIGATION: GRAVITY: _____ TOWLINE: _____ CENTER PIVOT: _____ GUN: _____ OTHER: (Specify) SPRINKLER

3. CROPS TO BE IRRIGATED: GRASS TURF

WATER QUALITY:	
4. WATER SAMPLE NUMBER: <u>89-0356</u>	7. ADJUSTED (SAR): <u>3.23</u>
5. SALINITY (EC X 10 ⁶): <u>1300</u>	8. PERCENT SODIUM: <u>20.40</u>
6. SODIUM (SAR): <u>1.23</u>	

Requirements:

That a buffer strip along the creek be maintained to prevent stream bank erosion and that strip not be irrigated.



XXX APPROVED XXX REQUIREMENTS
DISAPPROVED
WAIVER

Director, Division of Conservation

September 6, 1990

Date

Soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.

Department of Agriculture
WI#1
5/87

SOIL/WATER COMPATIBILITY PERMIT
Division of Conservation

Office Use Only

4537

WR#

OWNERS NAME: MOCCASIN CREEK COUNTRY CLUB OWNERS ADDRESS: BOX 163
ABERDEEN, SD 57401

COUNTY LAND LOCATED IN: BROWN PHONE: 226-0900

LEGAL DESCRIPTION: SE $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W (36) ☒ Wells and Holding Pond ☐ Surface
1. LOCATION _____
Depth _____

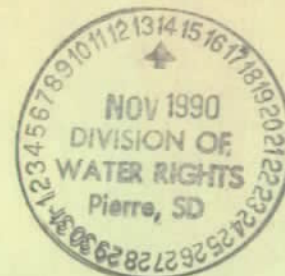
Legal Description	Acres	Legal Description	Acres
NE $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	15	NE $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	20
NW $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	2	SE $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	20
SE $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	20	NW $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	8
SW $\frac{1}{4}$ NE $\frac{1}{4}$ 33-T124N-R63W	10	SW $\frac{1}{4}$ SE $\frac{1}{4}$ 33-T124N-R63W	15

2. TYPE OF IRRIGATION: GRAVITY: _____ TOWLINE: _____ CENTER PIVOT: _____ GUN: _____ OTHER: SPRINKLER
(Specify)
3. CROPS TO BE IRRIGATED: GRASS TURF

WATER QUALITY:	
4. WATER SAMPLE NUMBER: <u>89-0356</u>	7. ADJUSTED (SAR): <u>3.23</u>
5. SALINITY (EC X 10 ⁶): <u>1300</u>	8. PERCENT SODIUM <u>20.40</u>
6. SODIUM (SAR): <u>1.23</u>	

Requirements:

That a buffer strip along the creek be maintained to prevent stream bank erosion and that strip not be irrigated.



[Signature]
Director, Division of Conservation

XXX APPROVED
 DISAPPROVED
 WAIVER
XXX REQUIREMENTS

OCTOBER 23, 1990
Date

Soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

412358 -

Pierre, August 28, 19 90

RECEIVED OF Moccasin Creek Country Club Box 163m Aberdeen SD 57402-0163

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

Fee for Application for Permit No. <u>5473-3</u> to Appropriate Water, to construct works and to put water to beneficial use	250	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. _____		
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	250 00

By

John H. H. H. H.
Chief Engineer

SOUTH Dakota Department of
Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181



August 16, 1990

Moccasin Creek Country Club
attn: Bruce Mitchell
P.O. Box 163
Aberdeen, SD 57401

8.24-90
sent back to Pierre
ABM

Dear Mr. Mitchell:

This letter is in reference to the water permit application received from you on August 15, 1990.

The application is incomplete for the following reasons:

- 1) Since this application is for a increased diversion rate of 0.43 cfs, the application filing fee required is \$250. I have enclosed the check you originally submitted for \$50.
- 2) The map must be signed by a South Dakota Registered Professional Engineer, A South Dakota Licensed Land Surveyor, or by a government employee who normally prepares maps as part of their regular duties (see enclosed instruction sheet).
- 3) I have taken the well logs from your previously permitted wells and included them with this permit application.

The Water Management board cannot consider a water permit application until it is complete and a Soil/Water Compatibility Permit is received from the Department of Agriculture. Please submit the \$250 application filing fee and a properly signed map and I will then begin processing your water permit application.

Feel free to contact me if you have any questions.

Sincerely,

Eric Gronlund

Eric Gronlund
Water Rights Division
605 773-3352

enclosures

Water Rights Division - DWNR
Conversation File Documentation

NAME OF PERSON OR FILE: Moccasin Creek Country Club

ADDRESS: Aberdeen

COUNTY:

DATE: 9/21/90

TELEPHONE:

RE: Discussion with Stever Shepard

COMMENTS:

I called the Country Club to try to clarify the number of wells they have and to discuss the 1 cfs per 70 acres. In our discussion, I found out that the water from the well are stored in a 2 acre foot pond which diverts water at 500 gpm. In telling Mr. Shepard that this permit should include the pond and the diversion rate from the pond, he stated that the plan to increase the pond's diversion rate to 800 gpm and irrigate an additional 10 to 15 acres. I told Mr. Shepard that with all these changes to their application that he should send a letter to me amending his application.

File in Permit or ther file as necessary. Use to document conversations and what the other party was told; why action or decision was made.

NAME: Eric Lundberg 9/21/90

Moccasin Creek Country Club

P. O. BOX 163

ABERDEEN, SOUTH DAKOTA 57401

September 27, 1990

South Dakota Dept. of
Water and Natural Resources
Joe Foss Bldg.
Pierre, S.D. 57501



RE: Update Water Permit Application

Dear Eric:

Following up on our phone conversation I have enclosed the material needed to bring our application and your staff up to date on our irrigation requirements here at Moccasin Creek C.C. I have included a blueprint of the property which details the eighteen shallow wells we presently hold permits for under permit numbers 1667-3 and 5349-3 in addition this blueprint shows the eighteen additional wells we need to supply our irrigation requirements. The location and size of the holding pond we've incorporated into the system is also indicated on the map and on form 2A of the permit application. As I indicated on the phone, the new automatic water system we want to install next year will require a 800 g.p.m. diversion rate out of the holding pond for a ten hour irrigation cycle which totals to 480,000 gallons per day at most. The typical cycle will be shorter in duration under normal rainfall situations. We are applying to irrigate additional acreage because the new system we want to install has a double row set-up on the fairways instead of the single row system we now use. This system is designed for efficiency and will negate any water wastage and run-off. The added diversion rate of 43 c.f.s. in addition to the .89 we are presently permitted for will provide adequate water resources for our recreational needs. Typically, each shallow sand-point well produces 15 g.p.m. on the average, so with 36 total sand-points we would be drawing 540 g.p.m. to feed our holding pond.

If I have omitted any further details needed to process this application in time of the October board meeting, please let us know as soon as possible.

Sincerely,

Steve Sheppard, Golf Course Manager



Report On Water Permit Application No. 5473-3
Moccasin Creek Country Club
October 10, 1990

This application proposes to appropriate an additional 0.43 cfs, to irrigate 35 additional acres, to add 18 wells approximately 30 feet deep all to be located in the NE 1/4 of section 33, T124N R63W and to authorize storage of 3 acre feet in a dugout. Water Right No. 1667-3 and Water Permit No. 5349-3, combined, appropriate 0.89 cfs from 18 wells located in the E 1/2 to irrigate 75 acres in the E 1/2; all located in section 33, T124N R63W. The total appropriation will authorize a diversion of 1.32 cfs from a total of 36 wells into a dugout (regulation pond) which is located in the SE 1/4 NE 1/4 of section 33, T124N R63W. Water will be diverted from the dugout at a diversion rate of 1.78 cfs to irrigate 110 acres located in the E 1/2 of section 33, T124N R63W in Brown County.

AQUIFER - ELM NORTHERN BROWN (E-NB)

The Elm Northern Brown (E-NB) is a glacial outwash (sand and gravel) under predominantly water table conditions in this area. The E-NB aquifer underlies 187,200 acres and contains an estimated 702,000 acre feet of recoverable water in Brown County (Hedges, 1982). The aquifer thickness is variable and test hole data supplied with the application indicates wells can be expected to be approximately 30 feet deep with a static water level of 12 to 15 feet below land surface.

The Division of Water Rights monitors one observation well BN-82F which is located about 1/2 mile west of this application. Water levels for this well show good correlation with wet and dry climatic conditions, that is, rising during wet years (recharge) and declining during dry years. Water levels fluctuate a few feet per year and range from a high of 3.1 feet below land surface to a low of 9.7 feet below land surface in observation well BN-82F. The effects of pumping are not obviously affecting the water level record (Water Rights, 1990).

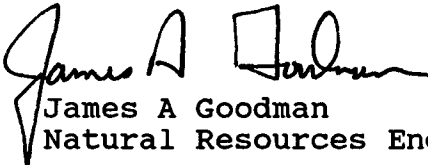
REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are no other nearby water permits/rights which obtain water from the E-NB aquifer. There are domestic wells in the area, however, the diversion rates for the existing and proposed wells average about 18 gpm and drawdowns from this diversion should not significantly affect water availability from the aquifer. The observation well record substantiates this conclusion.

CONCLUSIONS

1. Water is available from the E-NB aquifer.
2. The E-NB aquifer is under water table conditions and the proposed diversions rates are small so interference is not expected to be a problem.

3. The observation well record indicates the aquifer does recharge when water is available and that the aquifer is capable of sustaining additional withdrawals.
4. Any wells authorized by this application must be completed in accordance with SD Well Construction Standards.
5. The domestic well interference clause should be included as a qualification on this permit.
6. This application plus the existing permit/right authorize a maximum diversion of 1.32 cfs from 36 wells to be pumped into a dugout. The dugout may or may not be completed into the aquifer and could leak into or produce water from the aquifer depending upon ground water levels at the time. The diversion rate from the dugout is proposed to be 1.78 cfs. The total diversion that can be authorized for irrigation of 110 acres is 1.57 cfs. Any diversion rate from the dugout should be limited to 1.57 cfs.


James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

- 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 DWR, SDGS, Vermillion, SD, 57069.
- Water Rights, 1990, OBSERVATION WELL RECORDS FOR THE E-NB AQUIFER IN BROWN COUNTY, SD DWR, Div. of Water Rights, Pierre, SD, 57501.

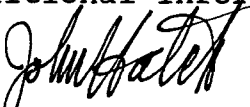
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5473-3, Moccasin Creek Country Club

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 5473-3, Moccasin Creek Country Club, P.O. Box 163, Aberdeen SD.

The Chief Engineer is recommending APPROVAL of Application No. 5473-3 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) in the public interest with the following qualifications:

1. The wells authorized pursuant to this permit shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04.
2. 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.
3. This permit is approved subject to the irrigation water use questionnaire being submitted each year.
4. Approval of Permit No. 5473-3 authorizes a maximum diversion of 1.32 cfs (593 gpm) from 36 wells authorized by Permit Nos. 5473-3, 5349-3 and 1667-3 into a 3 acre foot capacity dugout.
5. Diversion from the dugout for irrigation is limited to 1.57 cfs (705 gpm).

See report on application for additional information.


JOHN HATCH, Chief Engineer
October 25, 1990

 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

October 26, 1990

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

Bruce Mitchell
Moccasin Creek Country Club
box 163
Aberdeen SD 57401

Dear Mr. Mitchell:

Water Permit Application No. 5473-3 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 American News printed at Aberdeen SD. For your information, a copy of the notice is enclosed. Copies of the report and the Chief Engineer's recommendation are also 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 Intent to Appropriate Water and to arrange for payment. Early contact with the paper can eliminate delays. 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. We must receive Proof of Publication before the application can be considered by the Water Management Board.

Sincerely,



Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

October 26, 1990

American News
box 4430
Aberdeen SD 57401

ATTN: Legal Publications:

Enclosed is a Notice of Hearing on Application No. 5473-3 to be published twice. Please publish the first notice on or before November 8, 1990 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 Moccasin Creek Country Club, Box 163, Aberdeen SD 57401.

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,

Eric Gronlund
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

CUT HERE

FIRST TRANSMITTAL NOTICE

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

No. _____

Date _____

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

Name _____

Newspaper _____

Instruction to Newspaper - Publish first Notice on or before November 8, 1990 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5473-3 to Appropriate Water
and to Amend Water Permit No. 5349-3 and Water Right No. 1667-3

Notice is given that Moccasin Creek Country Club, P.O. Box 163, Aberdeen SD 57401 has filed an application for a water permit to appropriate an additional 0.43 cubic feet of water per second (cfs), to irrigate 35 additional acres, to add 18 wells, (Elm Northern Brown Aquifer) to be located in the NE1/4 Section 33 T124N-R63W, and to authorize storage of water in a 3 acre-feet dugout. Water Right No. 1667-3 and Water Permit No. 5349-3, combined, appropriate 0.89 cfs from 18 existing wells located in the E1/2 to irrigate 75 acres in the E1/2; all in Section 33 T124N-R63W. This application, combined with Nos. 1667-3 and 5349-3, is to authorize diversion of 1.32 cfs from a total of 36 wells into an existing 3 acre-feet dugout (regulating pond) located in the SE1/4 NE1/4 Section 33 T124N-R63W. Water is to be diverted from this pond at a diversion rate of 1.78 cfs to irrigate the acreage specified on Nos. 1667-3 and 5349-3, plus 35 additional acres located in the E1/2 Section 33 T124N-R63W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5473-3 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.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposing the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, 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 November 26, 1990. 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.

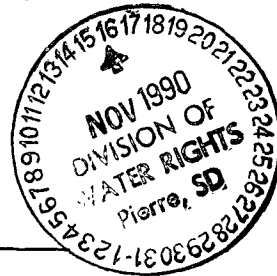
The Chief Engineer will act on this application in accordance with the above recommendation and no hearing will be held if the applicant does not contest the Chief Engineer's recommendation and no petition is filed opposing the application. If the applicant contests the recommendation or an interested person opposes the application, then the application will be considered by the Water Management Board. Petitions filed in support of the application will not require the Board to hear the application. The Board may conduct a hearing no sooner than 10:00 am, on December 5, 1990 at the Hilton Inn, Deerfield Room, 445 Mt. Rushmore Road, Rapid City SD and the hearing may be rescheduled for a later date. If the hearing is rescheduled, notice will be given of the time and place. The above hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by November 26, 1990.

The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. This hearing is an adversary proceeding. Any person filing a petition opposing the application and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact the Water Rights Division to request copies of information pertaining to this application or to assure access to the hearing by the handicapped.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
 County Brown)



I, Viola Benson

certify that the attached printed Notice was taken
 from the American News

A newspaper which during the whole time of publication of
 said notice herein after stated, has been and is printed and
 published in the city

of Aberdeen

County of Brown and State of South Dakota;
 that the said notice was published in said newspaper on the
 following two dates:

Nov 8 1990

Nov 15 1990

Viola Benson

(Signature)

Accounting

(Title)

11-15-90

(Date Signed)

Cost of Printing: \$77.00

The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. This hearing is an adversary proceeding. Any person filing a petition opposing the application and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact the Water Rights Division to request copies of information pertaining to this application or to assure access to the hearing by the handicapped.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3-1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSP 74:02-01 thru 74:02-01:15.

(No. 401 - Nov. 8, 15 - 2T)
**NOTICE OF HEARING on Application
 No. 5473-3 to Appropriate Water
 and to Amend Water Permit No.
 5349-3 and Water Right No. 1667-3**

Notice is given that Moccasin Creek Country Club, P.O. Box 163, Aberdeen, SD 57401 has filed an application for a water permit to appropriate an additional 0.43 cubic feet of water per second (cfs), to irrigate 35 additional acres, to add 18 wells, (Elm Northern Brown Aquifer) to be located in the NE 1/4 Section 33 T124N-R63W, and to authorize storage of water in a 3 acre-foot dugout. Water Right No. 1667-3 and Water Permit No. 5349-3, combined, appropriate 0.89 cfs from 18 existing wells located in the E 1/2 to irrigate 75 acres in the E 1/2; all in Section 33 T124N-R63W. This application, combined with Nos. 1667-3 and 5349-3, is to authorize diversion of 1.32 cfs from a total of 36 wells into an existing 3 acre-foot dugout (regulating pond) located in the SE 1/4 NE 1/4 Section 33 T124N-R63W. Water is to be diverted from this pond at a diversion rate of 1.78 cfs to irrigate the acreage specified on Nos. 1667-3 and 5349-3, plus 35 additional acres located in the E 1/2 Section 33 T124N-R63W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5473-3 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.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposing the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, 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 November 26, 1990. 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.

The Chief Engineer will act on this application in accordance with the above recommendation and no hearing will be held if the applicant does not contest the Chief Engineer's recommendation and no petition is filed opposing the application. If the applicant contests the recommendation or an interested person opposes the application, then the application will be considered by the Water Management Board. Petitions filed in support of the application will not require the Board to hear the application. The Board may conduct a hearing no sooner than 10:00 am, on December 5, 1990 at the Hilton Inn, Deerfield Room, 445 Mt. Rushmore Road, Rapid City, SD and the hearing may be rescheduled for a later date. If the hearing is rescheduled, notice will be given of the time and place. The above hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by November 26, 1990.

South Dakota



GREAT FACES. GREAT PLACES.

MAR 19 1991

DEPARTMENT OF WATER & NATURAL RESOURCES

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

Bruce Mitchell
Moccasin Creek Country Club
PO Box 163
Aberdeen, SD 57401

Dear Mr. Mitchell:

Enclosed is Water Permit No. 5473-3 For Irrigation as approved by the Water Management Board authorizing you to construct your water diversion system and put the water to beneficial use, not exceeding the limits as specified in the Water Permit.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

enclosures

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period - i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.



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

Date July 10, 1991

TO: Water Rights Division, DWNR
Joe Foss Building
Pierre SD 57501-3181

FROM: MOCCASIN CREEK C.C. P.O. Box 163 ABERDEEN
name address city S.D. 57401

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 5473-3.

Water Permit No. 5473-3 states that the diversion system is to be constructed by December 5, 1995, and that the water it put to beneficial use by December 5, 1999.

The diversion system was completed on July 1, 1991.
Applying the water to beneficial use was completed on July 1, 1991.

You may schedule an inspection so that the Water License may be issued.

John, We missed
a couple wells
when drilling, so
our total # of wells
for permits 5473-3, 5349-3
and 1667-3 is 34 instead
of 36. which is
satisfactory with us.

Steve Shepard for
signature
Moccasin Creek C.C.

Permit No. 5473-3
X 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, **23 October 1997**, made a thorough examination of the water use system constructed by **Moccasin Creek Country Club (Ross Santjer, Superintendent)** of **39084 130th Street, Aberdeen, SD** holder of Permit No. **1667-3, 5349-3, and 5473-3**, bearing the priority dates of **26 February 1969; 26 February 1969; and 30 November 1990 respectively** authorizing the diversion of **0.89, no additional, and 0.43 respectively** cu. ft. per second and/or the storage of **3.0 (under 5473-3)** acre-feet of the waters of **the Elm aquifer** for **irrigation** purposes, in **Brown** County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

Thirty one wells varying in depths from 28 to 45 feet and equipped with submersible pumps and motors. All wells are connected by various sizes of pvc lines and are pumped to a 3 acre foot holding pond. Water is pumped to 110 acres of greens and fairways of the golf course with a 75 Hp US Electric motor and a 10 Hp Grundfo motor.

B. Works used to transport water to place of use:

PVC lines varying in size from 1.5 inches to 6 inches. The lines are equipped with pop-up lawn sprinklers.

C. Works used to apply water to beneficial use:

Pop-up lawn sprinklers.

The system is in the following condition **good**. The points of diversions are located approximately as follows:

Thirteen wells under permit 1667-3 bearing a priority date of 26 February 1969:

**1460 feet west and 60 feet south of the east quarter corner of section 33 T124N R63W
1650 feet west and 40 feet south of the east quarter corner of section 33 T124N R63W
1360 feet west and 140 feet north of the east quarter corner of section 33 T124N R63W
1515 feet west and 150 feet north of the east quarter corner of section 33 T124N R63W
1700 feet west and 140 feet north of the east quarter corner of section 33 T124N R63W
180 feet west and 500 feet north of the east quarter corner of section 33 T124N R63W
350 feet west and 490 feet north of the east quarter corner of section 33 T124N R63W
400 feet west and 605 feet north of the east quarter corner of section 33 T124N R63W
470 feet west and 430 feet north of the east quarter corner of section 33 T124N R63W
460 feet west and 720 feet north of the east quarter corner of section 33 T124N R63W
510 feet west and 590 feet north of the east quarter corner of section 33 T124N R63W
1370 feet west and 860 feet north of the east quarter corner of section 33 T124N R63W
1500 feet west and 1030 feet north of the east quarter corner of section 33 T124N R63W**

Four wells under permit 5349-3 bearing a priority date of 26 February 1969:

2050 feet west and 115 feet south of the east quarter corner of section 33 T124N R63W

2050 feet west and 210 feet north of the east quarter corner of section 33 T124N R63W

1630 feet west and 1390 feet south of the northeast corner of section 33 T124N R63W

1610 feet west and 1180 feet south of the northeast corner of section 33 T124N R63W

Fourteen wells under permit 5473-3 bearing a priority date of 30 November 1990:

690 feet west and 500 feet south of the northeast corner of section 33 T124N R63W

930 feet west and 180 feet south of the northeast corner of section 33 T124N R63W

950 feet west and 370 feet south of the northeast corner of section 33 T124N R63W

950 feet west and 630 feet south of the northeast corner of section 33 T124N R63W

960 feet west and 890 feet south of the northeast corner of section 33 T124N R63W

1030 feet west and 1170 feet south of the northeast corner of section 33 T124N R63W

1220 feet west and 1170 feet south of the northeast corner of section 33 T124N R63W

1400 feet west and 1150 feet south of the northeast corner of section 33 T124N R63W

1250 feet west and 690 feet north of the east quarter corner of section 33 T124N R63W

1240 feet west and 460 feet north of the east quarter corner of section 33 T124N R63W

1420 feet west and 390 feet north of the east quarter corner of section 33 T124N R63W

1650 feet west and 340 feet north of the east quarter corner of section 33 T124N R63W

1890 feet west and 300 feet north of the east quarter corner of section 33 T124N R63W

2100 feet west and 70 feet north of the east quarter corner of section 33 T124N R63W

One dugout under 5473-3 bearing a priority date of 30 November 1990:

Located in the approximate center of the southeast of the northeast of section 33 T124N R63W

The works are capable of diverting and conveying to the place of use 0.89 cubic feet per second under 1667-3 and 5349-3 and 0.43 cubic feet per second of water under 5473-3 and storing 3.0 acre-feet of water under 5473-3 which is to be used for irrigation.

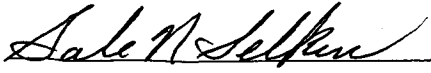
Water has been put to beneficial use to the maximum extent as follows:

	permit 1667-3	+	permit 5473-3	=	total
NENE section 33	10		5		15
NWNE section 33	1		1		2
SENE section 33	14		6		20
SWNE section 33	5		5		10
NESE section 33	15		5		20
SESE section 33	15		5		20
NWSE section 33	5		3		8
SWSE section 33	10		5		15

ALL IN SECTION 33 T124N R63W

comprising a total of 110 acres of land and the license should be issued for 1.32 cfs and 3.0 acre-feet of storage.
Applicable permit qualifications have been complied with: Yes ☒

Date Report Completed: 18 November 1997

A handwritten signature in cursive script, reading "Gale N. Selken", is written over a horizontal line.

Gale N. Selken, P.E.
Natural Resources Engineer
DENR, Water Rights Program

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5473-3

(1) Moccasin Creek Country Club, 39084 130th St, Aberdeen SD 57401 made Application No. 5473-3, August 15, 1990 for a water permit to store 3 acre-feet of water and divert 0.43 cubic feet of water per second (cfs) from groundwater (18 wells), Brown County, South Dakota for irrigation purposes. Permit No. 5473-3, with a priority date of November 30, 1990 was approved December 5, 1990 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 5, 1995 and for the application to beneficial use of said water on or before December 5, 1999.

Water Right No. 1667-3 and Water Permit No. 5349-3, combined, appropriate 0.89 cfs from 18 existing wells to irrigate 75 acres with a February 26, 1969 priority date. The applicable portions of Water Right No. 1667-3 and Water Permit No. 5349-3 are incorporated into No. 5473-3.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled store 3 acre-feet of water and to divert 1.32 cubic feet of water per second for beneficial use. The location of the diversion points are as follows:

all located in Section 33-T124N-R63W

Thirteen wells authorized by No. 1667-3 (February 26, 1969 priority date)

- 1,460 feet W and 60 feet S of the E quarter corner (NW 1/4 SE 1/4)
- 1,650 feet W and 40 feet S of the E quarter corner (NW 1/4 SE 1/4)
- 1,360 feet W and 140 feet N of the E quarter corner (SW 1/4 NE 1/4)
- 1,515 feet W and 150 feet N of the E quarter corner (SW 1/4 NE 1/4)
- 1,700 feet W and 140 feet N of the E quarter corner (SW 1/4 NE 1/4)
- 180 feet W and 500 feet N of the E quarter corner (SE 1/4 NE 1/4)
- 350 feet W and 490 feet N of the E quarter corner (SE 1/4 NE 1/4)
- 400 feet W and 605 feet N of the E quarter corner (SE 1/4 NE 1/4)
- 470 feet W and 430 feet N of the E quarter corner (SE 1/4 NE 1/4)
- 460 feet W and 720 feet N of the E quarter corner (SE 1/4 NE 1/4)
- 510 feet W and 590 feet N of the E quarter corner (SE 1/4 NE 1/4)
- 1,370 feet W and 860 feet N of the E quarter corner (SW 1/4 NE 1/4)
- 1,500 feet W and 1,030 feet N of the E quarter corner (SW 1/4 NE 1/4)

Four wells authorized by No. 5349-3 (February 26, 1969 priority date)

- 2,050 feet W and 115 feet S of the E quarter corner (NW 1/4 SE 1/4)
- 2,050 feet W and 210 feet N of the E quarter corner (SW 1/4 NE 1/4)
- 1,630 feet W and 1,390 feet S of the NE corner (SW 1/4 NE 1/4)
- 1,610 feet W and 1,180 feet S of the NE corner (NW 1/4 NE 1/4)

(continued)

Fourteen wells authorized by No. 5473-3 (November 30, 1990 priority date)

690 feet W and 500 feet S of the NE corner (NE 1/4 NE 1/4)
930 feet W and 180 feet S of the NE corner (NE 1/4 NE 1/4)
950 feet W and 370 feet S of the NE corner (NE 1/4 NE 1/4)
950 feet W and 630 feet S of the NE corner (NE 1/4 NE 1/4)
960 feet W and 890 feet S of the NE corner (NE 1/4 NE 1/4)
1,030 feet W and 1,170 feet S of the NE corner (NE 1/4 NE 1/4)
1,220 feet W and 1,170 feet S of the NE corner (NE 1/4 NE 1/4)
1,400 feet W and 1,150 feet S of the NE corner (NW 1/4 NE 1/4)
1,250 feet W and 690 feet N of the E quarter corner (SE 1/4 NE 1/4)
1,240 feet W and 460 feet N of the E quarter corner (SE 1/4 NE 1/4)
1,420 feet W and 390 feet N of the E quarter corner (SW 1/4 NE 1/4)
1,650 feet W and 340 feet N of the E quarter corner (SW 1/4 NE 1/4)
1,890 feet W and 300 feet N of the E quarter corner (SW 1/4 NE 1/4)
2,100 feet W and 70 feet N of the E quarter corner (SW 1/4 NE 1/4)

One dugout authorized by No. 5473-3 (November 30, 1990 priority date)

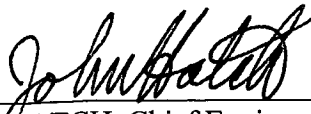
Approximate center of the SE 1/4 NE 1/4

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

all in Section 33-T124N-R63W			
NE 1/4 NE 1/4	15 acres	NE 1/4 SE 1/4	20 acres
NW 1/4 NE 1/4	2 acres	SE 1/4 SE 1/4	20 acres
SE 1/4 NE 1/4	20 acres	NW 1/4 SE 1/4	8 acres
SW 1/4 NE 1/4	10 acres	SW 1/4 SE 1/4	15 acres
Total 110 acres			

(4) Pursuant to South Dakota Water Law 46-5-30.1 Moccasin Creek Country Club, 39084 130th St, Aberdeen SD 57401 the holder and/or owner of Incorporated Water Permit No. 5473-3 is issued a license to appropriate water, the right to store 3 acre-feet of water and to use 1.32 cubic feet of water per second from groundwater (31 wells) with priority dates of February 26, 1969 and November 30, 1990 from the locations specified in (2) of this license.

The water to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation. This license is subject to any limitations or qualifications listed in Incorporated Water Permit No. 5473-3 and subject to South Dakota State Law.


JOHN HATCH, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

APR 28 1998

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 16, 1998

Permit No. 5473-3

Moccasin Creek Country Club
Ross Santjer, Superintendent
39084 130th Street
Aberdeen, SD 57401

Dear Mr. Santjer:

The investigation of your water use system was conducted on October 23, 1997, by Gale N. Selken, staff engineer. The investigation included the extent of application of water to beneficial use, as developed under Water Permit Nos. 5349-3 and 5473-3. Your final water right document, the Water License, can now be issued. Upon licensing, the applicable portions of Water Permit No. 5349-3 will be incorporated into 5473-3.

Statutes require that we charge a \$50.00 fee for the investigation and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

**Please remit fee to:
Department of Environment & Natural Resources
Water Rights Program
523 E. Capitol
Pierre, SD 57501-3181**

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Program
(605) 773-3352

NOTE: On check or money order, please specify your permit number. This will insure proper handling of the fee.

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

415658

Pierre, February 19, 1998

RECEIVED OF Moccasin Creek Country Club, 39084 130th Street, Aberdeen, SD 57401
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 _____

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. 547303

50 00

Fee for Filing Transfer Form _____

Fee for Filing Extension Request _____

Fee for _____

(Any Other Work Provided by Law)

Total

50 00

By _____
Chief Engineer

John Hatch



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

APR 28 1998

5473-3

Moccasin Creek Country Club
Ross Santjer, Superintendent
39084 130th St.
Aberdeen, SD 57401

Dear Mr. Santjer:

Enclosed is Water License No. 5473-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 415658 in the amount of \$50.00 which you paid for the investigation and issuance of the Water License.

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. 5473-3, 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.

Very truly yours,

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

ks
enclosures

NOTE: The applicable portions of Water Right No. 1667-3 and Water Permit No. 5349-3 are incorporated into No. 5473-3.

5473-3
RECEIVED

JAN 22 2008

WATER RIGHTS
PROGRAM

Water Rights Program- Eric Gronlund

My name is Ross Santjer; I am the Grounds Superintendent at Moccasin Creek Country Club in Aberdeen. We are looking at expanding our well field.

We currently are using 29 wells; we also have 3 well casings with no pumps. We are looking at drilling 5 new wells and using the existing 3 casings. Our permit right now is for 1.32 cubic feet per second, or 592 gallons per minute. All wells have a 15 GPM restrictor installed. So we currently can run at 435 GPM if all wells are running. If we add the new wells we will have a capacity of around 555 GPM max.

We usually pump 27-31 million gallons in a season. The most we water in a day is 380,000 that would only amount to 264 GPM if the wells run all day. We are not looking to pump any more than that. We want to be able to rotate the usage on the wells and the area we are pumping from. With this many wells there are always pumps and casings not working.

If you have any questions please feel free to call or e-mail me.

Thank-you

**Ross Santjer
Moccasin Creek Country Club
39084 130th st
Aberdeen, SD 57401
605 229-4099
380-5860
maintenance@moccasin creekcc.com**

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	(office use only) No. _____ Hydrologic Unit _____
	Basin _____
	Newspaper _____

Application For Permit To Appropriate Water For Irrigation
 Type of Application: New Vested Right X Amendment/Correction to Permit No. 5473-3
 (Use predates Mar 2, 1955)

 Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.) Drill 5 new wells & put motors in 3 existing casings not currently used.

- Name of Applicant Moccasin Creek Country Club Phone 605 229-4099
 (check one) X Owner Tenant/lessor
 Mailing Address 39084 130th St Aberdeen State SD 57401
 (Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.32 *CFS or 592 **GPM ***AF Total Acreage 110
 (*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable
- Source of water supply Shallow wells, About 40' Deep
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) All 8 wells in sec 33-T124N-R63W SE 1/4, NE 1/4
 County Brown
- County or counties where water will be used Brown
- Annual period during which water is to be used End of March to first of November
- 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
sec 33-T124N-R63W, NE1/4 NE 1/4	15	sec 33-T124N-R63W, NE 1/4 SE 1/4	20
sec 33-T124N-R63W, NW1/4 NE 1/4	2	sec 33-T124N-R63, SE 1/4 SE 1/4	20
sec 33-T124N-R63W, SE 1/4 NE 1/4	20	sec 33-T124N-R63, NW 1/4 SE 1/4	8
sec 33-T124N-R63W, SW 1/4 NE 1/4	10	sec 33-T124N-R63, SW 1/4 SE 1/4	15

- Give a description of the project. (Attach sheet if more space is needed)
5 New Wells & 3 existing casings. This would bring our total to 37 wells. All wells would have 15 GPM Flow restrictors. That would bring our total output to 555 GPM. Normally Not all running at the same time, we alternate running areas.

STATE OF SOUTH DAKOTA) SS

County of Brown

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)

- Ross Santjer, 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 Ross SantjerSubscribed and sworn to before me this 15th day of January 20 08
Julie Samket
 Notary Public signature

Form 2A

Supplemental Information

(Complete applicable portions only)

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 6" Depth 37' - 40'
- b) Casing Type 5" PVC Diameter 5" Thickness _____
- c) Screen Type 5" .025 Diameter 5" 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 _____ On property owned by others _____

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 _____

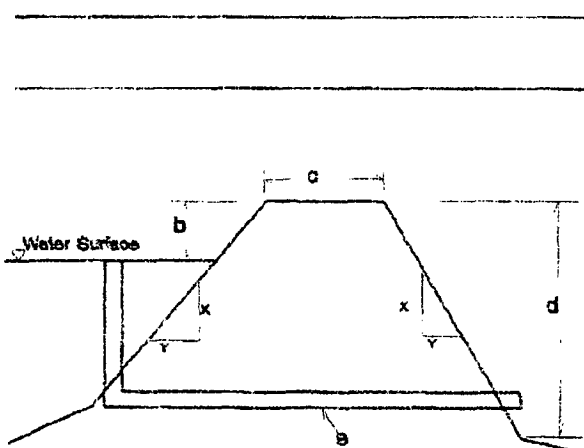
3. Dugout Information

- a) Surface Dimensions _____ 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

**Well Drilling • Trenching
Water and Sewer Systems**

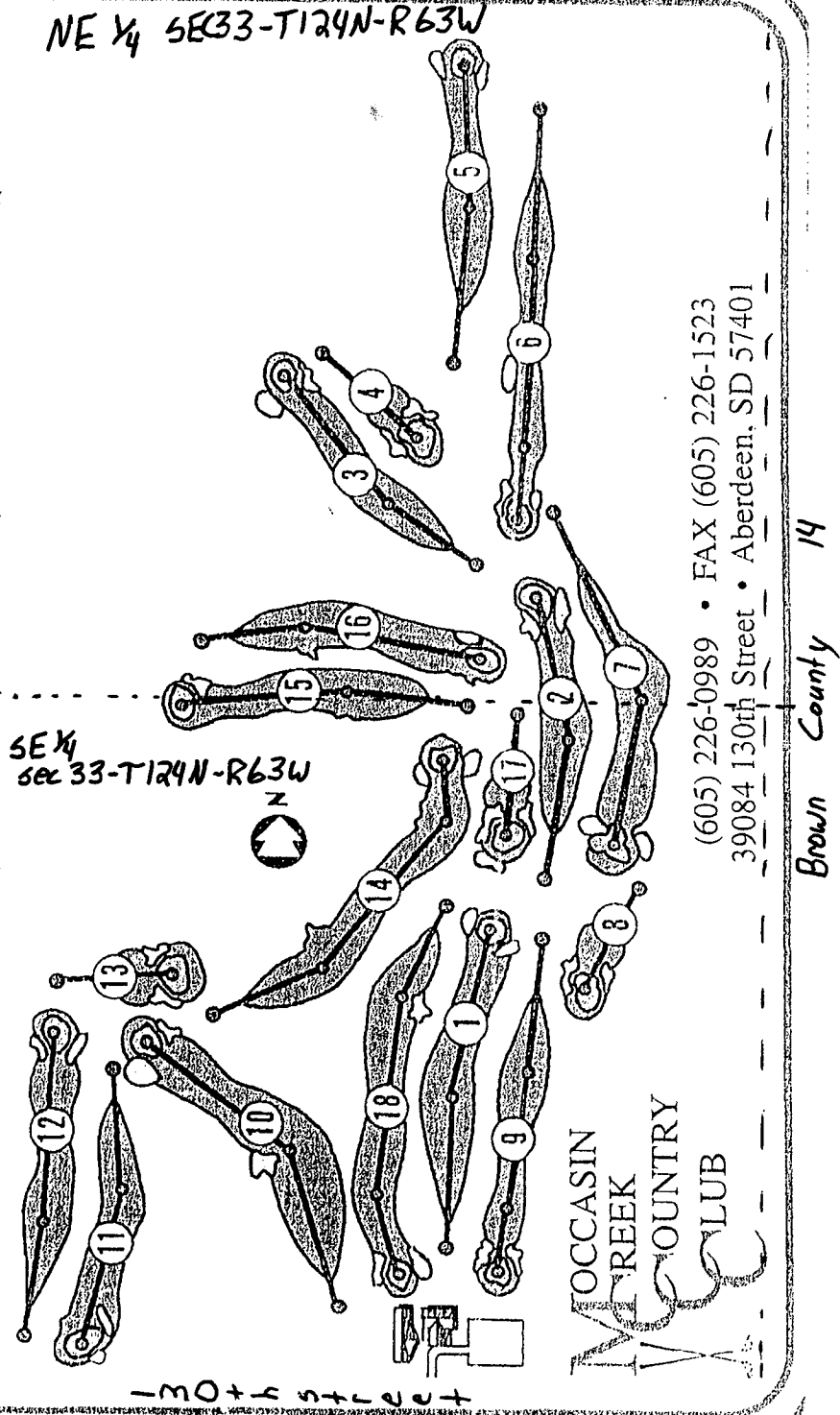
Mailing Address
1201 Karen St.
Watertown, SD
57201-1151

[illegible]

areas around cart paths that are a result of cart usage) are immovable obstructions. All flood pumps (usually located on the sides of drainage dikes), culverts, french drains, and pump houses are immovable obstructions. Relief without penalty may be taken as provided in Rule 24-2.

- Anywhere "through the green," a ball which is **EMBEDDED** in its own pitch-mark in the ground, except in loose sand, may be lifted without penalty, cleaned and dropped as near as possible to the spot where it lay but not nearer the hole.

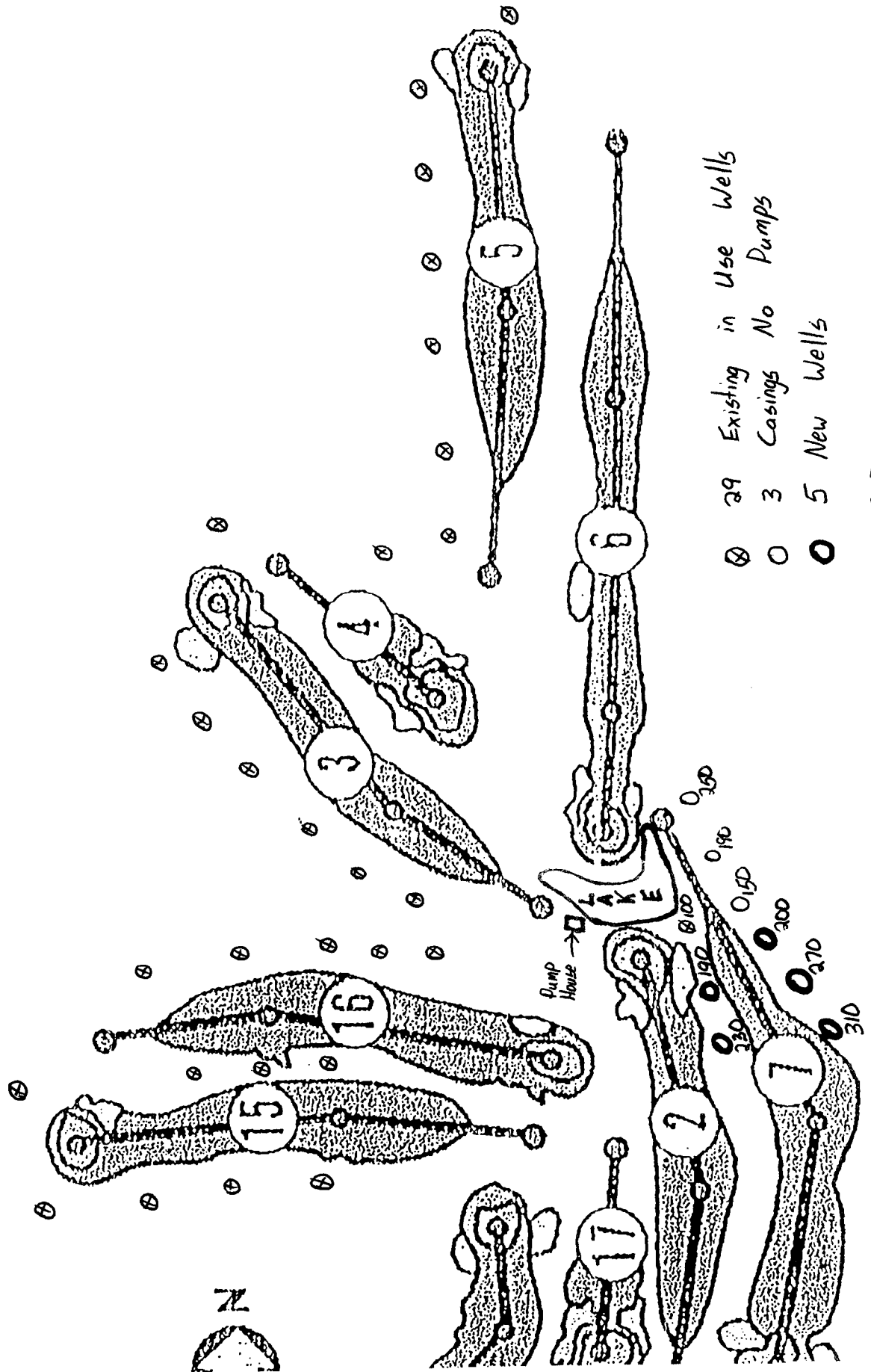
- **YARDAGE MARKERS** are located on sprinkler heads and disks located in the middle of the fairways. All yardages are measured to the middle of the greens. Red disks - 100 yards; White disks - 150 yards; Blue disks - 200 yards. Yardage disks and sprinkler heads are played as immovable obstructions. Relief without penalty may be taken as provided in Rule 24-2.



Electric
1790 yards

Pipe
2" 440 yards
3" 90 yards

Trenching
630 yards



Approval of Additional Diversion Point

NAME: Moccasin Creek Country Club, c/o Ross Santjer**ADDRESS:** 39084 130th Street, Aberdeen SD 57401**DATE:** March 4, 2008**COUNTY:** Brown**TELEPHONE:** 605 229-4099

Moccasin Creek Country Club has made a request to construct an additional five wells and put into production three existing wells currently without pumps in place for irrigation of the golf course.

Water Right No. 5473-3 appropriates 1.32 cubic feet of water per second from thirty one (31) wells completed into the Elm Northern Brown Aquifer located in the N $\frac{1}{2}$ SE $\frac{1}{4}$ and NE $\frac{1}{4}$ Section 33, T124N, R63W to irrigate 110 acres located in the SE $\frac{1}{4}$ and NE $\frac{1}{4}$ Section 33; all in T124N-R63W. Water from the wells is diverted to a lake / regulating pond prior to being applied to the golf course. The water right bears a priority date of:

- February 26, 1969 for thirteen wells originally authorized by Right No. 1667-3
- February 26, 1969 for four wells originally authorized by Right No. 5349-3
- November 30, 1990 for fourteen wells authorized by Right No. 5473-3.

The request states there are currently using 29 wells. This is two less wells than authorized by Right No. 5473-3. It is assumed that either two wells failed in the past or the license included two of the wells that did not have a pump in place.

The request states that production from each well is restricted to 15 gpm. The country club wants to have the ability to rotate the wells to better manage pumping and is not looking to pump more water. The eight wells to be put into production are all in the SE $\frac{1}{4}$ and NE $\frac{1}{4}$ Section 33, T124N, R63W

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

The request states the depth of the wells will be 37 – 40 feet deep. The water source remains the Elm Northern Brown Aquifer. The request states the wells are restricted to 15 gpm each. All 37 wells operating at the same time equates to 1.24 cfs which is less than the amount licensed. No additional water is to be appropriated by this request. The request states that with rotation of the wells the average use will equate to 264 gpm.

- **If irrigation, no new land is irrigated**

No additional land is to be irrigated above the 110 acres authorized by Water Right No. 5473-3. This request is solely to authorize additional wells.

- **Review of Existing Diversions**

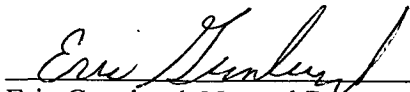
A review of existing diversions from the Elm Northern Brown Aquifer in the area was conducted. The closest existing water right (No. 1678-3) from this aquifer is approximately 2 $\frac{1}{2}$ miles south of Section 33. This water right is to divert from dugouts that are constructed into the aquifer. In addition, the city of Aberdeen holds Permit No. 6546-3 to appropriate 4.67 cfs (2,520 acre feet annually) from six wells located over three miles north of Section 33. The staff report prepared on Aberdeen's permit did not address the

country club's water right. The report did state interference is not a concern from a different city well located approximately one mile north.

There are 5 domestic wells and 3 geothermal wells on the Water Rights Program's well log database within Section 33 and the surrounding sections to the country club's wells. The additional wells are not likely to result in adverse impact to domestic wells. This review of database records does not include well reports that were not filed nor does it provide an indication whether the domestic wells are still in use.

RECOMMENDED ACTION

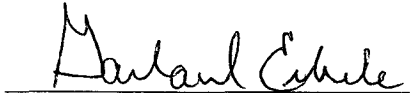
Based on the above criteria, it is recommended that the additional diversion points be authorized pursuant to SDCL 46-5-13.1.



Eric Gronlund, Natural Resources Engineer
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

This additional diversion points do not increase the potential for adverse effects to existing diversions.



Garland Erbele, Chief Engineer
Water Rights Program



15413-3
**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 13, 2008

Ross Santjer
Moccasin Creek Country Club
39084 130th Street
Aberdeen SD 57401

Dear Mr. Santjer:

I am writing in regard to the Country Club's request to construct an additional five wells and put into production three existing wells for irrigation of the golf course authorized by Water Right No. 5473-3.

Water Right No. 5473-3 appropriates 1.32 cubic feet of water per second from thirty one (31) wells completed into the Elm Northern Brown Aquifer located in the N ½ SE ¼ and NE ¼ Section 33, T124N, R63W to irrigate 110 acres located in the SE ¼ and NE ¼ Section 33; all in T124N-R63W. Water from the wells is diverted to a lake / regulating pond prior to being applied to golf course. Although 31 wells are listed on the water right, the request states only 29 are currently in production. This approval of this request will authorize a total of 37 wells for use in irrigating the golf course.

Upon review of the request and pursuant to SDCL 46-5-13.1, the additional wells to be completed into the Elm Northern Brown Aquifer are authorized without application or publication of a notice of hearing. The additional wells will be located in the NE ¼ and SE ¼ of Section 33, T124NN, R63W.

No additional appropriation above the 1.32 cfs (592 gpm) currently authorized by Water Right No. 5473-3 is authorized. If the combined diversion rate from the wells exceeds 1.32 cfs, a new water permit must be obtained.

If you have any questions, please contact Eric Gronlund at (605) 773-3352.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program

SOUTH DAKOTA WATER WELL COMPLETION REPORT

5473-3

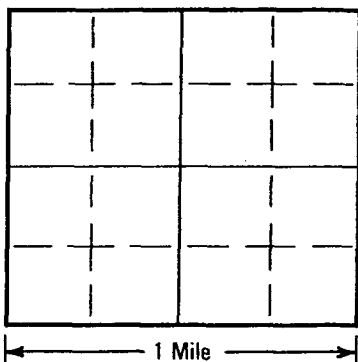
07-92

Location SW 1/4 NE 1/4 Sec 33 Twp 124N Rg 63W
County Brown North

Please mark well location with an "X"

Well # 24

Well Completion Date

5-15-07

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? None ft. from None (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

mud Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>SOR 21</u> LB/FT	<u>5</u> IN	<u>0</u> FT	<u>29 1/2</u> FT	<u>7 1/8</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Bentinite</u>	<u>2</u>	_____ lb./gal	<u>0</u> ft.	<u>24</u> ft.
_____	_____	_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure Pressure Grouted Through Tremie PipeSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 5 IN Length 10 1/2 FEETMaterial P125 T12Slot Size .025 Set From 29 1/2 Feet to 40 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: Chlorine
☐ NO, Why Not? Circuit 2nd
Before + during
Gravel Packing

Laboratory sent to for water quality analysis

Well Owner: _____

Business Name: Moccasin Creek CountryAddress: 39084 130th ST ClubAberdeen, S.D. 57401

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top Soil</u>	<u>0</u>	<u>3</u>
<u>Brown Clay</u>	<u>3</u>	<u>12</u>
<u>Dark Clay - Black + Gray</u>	<u>12</u>	<u>17</u>
<u>Light Blue Clay (Soft)</u>	<u>17</u>	<u>23</u>
<u>Gray Sand (Fine To Med)</u>	<u>23</u>	<u>33</u>
<u>Blue Clay</u>	<u>33</u>	<u>35 1/2</u>
<u>Coarse Gray Gravel</u>		
<u>w/ Clay lenses</u>	<u>35 1/2</u>	<u>39 1/2</u>

STATIC WATER LEVEL 11

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: Developed☐ Bailedw/ Air 60 gpm☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____

GPM

_____ ft. After _____ Hrs. pumped _____

GPM

If pump installed, pump rate _____

GPM

REMARKS

RECEIVED

FEB - 1 2008

WATER RIGHTS PROGRAM

This well was drilled under license # 4

And this report is true and accurate.

Drilling firm Bellis Bros

Signature of License Representative:

Se Roy Bullis

Signature of Well Owner or Equitable Property Holder:

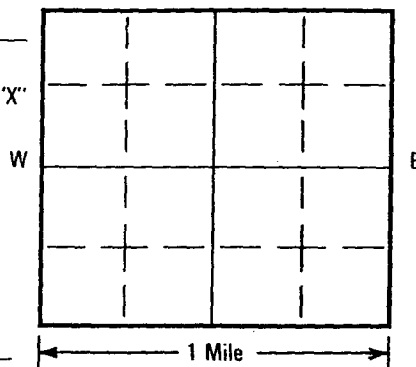
David SantnerDate: 5-15-07

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location 1/4 1/4 Sec 33 Twp 124N Rg 63W
County Brown

Please mark well location with an "X"

Well # 25

Well-Completion Date

5-15-07

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? None ft. from None (identify source).

PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well
METHOD OF DRILLING: mud RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>SDR 21 LB/FT</u>	<u>5 IN</u>	<u>0 FT</u>	<u>27 FT</u>	<u>7 7/8 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>Bentonite</u>	<u>2</u>	_____ lb./gal	<u>0</u> ft	<u>23</u> ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure Pressure Grouted
Through Tremie PipeSCREEN: ☐ Perforated pipe ☐ ManufacturedDiameter 5 IN Length 11 FEETMaterial PlasticSlot Size .025 Set From 27 Feet to 38 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: Chlorine
☐ NO, Why Not? Circulated
Through Before &
during Gravel

Laboratory sent to for water quality analysis

Well Owner: _____

Business Name: Moccasin Creek CountryAddress: 39084 130th St. Club
Aberdeen, S.D. 57401

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	2
Brown, yellow & Black		
12yens of clay (soft)	2	18
Soft Blue clay (light)	18	22
Gray sand (med)	22	32
Blue clay (med)	32	33 1/2
Coarse Gray Gravel		
w/ clay lenses	33 1/2	38
Blue clay (Firm)	38	41 1/2

STATIC WATER LEVEL 10 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: Developed
☐ Bailed w/ Air 50gpm
☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

RECEIVED

FEB - 1 2008

WATER RIGHTS
PROGRAMThis well was drilled under license # 4

And this report is true and accurate.

Drilling firm Bullis Bros

Signature of License Representative:

Le Roy Bullis

Signature of Well Owner or Equitable Property Holder:

Cross SamirDate: 5-15-07

SOUTH DAKOTA WATER WELL COMPLETION REPORT

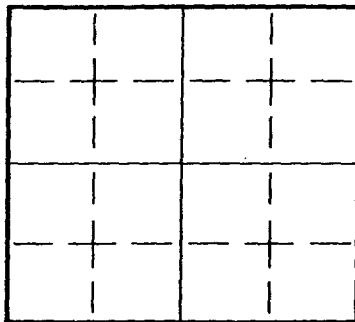
07-92

Location SW 1/4 NE 1/4 Sec 33 Twp 124N Rg 63W
 County Brown North

Please mark well location with an "X"

Well # 26

Well-Completion Date

5-15-07

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? None ft. from None (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

mud Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT DIAMETER FROM TO HOLE DIAMETER
50221 LB/FT 5 IN 0 FT 28 1/2 FT 7 7/8 IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN

GROUTING DATA

Grout Type Bentonite No. of Sacks _____ Grout Weight _____ lb./gal From 0 ft To 23 ft
 _____ lb./gal _____ ft _____ ft

Describe grouting procedure Pressure Grouted
Through Tremie Pipe

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 5 IN Length 8 1/2 FEET

Material P125TIC

Slot Size 25 Set From 28 1/2 Feet to 37 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: Chlorine
Circulized
Before + during
Gravel Packing

Laboratory sent to for water
 quality analysis

Well Owner: _____

Business Name: Moccasin Creek Country

Address: 39084 130th St. Club
Aberdeen, S.D. 57401

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top Soil</u>	<u>0</u>	<u>2</u>
<u>Brownish Gray Clay</u>		
<u>Very Soft - Crumbly</u>	<u>2</u>	<u>12</u>
<u>Fine Gray Sand</u>	<u>12</u>	<u>17</u>
<u>Blue Clay Soft</u>	<u>12</u>	<u>22</u>
<u>Fine Gray Sand w/ Shale</u>	<u>22</u>	<u>32</u>
<u>Coarse Gray Gravel</u>		
<u>w/ Clay lenses</u>	<u>32</u>	<u>36 1/2</u>
<u>Blue Clay</u>	<u>36 1/2</u>	<u>40</u>

STATIC WATER LEVEL 10

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: Developed w/☐ BailedAir 45gpm☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____

GPM

_____ ft. After _____ Hrs. pumped _____

GPM

If pump installed, pump rate _____

GPM

REMARKS

RECEIVED

FEB - 1 2008

WATER RIGHTS
PROGRAMThis well was drilled under license # 4

And this report is true and accurate.

Drilling firm Bullis Bros

Signature of License Representative:

Se. Roy Bullis

Signature of Well Owner or Equitable Property Holder:

Don SontgerDate: 5-15-07

SOUTH DAKOTA WATER WELL COMPLETION REPORT

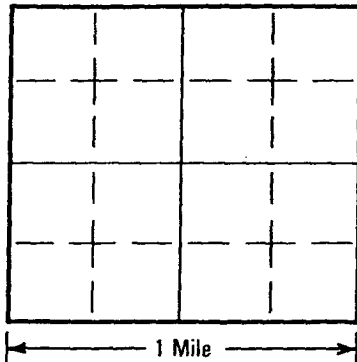
07-92

Location SW 1/4 NE 1/4 Sec 33 Twp 124N Rg 63W
 County Brown North

Please mark well location with an "X"

Well # 27

Well-Completion Date

5-15-07

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? _____ ft. from None (identify source).

PROPOSED USE:

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

METHOD OF DRILLING: Mud RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>SDR 21</u> LB/FT	<u>5</u> IN	<u>0</u> FT	<u>30</u> FT	<u>7 7/8</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type Bentonite No. of Sacks 2 Grout Weight _____ lb./gal From 0 ft. To 23 ft.
 _____ lb./gal _____ ft. _____ ft.

Describe grouting procedure Pressure Grouted
Through Tremie Pipe

SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 5 IN Length 10 FEETMaterial P125TICSlot Size 025 Set From 30 Feet to 40 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: ChlorineNO, Why Not? Circulated

Before + during
Gravel Packing

Laboratory sent to for water
 quality analysis

Well Owner: _____

Business Name: Moccasin Creek Country

Address: 39084 130th St. Club
Aberdeen, S.D. 57401

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	1 1/2
Brown Clay Crumbly	1 1/2	9 1/4
Light Blue Clay (med)	14	16
Fine yellow sand	16	18 1/2
Blue Clay (Firm)	18 1/2	19 1/2
Grzy sand med	19 1/2	25
Course Grzy sand	25	35
Course Grzuel	35	40
Course sand Tight	40	44 1/2
Blue Clay	44 1/2	48

STATIC WATER LEVEL 10 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: Developed w/☐ BailedAir 30 GPM☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS Set casing + screen
To 45'. Pumped poorly.
Pulled Back To 40' +
got 30 gpm

This well was drilled under license # 4

And this report is true and accurate.

Drilling firm Bullis Bros

Signature of License Representative:

Se Roy Bullis

Signature of Well Owner or Equitable Property Holder:

Chris SantierDate: 5-15-07

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SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

 Location SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 33 Twp 124N Rg 63W
 County Brown *Key Arc Map* North

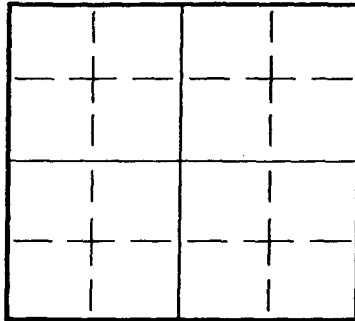
Please mark well location with an "X"

W

E

Well # 28

Well Completion Date

5-15-07

LOCATION:

 Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? None ft. from None (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Mad Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>SDR</u> LB/FT	<u>21</u> IN	<u>0</u> FT	<u>26</u> FT	<u>8 1/8</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

 Grout Type Bentonite No. of Sacks 2 Grout Weight _____ lb./gal From 0 ft. To 21 ft.
 _____ lb./gal _____ ft.

 Describe grouting procedure Pressure Grouted
Through Tremie Pipe
SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 5 IN Length 11 FEETMaterial PlasticSlot Size .025 Set From 26 Feet to 37 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: Chlorine

Laboratory sent to for water quality analysis

☐ NO, Why Not? CirculizedBefore + during
Gravel Packing

Well Owner: _____

Business Name: Moccasin Creek CountryAddress: 39084 130th St, ClubAberdeen, S.D. 57401

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top Soil</u>	<u>0</u>	<u>2</u>
<u>yellow Brown Clay med</u>	<u>2</u>	<u>10</u>
<u>Dark Clay + Black soil</u>	<u>10</u>	<u>17</u>
<u>Light Blue Clay</u>	<u>17</u>	<u>20</u>
<u>Fine Grzy Sand</u>	<u>20</u>	<u>23</u>
<u>Med Grzy Sand w/ coarse</u>		
<u>Gravel</u>	<u>23</u>	<u>32</u>
<u>Clay w/ Gravelly lenses</u>	<u>32</u>	<u>38</u>
<u>Rock</u>	<u>38</u>	<u>39</u>
<u>Gravelly Clay</u>	<u>39</u>	<u>41</u>

STATIC WATER LEVEL 10 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: Developed☐ Bailedw/ Air 50gpm☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

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This well was drilled under license # 4

And this report is true and accurate.

Drilling firm Bullis Bros

Signature of License Representative:

Se Roy Bullis

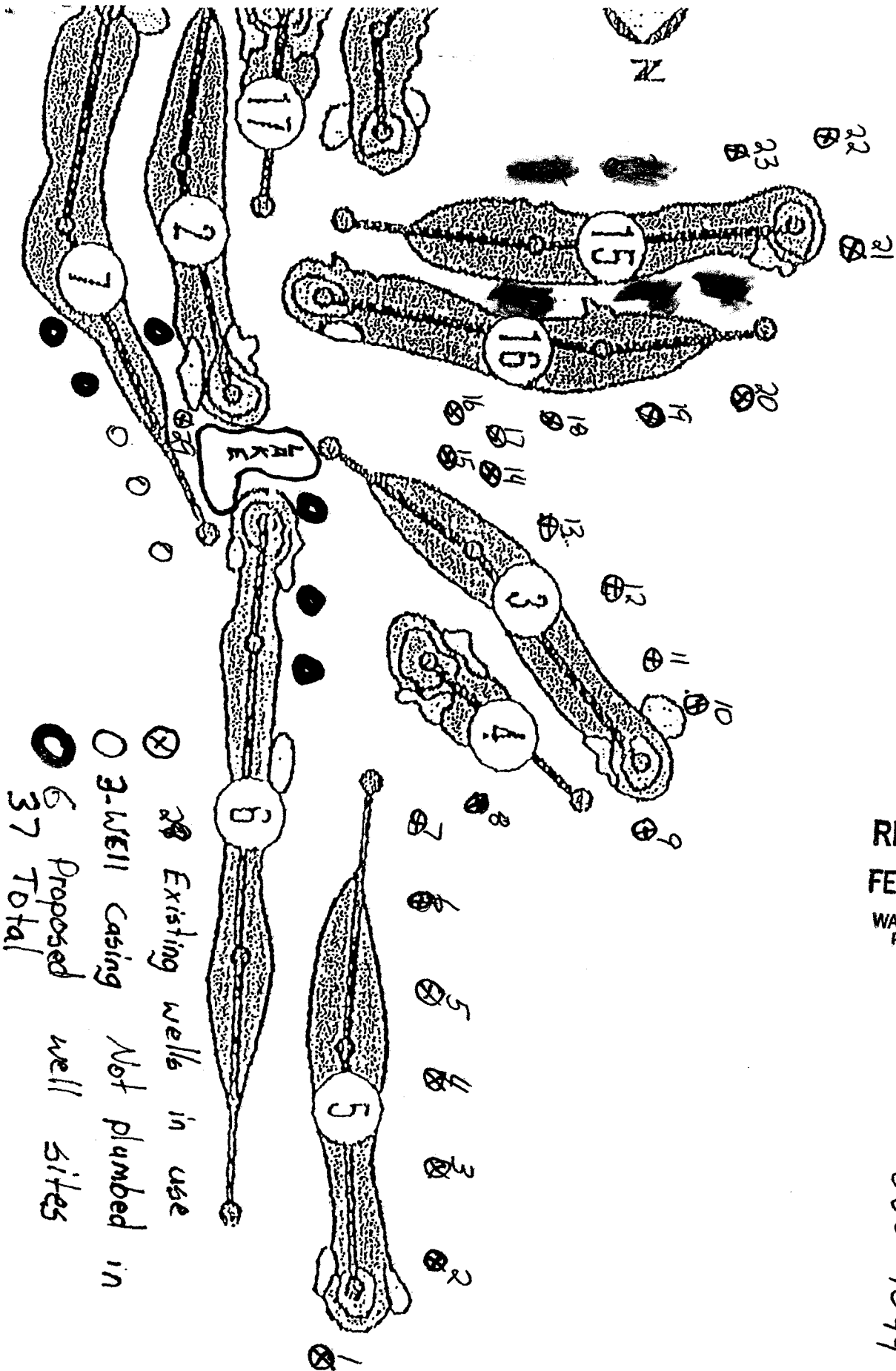
Signature of Well Owner or Equitable Property Holder:

Gross SantyginDate: 5-15-07

Moccasin Creek C.C.
 39084 130th St
 Aberdeen, SD 57401
 605 229-4099

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24-28 New Drilling
 5-07
 Bullis Bros
 886-4044



⊗ Existing wells in use
 ○ 3-Well casing Not plumbed in
 ● Proposed well sites
 37 Total