

WATER PERMIT NO. 6134-3

Name of Applicant: Dan Christensen

Address: Box 235, Hurley SD 57036

Phone: 605 238-5854

Amount of Water Claimed: 1.11 cfs

Total Acres: 60

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Turner

Type of Waste Disposal System: NA

Location: ½ northeast of Hurley

PRIORITY Date Received: 3-26-1999

Fee: \$150.00

Corrected Application Received: 4-1-1999

Period of Annual Use: April 1- October 31

Remarks:

Diversion Point: SW ¼ SE ¼

Sec 23-T98N-R53W

Land to be Irrigated: W ½ SE ¼

Sec 23-T98N-R53W

Depth of Well: 50 feet

Well Driller:

Remarks: log not drilled

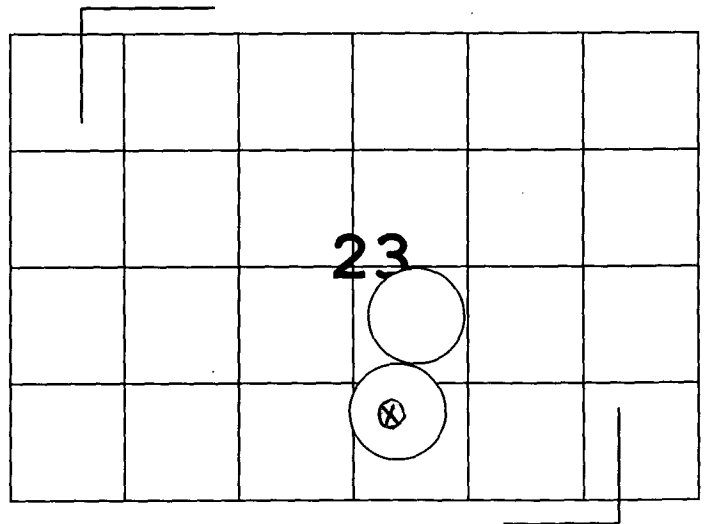
Type of Map: aerial

Prepared by: Shelly Ihnen, Turner Co. FSA

Reviewed and the Number Assigned on: 4-1-1999

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



SOUTH DAKOTA
WATER PERMIT NO. 6134-3

Date of first receipt of application March 26, 1999.

Date of return to applicant for corrections, amendments or changes March 29, 1999.

Date of receipt of corrected application April 1, 1999.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6134-3 to Dan Christensen, Box 235, Hurley SD 57036 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. 6134-3 appropriates 1.11 cubic feet of water per second (500 gallons per minute) from one well (Parker Centerville Aquifer) 50 feet deep located in the SW ¼ SE ¼ Section 23 to irrigate 60 acres located in the W ½ SE ¼ Section 23; all in T98N-R53W.
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 March 26, 1999.
4. The date of approval of Permit No. 6134-3 is May 24, 1999.
5. One-fifth of the construction is to be completed on or before November 24, 2001.
6. All construction is to be completed on or before May 24, 2004.
7. Water is to be put to beneficial use on or before May 24, 2008.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6134-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.
3. SDCL 46-5-6 allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires. Therefore, Permit No. 6134-3 authorizes a maximum diversion rate of 1.11 cfs for the irrigation of 60 acres with an annual volume not to exceed 2 acre-feet of water per acre per year.

(continued)

Water Permit No. 6134-3

Dan Christensen

Page 2

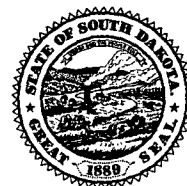
4. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: John Hatch
John Hatch, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

AUG 6 1999

date





Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	(office use only)	
	No. <u>6134-3</u>	Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>	
	Newspaper <u>Hurley Leader, Hurley, SD</u>	

Application For Permit To Appropriate Water For Irrigation

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

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

- Name of Applicant DAN CHRISTENSEN Phone 238-5854
(check one) X Owner Tenant/lessee
Mailing Address Box 235 Hurley State S.D. 57036
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.11 *CFS or 500 **GPM ***AF Total Acreage 60
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
SW1/4 SE1/4 Sec 23-98-53 Hurley Turn.
County TURNER
- County or counties where water will be used TURNER
- Annual period during which water is to be used APRIL - October
- 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
SW1/4 SE1/4 Sec 23-98-53	30		
NW1/4 SE1/4 Sec 23-98-53	30		

8. Give a description of the project. (Attach sheet if more space is needed)

This will be a piece of ground that I will put a used center pivot on. It probably will have to be used as a windshield Irr. pass or 2 small circles.

STATE OF SOUTH DAKOTA) SS
County of TURNER

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, DAN CHRISTENSEN, 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 Dan Christensen

Subscribed and sworn to before me this 24th day of March 19 99

Charlotte Lange 3-15-03
Notary Public signature

Supplemental Information

(type or print in ink)



1. Well Information - Proposed Construction

- a) Drill Hole Diameter 30" Depth 50'
- b) Casing Type plastic Diameter 16" Thickness 1/2"
- c) Screen Type plastic Diameter 16" Thickness 1/2"
- d) Gravel Pack per rock Length of Gravel Pack 30'
- e) Depth to Top of Water Bearing Material 10'
- f) Depth to Water (ground surface to water level) 10'
- g) Distance to nearest existing domestic well:
- On applicants property 650' On property owned by others FRANK Roman

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) Center Pile
- b) System Capacity (gallons) 600 gall Year Constructed 1999
- c) Connected to the City of _____ Sanitary System

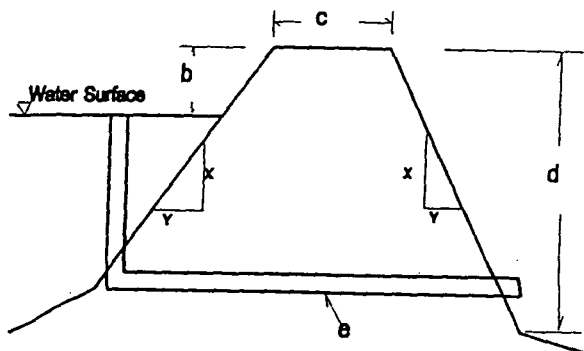
3. Dugout Information

- 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

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

NE 416079

Pierre, March 26, 1999

RECEIVED OF Dan Christensen, Box 235, Hurley, SD 57036
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>6134-3</u> to Appropriate Water, to construct and to put water to beneficial use _____	150	00
Fee for Application for Permit No. _____ to Appropriate Water, for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	150 00

By _____
Chief Engineer

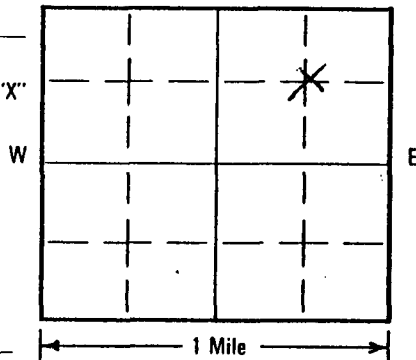
John Hatch

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NE 1/4 NE 1/4 Sec 26 Twp 44N Rg 98W S3
County Turner

Please mark well location with an "X"



Well Completion Date

6/9/97

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? _____ ft. from _____ (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Boring MachineCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
_____ LB/FT	<u>16</u> IN	<u>0</u> FT	<u>52</u> FT	<u>30</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
_____	_____	_____ lb./gal	_____ ft.	_____ ft.
_____	_____	_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure Pea rock 15'-52' @ gravel
5'-15' Cement 0'-5'SCREEN: ☐ Perforated pipe ☐ ManufacturedDiameter 16 IN Length 20 FEETMaterial PLASTICSlot Size .085 Set From 32 Feet to 52 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: _____

NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: Dan Christensen
Business Name: _____
Address: Box 235 Hurley S.D. 57038

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top soil</u>	<u>0'</u>	<u>3'</u>
<u>Gravel</u>	<u>3'</u>	<u>10'</u>
<u>Water bearing sand</u>	<u>10'</u>	<u>52'</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:

☐ Pumped Describe: NO TEST☐ Bailed _____☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

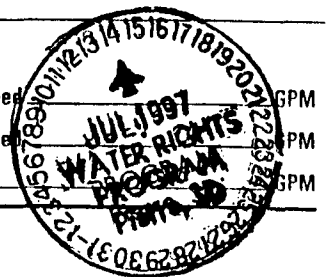
_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

This well was drilled under license # 478

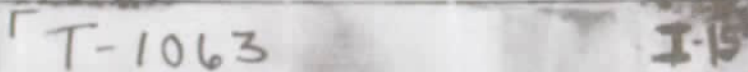
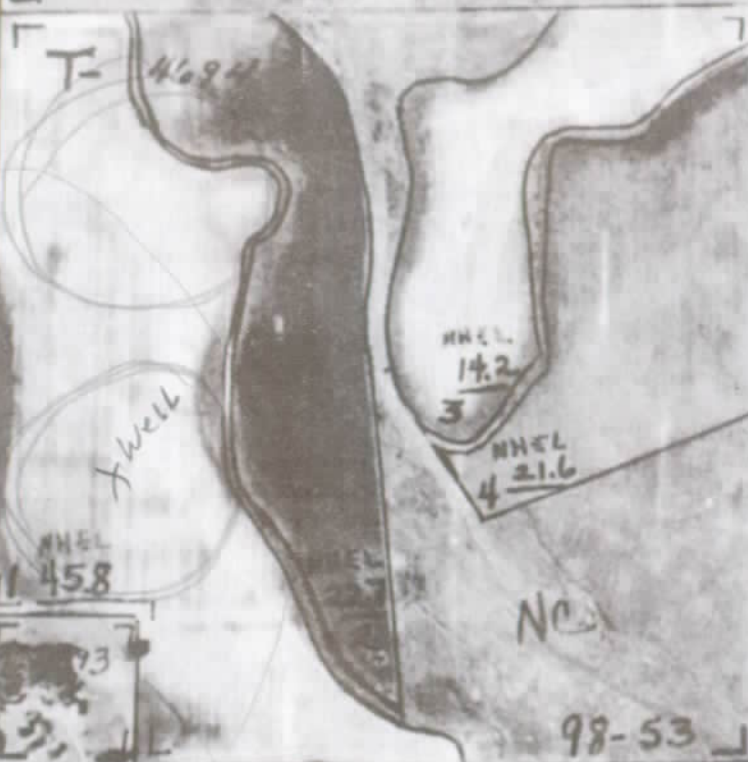
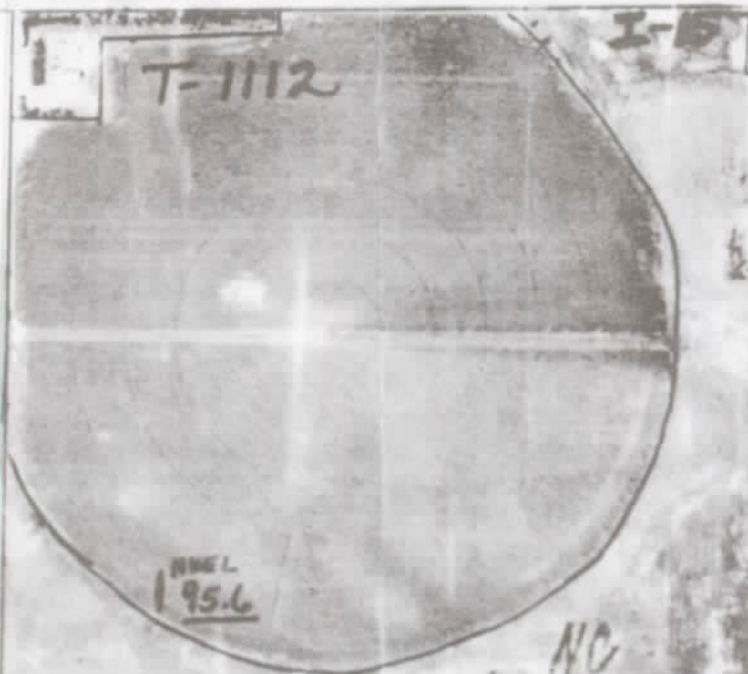
And this report is true and accurate.

Drilling firm Reiners Well DrillingSignature of License Representative: Don ReinerSignature of Well Owner or Equitable Property Holder: Dan ChristensenDate: 6/12/97

MAP NOT TO SCALE
THIS IS NOT AN OFFICIAL WETLAND MAP.

June 6
154
Shrub Area
3-8-99
100'

23



6134-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr



March 29, 1999

Dan Christensen
Box 235
Hurley SD 57036

Dear Mr. Christensen:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation. In order to complete the application the following is required.

- On the map, please mark the location of the well with an "X".
- We are in receipt of the \$150 application filing fee. In addition to the application filing fee, the Water Rights Program now collects the \$50 licensing fee at the time of filing. Please submit \$50 for the licensing of the water permit.
- A well log signed by a South Dakota licensed well driller must accompany the application.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352

Jon Reiners will dig the well

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

NE 416083

Pierre, _____ April 1, 1999

RECEIVED OF Dan Christensen, Box 235, Hurley, SD 57036
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. <u>6134-3</u>	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 H. Hater (Signature)

WATER PERMIT APPLICATION NO. 6134-3
DAN CHRISTENSEN
APRIL 27, 1999

Water Permit Application No. 6134-3 proposes to appropriate 1.11 cubic feet of water per second from one well (Parker Centerville Aquifer), 50 feet deep located in the SW¼ SE¼ Section 23, to irrigate 60 acres in the W½ SE¼ Section 23; all in T98N-R53W

AQUIFER: Parker Centerville (PAC)

GENERAL:

The Parker Centerville Aquifer is an unconsolidated sand and gravel outwash deposit that underlies approximately 74 square miles of Turner County. The outwash attains a maximum thickness of over 78 feet and has an average thickness of 34 feet. The maximum volume of water in storage in the Parker Centerville Aquifer in Turner County is estimated to be 322,000 acre-feet (Lindgren, 1990). The aquifer is under unconfined conditions. Recharge to the aquifer occurs through 1) direct infiltration of precipitation; 2) the west fork Vermillion Aquifer; 3) the East Fork Vermillion Aquifer; 4) hydraulic connection to the Upper Vermillion Missouri Aquifer; and 4) seepage from the Vermillion River when the river stage is higher than the water table of the aquifer. Recharge to the Parker Centerville aquifer has been estimated to be approximately 4.9 inches per year (Hedges, 1983). This equates to approximately 19,340 acre-feet per year. Groundwater movement is generally toward the Vermillion River and to the south.

WATER AVAILABILITY:

The Water Rights Program monitors 21 observation wells completed into the Parker Centerville Aquifer in Turner County. Observations well TU-77E is located within approximately ¼ mile of the proposed diversion point for this application, see figure 1.

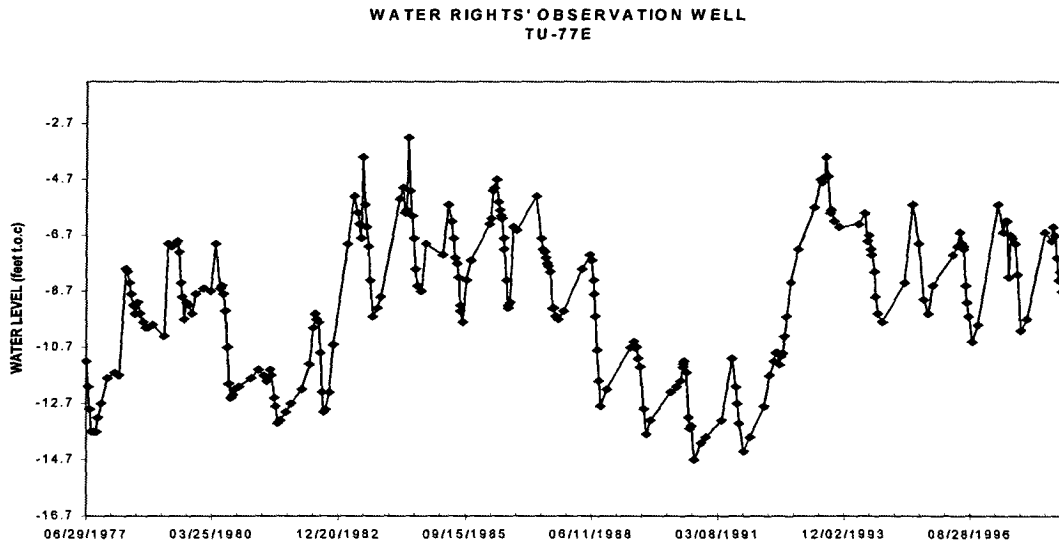


Figure 1, Parker Centerville Aquifer Hydrograph

Hydrographs from all of the Parker Centerville observation wells are similar and show response to climatic conditions, that is, rising during wet years (recharge) and gradually declining during dry years (discharge). The water level record indicates the aquifer is capable of sustaining additional withdrawals (Water Rights, 1999).

In addition to domestic use, there are 114 permits/rights which appropriate water from the Parker Centerville aquifer (Water Rights, 1999). Appropriative rights from the aquifer are for municipal use (City of Centerville and City of Hurley) and irrigation use (111 Permits/Rights). Assuming the municipalities will use less than 60% of their Water Right's diversion rate (considered reasonable for water distribution systems), the total water use from the Parker Centerville Aquifer for municipal will be less than 500 acre-feet annually. The major use of the Parker Centerville Aquifer is irrigation use. Reported pumpage from the aquifer for irrigation is shown in figure 2 (Water Rights, 1999).

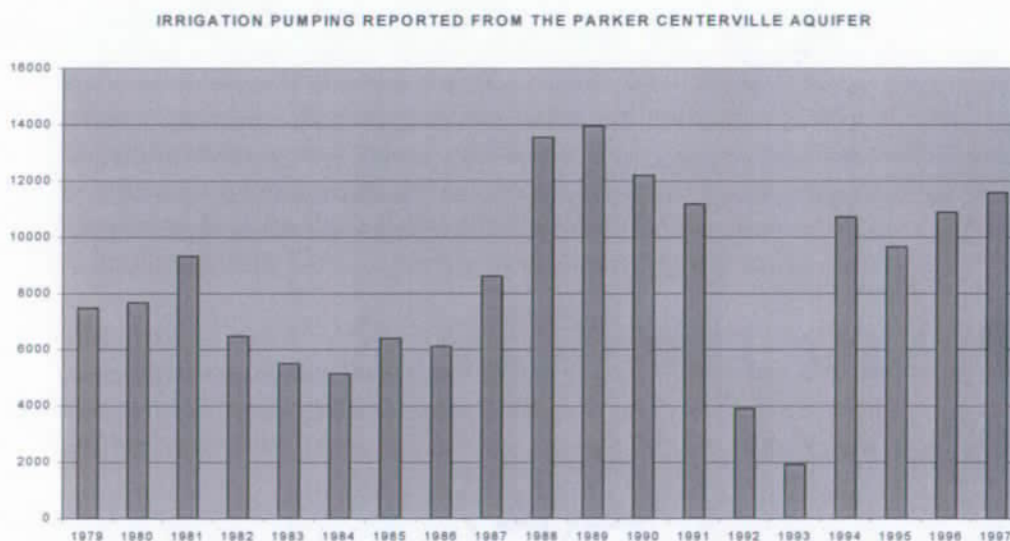


Figure 2

Comparison of the estimated annual recharge to the Parker Centerville Aquifer with the water use estimated from the aquifer, indicates unappropriated water is available from the aquifer.

AFFECTS ON EXISTING RIGHTS:

There are several wells pumping from the Parker Centerville aquifer in this area. There are 12 Water Permits/Rights diverting from the aquifer within one mile of this well site. The three permits/rights nearest to this proposed diversion point also belong to Dan Christensen. Interference is not expected to be a concern since pumping from the Parker Centerville aquifer does not create significant drawdown very far from individual production wells.

A natural decline of water levels during an extended drought may result in reduced yields of wells completed into thinner portions of the Parker Centerville Aquifer. This condition should not be confused with either a well interference problem or a water availability issue.

CONCLUSIONS:

1. Water is available from the Parker Centerville aquifer.
2. Interference is not expected to be a problem. Drawdown does not extend very far from an individual production well. The aquifer is under water table conditions and is a prolific water supply
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. The applicant has noted that he may only irrigate a partial circle with a center pivot system (i.e. a "windshield wiper pattern"). To properly operate the system will require a higher diversion rate than one cubic foot of water per second for every seventy acres. Pursuant to 46-5-6, the Water Management Board may allow a greater diversion, in volume or rate or both, if the method of irrigation, any time constraints on diversion of water, or the type of soil so requires.



Ken Buhler
Natural Resources Engineer

REFERENCES:

- Lindgren, R.J., D.Hansen, 1990, Water Resources of Hutchinson and Turner Counties, South Dakota, U.S. Geological Survey, Water-Resources Investigations Report 90-4093, USGS, Huron SD,
- Hedges, L.S., J.Allen, D.Holly, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 7: Ground Water Recharge, Draft Final Report, US Army Corps of Engineers, Contract DACW 45-80-C-0185, SD DWNR-Office of Geologic Survey, Vermillion, SD
- Water Rights Program, 1999₁, "Observation Well Files, " DENR-Water Rights Program, Joe Foss Building, Pierre, SD 57501
- Water Rights Program, 1999₂, "Water Permit Files," DENR-Water Rights Program, Joe Foss Building, Pierre, SD 57501
- Water Rights Program, 1999₃, "Irrigation Questionnaire" DENR-Water Rights Program, Joe Foss Building, Pierre, SD 57501

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6134-3, Dan Christensen**

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. 6134-3, Dan Christensen, Box 235, Hurley SD 57036.

The Chief Engineer is recommending APPROVAL of Application No. 6134-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6134-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.
3. SDCL 46-5-6 allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires. Therefore, Permit No. 6134-3 authorizes a maximum diversion rate of 1.11 cfs for the irrigation of 60 acres with an annual volume not to exceed 2 acre-feet of water per acre per year.
4. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.


for JOHN HATCH, Chief Engineer
April 29, 1999



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

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

April 30, 1999

Dan Christensen
Box 235
Hurley, SD 57036

Dear Mr. Christensen:

Water Permit Application No. 6134-3 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 Hurley Leader printed at Hurley, SD (Ph # (605) 238-5229). 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. 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 been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

April 30, 1999

Hurley Leader
Box 218
Hurley, SD 57036-0218

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 6134-3 to Appropriate Water to be published twice. Please publish the first notice on May 6, 1999, 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 Dan Christensen, Box 235, Hurley, SD 57036 (Ph # (605) 238-5854).

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

-----CU T HERE-----

No. 6134-3

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

Date _____

We are in receipt of your letter of April 30, 1999, enclosing Notice of Hearing to Appropriate Water by Application No. 6134-3 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 May 6, 1999, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6134-3 to Appropriate Water

Notice is given that Dan Christensen, Box 235, Hurley SD 57036 has filed an application for a water permit to appropriate 1.11 cubic feet of water per second (500 gallons per minute) from one well (Parker Centerville Aquifer) 50 feet deep located in the SW ¼ SE ¼ Section 23 to irrigate 60 acres located in the W ½ SE ¼ Section 23; all in T98N-R53W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6134-3 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 May 24, 1999.

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. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.

COUNTY OF TURNER





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

AUG 6 1999

Dan Christensen
Box 235
Hurley, SD 57036

Dear Mr. Christensen:

Enclosed is Water Permit No. 6134-3 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.

Very truly yours,

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

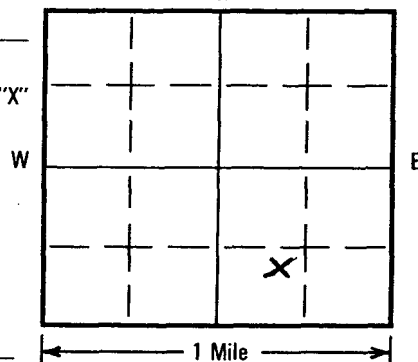
enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location SW 1/4 SE 1/4 Sec 23 Twp 98 Rg 53
County Turner

Please mark well location with an "X"



Well Completion Date

9/1/00

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 900 ft. from farm place (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Boring MachineCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
_____ LB/FT	<u>16</u> IN	<u>0</u> FT	<u>31</u> FT	<u>30</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
_____	_____	_____ lb./gal	_____ ft.	_____ ft.
_____	_____	_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure _____

SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 16 IN Length 20' FEETMaterial plasticSlot Size .085 Set From 31 Feet to 51 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: _____

☒ NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: Dan Christensen

Business Name: _____

Address: 28324 Hwy 19 P.O. 235
Harley S.D. 57036

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top soil</u>	<u>0'</u>	<u>2'</u>
<u>clay gravel mix</u>	<u>2'</u>	<u>6'</u>
<u>gravel</u>	<u>6'</u>	<u>10'</u>
<u>water bearing</u>		
<u>sand + gravel</u>	<u>10'</u>	<u>51'</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:

☐ Pumped Describe: _____☐ Bailed _____☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

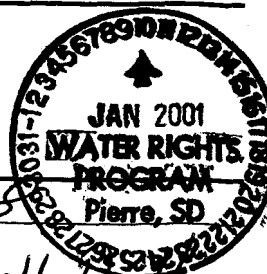
_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate 600 GPM

REMARKS

This well was drilled under license # 478

And this report is true and accurate.

Drilling firm Reiners Well DrillingSignature of License Representative: Don ReinersSignature of Well Owner or Equitable Property Holder: Dan ChristensenDate: 12/26/00

10-01-10



6134-3
**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

October 22, 2003

358-3
2031-3
2135-3
2365-3
5951-3
6134-3

Dan Christensen
28324 SD Highway 19
Hurley SD 57036-6034

Dear Mr. Christensen:

Enclosed is a "Notice" dated October 17, 2003 concerning the 2003 irrigation questionnaire. The notice was originally mailed to Box 235, Hurley SD. The post office notified us that your address has changed and I will update our records accordingly.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352

enclosures

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date October 7, 20 04

RECEIVED OF WDJ Inc., John Koerzelman, 669 10th St Circle SE, Sioux Center IA 51250

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	2	50
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 <u>6134-3</u>		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____	2.50	
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	
		2.50

No. 003416

By Darland Erbe
Chief Engineer gm

6134-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

October 1, 2004

John Koerselman
669 10th St Circle SE
Sioux Center IA 51250

RE: Dan Christensen land

Dear Mr. Koerselman:

Thank you for visiting with me about ownership of land described in Water Right Nos. 2031-3, 2135-3, 2365-3 and Water Permit Nos. 5951-3 & 6134-3. Enclosed are copies of each one.

Also enclosed are partially completed "*Notice of Transfer of Ownership*" forms for filing ownership changes. Please review the forms and complete as needed. Upon completion, please sign and return the forms to us with a required filing fee of \$2.50 each (total of \$12.50). The check or money order for the fee can be made payable to the Water Rights Program.

I have included copies of last year's irrigation questionnaires submitted by Mr. Christensen. These are forms that are required to be completed each year by irrigators in South Dakota. The information supplied by the irrigators is one of the tools we use to help manage the water resources of the state. The data supplies us information on how much water was used from a particular source and develops a history of water use in South Dakota. The questionnaires are mailed out each year in October and are usually due by the first week in December.

If I can answer any questions for you, please contact me. If you have internet access and would like to know more about water rights in South Dakota, our website is:
<http://www.state.sd.us/denr/des/waterrights/waterprg.htm>

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures

NOTICE OF TRANSFER OF OWNERSHIP

RECEIVED

OCT - 7 2004

WATER RIGHTS
PROGRAM

To: Chief Engineer
Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

No. 6134-3

Date: Oct. 5, 2004

I/We request that Water Permit No. 6134-3

formerly owned by: Dan Christensen

be transferred to: (name & address) John Koerselman
669 10th St. Circle SE
Sioux Center, IA 51250 Telephone No. 712-722-0615

Title to the following described land(s)/property has been transferred as described above:

60 acres - W 1/2 SE 1/4 Section 23, T98N, R53W

I/We understand that the validity of Water Permit No. 6134-3 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

You are requested to file this "Notice of Transfer" in the appropriate file with the Water Rights Program, as evidence of the change of ownership.

A fee of Two Dollars and Fifty Cents (\$2.50) is required to cover the filing fees as required under SDCL 46-2-13. This form must be signed by the new owner.

☒ We John Koerselman, the new owner, certify that the above information is true and correct.


(Signed by new owner)

NOTE: Water permits may be cancelled for nonconstruction after the five year construction period has expired. Once a water permit is developed and the water used, the permit becomes a right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.



6134-3

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

October 12, 2004

John Koerselman
669 10th St Circle SE
Sioux Center IA 51250

RE: Dan Christensen land

Dear Mr. Koerselman:

I am writing to acknowledge receipt of the ownership changes you filed for Water Right Nos. 2031-3, 2135-3, 2365-3 and Water Permit Nos. 5951-3 & 6134-3. The transfers have been completed. The above listed permits and rights, formerly held by Dan Christensen are now listed in your name.

Enclosed are your Receipt Nos. 001436, 001437, 001438, 001439 and 001440 in the amounts of \$2.50 each. The fees were for filing the ownership changes.

If I can answer any questions for you, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 3, 2009

Dan Christensen
28324 Hwy 19
Hurley SD 57036

RE: Water Right Nos. 2031-3, 2135-3 & 2365-3 and Water Permit Nos. 5951-3 & 6134-3

Dear Mr. Christensen:

Enclosed as you requested are partially completed "Notice of Transfer of Ownership" forms for use in filing ownership changes on Water Permits and Rights held by John Koerselman.

Please review the forms and completed as needed. Upon completion, please sign and return them to our office with a required filing fee of \$2.50 each (total of \$12.50). The check or money order for the fee can be made payable to the Water Rights Program.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

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RECEIVED

MAR - 6 2009

WATER RIGHTS
PROGRAM

NOTICE OF TRANSFER OF OWNERSHIP

To: Chief Engineer
Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

No. 6134-3

Date:

3/4/09

I/We request that Water Permit No. 6134-3

formerly owned by: John Koerselman

be transferred to: (name & address)

Dan Christensen
28324 Hwy 19
Harley SD 57036

Telephone No. 605-238-5854

Title to the following described land(s)/property has been transferred as described above:

60 acres - W 1/2 SE 1/4 Section 23, T98N, R53W

I/We understand that the validity of Water Permit No. 6134-3 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

You are requested to file this "Notice of Transfer" in the appropriate file with the Water Rights Program, as evidence of the change of ownership.

A fee of Two Dollars and Fifty Cents (\$2.50) is required to cover the filing fees as required under SDCL 46-2-13. This form must be signed by the new owner.

I/We Dan Christensen, the new owner, certify that the above information is true and correct.



(Signed by new owner)

NOTE: Water permits may be cancelled for nonconstruction after the five year construction period has expired. Once a water permit is developed and the water used, the permit becomes a right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 3/6, 2009

RECEIVED OF Dan Christensen 28324 Hwy 19 Hurley SD 57036

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	2	50
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 _____ 6134-3		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	2 50

No.

By

Michael F. Felt
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 9, 2009

Dan Christensen
28324 Hwy 19
Hurley SD 57036

RE: Water Right Nos. 2031-3, 2135-3 & 2365-3 and Water Permit Nos. 5951-3 & 6134-3

Dear Mr. Christensen:

I am writing to acknowledge receipt of the "Notice of Transfer of Ownership" forms and filing fees you submitted for filing ownership changes.

The ownership changes have been completed. Water Right Nos. 2031-3, 2135-3 & 2365-3 and Water Permit Nos. 5951-3 & 6134-3 formerly listed in the name of John Koerselman are now listed in your name.

Enclosed are your Receipt Nos. 04051, 04052, 04053, 04054 and 04055 in the amounts of \$2.50 each which you paid for filing the ownership changes. You may keep these for your records. If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath". The signature is written in a cursive, flowing style.

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures

6134-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

JUL 15 2010

6134-3
7179-3

Dan Christensen
28324 SD Hwy 19
Hurley SD 57036

Dear Mr. Christensen:

Enclosed are Water Permit and License No. 7179-3. These are the final water right documents completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 7179-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,

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

Note: The applicable portions of No. 6134-3 are incorporated into Water License No. 7179-3.

enclosures