

WATER PERMIT NO. 7531-3

Name of Applicant: **Randy Hanson, c/o Leslie Hanson**

Address: **47238 County Hwy 58, Ponsford MN 56575**

Phone: **218 573 3818**

Amount of Water Claimed: **1.78 cfs**

Total Acres: **115 acres**

Source of Water Supply: **groundwater (one well)**

Water to be used for: **irrigation**

County: **Hamlin**

Type of Waste Disposal System:

Location: **2 miles southeast of Castlewood**

PRIORITY

Date Received: **11-26-12**

Application/License Fee: **\$ 950**

Corrected Application Received:

Period of Annual Use: **May 1 – October 30**

Remarks: **Requesting diversion rate greater than statutory limit**

Diversion Point: **NE 1/4 SW 1/4 Sec 7-T114N-R51W**

Land to be Irrigated: **SW 1/4 Sec 7-T114N-R51W**

Depth of Well: **44 feet deep**

Well Driller: **Kaiser Well Drilling**

Remarks:

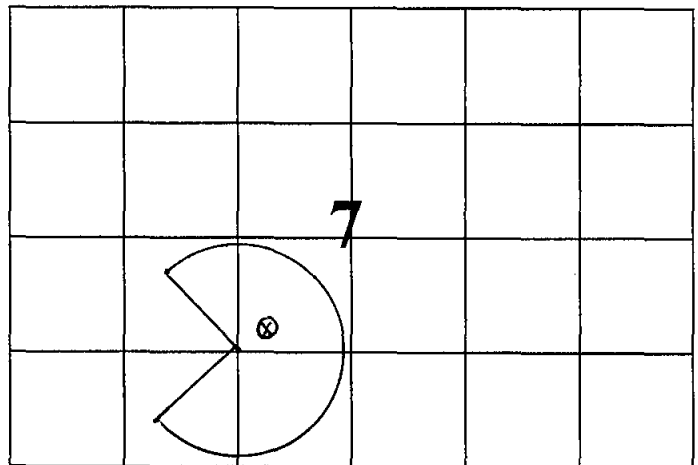
Type of Map: **aerial**

Prepared by:

Reviewed and the Number Assigned on: **11-27-12**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



FORM 2: Application for irrigation in South Dakota

(type or print)

Mail to:
PMB 2020
DENR - Water Rights
523 E Capitol Ave
Pierre, SD 57501-3182
ph. (605) 773-3352

No. 7531-3 (office use only)
Hydrologic Unit 10170202
Basin Sioux River 605-793-2293
Newspaper Hamlin Co. Republican Box 50 Crestview 57223
Public Opinion Box 10 Watertown 57201 605-886-6901

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NOV 26 2012

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Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____

(Use predates Mar 2, 1955)

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

1. Name to Appear on Irrigation Permit Randy Hanson Randy Hanson
(check one) ☐ Owner ☒ Tenant/lessee ☐ Owner's Legal Agent Leslie Hanson
(name and complete address if different than above name)

Mailing Address 47238 Cty Hwy 58 Ponsford Mo 56575
(Address) (City) (State) (Zip Code)

Home Phone 218 573 3818 Cell _____ Email _____

2. Amount of water claimed 1.78 *CFS or 800 **GPM ***AF Total Acreage 115 Acres
(*Cubic Feet per Second) (**Gallons per Minute) (***) Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply 1 NEW WELL

4. Location of point of diversion 1 new well NE 1/4 of SW 1/4 Sec 7 Twp 114N R51W
(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)
350 ft from pivot point North East County HAMLIN

5. County or counties where water will be used HAMLIN

6. Annual period during which water is to be used May - October 31

7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
<u>NE 1/4 of SW 1/4 sec 7 114N R51</u>	<u>40</u>		
<u>NW 1/4 of SW 1/4 sec 7 114N R51</u>	<u>20</u>		
<u>SE 1/4 of SW 1/4 sec 7 114N R51</u>	<u>40</u>		
<u>SW 1/4 of SW 1/4 sec 7 114N R51</u>	<u>15</u>		

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

Requesting diversion rate greater than statutory limit

I, Randy Hanson, the applicant, certify that I have read this application, have examined the attached map, and that the matters stated are true.

**SOUTH DAKOTA
WATER PERMIT NO. 7531-3**

Date of first receipt of application November 26, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7531-3 to Randy Hanson, c/o Leslie Hanson, 47238 County Hwy 58, Ponsford MN 56575 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. 7531-3 appropriates 1.78 cubic feet of water per second (cfs) from one well to be completed into the Big Sioux:Brookings Aquifer (44 feet deep) located in the NE 1/4 SW 1/4 Section 7 for irrigation of 115 acres located in the SW 1/4 Section 7; all in T114N-R51W.
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 26, 2012.
4. The date of approval of Permit No. 7531-3 is February 11, 2013.
5. One-fifth of the construction is to be completed on or before August 11, 2015.
6. All construction is to be completed on or before February 11, 2018.
7. Water is to be put to beneficial use on or before February 11, 2022.
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. 7531-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 7531-3 authorizes a maximum diversion rate of 1.78 cfs for the irrigation of 115 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.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

MAR 28 2013

date





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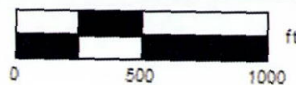
114 - 51W



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Data Zoom 14-5

SOUTH DAKOTA WATER WELL COMPLETION REPORT

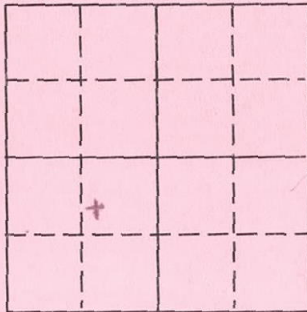
11-02

Location NE 1/4 SW 1/4 Sec 7 Twp 114N Rg 51W

Well Owner: Brindy Hanson

County Hamlin

North



Please mark well location with an "X"

Well completion Date

11-9-12

1 Mile

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? 2800 ft. from well (identify source)

PROPOSED USE:

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

well

METHOD OF DRILLING:

Direct Rotary

CASING DATA:

- ☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>51/10</u> LB/FT	<u>3</u> IN	<u>269</u> FT	<u>34</u> FT	<u>6</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>Grout</u>	<u>7</u>	<u>54</u> Lb/gal	<u>0</u> Ft	<u>30</u> Ft
<u>Well DF</u>		Lb/gal	Ft	Ft

Describe grouting procedure

SCREEN:

- ☐ Perforated pipe ☒ Manufactured

Diameter 3 Inches Length 10 Feet

Material plastic

Slot Size 1050 Set From 34 Feet to 44 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?

Lab sample sent to for water quality analysis

Business Name:

Address:

City, State, Zip:

116 West McElhenny Rd
Taylor SC 29168

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>TS</u>	<u>0</u>	<u>2</u>
<u>yellow clay</u>	<u>2</u>	<u>5</u>
<u>yellow mixed gravel</u>	<u>5</u>	<u>12</u>
<u>medium to coarse yellow gravel</u>	<u>12</u>	<u>23</u>
<u>Blue clay</u>	<u>23</u>	<u>26</u>
<u>One medium to coarse</u>	<u>26</u>	<u>44</u>
<u>Blue clay</u>	<u>44</u>	<u>60</u>

STATIC WATER LEVEL

10 FEET

If flowing: closed in pressure

PSI

GPM flow

through

Inch pipe

Controlled by ☐ Valve

☐ Reducers

☐ Other

Reduced flow rate

GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:

Air lift

☐ Bailed

☐ 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 # 689

And this report is true and accurate.

Drilling firm:

Kaiser Well Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Randy Hanson

Date:

523 E Capitol Ave. Pierre SD 57501

Please return **WHITE COPY** to: DENR Water Rights

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 11/27, 20 12

RECEIVED OF Solid Oak Farm L D Hanson 47238 Co Hwy 58 Ponsford MN 56575

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

Fee for Application for Permit No. <u>7531-3</u> to Appropriate Water, to construct and to put water to beneficial use	750	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>7531-3</u>	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	950 00

No. **05713**

By

L. D. Hanson
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7531-3, Randy Hanson**

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. 7531-3, Randy Hanson, c/o Leslie Hanson, 47238 County Hwy 58, Ponsford MN 56575.

The Chief Engineer is recommending APPROVAL of Application No. 7531-3 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. 7531-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 7531-3 authorizes a maximum diversion rate of 1.78 cfs for the irrigation of 115 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.

Garland Erbele, Chief Engineer
January 24, 2013

**REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 7531-3
RANDY HANSON c/o LESLIE HANSON
JANUARY 11, 2013**

Water Permit Application No. 7531-3 proposes to appropriate up to 230 acre-feet per year (ac-ft/yr) at a maximum diversion rate of 1.78 cubic feet of water per second (cfs) from one well to be completed into the Brookings management unit of the Big Sioux aquifer. The well is expected to be approximately 44 feet deep and is to be located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 7 to irrigate 115 acres located in the SW $\frac{1}{4}$ Section 7, T114N-R51W in Hamlin County. The application proposes a diversion rate in excess of the statutory limit.

AQUIFER: Brookings management unit of the Big Sioux aquifer (BS: B)

GEOLOGY AND AQUIFER CHARACTERISTICS:

The Big Sioux: Brookings is an alluvium mantled outwash consisting of well-sorted, permeable medium to coarse sand and fine to medium gravel that is generally under unconfined conditions near the Big Sioux River and can be confined elsewhere (Hamilton, 1989). The Brookings management unit of the Big Sioux aquifer extends from central Hamlin County, where it is differentiated from the North management unit of the aquifer, south into Brookings, then Moody County, where it is differentiated from the Moody management unit of the aquifer. The Big Sioux: Brookings also underlies portions of Kingsbury and Deuel Counties. In total, the Big Sioux: Brookings aquifer is estimated to underlie 191,100 acres and contain 642,230 acre-feet (ac-ft) of recoverable water in storage (Hedges and others, 1982). The aquifer is hydraulically connected to the Big Sioux River and water in the aquifer generally moves from north to south and locally towards the Big Sioux River (Hamilton, 1989).

Generally, the Big Sioux: Brookings aquifer is underlain by till and, when buried, overlain by alluvial silt and clay. In Hamlin and Deuel Counties, the water levels in the aquifer range from land surface to 18 feet below land surface. The water level is usually highest in the spring and lowest in the fall and is heavily dependent of yearly precipitation. The top of the aquifer is found between ground surface and 40 feet below ground surface, and the thickness ranges from 2 to 123 feet, with an average of 30 feet. Wells in the Big Sioux: Brookings aquifer could yield 50 to 1,000 gpm and the water withdrawn is generally suitable for irrigation (Kume, 1985).

From the test hole log submitted with this application, below two feet of top soil, "yellow clay" was encountered from two to five feet below ground surface, "yellow mixed gravel" from five to 12 feet, "medium to coarse yellow gravel" from 12 to 23 feet, and "blue clay" from 23 to 26 feet, "grey medium to coarse" from 26 to 44 feet, and "blue clay" from 44 to 60 below ground surface. The November, 2012 static water level was ten feet below ground surface.

SDCL 46-2A-9

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is a reasonable probability that there is unappropriated water available for the applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights

and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and existing rights from the aquifer that are pertinent to this application.

WATER AVAILABILITY:

This application proposes to appropriate 230 ac-ft/yr from the Big Sioux: Brookings aquifer. If this application is approved, the actual water use will be less than the appropriation. The probability of unappropriated water available from an aquifer can be evaluated by considering SDCL 46-6-3.1, which requires "No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source."

WATER BALANCE:

Recharge:

Recharge to the Big Sioux: Brookings aquifer occurs due to infiltration of precipitation in areas where the aquifer is at or near land surface, seepage through till, lake deposits, and underlying aquifers, and inflow from the Big Sioux River during wet years (Hamilton, 1989; Kume, 1985).

Hedges and others (1985) estimated recharge of various management units of the Big Sioux aquifer using several methods and states that "recharge rates calculated using observation well data and computer models are generally in accord" and "management programs using these values should be acceptable." Therefore, recharge to the Big Sioux aquifer is estimated to range from 2.7 to 6.9 inches per year (in/yr). The recharge rate, based on observation well analysis, of the Brookings management unit is estimated to be 4.0 in/yr (Hedges and others, 1985).

Using this recharge rate and the total area of the aquifer, recharge to the Big Sioux: Brookings aquifer is estimated to equal 63,700 ac-ft/yr., equating to approximately 10 percent of recoverable water in storage. This is not to suggest that this entire volume of water is available anywhere in the aquifer, but demonstrates that in general the Big Sioux: Brookings aquifer is readily recharged.

Discharge:

Discharge from the aquifer may occur due to evapotranspiration in areas where the aquifer is at or near land surface, outflow to the the Big Sioux River during dry years, and well withdrawals (Kume, 1985). There are a total of 229 water rights/permits appropriating water and nine future use permits reserving water from the Big Sioux: Brookings aquifer for irrigation, municipal, commercial, industrial, geothermal, suburban housing development, and rural water systems use (Water Rights, 2013b). There are also pending water permit applications for the aquifer.

From the Big Sioux: Brookings, water rights/permits for non-irrigation use that are limited by an annual volume currently appropriate a total of 4,075 ac-ft/yr. Future use permits reserve a remaining total of 5,317 ac-ft/yr. Water rights/permits for non-irrigation use that are limited only by diversion rate currently authorize a total of 19.049 cfs. However, the municipalities of Bruce, Clear Lake, Estalline, and Hayti are now connected to rural water systems, and so, the associated

water rights, which are all limited by diversion rate, totaling 4.570 cfs, are no longer expected to withdraw from the aquifer and are excluded from the hydrologic budget (Water Rights, 2013b).

The maximum amount of water that can be expected to be withdrawn by the non-irrigation use water rights/permits at the current appropriation amount can be estimated by assuming: 1) water rights/permits limited by an annual volume will pump the entire volume appropriated annually, 2) water rights/permits limited only by diversion rate will pump at the maximum permitted diversion rate at 60 percent of the time, and 3) future use permits can be fully developed. Consider also, some cities with municipal use water rights could be connected to rural water systems, and therefore, the associated water rights are no longer expected to withdraw from the aquifer. Therefore, the total annual withdrawal from the Big Sioux: Brookings aquifer by non-irrigation use is currently expected to total at maximum 15,700 ac-ft/yr (Water Rights, 2013b).

While the irrigation development of the aquifer over the period of record, 1979 to 2011, has remained fairly constant, the annual withdrawal from the Big Sioux: Brookings aquifer fluctuates, probably mostly due to annual growing season climatic conditions. Over the period of record, the average pumpage reported equals 8,379 ac-ft/yr. The maximum pumpage reported was 18,522 ac-ft/yr and the minimum reported was 1,043 ac-ft/yr (Water Rights, 1979-2011).

In addition, there are many domestic wells on file with the SD DENR-Water Rights Program that appear to be completed into the Big Sioux: Brookings aquifer (Water Rights, 2013c). The annual withdrawal due to domestic use is not significant to the hydrologic budget of the aquifer. Consider also that many of these domestic wells are no longer in use due to users connecting to local rural water systems.

Hydrologic Budget:

The annual discharge from the Big Sioux: Brookings aquifer due to well withdrawal is estimated to be at maximum 34,200 ac-ft/yr, but the actual annual pumpage will often be much less. While SDCL 46-6-3.1 applies to average withdrawal versus average recharge, using potential maximum annual withdrawal creates the most conservative estimate. This potential maximum annual withdrawal is much less than the estimated annual recharge of 63,700 ac-ft/yr. Therefore, there is a reasonable probability that unappropriated water is available from the Big Sioux: Brookings aquifer for the proposed appropriation of 230 ac-ft/yr.

While the Big Sioux: Brookings aquifer generally readily recharges, a small portion of the aquifer is considered fully appropriated due to its isolated condition. The proposed well site is not located within or near the boundaries of the fully appropriated area.

OBSERVATION WELL DATA:

Administrative Rule of South Dakota Section 74:02:05:07 requires that "the Water Management Board shall rely upon the record of observation well measurements to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated average annual recharge of the aquifer."

The SD DENR-Water Rights Program monitors 80 observation wells completed into the Big Sioux: Brookings aquifer. The nearest observation well, HN-63A is located approximately 0.7

miles north-northeast of the proposed well site. The hydrograph of this well is shown in Figure 1 (Water Rights, 2013a).

The observation well data documents cyclic conditions of water levels, recharging during wet years and declining during dry years. The hydrograph also show the effects of nearby pumping on the aquifer. This data documents that, at the current level of development, temporal well withdrawal is masked by climatic conditions. Therefore, recharge to and natural discharge from the aquifer greatly exceeds well withdrawal, indicating that unappropriated water is available from this area of the Big Sioux: Brookings aquifer to support the proposed appropriation of 230 ac-ft/yr at the proposed well site.

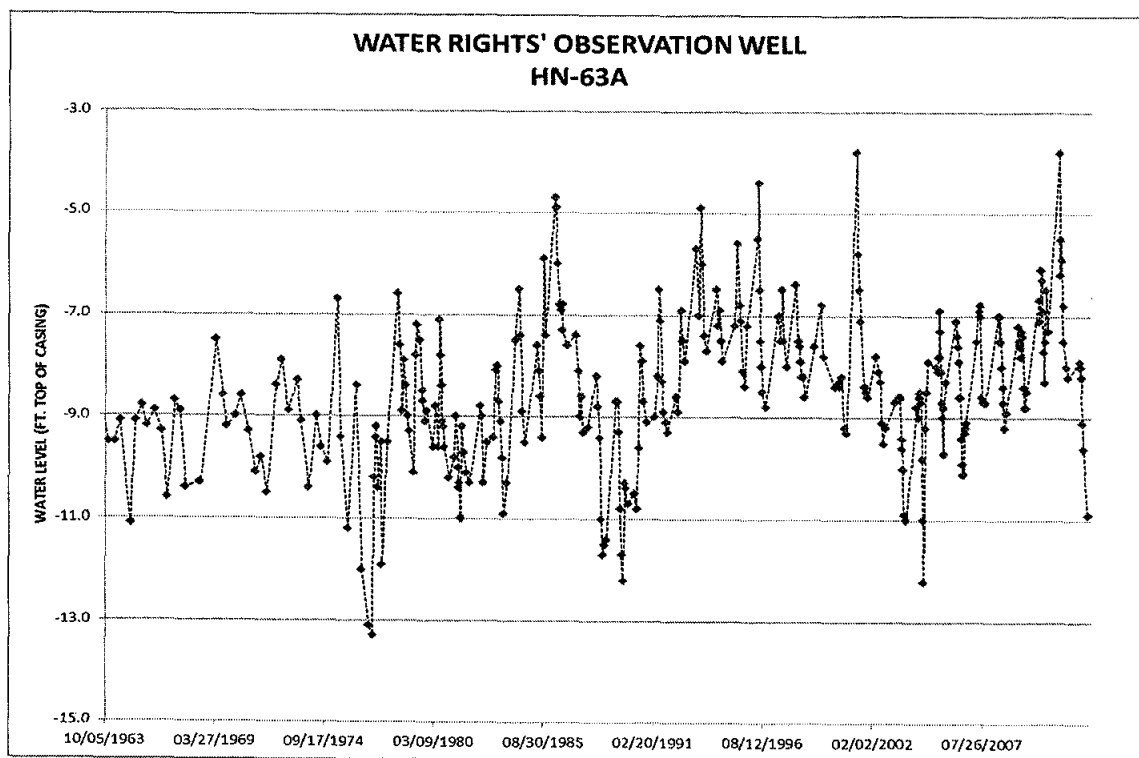


Figure 1: Hydrograph for SD DENR-Water Rights' observation well HN-63A (Water Rights, 2013a)

EXISTING WATER RIGHTS:

There are 11 water rights/permits appropriating water from the Big Sioux: Brookings aquifer within two miles of the proposed well site (Water Rights, 2013b). In addition, there are several domestic wells on record with the SD DENR-Water Rights Program within two miles of the proposed well site that appear to be completed into the Big Sioux: Brookings aquifer (Water Rights, 2013c). The nearest water right, Water Right No. 2578-3 Randy Hanson, is located approximately 0.4 miles east of the proposed well.

The water table conditions of the aquifer in this area dictate that drawdown due to pumping would probably not extend far from the proposed well site. Considering that the Water Management Board has consistently recognized that to place water to maximum beneficial use a certain amount of drawdown may occur, a nearby adequate well defined by ARSD 74:02:20(7),

which states that the pump intake must be set 20 feet below the top of the aquifer or, if the aquifer is less than 20 feet thick, as near to the bottom of the aquifer as is practical, is not expected to be adversely or unlawfully impaired.

SDCL 46-5-6

Pursuant to SDCL 46-5-6, the diversion rate for an irrigation appropriation cannot be in excess of one cubic foot of water per second for every seventy acres, or "the equivalent thereof." The statute provides that the Water Management Board may allow a greater diversion if the method of irrigation so requires.

This water permit application proposes to divert at a rate of 1.78 cfs per 115 acres, equaling 1.08 cfs per 70 acres. The application indicates that proposed pivot will not make a full rotation. This requested diversion rate is probably an operational requirement of the equipment that is unrelated to the amount of rotation and subsequent area of land irrigated. Further justification for the diversion rate in excess of the statutory limit was not provided.

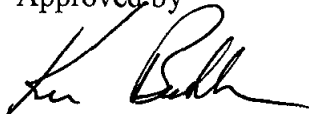
CONCLUSIONS:

1. The application proposes to appropriate 230 ac-ft/yr for irrigation. However, the actual water use will likely be less than the appropriation.
2. There is a reasonable probability that unappropriated water is available from the Big Sioux: Brookings aquifer to supply the proposed appropriation.
3. There is a reasonable probability that this proposed well will not adversely or unlawfully impair existing nearby wells.
4. This application has requested an additional diversion rate in excess of one cfs per 70 acres.



Joseph R Stonesifer
SD DENR-Water Rights Program

Approved by



Ken Buhler
SD DENR-Water Rights Program

REFERENCES:

- Hamilton, L.J. 1989, Water Resources of Brookings and Kingsbury Counties, South Dakota: U.S. Geological Survey Water-Resources Investigations Report 88-4185, 82 p.
- Hedges, L.S., Burch, S.L., Iles, D.L., Barari, R.A., and Schoon, R.A. 1982. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 1: Bedrock Topography and Distribution, Task 2: Extent of Aquifers, Task 3: Ground-Water Storage, Task 4: Computerized Data Base, Final Report. U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- Hedges, L.S., Allen, J., and Holly, D.E. 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa. Task 7: Ground Water Recharge. South Dakota DENR-Geological Survey, Vermillion, SD.
- Kume, J. 1985. Water Resources of Deuel and Hamlin Counties, South Dakota. Water-Resources Investigations Report 84-4069. USGS, Huron SD.
- Water Rights. 1979-2011. "Annual Irrigation Summary by Aquifer": SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013a. Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013b. Water Right/Permit Files, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013c. Water Well Completion Reports, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

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FEB - 4 2013

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Hamlin) SS

I, LeeAnne Dufek

certify that the attached printed Notice was
taken

from the Estelline Journal

printed and published in Estelline

County of Hamlin and

state of South Dakota. The notice was
published

in the newspaper on the following date:

Jan. 30, 2013

Cost of Printing

\$23.10

LeeAnne Dufek
(Signature)

Publisher
(Title)

2-1-13

(Date Signed)

NOTICE OF APPLICATION NO.
7531-3 TO APPROPRIATE WATER

Notice is given that Randy Hanson, c/o Leslie Hanson, 47238 County Hwy 58, Ponsford MN 56575, has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well to be completed into the Big Sioux/Brookings Aquifer (44 feet deep) located in the NE 1/4 SW 1/4 Section 7 for irrigation of 115 acres located in the SW 1/4 Section 7, all in T114N-R51W. The applicant is requesting a diversion rate greater than the statutory limit.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7531-3 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 this 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 this 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 February 11, 2013.

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

Published Jan. 30, 2013, at total cost of \$23.10.

10

RECEIVED

FEB - 4 2013

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
County of Codington)

I, Monica K. Saathoff

certify that the attached printed Notice was
taken

from the Watertown Public Opinion

printed and published in Watertown

County of Codington and

state of South Dakota. The notice was
published

in the newspaper on the following date:

January 30th, 2013

Cost of Printing 58.74

Monica K. Saathoff
(Signature)

Bookkeeper

(Title)

January 30th, 2013

(Date Signed)

DEPARTMENT
OF ENVIRON-
MENT AND
NATURAL
RESOURCES

NOTICE OF APPLICATION
NO. 7531-3 to Appropriate
Water

Notice is given that Randy Hanson, c/o Leslie Hanson, 47238 County Hwy 58, Ponsford MN 56575 has filed an application for a water permit, to appropriate 1.78 cubic feet of water per second from one well to be completed into the Big Sioux-Brookings Aquifer (44 feet deep) located in the NE 1/4 SW 1/4 Section 7 for irrigation of 115 acres located in the SW 1/4 Section 7; all in T114N-R51W. The applicant is requesting a diversion rate greater than the statutory limit.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7531-3 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 this 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 this 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 February 11, 2013. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the approximate cost of \$53.75. (January 30, 2013)

All legal notices in the Public Opinion and other South Dakota newspapers can be found at
www.sdpublicnotices.com



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 24, 2013

Hamlin Co Republican
PO Box 50
Castlewood SD 57223

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7531-3 to Appropriate Water. Please publish the notice once on January 30, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Randy Hanson, c/o Leslie Hanson, 47238 Co Hwy 58, Ponsford MN 56575 (Ph # 218-573-3818).

Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 24, 2013

Public Opinion
PO Box 10
Watertown SD 57201

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7531-3 to Appropriate Water. Please publish the notice once on January 30, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Randy Hanson, c/o Leslie Hanson, 47238 Co Hwy 58, Ponsford MN 56575 (Ph # 218-573-3818).

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Sincerely,

Eric Gronlund
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATE, CONTACT
THE NEWSPAPER(S) RIGHT AWAY.

January 24, 2013

Randy Hanson
c/o Leslie Hanson
47238 Co Hwy 58
Ponsford MN 56575

Dear Mr. Hanson:

Water Permit Application No. 7531-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Hamlin Co. Republican printed at Castlewood SD (Ph # 605-793-2293) and the Public Opinion printed at Watertown SD (Ph # 605-886-6901). You will need to contact the newspaper(s) and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and 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(s) to authorize publication of your Notice and to arrange for payment. Early contact with the paper(s) can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

Instruction to Newspaper - Publish the Notice on January 30, 2013. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 7531-3 to Appropriate Water

Notice is given that Randy Hanson, c/o Leslie Hanson, 47238 County Hwy 58, Ponsford MN 56575 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well to be completed into the Big Sioux:Brookings Aquifer (44 feet deep) located in the NE 1/4 SW 1/4 Section 7 for irrigation of 115 acres located in the SW 1/4 Section 7; all in T114N-R51W. The applicant is requesting a diversion rate greater than the statutory limit.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7531-3 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 this 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 this application. Notice of the hearing will be given to the applicant and any person filing a petition.

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Published once at the total approximate cost of _____.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

MAR 28 2013

Randy Hanson
c/o Leslie Hanson
47238 Co Hwy 58
Ponsford MN 56575

Dear Mr. Hanson:

Enclosed is Water Permit No. 7531-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

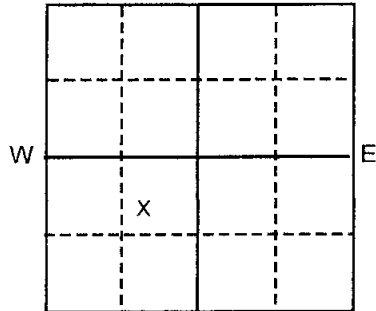
enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE ¼ SW ¼ Sec 7 Twp 114N Rg 51WCounty HAMLIN

North

Please mark well
location with an "X"

Well Completion Date

1-26-2013

Distance to 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 RIG

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
40.0 LB/FT	16.00 IN	0.0 FT	29.0 FT	24.00 IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
GWDF	21	54.0 Lb/gal	0.0 Ft	29.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

TPPM

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 Inches Length 15.0 FeetMaterial STAINLESS STEELSlot Size .080 Set From 29.0 Feet to 44.0 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? _____
Lab to which water
quality sample sent for analysisWell Owner: RANDY HANSON

Business Name: _____

Address: 16 WEST MCELHANEY RDCity, State, Zip: TAYLOR SC

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOP SOIL	0	2
YELLOW CLAY	2	5
YELLOW MIXED GRAVEL	5	12
MED-COURSE GRAVEL	12	23
BLUE CLAY	23	26
GREY MED - COURSE	26	44

STATIC WATER LEVEL 10.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: SUB PUMP☐ Bailed☐ Other

Pumping Level Below Land Surface

27.0 Ft. After 24.0 Hrs. pumped 900.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: 700.0 GPM

REMARKS

RECEIVED

JAN 31 2014

WATER RIGHTS
PROGRAMThis well was drilled under license # 689 and this
report is true and accurate.Drilling firm: KAISER WELL DRILLING INC

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: _____

RECEIVED

FEB 18 2014

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 2-14-14TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM:

Les Hanson

(name)

47238 CTR Hwy 58

(address)

Ponsford, MN 56575

(city, state, zip)

218-573-3818

(phone)

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

Water Permit No. 7531-3 states that the water use system is to be constructed by2-11-2018

(date)

, and water is to be put to beneficial use by 2-11-2022

(date)

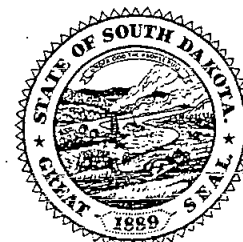
The water use system was completed on 7-1-13

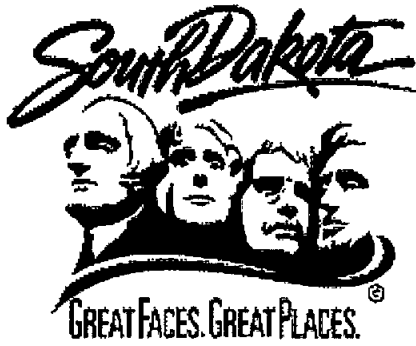
(date)

Applying the water to beneficial use was completed on 7-1-13

(date)

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

Randy Hanson (By Leslie D. Hanson)
(signature)



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

February 18, 2014

7531-3

Leslie Hanson
47238 County Hwy 58
Ponsford MN 56575

Dear Mr. Hanson:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with your irrigation system.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of your project and the staff inspection has no bearing on your water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. 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
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7531-3

I have this day, April 1, 2015, made a thorough examination of the water use system constructed by Randy Hanson c/o Leslie Hanson, 47238 County Hwy 58, Ponsford MN 56575 holder of Permit No. 7531-3, bearing the priority of November 26, 2012 authorizing the diversion of 1.78 cu. ft. per second of the waters of Big Sioux Brookings aquifer for irrigation purposes, in Hamlin County.

Inspection contact & relationship to permit holder, if applicable: **Les Hanson, brother of Randy**

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Kaiser Well Drilling
- 2) No. of Wells 1
- 3) Depth(s) 44 feet
- 4) Well log is available Y

Screen:

- 1) Type Stainless Steel
- 2) Length 15 feet
- 3) Static water level 10 feet

Casing:

- 1) Diameter 16 inches
- 2) Length 29 feet
- 3) Type Plastic

Pump:

- 1) Make Submersible
- 2) Size 30 hp
- 3) Capacity 800 GPM

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

- 1) Type PVC
- 2) Size 8 inches
- 3) Length 330 feet

Comments: **xx**

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Valley – “Bender” system
- 2) Number of towers 7
- 3) End gun Y (low pressure – 35 psi)
- 4) Capacity 800 GPM

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

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

E. Condition and Location:

1. The system is in **good** condition with the point(s) of diversion located as follows: **Well: 1,370 feet east and 1,700 feet north from SW corner section 7-T114N-R51W (NE1/4 SW1/4, Latitude 44.69331, Longitude -97.00113).**
2. The works are capable of diverting and conveying to the place of use **1.78** cu. ft. per second of water which is to be used for **irrigation**. Water has been put to beneficial use to the maximum extent as follows:

All in section 7-T114N-R51W

NW1/4 SW1/4 -- 14.5 acres

SE1/4 SW1/4 -- 27 acres

NE1/4 SW1/4 -- 31 acres

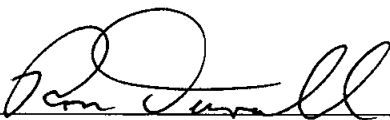
SW1/4 SW1/4 -- 12.5 acres

comprising a total of **85** acres of land and the license should be issued for **1.78*** cfs.

3. All structures, wells and lands on map Y

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

*Permit No. 7531-3 authorized a diversion rate in excess of 1 cfs per 70 acres. The developed diversion rate matches the permitted rate even though the total acres are reduced from 115 acres to 85 acres. Irrigation system employs "bender" functionality which allows the pivot to bend to irrigate more acreage.



Ron Duvall

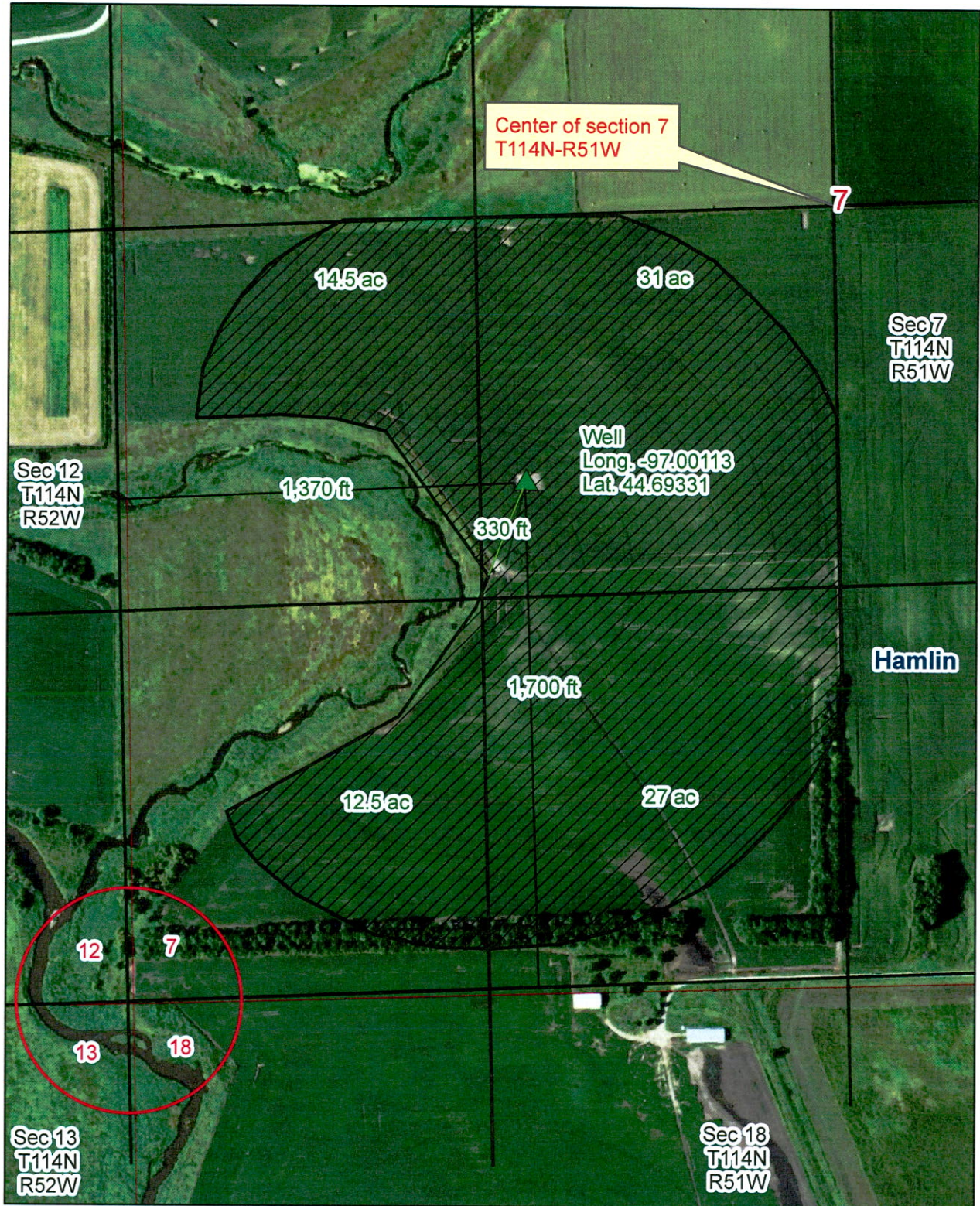
Water Rights Permitting Administrator
DENR, Water Rights Program

Date report completed: **January 19, 2016**

Scale: 1 inch = 500 feet

700

Feet



South Dakota
Department of Environment
& Natural Resources
Water Rights

Completed by:

Ron Duvall, WR Permitting Administrator
Water Rights Program

Diversion point(s) located using a Garmin eTrex 10 GPS

Date: Jan. 6, 2016

Water Right No. 7531-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

FEB 01 2016

7531-3

Randy Hanson
% Leslie Hanson
47238 County Hwy 58
Ponsford MN 56575

Dear Mr. Hanson:

Enclosed is Water License No. 7531-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field 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. 7531-3, 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,

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 7531-3**

(1) Randy Hanson, % Leslie Hanson, 47238 County Hwy 58, Ponsford MN 56575 made Application No. 7531-3, November 26, 2012 for a water permit to divert 1.78 cubic feet of water per second from ground water (one well (Big Sioux Brookings Aquifer), Hamlin County, South Dakota for irrigation purposes. Permit No. 7531-3, with a priority date of November 26, 2012 was approved February 11, 2013 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before February 11, 2018 and for the application to beneficial use of said water on or before February 11, 2022.

The Permit holder submitted a "*Notice of Completion of Works and Application of Water to Beneficial Use*" on February 18, 2015. The "*Notice*" stated the water use system was completed and water placed to beneficial use on July 1, 2013.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.78 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 1,370 feet east and 1,700 feet north of the SW corner of Section 7, T114N, R51W (NE ¼ SW ¼).

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

T114N, R51W Section 7	NE ¼ SW ¼	14.5 acres
	NE ¼ SW ¼	31.0 acres
	SE ¼ SW ¼	27.0 acres
	SW ¼ SW ¼	12.5 acres
	Total	85.0 acres

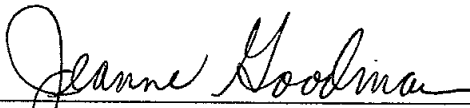
(4) Pursuant to South Dakota Water Law 46-5-30.1 Randy Hanson, % Leslie Hanson, 47238 County Hwy 58, Ponsford MN 56575 the holder and/or owner of Water Right No. 7531-3 is issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from ground water (one well (Big Sioux Brookings Aquifer) with a priority date of November 26, 2012 from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7531-3 and subject to the following qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

continued

- The well authorized by Permit No. 7531-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. *The well was drilled by Kaiser Well Drilling Inc. in June, 2013. A copy of the well completion report is on file with the Water Rights Program.*
- Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 7531-3 authorizes a maximum diversion rate of 1.78 cfs for the irrigation of 85 acres with an annual volume not to exceed 2 acre feet of water per acre per year. *(The original qualification authorized 115 acres; upon licensing, the acreage has been reduced to the amount developed.)*
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

FEB 01 2016

date

