

WATER PERMIT NO. 7688-3

Name of Applicant: Nicholas W Olson

Address: 2112 Augusta Dr, Vermillion SD 57069 Phone: 605 670-1024

Amount of Water Claimed: 0.5 cfs Total Acres: 40 acres

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation County: Clay

Type of Waste Disposal System:

Location: miles northwest of Vermillion

PRIORITY Date Received: 2-6-13 Application/License Fee: \$ 700

Corrected Application Received: Period of Annual Use: April 1 – October 31

Remarks:

Diversion Point: NE 1/4 SE 1/4 Sec 25-T93N-
R52W

Land to be Irrigated: NE 1/4 SE 1/4 Sec 25-T93N-
R52W

Depth of Well: 165 feet deep

Well Driller:

Remarks:

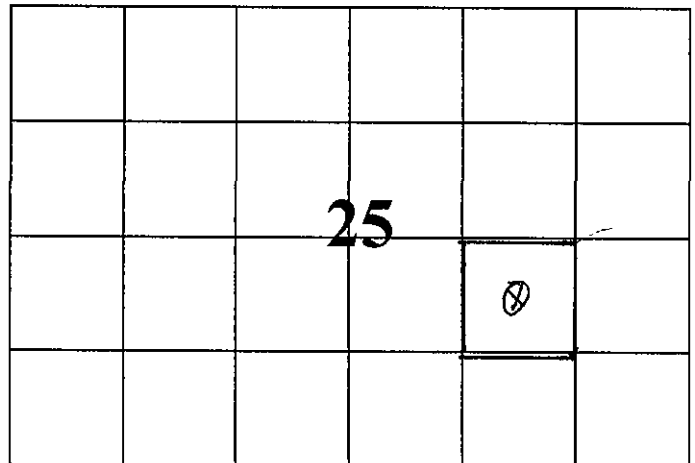
Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 2-7-13

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. <u>7688-3</u> (office use only) Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>
	Newspaper <u>Plain Talk</u>
	<u>Press & Dakotan</u>

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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 Nicholas W. Olson
(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent
(name and complete address if different than above name)
- Mailing Address 2112 Augusta Dr. Vermillion SD 57069
(Address) (City) (State) (Zip Code)
- Home Phone N/A Cell 605-670-1024 Email nwoolson1130@jacks.sdstate.edu
2. Amount of water claimed 0.5 *CFS or 225 **GPM ***AF Total Acreage 40
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply One well to Lower Vermillion Missouri Aquifer
4. Location of point of diversion One well @ NE 1/4 SE 1/4 section 25-93N-52W
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
- County Clay
5. County or counties where water will be used Clay
6. Annual period during which water is to be used April - October
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 SE 1/4 section 25-93N-52W</u>	<u>40</u>		

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

Center pivot irrigation to improve crop production on the above listed property.

I, Nicholas W. Olson, 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. 7688-3

Date of first receipt of application February 6, 2013.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7688-3 to Nicholas W Olson, 2112 Augusta Dr, Vermillion SD 57069 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. 7688-3 appropriates 0.5 cfs from one well to be completed into the Lower Vermillion:Missouri Aquifer (165 feet deep) located in the NE 1/4 SE 1/4 Section 25 for irrigation of 40 acres located in the NE 1/4 SE 1/4 Section 25; all in T93N-R52W.
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 February 6, 2013.
4. The date of approval of Permit No. 7688-3 is April 8, 2013.
5. One-fifth of the construction is to be completed on or before October 8, 2015.
6. All construction is to be completed on or before April 8, 2018.
7. Water is to be put to beneficial use on or before April 8, 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. 7688-3 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. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

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

MAY 20 2013

date



Supplemental Information

(type or print)

1. Well Information (check one or both as applicable) ☒ Drilling new well(s) ☐ Using existing well(s)

a) If new wells, how many 1 Have test holes been drilled ☐ Yes ☒ No Drilled by _____
(if yes, please provide copies of logs)

b) If existing wells, how many 0 Provide copy of log(s), if available. Drilled by _____

c) Well Depth 165 ft Depth to Top of Water Bearing Material 100 ft Depth to Water from Surface 25 ft

d) Distance to nearest existing domestic well:

On applicant's property N/A

On property owned by others Greater than 5000 ft

2. Wastewater Disposal System Information

a) Type of System (i.e. septic tank, drain field) _____

b) System Capacity (gallons) _____ Year Constructed _____

c) Connected to the City of _____ Sanitary System

3. Dugout Information

a) Surface Dimensions _____ Depth _____

b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

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

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

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____

If pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway Width _____

g) X & Y Slope (e.g. 3 to 1 is a typical slope)

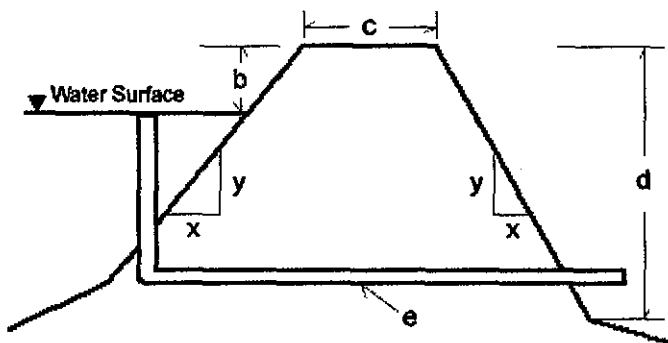
Upstream _____

Downstream _____

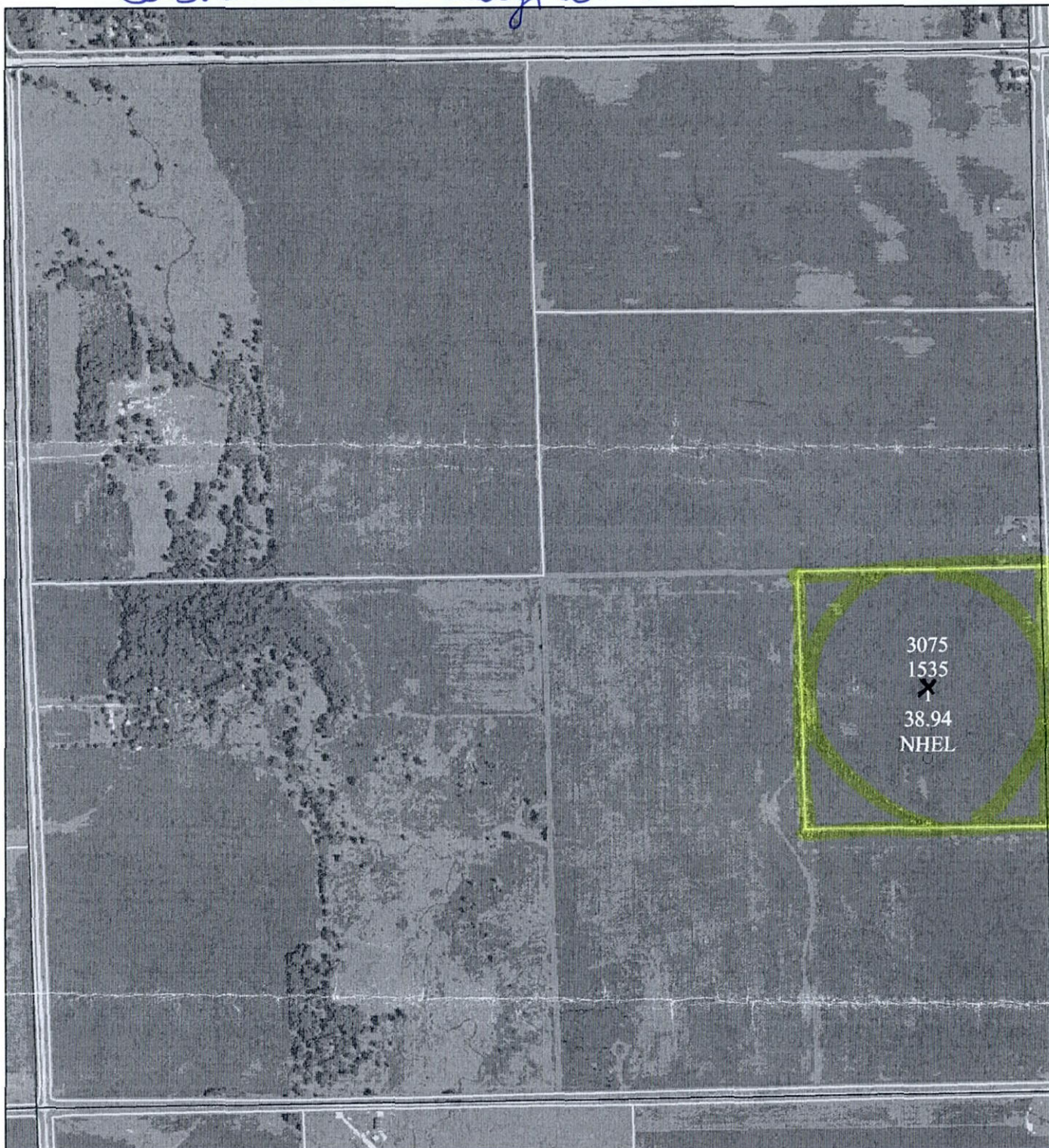
h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



Dubna Elys Clay Co. PT



United States Department of Agriculture
Farm Service Agency

PLSS: 25_93N_52W
Farm: 3075

Clay County, SD

1:8,337



March 10, 2010

Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area.
Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

2008 Ortho-Photography - Not to Scale

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Common Land Units

FEB - 6 2013

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WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 2/7, 20 13

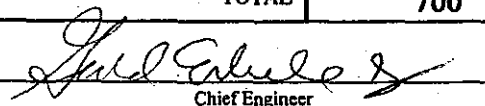
RECEIVED OF Nicholas Olson 8148 S Grasscreek Dr D S Falls Sd 57108

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	500	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. _____	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	700 00

No. 06105

By


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. 7688-3, Nicholas W Olson**

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. 7688-3, Nicholas W Olson, 2112 Augusta Drive, Vermillion SD 57069.

The Chief Engineer is recommending APPROVAL of Application No. 7688-3 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. 7688-3 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. 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
March 14, 2013

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 7688-3
NICHOLAS W OLSON
February 27, 2013

Water Permit Application No. 7688-3 proposes to appropriate up to 80 acre-feet annually (ac-ft/yr) at a maximum diversion rate of 0.5 cubic feet of water per second (cfs) from one well to be completed into the Lower Vermillion-Missouri aquifer. The well will be located in the NE ¼ SE ¼ of Section 25, T93N-R52W and is expected to be approximately 165 feet deep. This application proposes to irrigate 40 acres located in the NE ¼ SE ¼ of Section 25, T93N-R52W in Clay County.

AQUIFER: Lower Vermillion-Missouri aquifer (LVM)

GEOLOGY AND AQUIFER CHARACTERISTICS:

The Lower Vermillion-Missouri aquifer is a surficial, alluvium-mantled aquifer composed of glacial outwash consisting of a range of coarse gravel to fine clay materials (Stephens, 1967). The Lower Vermillion-Missouri aquifer is primarily unconfined, but is likely to be confined in the area of this application. The Lower Vermillion-Missouri aquifer encompasses regions of Clay and Union Counties. The proposed well site is located approximately one and one quarter miles west of the Vermillion River in the southern half of Clay County. The Lower Vermillion-Missouri aquifer underlies approximately 100,800 acres of Clay County and contains an estimated 1,512,000 acre-feet of recoverable water in storage in the county (Hedges and others, 1982). The aquifer is hydraulically connected to the Missouri, Dakota and Wakonda aquifers as well as the Missouri and Vermillion Rivers and merges with the Parker-Centerville aquifer in the north. The specific capacity of well completed into the aquifer ranges from approximately 55 to 173 gallons per minute per foot of drawdown (gpm/ft) (Stephens 1967). The transmissivity of the aquifer ranges from approximately 52,000 to 192,000 gallons per day per foot (gpd/ft) (Stephens, 1967). Ground water in this aquifer generally moves from northwest to southeast in the area of this application (Stephens, 1967). The permeability of the aquifer, based on specific capacity, ranges from approximately 1,300 to 2,300 gallons per day per square foot (gpd/ft²) (Stephens, 1967). The Lower Vermillion-Missouri aquifer has an average thickness of approximately 100 feet and a maximum thickness of approximately 170 feet (Stephens, 1967). There was not a test hole log submitted with this application, but nearby well sites report an average saturated thickness of approximately 73 feet as shown in Table 1 (Water Rights, 2013a). There may be approximately 25 feet of artesian head pressure available.

Well Log Identification	Saturated Thickness (ft)
Observation Well CL-80G	60
Domestic Well for W.F. Stake	130
Well Log for Water Right No. 7082-3	71
Lithologic Log at 093N52W25AAAA	22
Lithologic Log at 093N51W29CDDC	84

Table 1. Reported saturated thickness for nearby wells (Water Rights, 2013a).

SDCL 46-2A-9

In accordance with SDCL 46-2A-9, a permit may be issued to appropriate water only if there is 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 review the availability of unappropriated water and existing rights within the Lower Vermillion-Missouri aquifer.

WATER AVAILABILITY:

This application proposes to appropriate up to 80 ac-ft/yr from the Lower Vermillion-Missouri aquifer. If this application is approved, it is likely that the actual water use will be less than the appropriated amount. The probability of unappropriated water available from the aquifer can be evaluated using 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 that 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."

Recharge versus Discharge:

Recharge:

Recharge to the Lower Vermillion-Missouri aquifer occurs through infiltration and precipitation falling in areas where the aquifer is near land surface and from influent seepage and high flow from the Vermillion River (Stephens, 1967). Recharge is also provided to the aquifer from the Wakonda and Dakota aquifers. The average annual recharge rate to the Lower Vermillion-Missouri aquifer is estimated to be 3.8 in/yr based on observation well analysis (Hedges and others, 1985). Given the area of the aquifer in Clay County of 100,800 acres, average annual recharge to the aquifer in Clay County is estimated to be 31,920 ac-ft/yr.

Discharge:

Discharge from the Lower Vermillion-Missouri aquifer is by evapotranspiration, seepage and flow from springs, subsurface flow, discharge into the Missouri and Vermillion Rivers during low flow, and withdrawal from wells (Stephens, 1967). There are a number of completion reports on file with the SD DENR-Water Rights Program for domestic use wells completed into the Lower Vermillion-Missouri aquifer (Water Rights, 2013b) and there are currently 70 water rights/permits appropriating water from the Lower Vermillion-Missouri aquifer (Water Rights, 2013c). There are 59 water rights/permits appropriating water from this aquifer in Clay County (Water Rights, 2013c). The distribution of these appropriations and their types are shown in Table 2.

Water Rights/Permits	Number
Clay Rural Water System	2
Irrigation	56
University of South Dakota Facilities Management	1

Table 2. Water rights/permits from the Lower Vermillion-Missouri aquifer in Clay County (Water Rights, 2013c).

The amount of water that can be expected to be withdrawn through water rights/permits authorizing water use for non-irrigation purposes at the current appropriation level can be estimated by assuming:

1. Water rights/permits limited by an annual volume will pump the entire volume appropriated.
2. Water rights/permits limited only by diversion rate will pump at the maximum permitted diversion rate 60 percent of the time.

The expected water use for non-irrigation purposes from the Lower Vermillion-Missouri aquifer in Clay County is less than 1,189 ac-ft/yr based on current water appropriations. The annual reported water use from the Lower Vermillion-Missouri aquifer for irrigation purposes is displayed in Table 3.

YEAR	NO. OF PERMITS	APPROPRIATION (AC-FT/YR)	PUMPAGE REPORTED (AC-FT/YR)
2011	52	14674.7	2028.6
2010	49	14248.7	114.56
2009	48	13648.7	461.16
2008	45	12868.45	4218.48
2007	40	11936.45	2589.73
2006	33	10535.45	2260.22
2005	34	10645.45	1274.06
2004	28	9814.45	1417.47
2003	29	10000.45	1293.36
2002	29	10000.45	1536.44
2001	27	9680.45	1458.87
2000	27	9680.45	1524.06
1999	27	9680.45	833.39
1998	25	8951.45	1004.48
1997	25	8457.14	918
1996	25	8897.04	955.29
1995	24	8750.24	323.29
1994	26	9114.74	441.2
1993	26	9749.24	0
1992	26	9749.24	157.8
1991	26	9749.24	1090.7
1990	25	10098.34	1442.2
1989	25	10098.34	1511
1988	25	10098.34	1274.9
1987	24	9876.34	810.4
1986	32	14888.34	833
1985	33	15102.34	977.2
1984	34	15195.34	420
1983	25	9921.34	413.1
1982	24	10183.84	578.41
1981	36	17252	797.41
1980	34	16932	1646.95
1979	36	16932	829.07
MIN	24	8457.14	0.00
MAX	52	17252.00	4218.48
AVE	31.03	11436.71	1134.39

Table 3. Irrigation from the Lower Vermillion-Missouri aquifer in Clay County (Water Rights, 1979-2011)

Comparison of the estimated average annual withdrawal from the Lower Vermillion-Missouri aquifer in Clay County with the estimated average annual recharge for the aquifer in the county indicated that the average annual withdrawals from the aquifer do not exceed the average annual recharge to the aquifer. Therefore, unappropriated water is available from the Lower Vermillion-Missouri aquifer. Specifically, unappropriated water is available for the 80 ac-ft/yr appropriation proposed by this application.

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 to the aquifer”.

The SD DENR-Water Rights Program monitors 12 observation wells completed into the Lower Vermillion-Missouri aquifer with two of these observation wells located within two miles of the well site proposed by this application (Water Rights, 2013b). Hydrographs for these wells are shown in Figures 1 and 2.

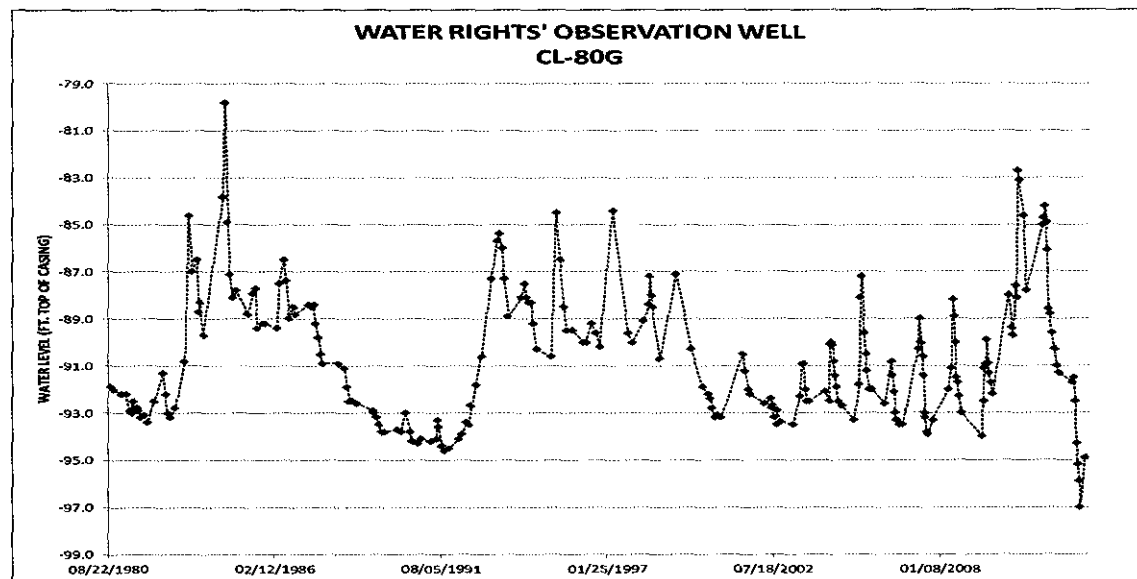


Figure 1. Hydrograph for SD DENR-Water Rights' Observation Well CL-80G completed into the Lower Vermillion-Missouri aquifer less than two miles southwest of the well site proposed by Application No. 7688-3 (Water Rights, 2013a).

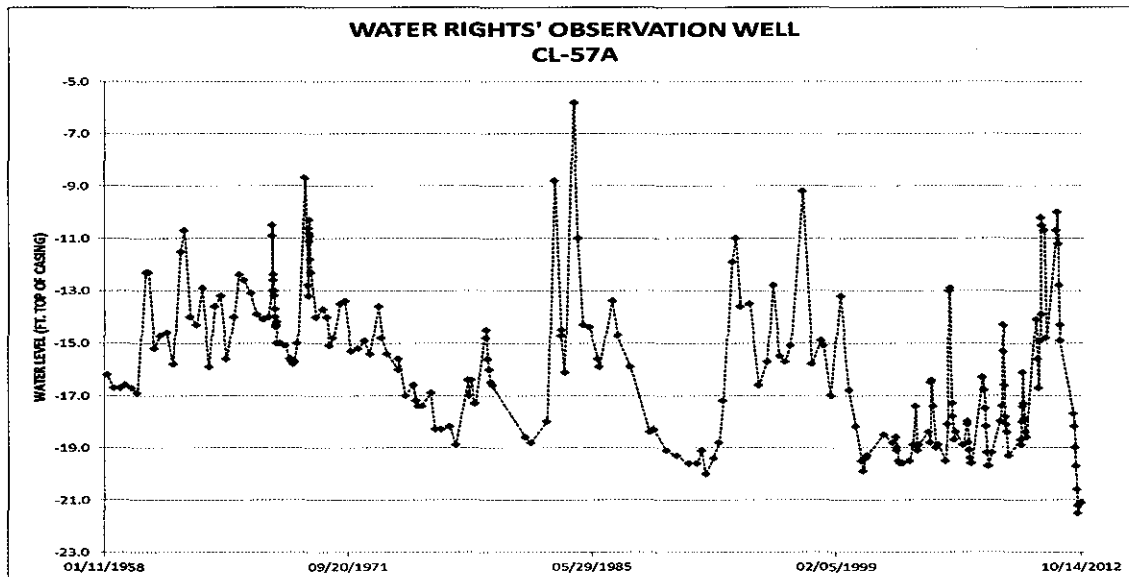


Figure 2. Hydrograph for SD DENR-Water Rights' Observation Well CL-57A completed into the Lower Vermillion-Missouri aquifer less than two miles southwest of the well site proposed by Application No. 7688-3 (Water Rights, 2013a).

The observation well data shows the aquifer responds well to climatic conditions with rising water levels during wet years and gradually declining water levels during dry years. The hydrographs show the effects of pumping, but these are not significant due to the nature of the aquifer. The water level data shows that over the period of record, in general, discharge has not exceeded recharge. The observation well data shows that at the current level of development, climatic conditions greatly mask the temporal effects of well withdrawals. Therefore, recharge to and natural discharge from the Lower Vermillion-Missouri aquifer significantly exceeds pumping. Recognizing that natural discharge from the aquifer can be captured for pumping. The hydrographs document that there is unappropriated water available from the aquifer to support this appropriation.

EXISTING WATER RIGHTS:

The proposed well site is located approximately one and one quarter miles west of the Vermillion River in the southern half of Clay County. The nearest existing water right/permit is Water Right No. 4896-3, for Margaret V Manning, located more than one and one half miles east of the proposed well site (Water Rights, 2013c). Based on the observation well data and the distance between wells, drawdown is not expected to be significant nor likely to cause adverse impacts to existing water rights or domestic wells.

Observation well CL-80G is located within 2,000 feet of Water Permit No. 7082-3, for Bottolfson Bros, and the hydrograph, shown in Figure 1, reports minimal drawdown at this distance due to pumping. Figure 3 shows the nearby existing water rights located in the Lower Vermillion-Missouri aquifer. The locations of the existing water rights/permits were determined using the best data reasonably available.

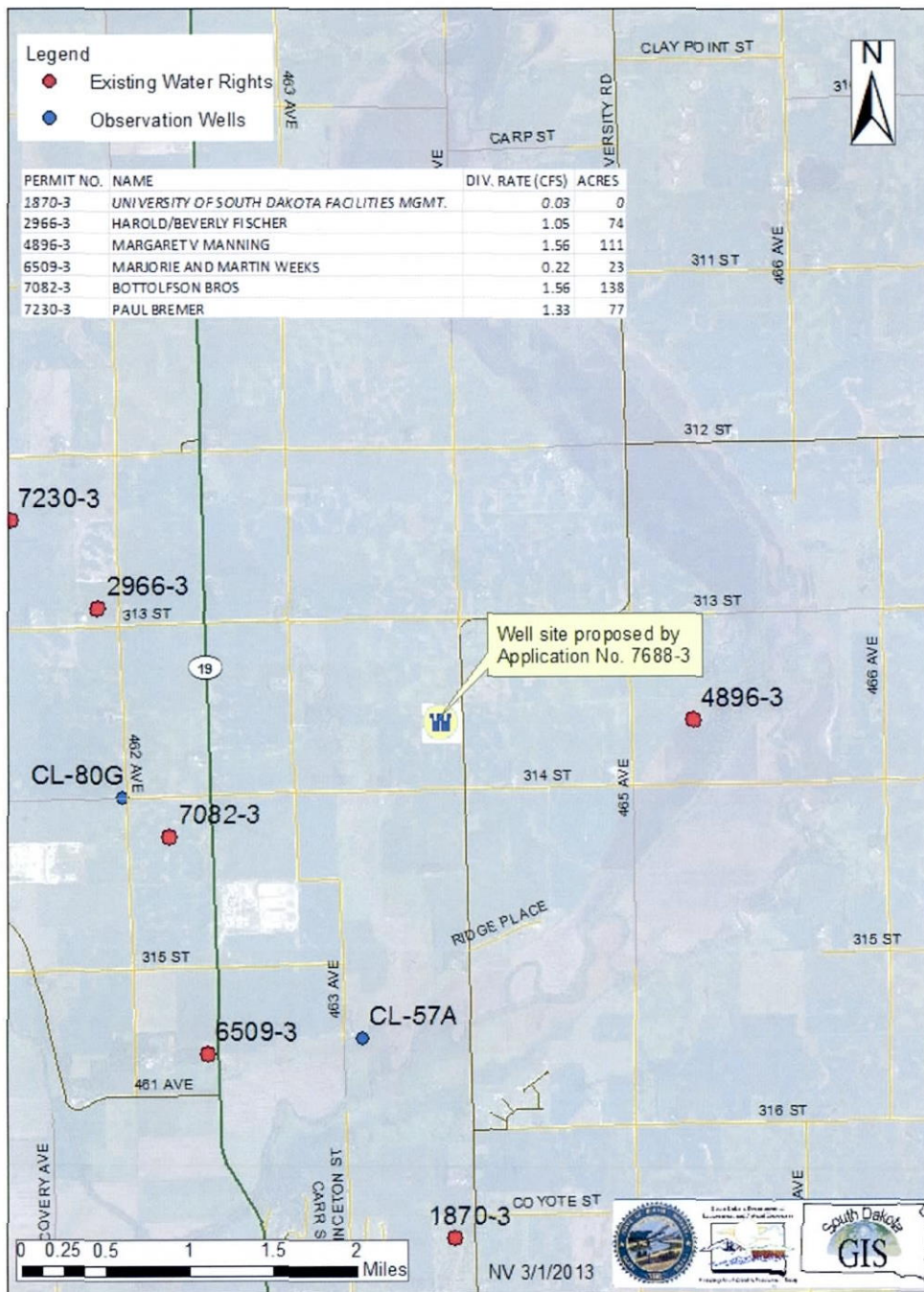


Figure 3. Nearest existing water rights/permits to the well site proposed by Application No. 7688-3 into the Lower Vermillion-Missouri aquifer (Water Rights, 2013c).

With approximately 73 feet of saturated material available at the proposed well site, drawdown is not expected to be relatively significant. With that in mind, this permit should adhere to and include the standard permit qualification which applies to most groundwater permits/rights stating that:

“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”.

SDCL 46-6-6.1 does not protect artesian head pressure as a means of delivery and the Water Management Board has consistently recognized that to place water to maximum beneficial use a certain amount of drawdown may occur. To balance interests between irrigation use and delivery of water by artesian pressure, the Water Management Board has defined an “adversely impacted domestic well” in ARSD 74:02:04:20(7) as:

“a well in which the pump intake was set at least 20 feet below the top of the aquifer at the time of construction or, if the aquifer is less than 20 feet thick, is as near to the bottom of the aquifer as is practical and the water level of the aquifer has declined to a level that the pump will no longer deliver sufficient water for the well owner's needs”

In reality, the assurance of reasonable domestic use provided by SDCL 46-6-6.1 and ARSD 74:02:04:20(7) generally ensures not only that interference will not be adverse to domestic well users but also in existing appropriative rights (i.e. in most cases, the protection afforded to adequate domestic wells by water law, would lead to enforcement of the “standard permit qualification” before there is a reduction of needed water supplies to appropriative rights). Although drawdown is expected to be minimal, as shown by the observation well hydrographs, some drawdown will occur. Depending on the extent of drawdown, some existing well owners may need to lower their pumps to accommodate for deeper water levels. However, when considering the statute and rule, there is a reasonable probability that any well interference from these proposed applications will not be adverse to adequate domestic wells.

CONCLUSIONS:

1. This application proposes to appropriate up to 80 acre-feet annually for irrigation from Lower Vermillion-Missouri aquifer.
2. There is a reasonable probability that unappropriated water is available from the Lower Vermillion-Missouri aquifer to supply this proposed appropriation.
3. The Lower Vermillion-Missouri aquifer is confined in this area, but drawdown from pumping is not expected to be significant very far from a production well.
4. There is a reasonable probability that the well proposed by this application will not adversely impact existing water rights or domestic wells.



Nicole Van Dyk
SD DENR-Water Rights Program

Approved by



Ken Buhler
SD DENR-Water Rights Program

REFERENCES:

- Hedges, L.S., Burch, S.L., Iles, D.L., Barari, R.A., 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., 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; U.S. Army Corps of Engineers Contract DACW 45-80-C-0185
- Stephens, J.C., 1967, Geology and Hydrology of Clay County, South Dakota, Part II: Water Resources, SD DENR- Geological Survey Bulletin 19, 62 p.
- Water Rights, 1979-2011, Irrigation Questionnaire Summaries 1979-2011, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2013a, Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2013b, Water Well Completion Reports, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2013c, Water Right/Permit Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

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AFFIDAVIT OF PUBLICATION

PLAIN TALK

DENR
Division of Environmental Services
Water Rights Program
Joe Foss Building, 523 East Capitol
Pierre, SD 57501

STATE OF SOUTH DAKOTA
COUNTY OF CLAY

TERA SCHMIDT BEING FIRST DULY SWORN ON OATH DEPOSES
AND SAYS THAT SHE IS THE **CLASSIFIED MANAGER** OF YANKTON
MEDIA INC., A CORPORATION, THE PRINTER AND THE PUBLISHER OF THE
PLAIN TALK, A LEGAL WEEKLY NEWSPAPER PUBLISHED AND CIRCULATED
IN THE CITY OF VERMILLION, SAID COUNTY AND STATE, AND ONE OF THE
OFFICIAL NEWSPAPERS OF THE SAID COUNTY OF FACTS STATED IN THIS
AFFIDAVIT; THAT THE ANNEXED
NOTICE OF APPLICATION TO APPROPRIATE WATER

TAKEN FROM THE PAPER, IN WHICH IT WAS LAST PUBLISHED IN THE
NEWSPAPER ON THE 29 DAY OF MARCH 2013
THAT THE FULL AMOUNT OF THE FEE CHARGED FOR THE PUBLICATION
OF SAID **NOTICE** TO WIT **\$38.23** ENSURES TO THE
BENEFITS OF THE PUBLISHER OF SAID NEWSPAPER AND THAT NO
AGREEMENT AND UNDERSTANDING FOR THE DIVISION THEREOF HAS
BEEN MADE WITH ANY OTHER PERSON, AND THAT NO PART THEREOF
HAS BEEN AGREED TO BE PAID TO ANY PERSON WHOMSOEVER.

PUBLISHED ON: 3/29/13

FILED ON: 3/29/13

SUBSCRIBED AND SWORN TO BEFORE ME THIS

1st DAY OF

April

NOTARY PUBLIC, SOUTH DAKOTA
MY COMMISSION EXPIRES

8/19/2015

NOTICE OF APPLICATION
NOS. 7686-3 thru 7689-3 to
Appropriate Water

Notice is given that Nicholas W
Olson, 2112 Augusta Dr., Vermil-
lion SD 57069 has filed the fol-
lowing applications for a water
permit.

Application No. 7686-3 pro-
poses to appropriate 1.0 cubic feet
of water per second (cfs) from one
well to be completed into the Mis-
souri:Elk Point Aquifer (115 feet
deep) located in the SW 1/4 NE
1/4 Section 29 for irrigation of 70
acres located in the S 1/2 NE 1/4
Section 29; all in T93N-R53W.

Application No. 7687-3 pro-
poses to appropriate 1.0 cfs from
one well to be completed into the
Missouri:Elk Point Aquifer (115
feet deep) located in the NW 1/4
SE 1/4 Section 6 for irrigation of
70 acres located in the W 1/2 SE
1/4 Section 6; all in T93N-R53W.

Application No. 7688-3 pro-
poses to appropriate 0.5 cfs from
one well to be completed into the
Lower Vermillion:Missouri Aquifer
(165 feet deep) located in the
NE 1/4 SE 1/4 Section 25 for irri-
gation of 40 acres located in the
NE 1/4 SE 1/4 Section 25; all in
T93N-R52W.

Application No. 7689-3 pro-
poses to appropriate 1.0 cfs from
one well to be completed into the
Missouri:Elk Point Aquifer (115
feet deep) located in the W 1/2
NE 1/4 Section 24 for irrigation of
70 acres located in the W 1/2 NE
1/4 Section 24-T93N-R53W.

Pursuant to SDCL 46-2A-2, the
Chief Engineer recommends AP-
PROVAL of Application Nos.
7686-3, 7687-3, 7688-3 and
7689-3 because 1) unappropriated
water is available, 2) existing
rights will not be unlawfully im-
paired, 3) it is a beneficial use of
water, and 4) it is in the public in-
terest. In accordance with SDCL
46-2A-23, the Chief Engineer will
act on these applications, as rec-
ommended, unless a petition is
filed opposing the applications or
the applicant files a petition con-
testing the Chief Engineer's rec-
ommendations. If a petition op-
posing the applications or contest-
ing the recommendations is filed,
then a hearing will be scheduled
and the Water Management Board
will consider these applications.
Notice of the hearing will be
given to the applicant and any
person filing a petition.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. 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 April 8, 2013.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 these applications. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the total approximate cost of \$38.23.

Published: March 29, 2013

RECEIVED

APR - 3 2013

WATER RIGHTS
PROGRAM

AFFIDAVIT OF PUBLICATION

YANKTON DAILY PRESS AND DAKOTAN

NOTICE OF APPLICATION
NOS. 7686-3 thru 7689-3 to
Appropriate Water

Notice is given that Nicholas W Olson, 2112 Augusta Dr., Vermillion SD 57069 has filed the following applications for a water permit.

Application No. 7686-3 proposes to appropriate 1.0 cubic feet of water per second (cfs) from one well to be completed into the Missouri:Elk Point Aquifer (115 feet deep) located in the SW 1/4 NE 1/4 Section 29 for irrigation of 70 acres located in the S 1/2 NE 1/4 Section 29; all in T93N-R53W.

Application No. 7687-3 proposes to appropriate 1.0 cfs from one well to be completed into the Missouri:Elk Point Aquifer (115 feet deep) located in the NW 1/4 SE 1/4 Section 6 for irrigation of 70 acres located in the W 1/2 SE 1/4 Section 6; all in T93N-R53W.

Application No. 7688-3 proposes to appropriate 0.5 cfs from one well to be completed into the Lower Vermillion:Missouri Aquifer (165 feet deep) located in the NE 1/4 SE 1/4 Section 25 for irrigation of 40 acres located in the NE 1/4 SE 1/4 Section 25; all in T93N-R52W.

Application No. 7689-3 proposes to appropriate 1.0 cfs from one well to be completed into the Missouri:Elk Point Aquifer (115 feet deep) located in the W 1/2 NE 1/4 Section 24 for irrigation of 70 acres located in the W 1/2 NE 1/4 Section 24-T93N-R53W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 7686-3, 7687-3, 7688-3 and 7689-3 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 these applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendations. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider these applications. Notice of the hearing will be given to the applicant and any person filing a petition.

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Department of Environment and Natural Resources
PMB 2020
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3182

STATE OF SOUTH DAKOTA
COUNTY OF YANKTON

KELLY HERTZ BEING FIRST DULY SWORN ON OATH DEPOSES AND SAYS THAT HE IS THE MANAGING EDITOR OF, YANKTON MEDIA INC, A CORPORATION, THE PRINTER AND THE PUBLISHER OF THE YANKTON DAILY PRESS AND DAKOTAN, A LEGAL DAILY NEWSPAPER PUBLISHED AND CIRCULATED IN THE CITY OF YANKTON, SAID COUNTY AND STATE, AND ONE OF THE OFFICIAL NEWSPAPERS OF THE SAID COUNTY OF FACTS STATED IN THIS AFFIDAVIT; THAT THE ANNEXED Notice of Application Nos. 7686-3 thru 7689-3

TAKEN FROM THE PAPER, IN WHICH IT WAS LAST PUBLISHED IN THE NEWSPAPER ON THE 29th DAY OF March 2013 THAT THE FULL AMOUNT OF THE FEE CHARGED FOR THE PUBLIC/ OF SAID NOTICE TO WIT \$36.58 ENSURES TO THE BENEFITS OF THE PUBLISHER OF SAID NEWSPAPER AND THAT NO AGREEMENT AND UNDERSTANDING FOR THE DIVISION THEREOF HAS BEEN MADE WITH ANY OTHER PERSON, AND THAT NO PART THE HAS BEEN AGREED TO BE PAID TO ANY PERSON WHOMSOEVER.

PUBLISHED ON: 3/29/2013

FILED ON: 3/29/2013

neer'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 April 8, 2013.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 these applications. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the total approximate cost of \$36.58.

SUBSCRIBED AND SWORN TO BEFORE ME THIS 29th DAY OF March 2013

NOTARY PUBLIC, SOUTH DAKOTA
MY COMMISSION EXPIRES 8/19/2015



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

dent.sd.gov

March 18, 2013

Plain Talk
201 W Cherry St
Vermillion SD 57069

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application Nos. 7686-3 thru 7689-3 to Appropriate Water. Please publish the notice once on March 29, 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 Nicholas W Olson, 2112 Augusta Dr, Vermillion SD 57069 (Ph # 605-670-1024).

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

March 18, 2013

Press & Dakotan
319 Walnut
Yankton SD 57078

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application Nos. 7686-3 thru 7689-3 to Appropriate Water. Please publish the notice once on March 29, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

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

March 18, 2013

Nicholas W Olson
2112 Augusta Dr
Vermillion SD 57069

Dear Mr. Olson:

Water Permit Application Nos. 7686-3 thru 7689-3 for irrigation use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Plain Talk printed at Vermillion SD (Ph # 605-624-2695) and the Press & Dakotan printed at Yankton SD (Ph # 605-665-7811). You will need to contact the newspaper(s) and authorize publication of this notice. For your information, a copy of the notice, the recommendations of the Chief Engineer and reports on the applications 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(s) has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the applications.

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 applications.

Instruction to Newspaper - Publish the Notice on March 29, 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 NOS. 7686-3 thru 7689-3 to Appropriate Water

Notice is given that Nicholas W Olson, 2112 Augusta Dr., Vermillion SD 57069 has filed the following applications for a water permit.

Application No. 7686-3 proposes to appropriate 1.0 cubic feet of water per second (cfs) from one well to be completed into the Missouri:Elk Point Aquifer (115 feet deep) located in the SW 1/4 NE 1/4 Section 29 for irrigation of 70 acres located in the S 1/2 NE 1/4 Section 29; all in T93N-R53W.

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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

MAY 20 2013

Nicholas W Olson
2112 Augusta Dr
Vermillion SD 57069

Dear Mr. Olson:

Enclosed are Water Permit Nos. 7686-3, 7687-3, 7688-3 and 7689-3 authorizing construction of your water diversion systems and beneficial use of the water, not exceeding the limits as specified in the Water Permits.

Form 10's, *Notice of Completion of Works and Application of Water to Beneficial Use*, are enclosed. Please return the completed forms after you have finished the systems and have put the water to beneficial use. An investigation can then be scheduled so the water licenses 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.

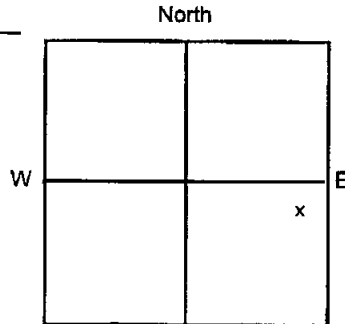
Sincerely,

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

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 SE 1/4 Sec 25 Twp 93N Rg 52WCounty CLAYPlease mark well
location with an "X"

Well Completion Date

February 19, 2014

1 Mile

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

PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test holes
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well
METHOD OF DRILLING:
REVERSE ROTARY

CASING DATA:

☐ Steel ☒ Plastic ☐ Other
 If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	<u>16.00</u> IN	<u>0.0</u> FT	<u>80.0</u> FT	<u>22.00</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>BENTONITE</u>	<u>60</u>	<u>9.5</u> Lb/gal	<u>0.0</u> Ft	<u>80.0</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

TREMIE METHOD

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 16.00 Inches Length 60.0 Feet
 Material PVC
 Slot Size .080 Set From 80.0 Feet to 100.0 Feet
 Other Information .050 SET FROM 100.0 FT TO 140.0 FT

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? HTH PELLETS
☐ No, Why Not?
Lab to which water
quality sample sent for analysisWell Owner: NICK OLSON

Business Name:

Address: 45774 314TH STCity, State, Zip: MECKLING SD 57069

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOP SOIL	0	2
BROWN, GLACIAL TILL	2	15
GLACIAL TILL/SAND BLUE CLAY	15	79
COAL	79	83
GRAVEL	83	85
MED SAND	85	110
MED SAND TO GRAVEL	110	140

STATIC WATER LEVEL 69.0 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:☐ Bailed☐ Other

Pumping Level Below Land Surface

76.0 Ft. After 2.0 Hrs. pumped 775.0 GPM78.0 Ft. After 3.0 Hrs. pumped 935.0 GPM

If pump installed, pump rate: _____ GPM

REMARKS

This well was drilled under license # 666 and this report is true and accurate.Drilling firm: HAMMOND-WETMORE DRILLING, LLC

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

RECEIVED

Date: 3/31/14

APR - 2 2014

WATER RIGHTS
PROGRAM

4-8-14

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7688-3

I have this day, November 9, 2015, made a thorough examination of the water use system constructed by Nicholas W Olson, 2112 Augusta Dr, Vermillion, SD 57069 of Permit No. 7688-3, bearing the priority of February 6, 2013 authorizing the diversion of 0.5 cu. ft. per second of the waters of Lower Vermillion:Missouri Aquifer for irrigation purposes, in Clay County.

Inspection contact & relationship to permit holder, if applicable: **Nicholas W Olson, permit holder**

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Hammond-Wetmore Drilling, LLC
- 2) No. of Wells 1
- 3) Depth(s) 140 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 16 inches
- 2) Length 80 feet
- 3) Type PVC

Screen:

- 1) Type PVC Manufactured
- 2) Length 60 feet
- 3) Static water level 69 feet

Pump:

- 1) Make Grundfos Submersible
- 2) Model 230S200
- 3) Capacity 225 GPM

Motor:

- 1) Make Grundfos
- 2) Model No. Submersible
- 3) Horsepower rating 20 hp

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Valley
- 2) Overall length 640 feet
- 3) Number of towers 4
- 4) End gun Yes
- 5) Capacity 225 GPM

Chemigation Equipment:

- 1) Does chemigate No

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Yes
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Yes, began irrigating in 2014.

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: West 680', North 1990' from SE Corner of Sec 25-T93N-R52W; Lat 42.84277/Long -96.92660; NE ¼ SE ¼ Sec 25-T93N-R52W.
2. The works are capable of diverting and conveying to the place of use 0.5 cfs or 225 gpm of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:
All land is located in Sec 25-T93N-R52W.
NE ¼ SE ¼ - 33 ac
comprising a total of 33 acres of land and the license should be issued for 0.5 cfs or 225 gpm.
3. All structures, wells and lands on map Yes

Harold Holoch

Harold Holoch, PE
Engineer Water Rights Inspector
DENR, Water Rights Program

Date report completed: March 11, 2016

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

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

Date 11-9-15

FROM: Nicholas W. Olson
(name)

2112 Augusta Dr
(address)

Vermillion SD 57069
(city) (state) (zip)

605-670-1024
(phone)

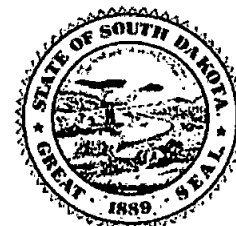
I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

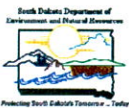
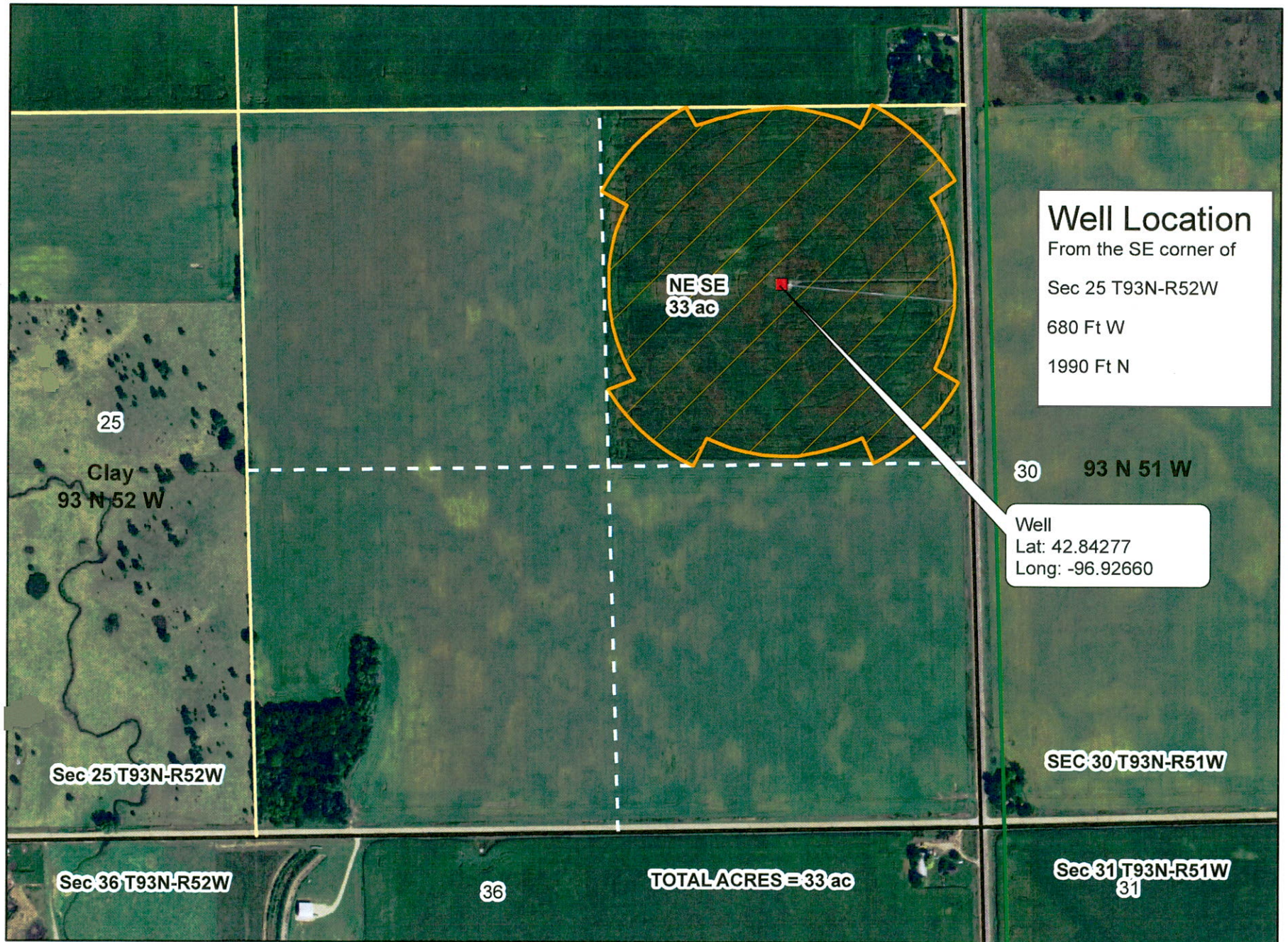
Water Permit No. 7688-3 states that the water use system is to be constructed by
4-8-2018 (date), and water is to be put to beneficial use by 4-8-2022 (date)

The water use system was completed on May 2014
(date)

Applying the water to beneficial use was completed on July 2014
(date)

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





Harold Holoch
Harold Holoch, PE
Water Rights Inspector
December 14, 2015



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

MAR 22 2016

7686-3
7687-3
7688-3

Nicholas W Olson
2112 Augusta Dr
Vermillion SD 57069

Dear Mr. Olson:

Enclosed are Water License Nos. 7686-3, 7687-3 and 7688-3. These are the final water right documents completing your process of obtaining Water Rights. Included with each 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 wells authorized by Water Right No. 7686-3, 7687-3 and 7688-3, 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 Licenses, 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. 7686-3**

(1) Nicholas W Olson, 2112 Augusta Drive, Vermillion SD 57069 made Application No. 7686-3, February 6, 2013 for a water permit to divert 1.00 cubic feet of water per second from ground water, one well (Missouri Elk Point Aquifer), Clay County, South Dakota for irrigation purposes. Permit No. 7686-3, with a priority date of February 6, 2013 was approved April 8, 2013 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before April 8, 2018 and for the application to beneficial use of said water on or before April 8, 2022.

The Permit holder submitted a "*Notice of Completion of Works and Application of Water to Beneficial Use*" on November 9, 2015. The "*Notice*" stated the water use system was completed in May, 2014 and the water placed to beneficial use in July, 2014.

(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 0.94 cubic feet of water per second for beneficial use. The location of the diversion point is 1,340 feet west and 1,340 feet south of the NE corner of Section 29, T93N, R53W (approximate center of the NE ¼).

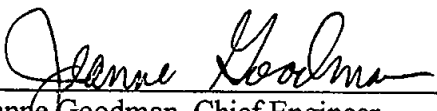
(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

T93N, R53W Section 29	SW ¼ NE ¼	33 acres
	SE ¼ NE ¼	33 acres
	Total	66 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Nicholas W Olson, 2112 Augusta Drive, Vermillion SD 57069 the holder and/or owner of Water Right No. 7686-3 is issued a license to appropriate water, the right to use 0.94 cubic feet of water per second from ground water, one well (Missouri Elk Point Aquifer) with a priority date of February 6, 2013 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. 7686-3 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.
- The well authorized by Permit No. 7686-3 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 completed in April, 2014 by Hammond-Wetmore Drilling LLC. A copy of the log is on file with the Water Rights Program.*
- 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

MAR 22 2016

date

