

WATER PERMIT NO. 2522-2

Name of Applicant: **Daniel Vavra**

Address: **HC 78 Box 28, Crookston NE 69212**

Phone: **605 747-2545**

Amount of Water Claimed: **1.94**

Total Acres: **136**

Source of Water Supply: **groundwater**

Water to be used for: **irrigation**

County: **Todd**

Type of Waste Disposal System:

Location: **8 miles southwest of Mission**

PRIORITY

Date Received: **3-30-04**

Application/License Fee: **\$300**

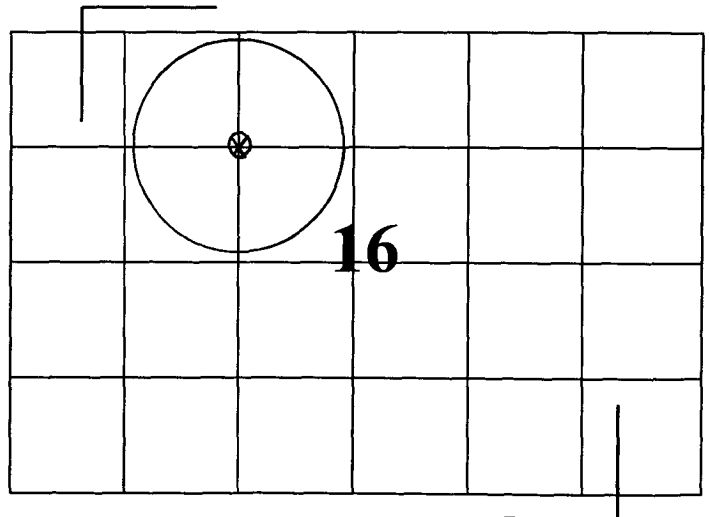
Corrected Application Received:

Period of Annual Use: **April 1- October 31**

Remarks:

Diversion Point: **center NW ¼ Sec 16-T37N-R29W**

Land to be Irrigated: **NW ¼ Sec 16-T37N-R29W**



Depth of Well: **260 feet deep**

Well Driller: : **Grosch Irrigation Co.**

Remarks:

Type of Map: **aerial**

Prepared by: **Ron Duvall**

Reviewed and the Number Assigned on: **3-31-04**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

RECEIVED

MAR 30 2004

WATER RIGHTS
PROGRAM

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>2522-2</u> (office use only)	Hydrologic Unit <u>10150006</u>
	Basin <u>Nebraska Trib</u>	
	Newspaper <u>Todd Co. Tribune, Mission</u>	

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 of Applicant Daniel Vavra Phone (605) 747-2545
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address HC 78 Box 28 Crookston State NE 69212
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 1.940 *CFS or **GPM ***AF Total Acreage 136
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply ground water - one well
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Todd
NW1/4 section 16-T37N-R29W
5. County or counties where water will be used Todd
6. Annual period during which water is to be used Apr 1 - Oct 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
NW1/4 sec 16-T37N-R29W	136		

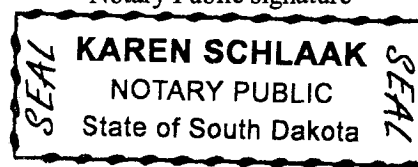
8. Give a description of the project. (Attach sheet if more space is needed)

STATE OF SOUTH DAKOTA) SS
County of Hughes

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

I, DANIEL VAVRA, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.Applicant's signature Daniel E VavraSubscribed and sworn to before me this 30th day of March 20 04Karen Schlaak

Notary Public signature



**SOUTH DAKOTA
WATER PERMIT NO. 2522-2**

Date of first receipt of application March 30, 2004.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2522-2 to Daniel Vavra, HC 78 Box 28, Crookston NE 69212 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. 2522-2 appropriates 1.94 cubic feet of water per second from one well (Ogallala Formation) 260 feet deep located in the center of the NW ¼ Section 16 to irrigate 136 acres located in the NW ¼ Section 16; all in T37N-R29W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – October 31.
3. The date from which applicant may claim right is March 30, 2004.
4. The date of approval of Permit No. 2522-2 is July 26, 2004.
5. One-fifth of the construction is to be completed on or before January 26, 2007.
6. All construction is to be completed on or before July 26, 2009.
7. Water is to be put to beneficial use on or before July 26, 2013.
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. 2522-2 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) from the producing formation to the surface 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: Garland Erbele

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

AUG 13 2004

date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

see attached log

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:

On applicants property _____ On property owned by others _____

2. Wastewater Disposal System Information

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

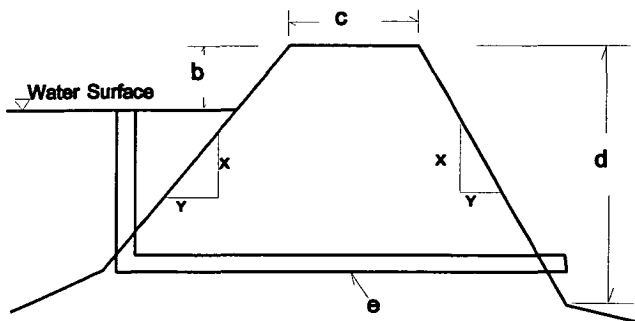
3. Dugout Information

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

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

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



- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date March 30, 20 04

RECEIVED OF Daniel Vavra, HC 78 Box 28, Crookston NE 69212

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	250	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____	50	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	300.00

No.

001209

By

Darland Orbeck

Chief Engineer

NOTICE OF WELL CONSTRUCTION

INSUFFICIENT LOCATION

Todd

37-29-225

(1) WELL CONSTRUCTION

X Location of well: NW 1/4 1/4 Section 12 Township 37 Range 29

Well owner Danny Vavra Crookston, NE
(Name) (Address)

Date well drilling completed 5/18/78 Purpose of well Irrigation
(domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer	Depth to top of water producing aquifer	
0- 98	Sandstone, lime- stone and clay lys	98	ft.
98- 184	Sandstone, and limestone layers	98	ft.
184- 236	Sand & sandstone	Name of producing aquifer (if known) <u>Sandstone</u>	
236- 260	Red rock	Total depth of drill hole <u>238</u>	ft.
		Depth to bottom of casing <u>238</u>	ft.
		Casing information: in the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used.	
		All concrete, 21" od, 16" id. Well is cased with 1' plug in bottom, 136' of screen following and 101' of plain on top.	
		Screen information: in the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.	
		Maximum GFM-- 925 from 139'	
		If a flowing well, flow of completed well _____ G.P.M.	

Attach sheet if more space is needed

GROSCH IRRIGATION CO., INC.
Name of Drilling Contractor

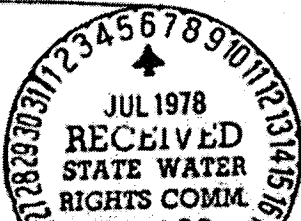
(2) PUMP INSTALLATION

Company name and size of pump Fairbanks Morse, 11" HP 84
Type of pump Turbine Capacity of installed pump 800 G.P.M.
Depth of pump placement 180 ft., Date of pump installation 6/16/78

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____, tube material _____

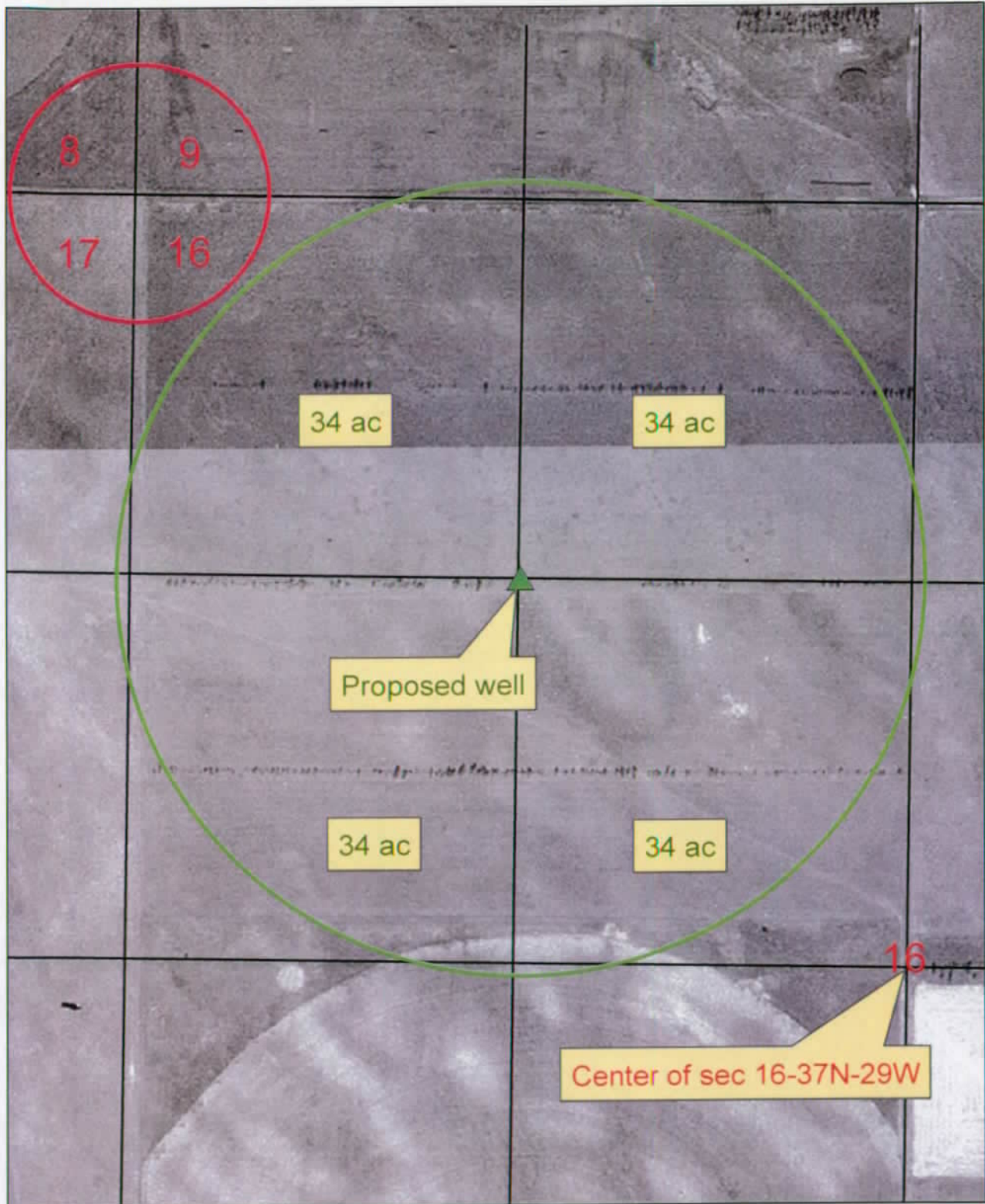


Grosch Irrigation Co., Inc. --O'Neill, NE
Name of Pump Installation Contractor

Scale: 1 inch equals 510 feet

720

Feet



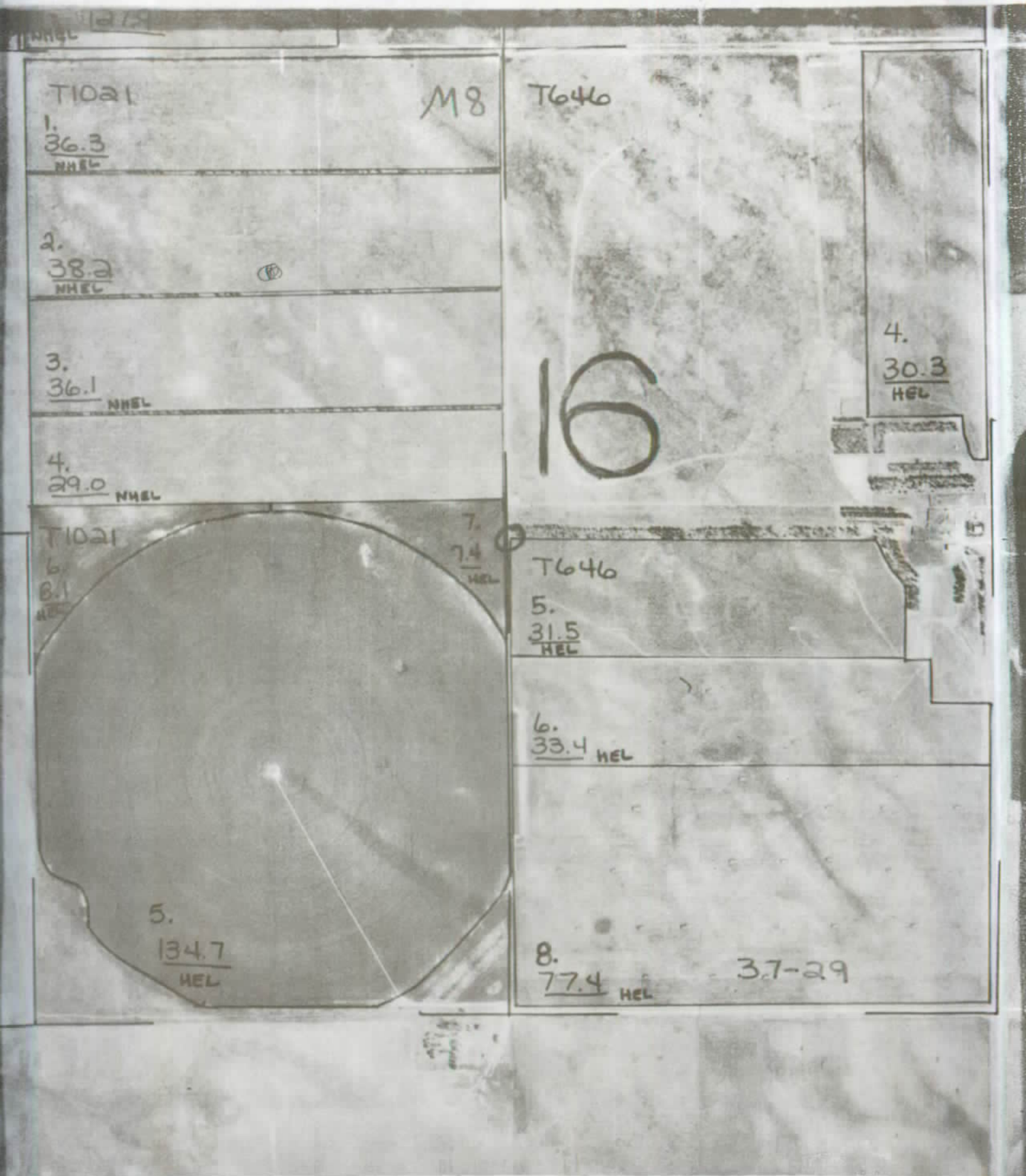
South Dakota
Department of Environment
& Natural Resources
Water Rights

Completed by:

Ron Duvall
Ron Duvall, Natural Resources Engineer
Water Rights Program

Date: March 30, 2004

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



WATER PERMIT APPLICATIONS NO. 2522-2 & NO. 2523-2
DANIEL VAVRA
MAY 25, 2004

Water Permit Application No. 2522-2 proposes to appropriate 1.94 cubic feet of water per second from one well (Ogallala Formation) 260 feet deep located in the center of the NW¼ Sec. 16 to irrigate 136 acres located in the NW¼ Sec. 16; all in T37N-R29W, Todd County.

Water Permit Application No. 2523-2 proposes to appropriate 1.94 cubic feet of water per second from one well (Ogallala Formation) 260 feet deep located in the center of the S½ NE¼ Sec. 21 to irrigate 136 acres located in the NE¼, N½SE¼ Sec. 21; all in T37N-R29W, Todd County.

AQUIFER: Ogallala (OGLL)

GENERAL:

The High Plains Aquifer consists of the upper sandstone units of the Arikaree Formation, the Ogallala Formation, and the Sand Hills Formation, and any terrace or alluvial deposits, all of which are hydraulically connected (Kolm, 1983). The High Plains Aquifer underlies 4,750 square miles of South Dakota and contains an estimated 700 million acre feet of water in the state (Gutentag and others, 1984). The Ogallala Formation, which consists of clays, silts, sands and surface gravel deposits makes up a major part of the High Plains Aquifer. The Ogallala Formation underlies approximately 412,800 acres of Todd County and contains an estimated 12,384,000 acre-feet of recoverable water in storage in the county (Allen and others, 1984). The saturated thickness of the aquifer is estimated to be 200-400 feet in this area. (Kolm, 1983). A well log for a nearby irrigation well indicates mostly sand and sandstone (i.e. Ogallala aquifer) to a depth of 236 feet. The well has a static water level of about 98 feet below grade and was capable of producing a maximum of 925 gpm. The wells proposed by these applications should have similar yields. The Ogallala Formation overlies the Arikaree Formation in this area and it appears that the water levels for the Ogallala are higher than the Arikaree. This would indicate the potential for downward movement of ground water from the Ogallala to the Arikaree. The aquifer is under unconfined conditions with the water table controlled locally by topography. Precipitation is the principal source of recharge to the aquifer. The annual recharge rate has been estimated to be 8 percent of the precipitation rate, or about 1.3 in./yr to 1.8 in./yr (Kolm, 1983). This would equate to an annual recharge of 44,700 acre-feet to 61,900 acre-feet in Todd County. Natural discharge occurs to streams and springs, and directly to the atmosphere by evapotranspiration.

WATER AVAILABILITY:

Water Rights Program monitors 81 observation wells completed into the Ogallala Formation, of which 21 are located in Todd County. Water Rights' Observation Wells TD-76A and TD-76B are located within two miles of the wells proposed by these applications. The hydrographs for these wells are shown in figures 1-2.

WATER RIGHTS' OBSERVATION WELL
TD-76A

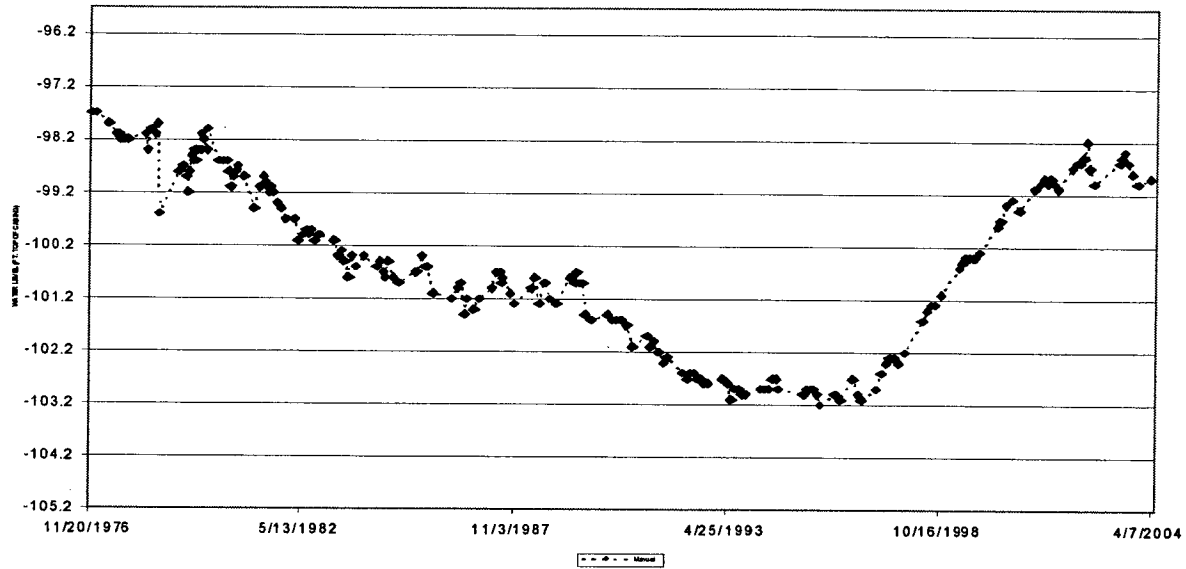


Figure 1. Hydrograph of Water Rights' Observation Well

WATER RIGHTS' OBSERVATION WELL
TD-76B

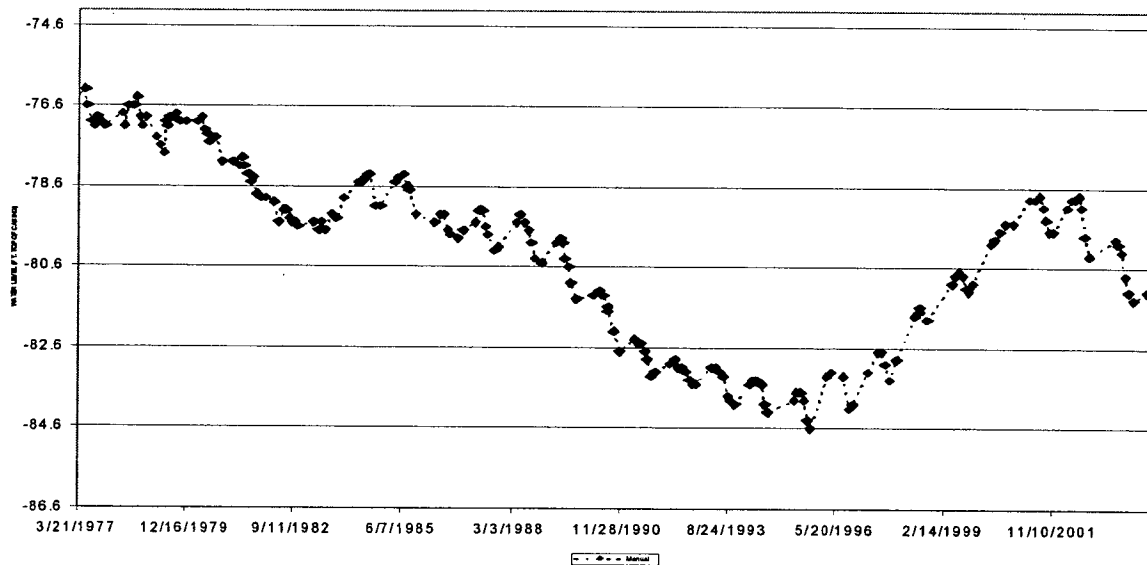


Figure 2. Hydrograph of Water Rights' Observation Well

These observation wells are read monthly and show only slight fluctuations due to existing pumping and changes in climatic conditions (Water Rights, 2004c).

There are 136 permits/rights which appropriate water from the Ogallala aquifer in South Dakota. There are 50 permits/rights from the Ogallala in Todd County. Irrigation is the major water use from the aquifer. Reported pumpage from the Ogallala for irrigation use can be seen in figure 3.

*Reported Irrigation Pumpage
from the Ogallala Aquifer in South Dakota*

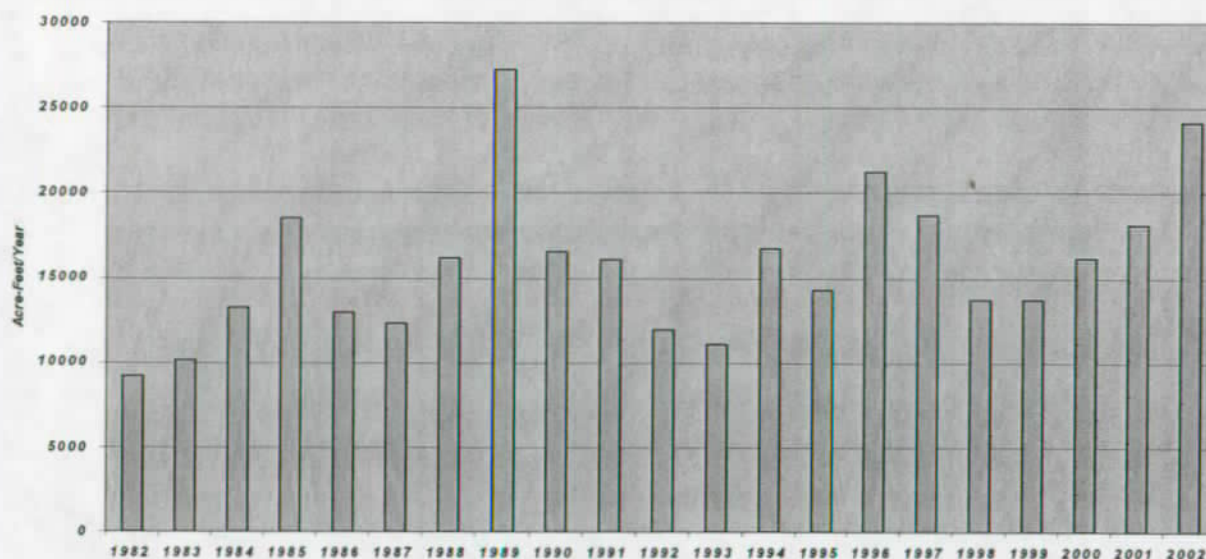


Figure 3. Irrigation usage from the Ogallala aquifer (Water Rights, 2002).

AFFECTS ON EXISTING RIGHTS:

Since the Ogallala Aquifer is under unconfined conditions, drawdown from pumping an individual well is not expected be significant very far from the well. There are ten irrigation Water Rights within three miles of the well sites proposed by these applications (Water Rights, 2004c). They include:

PERMIT	NAME	CFS	ACRES
1224-2	MISSION FARMS	14.30	1,048.00
1253A-2	DANIEL VAVRA	5.30	389.00
1272A-2	DANIELSKI HARVESTING &	1.80	125.00
1294-2A	MISSION FARMS	3.60	255.00
1311-2	GENE POPKES	1.89	142.00
1476-2	MISSION FARMS	1.80	128.00
1615-2	DANIELSKI HARVESTING &	13.40	993.00
1922-2	DANIELSKI HARVESTING &	5.57	401.00
2092-2	MISSION FARMS	1.78	132.00
2096-2	MISSION FARMS	1.78	132.00

Table 1. Water Rights within three miles of 2522-2 and 2523-2.

The nearest Water Right not held by Daniel Vavra is No. 1224-2, with wells located within one mile of the wells proposed by these applications. Drawdown will be created by pumping the wells proposed by these applications but should not adversely impact existing wells.

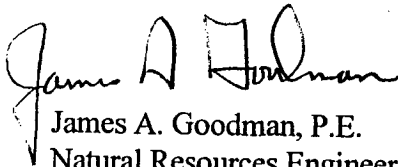
CONCLUSIONS:

1. The Ogallala Aquifer is a viable aquifer in this area, and water is available for these appropriations.
2. Well interference should not be a problem in this area.



Ken Buhler
Natural Resources Engineer

approved by



James A. Goodman, P.E.
Natural Resources Engineer

REFERENCES:

- Allen, J.C., Iles, D.L., and Petres, A.K., 1984, Analysis of Groundwater and Streamflow Data Western Dakotas Region of South Dakota, Task 3 and 4: Groundwater Resource Inventory: South Dakota Department of Water and Natural Resources,
- Gutentag, E.D., Heimes, F.J., Krothe, N.C., Luckey, R.R., Weeks, J.B. 1984, Geohydrology of the High Plains Aquifer in Parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming: U.S. Geological Survey Professional Paper 1400-B, 63 p.
- Kolm, K.E., and Case III, H.L., 1983, A Two-Dimensional, Finite-Difference Model of the High Plains Aquifer in Southern South Dakota: U.S. Geological Survey Water-Resources Investigations Report 83-4175, 34 p.
- Water Rights Program, 2002, "Irrigation Use Summary": DENR-Water Rights Program
- Water Rights Program, 2004a, "Observation Well Files": DENR-Water Rights Program
- Water Rights Program, 2004b, "Water Permit Files": DENR-Water Rights Program,



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2522-2, Daniel Vavra**

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. 2522-2, Daniel Vavra, HC 78 Box 28, Crookston NE 69212.

The Chief Engineer is recommending APPROVAL of Application No. 2522-2 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. 2522-2 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) from the producing formation to the surface 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
May 27, 2004



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

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

May 27, 2004

Daniel Vavra
HC 78 Box 28
Crookston NE 69212

Dear Mr. Vavra:

Water Permit Application Nos. 2522-2 & 2523-2 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Todd County Tribune printed at Mission, SD (Ph # 605-856-4469). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendations of the Chief Engineer and a report 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 to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks. 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 applications.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

May 27, 2004

Todd Co Tribune
PO Box 229
Mission SD 57555-0229

ATTENTION: Legal Public Notice

Enclosed are the Notice of Hearing on Application Nos. 2522-2 & 2523-2 to Appropriate Water to be published twice. Please publish the first notice on June 2, 2004 with the second publication 7 days later. 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, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Daniel Vavra, HC 78 Box 28, Crookston NE 69212 (Ph # 605-747-2545).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 2522-2 & 2523-2

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

Date _____

We are in receipt of your letter of May 27, 2004 enclosing Notice of Hearing to Appropriate Water by Application Nos. 2522-2 & 2523-2 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper

Instruction to Newspaper - Publish first Notice on June 2, 2004 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NOS. 2522-2 and 2523-2 to Appropriate Water

Notice is given that Daniel Vavra, HC 78 Box 28, Crookston NE 69212 has filed the following applications for a water permit.

Application No. 2522-2 appropriates 1.94 cubic feet of water per second (cfs) from one well (Ogallala Formation) 260 feet deep located in the center of the NW $\frac{1}{4}$ Section 16 to irrigate 136 acres located in the NW $\frac{1}{4}$ Section 16; all in T37N-R29W.

Application No. 2523-2 appropriates 1.94 cfs from one well (Ogallala Formation) 260 feet deep located in center of the S $\frac{1}{2}$ NE $\frac{1}{4}$ Section 21 to irrigate 136 acres located in the NE $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$ Section 21; all in T37N-R29W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2522-2 and 2523-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the 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 the 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 June 21, 2004.

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.

AFFIDAVIT OF PUB

State of South Dakota
County of Todd

Wednesday, June 9, 2004

Mandy Scherer, being duly sworn, says: That The Todd County Tribune is, and during all the times hereinafter mentioned was, a weekly legal newspaper as defined in SDCL 17-2-2.1 through 17-2-2.4 inclusive, as amended, published at Mission, Todd County, South Dakota by Huether Brothers Publishing, Inc.; that affiant is and during all of said times was, an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order of advertisement, a printed copy of which is attached, was published in said newspaper for 2 successive issues, bearing the following dates:

June 2, 2004
June 9, 2004

that the full amount of the fee charged for publishing the same, to-wit, the sum of \$ 46.08, insures solely to the benefit of the publisher of said newspaper; that no agreement or understanding for the division of the fee has been made with any person, and that no part of the fee has been agreed to be paid by any other person.

Mandy Scherer

Bookkeeper

NOTICE OF APPLICATION

NOS. 2522-2 AND 2523-2 TO APPROPRIATE WATER

Notice is hereby given that Daniel Vavra, HC 78 Box 28, Crookston, NE 69212 has filed the following applications for a water permit.

Application No. 2522-2 appropriates 1.914 cubic feet of water per second (cfs) from one well (Ogallala) Formation) 260 feet deep located in the center of the NW 1/4 section 16 to irrigate 136 acres located in the NW 1/4 Section 16; all in T37N-R29W.

Application No. 2523-2 appropriates 1.94 cfs from one well (Ogallala Formation) 260 feet deep located in center of the S1/2 NE1/4 Section 21 to irrigate 136 acres located in the NE 1/4, N1/2 SE1/4 Section 21; all in T37N-R29W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2522-2 and 2523-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

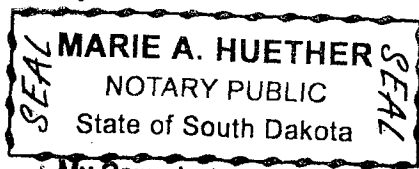
Any person interested in opposing or supporting these applications or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineers recommendations. The Chief Engineers address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605) 773-3352" and the applicants mailing address is given above. A petition filed by either an interested person or the applicant must be filed by June 21, 2004.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reason 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 application. Steven M. Pirner, Secretary, Department of Environmental and Natural Resources.
Publ.: June 2, and 9 2004

Subscribed and sworn to before me this 23
day of June A.D., 20 04

Marie Huether

Notary Public



My Commission Expires
July 6, 2007

RECEIVED
JUN 25 2004
WATER RIGHTS
PROGRAM



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

June 28, 2004

Daniel Vavra
HC 78 Box 28
Crookston NE 69212

Dear Mr. Vavra:

The original notice of application for Water Permit No. 2522-2 was published with an error in the amount of water to be appropriated. The June 2nd publication indicated that No. 2522-2 appropriates 1.92 cubic feet of water per second. The correct amount should be 1.94. We contacted the paper so a correction could be made in the June 9th publication. Unfortunately, the June 9th publication listed the amount of water to be appropriated as 1.914 cubic feet of water per second.

As a result of the error, the notice of application needs to be readvertised to ensure that the water permit is free from legal problems due to incomplete public notice. Enclosed is a copy of the public notice. The Todd County Tribune (605 856-4469) has been instructed to public the notice on July 7 and 14, 2004. Be sure to contact the paper to authorize publication of the notice.

Water Permit No. 2523-2 was correctly advertised and will be issued soon. Please contact us if you have any questions.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

c: Todd County Tribune

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

June 28, 2004

Todd Co Tribune
PO Box 229
Mission SD 57555-0229

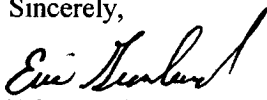
ATTENTION: Legal Public Notice

Enclosed is the Notice of Hearing on Application No. 2522-2 to Appropriate Water to be published twice. Please publish the first notice on July 7, 2004 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 2522-2

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

Date _____

We are in receipt of your letter of June 28, 2004 enclosing Notice of Hearing to Appropriate Water by Application No. 2522-2 which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper

Instruction to Newspaper - Publish first Notice on July 7, 2004 with the second publication 7 days later.

NOTICE OF APPLICATION NO. 2522-2 to Appropriate Water

Notice is given that Daniel Vavra, HC 78 Box 28, Crookston NE 69212 has filed an application for a water permit to appropriate 1.94 cubic feet of water per second from one well (Ogallala Formation) 260 feet deep located in the center of the NW ¼ Section 16 to irrigate 136 acres located in the NW ¼ Section 16; all in T37N-R29W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2522-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting the application 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 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 July 26, 2004.

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 the application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
County of Todd)

I, Mandy K Scherer

certify that the attached printed Notice was
taken

from the Todd County Tribune

printed and published in Mission

County of Todd and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

July 7

July 14

Cost of Printing \$42.24

Mandy K Scherer
(Signature)

Secretary
(Title)

7/14/04
(Date Signed)

RECEIVED
JUL 20 2004
WATER RIGHTS
PROGRAM

Notice of Application No. 2522-2
To Appropriate Water

Notice is given that Daniel Vavra, HC 78 Box 28, Crookston, NE 69212 has filed an application for a water permit to appropriate 1.94 cubic feet of water per second from one well (Ogallala Formation) 260 feet deep located in the center of the NW1/4 Section 16 to irrigate 136 acres located in the NW1/4 Section 16; all in T37N-R29W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2522-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting the application 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 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 July 26, 2004.

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 the application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.
Publish: July 7 and 14, 2004.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

AUG 13 2004

Daniel Vavra
HC 78 Box 28
Crookston NE 69212

Dear Mr. Vavra:

Enclosed is Water Permit No. 2522-2 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 SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 16 Twp 29 Rg 37

County

Todd

North

Please mark well location with an "X"

W

E

Well Completion Date

4/7/2008

1 Mile

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:

REVERSE ROTARY

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
20.0 LB/FT	16.00 IN	90.0 FT	1.0 FT	30.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
CEMENT	50	15.5 Lb/gal	20.0 Ft	0.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

PUMPED TREMIE PIPE

SCREEN:

☒ Perforated pipe ☐ Manufactured
Diameter 16.00 Inches Length 20.0 FeetMaterial PVCSlot Size .080 Set From 90.0 Feet to 230.0 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? HTH
☐ No, Why Not?

Lab sample sent to for water quality analysis

Well Owner: DANIEL VAVRA

Business Name:

Address: HC 78 BOX 28City, State, Zip: CROOKSTON NE 69212

WELL LOG:

DEPTH

FORMATION	FROM	TO
top soil, sand, sandstone, limestone	0	24
sand, sandstone, pepper limestone la	24	77
sand, sandstone, pepper, limestone la	77	116
sand, stone, limestone layers	116	124
pepper, sandstone, limestone, clay	124	146
sand, pepper, limestone, clay	146	188
sand, pepper, limestone layer	188	224
red rock	224	240

STATIC WATER LEVEL 96.0 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

190.0 Ft. After 2.0 Hrs. pumped 475.0 GPM184.0 Ft. After 2.0 Hrs. pumped 450.0 GPMIf pump installed, pump rate: 400.0 GPM

REMARKS

This well was drilled under license # 189

And this report is true and accurate.

Drilling firm: GROSCH IRRIGATION CO., INC.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:

RECEIVED
MAR - 3 2009
WATER RIGHTS
PROGRAM

2522-2

pdf



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 3, 2009

1253A-2
2522-2
2523-2

Daniel Vavra
HC 78 Box 28
Crookston NE 69212

Dear Mr. Vavra:

Thank you for contacting us concerning Water Right Nos. 1253A-2 & 2523-2 and Water Permit No. 2522-2. I have included copies for you in the event you need them.

Enclosed are partially completed Notice of Transfer of Ownership forms for filing ownership changes. Please review and complete as needed. Upon completion, please sign and return them to our office with a required filing fee of \$50.00 each (total of \$150.00). The check or money order for the fee can be made payable to the Water Rights Program.

If you have any questions, please contact me.

Sincerely,

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

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

enclosures

RECEIVED

AUG 10 2009

WATER RIGHTS
PROGRAM

NOTICE OF TRANSFER OF OWNERSHIP

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

No. 2522-2

Date: 8-6-09

I/We request that Water Permit No. 2522-2

formerly owned by: Daniel Vavra

be transferred to: (name & address) DANIEL VAURA - GERRY VAURA

As Joint Tenants

HC 78 Bx 28 CROOKSTON NE 69212 Telephone No. 605-747-2342

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

136 acres - NW ¼ Section 16, T37N, R29W

I/We understand that the validity of Water Permit No. 2522-2 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

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

A fee of Fifty Dollars (\$50.00) is required to cover the filing fees as required under SDCL 46-2-13. This form must be signed by the new owner.

Daniel Vavra

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

Daniel Vavra Gerry Vavra
(Signed by new owner)

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

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

RECEIVED

AUG 10 2009

WATER RIGHTS
PROGRAM

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

Date 8-6-09

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM: DANIEL SAVRA GERRY SAVRA AS JOINT TENANTS
(name)
HC 78 Bx 28
(address)
CROOKSTON NE 69212 605-747-2545
(city, state, zip) (phone)

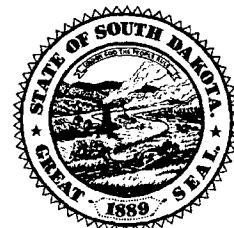
I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

Water Permit No. 2522-2 states that the water use system is to be constructed by
July 26, 2009 , and water is to be put to beneficial use by July 26, 2013
(date) (date)

The water use system was completed on 4-4-08
(date)

Applying the water to beneficial use was completed on 5-10-08
(date)

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



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 8/10, 2009

RECEIVED OF Gerry Vavra HC 78 Box 28 Crookston NE 69212

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	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form <u>2522-2</u>		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____	50	00
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50 00

No. 04195

By *Ladislav Erskine*
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 11, 2009

1253A-2
2522-2
2523-2

Daniel & Gerry Vavra
HC 78 Box 28
Crookston NE 69212

Dear Mr. & Mrs. Vavra:

I am writing to acknowledge receipt of the ownership changes you filed for Water Right Nos. 1253A-2 & 2523-2 and Water Permit No. 2522-2. The transfers have been completed. The permit and water rights listed in the name of Daniel Vavra are now listed as "Daniel Vavra and Gerry Vavra as Joint Tenants".

Enclosed are your Receipt Nos. 04194, 04195 and 04196 in the amounts of \$50.00 each. You may keep these for your records.

Also received from you was the "Notice of Completion of Works" form letting us know that you have completed the water use system described in Water Permit No. 2522-2. 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
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures

Approval of a Change of Diversion Points

NAME: Daniel Vavra

ADDRESS: 29287 269th Avenue, Crookston NE 69212-7006

DATE: September 24, 2009 **COUNTY:** Todd **TELEPHONE:**

BACKGROUND:

Water Permit No. 2522-2 appropriates 1.94 cubic feet of water per second from one well to be completed into the Ogallala Formation in the center of the NW ¼ Section 16 to irrigate 136 acres in the NW ¼ Section 16, T37N, R29W. This permit was approved July 26, 2004 with a date to complete construction of July 26, 2009 and place water to beneficial use of July 26, 2013. No petitions to intervene were filed in response to the public notice of the application in 2004.

The 2005 irrigation questionnaire reflects that the system is completed and irrigation took place. Then the 2006 irrigation questionnaire states that the well and system are not construction. Regardless, the 2007 questionnaire indicates that the system is in place and irrigation occurred.

Mr. Vavra called DENR requesting information on what is necessary to drill a helper well since the existing well produces only 0.89 cfs (400 gpm). It was determined that the original well authorized for the center of the NW ¼ of Section 16 was completed 140 feet north and 200 feet west of the center of Section 16, T37N, R29W. Mr. Vavra wants to drill an additional helper well approximately 900 feet north of the center of Section 16, T37N, R29W. Both wells will be in the SE ¼ NW ¼ of Section 16.

Mr. Vavra submitted a request to drill an additional well which was received on March 8, 2010. The request included a test log. This request is construed to be for authorization to drill an additional well and to change the location of the original well completed for the irrigation system.

AUTHORITY:

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

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

The water source authorized by Water Permit No. 2522-2 is the Ogallala Formation. The existing well and proposed additional well will all be completed into this source.

Irrigation works were in place and operational by the July 26, 2009 timeframe to complete construction. The permit also provides until July 26, 2013 for water to be put to beneficial use.

No additional appropriation of water is requested. The existing water right authorizes a total diversion of 1.94 cfs from the well. The current well supplies 0.89 cfs and this additional well is intended to increase the combined diversion rate to properly operate the pivot. No additional water will be appropriated by the change of the existing well location or additional well. The time to place water to beneficial use has not expired so the permit is not limited to 0.89 cfs production ability of the original well but may still be developed up to the 1.94 cfs authorized.

• **Review of Existing Diversions**

A review of domestic wells and existing water rights in the surrounding sections was conducted.

Based on the Water Rights Program's well log database, there are four domestic wells in the sections neighboring Section 16. The nearest domestic well is approximately ½ mile east of the well sites for Permit No. 2522-2. The other three wells are over a mile to the east and northeast.

A review of water rights in the area was also conducted. This is an area of extensive irrigation especially to the south and southeast. In close proximity to the Permit No. 2522-2, Mr Vavra holds permits to irrigate the quarter section to the south (SW ¼) and ½ mile to the east (S ½ NW ¼, N ½ SW ¼ Section 15). Harvey Gunnink holds water permits for irrigation of the quarter to the north (SW ¼ Section 9) and the adjacent quarter in the SE ¼ Section 16. In addition, from review of the aerial maps there are irrigation permits to the northwest of this permit that do not hold South Dakota water rights. It is assumed that these systems are held under tribal jurisdiction.

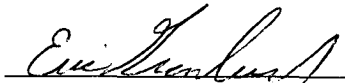
The Water Rights Program maintains two observation wells within two miles of Permit No. 2522-2. The observation wells show only slight fluctuation due to existing pumping and changes in climatic conditions. The report prepared by Ken Buhler on the original application concluded the drawdown from pumping individual wells is not expected to be significant. While the Gunnink water permits were issued after this Vavra permit, it is not anticipated that drawdown created by pumping will adversely impact existing wells. The proposed change in well location and additional well will maintain a distance of about 1,800 feet from the two wells in the S ½ Section 16.

CONCLUSION

- The change in the well location and additional well does not appropriate additional water.
- The well is completed into the Ogallala Formation.
- Interference is not expected to be a concern.
- Existing domestic wells will not be adversely impacted by authorizing this change in well location.

RECOMMENDED ACTION

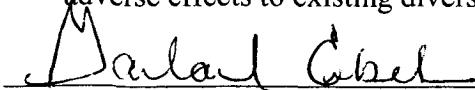
Based on the above criteria, it is recommended that the change of diversion point of well location and additional well be authorized under Water Permit No. 2522-2.



Eric Gronlund
Water Rights Program

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

This change of diversion point and additional diversion point does not increase the potential for adverse effects to existing diversions.



Garland Erbele, Chief Engineer
Water Rights Program

RECEIVED

MAR - 8 2010

WATER RIGHTS
PROGRAM

3-6-10

ERIC.

ENCLOSE MAP OF 16-37-29, WITH
WELL IN SE CORNER. - MAX pump
OF 400 BPM -

REQUEST AN ADDITIONAL HELPER
WELL 900 TO 1000 FT NORTH SEE MAP.
TEST LOG INCLUDED -

THANKS

Ron Vavra

- CHANGE OF ADDRESS - BUT STILL LIVING
SAME OLD PLACE

Mr. & Mrs. Daniel Vavra
29287 - 269th Ave.
Crookston, NE 69212-7006



Enter your contact information.

Grower: Dan Vavra

RECEIVED

MAR - 8 2010

WATER RIGHTS
PROGRAM





2522-2

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 29, 2010

Daniel Vavra
29287 269th Avenue
Crookston NE 69212-7006

Dear Mr. Vavra:

I am writing in regard to the request to change the location of the existing well authorized by Water Permit No. 2522-2 and construct an additional well to bring the capacity up to the permitted amount.

Water Permit No. 2522-2 appropriates 1.94 cubic feet of water per second from one well to be completed into the Ogallala Formation in the center of the NW ¼ Section 16 to irrigate 136 acres in the NW ¼ Section 16, T37N, R29W. The actual developed well is located approximately 250 feet northeast of the center of Section 16. The additional well is to be located approximately 900 feet north of the center of Section 16.

Upon review of the request and pursuant to SDCL 46-5-13.1, the change in the well location and additional well are authorized without application or publication of a notice of hearing pursuant to SDCL 46-2A-4. If the peak rate diverted from the new well exceeds the authorized amount of 1.94 cubic feet of water per second (870 gpm), a new water right permit will need to be obtained.

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

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program



2522-2

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

October 14, 2010

Daniel Vavra
29287 269th Avenue
Crookston NE 69212

Dear Mr. Vavra:

I am writing in regard to a request for an additional well for irrigation authorized by Water Permit No. 2522-2. This request was made by your son Mike during a licensing investigation of the irrigation system conducted by Eric Gronlund on September 21, 2010.

Water Permit No. 2522-2 appropriates 1.94 cubic feet of water per second (870 gpm) from one well completed into the Ogallala Formation located in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 16, T37N, R29W. The current well produces 0.89 cfs (400 gpm) and it is the intent to drill an additional well to increase the diversion rate nearer to the permitted amount.

Upon review of the request and pursuant to SDCL 46-5-13.1, an additional well to be completed into the Ogallala Aquifer is authorized without application or publication of a notice of hearing. The additional well is to be located in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 16, T37N, R29W.

No additional appropriation above the amounts authorized by Water Permit No. 2522-2 is authorized. If the diversion rate is increased above the authorized amount, a new water permit must be obtained. The time allowed by Permit No. 2522-2 to put water to full beneficial use is on or before July 26, 2013. After that time, the permit will be limited to the developed diversion capability.

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

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program

Request for Additional Diversion Point

NAME: Daniel Vavra**ADDRESS:** 29287 269th Avenue, Crookston NE 69212**DATE:** October 12, 2010 **COUNTY:** Todd**TELEPHONE:** 605 747-2545

Water Permit No. 2522-2 appropriates 1.94 cubic feet of water per second (870 gpm) from one well completed into the Ogallala Formation located in the SE ¼ NW ¼ Section 16, T37N, R29W. The current well produces 0.89 cfs (400 gpm) and it is the intent to drill an additional well to increase the diversion rate nearer to the permitted amount.

During a licensing investigation of the permit, Mike Vavra said the well capacity is 0.89 cfs (400 gpm) and that they intend to drill an additional well for the purpose of increase the diversion capacity. The current capacity of 400 gpm does not allow the system to operate efficiently and affects the type of crop they plant on this quarter section.

The time to complete construction of works was July 26, 2009 and the time to put water to beneficial use is on or before July 26, 2013. The 2005, 2007 and 2008 irrigation questionnaire submitted by Daniel Vavra indicates the diversion capability was 650 gpm. In 2009 the reported diversion rate decreased to 400 gpm.

When conducting the licensing investigation, I became aware of the Vavra's intent to drill an additional well. Mike Vavra filled out an application to request the additional diversion point. Mr. Vavra also showed me the approximate location of the proposed well and GPS coordinates were taken. The attached map shows the location of the irrigation system, existing well and proposed additional well.

AUTHORITY:

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

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

The water source remains the Ogallala Aquifer. No additional water is to be appropriated by this request. The well authorized by Water Permit No. 2522-2 appropriates 1.94 cfs. The diversion rate will not be exceeded.

- **Review of Existing Diversions**

The Water Rights Program's database of well completion reports was also reviewed for neighboring sections. Driller reports for domestic wells located in the neighboring sections is as follows:

Location ~ all in T37N, R29W	Drilled for	Depth (feet)	Use
SW ¼ SW ¼ Section 8	Colombe	320	Irrigation
SE ¼ SW ¼ Section 8	Colombe	300	Irrigation
SW ¼ SE ¼ Section 10	Epke	191	Domestic
NW ¼ SE ¼ Section 10	Gunnink Farms	195	Domestic
SE ¼ NE ¼ Section 15	Popkes	240	Irrigation
SE ¼ NW ¼ section 15	Vavra	240	Irrigation
SW ¼ Section 15	Quigley	264	Domestic
SE ¼ SE ¼ Section 15	Popkes	228	Domestic
SE ¼ SE ¼ Section 16	Gunnink	240	Irrigation
SE ¼ NW ¼ Section 20	BIA Rosebud Indian Health Service	243	Municipal
SW ¼ NE ¼ Section 21	Vavra	250	Irrigation
NW ¼ Section 22	Vavra	238	Irrigation

This is an area of considerable irrigation development. In addition to state issued irrigation water rights there is tribal land developed within their jurisdiction. The Ogallala Aquifer is under unconfined conditions and as shown by hydrographs of area observation wells drawdown from pumping wells is not significant very far from the well. Attached are hydrographs for TD-76A (½ mile northeast) and TD-76B (1 ½ miles south) of irrigation system.

CONCLUSION

- The additional well does not appropriate additional water.
- The additional well is to be completed into the Ogallala Aquifer.
- Interference is not expected to be a concern.
- Existing domestic wells will not be adversely impacted by authorizing this additional well.

RECOMMENDED ACTION

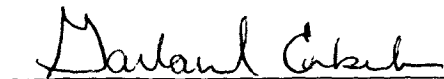
Based on the above criteria, it is recommended that the additional diversion point be authorized pursuant to SDCL 46-5-13.1.



Eric Gronlund, Natural Resources Engineer
Water Rights Program

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

This additional diversion point does not increase the potential for adverse effects to existing diversions.



Garland Erbele, Chief Engineer
Water Rights Program



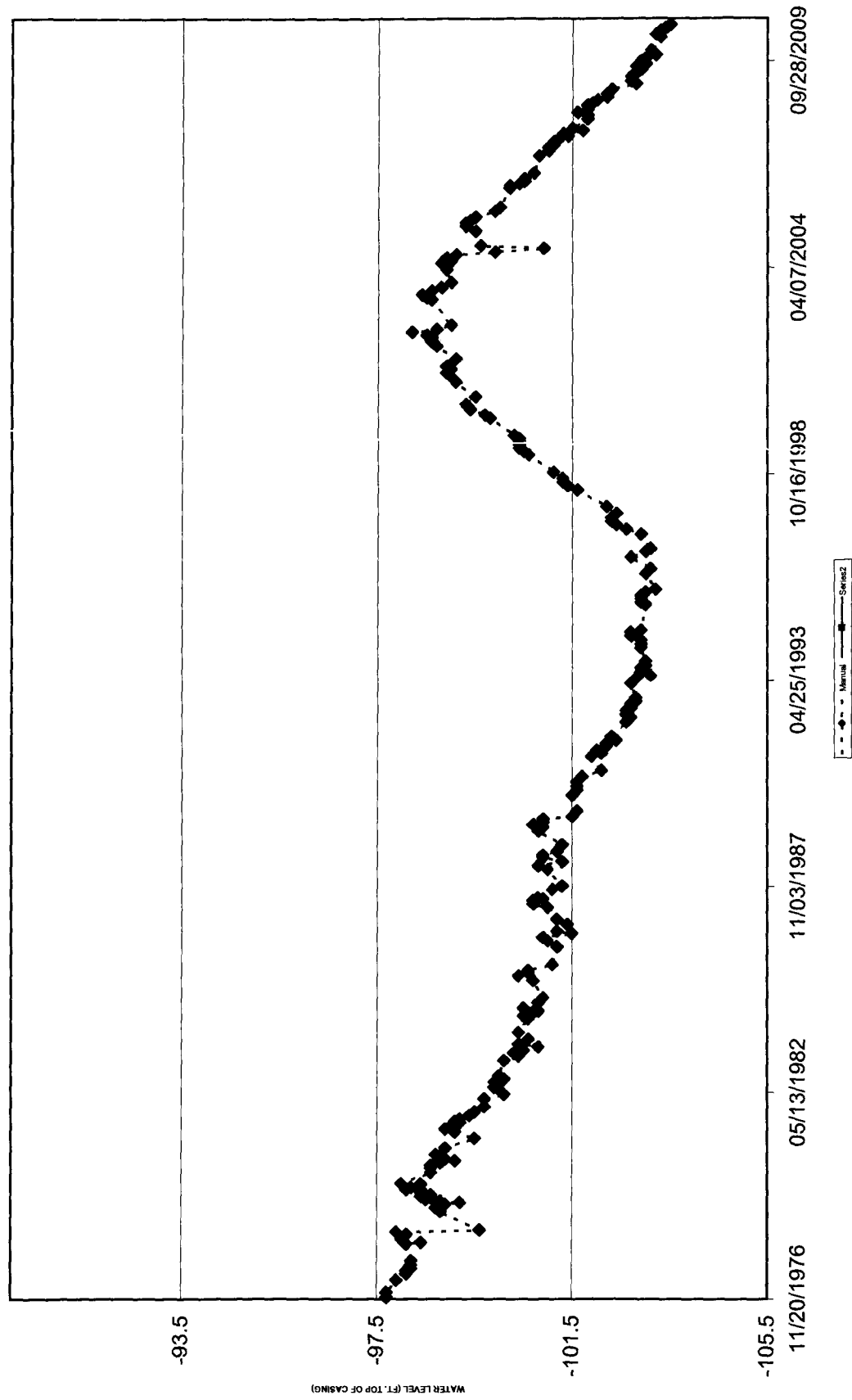
0 330 660 1,320 1,980 2,640
Feet

Irrigation System in NW 1/4 Section 16, T37N, R29W
well in the SE 1/4 NW 1/4 of Section 16

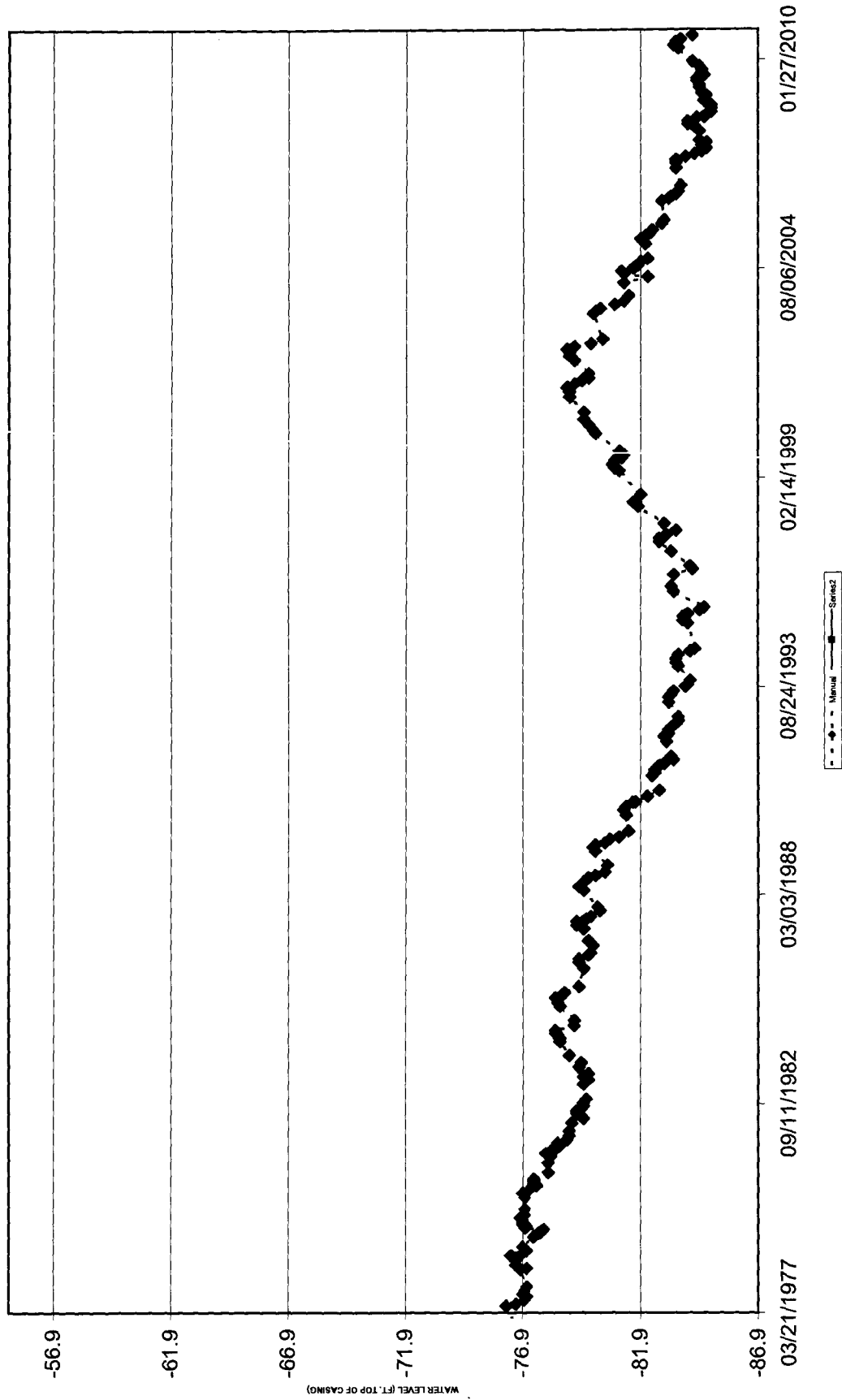


Eric Gronlund
Eric Gronlund
Water Rights Program, DENR
Date of Investigation - Sept. 21, 2010

WATER RIGHTS' OBSERVATION WELL
TD-76A



**WATER RIGHTS' OBSERVATION WELL
TD-76B**



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

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>2522-2</u> (office use only) Hydrologic Unit _____
	Basin _____
	Newspaper _____

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.)
additional well pursuant to SDCL 46-5-13.1 to WP 2522-2

- Name of Applicant Dan Vavra (check one) _____ Owner _____ Tenant/lessee _____ Phone 605 747-2545
Mailing Address 29287 269th Ave. State _____
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed no add'l *CFS or **GPM ***AF Total Acreage no add'l
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable
- Source of water supply helper well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
SE NW Sect. 16 T37N R29W County Todd
- County or counties where water will be used Todd
- Annual period during which water is to be used April 1 - October 31
- List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
<u>same as WP 2522-2</u>			

8. Give a description of the project. (Attach sheet if more space is needed)
Install a helper well to bring production up to permitted amount

STATE OF SOUTH DAKOTA) SS
County of _____

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

I, _____, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Miko Basso

Subscribed and sworn to before me this _____ day of _____ 20 _____

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SE $\frac{1}{4}$ NW Sec 16 Twp 37 Rg 29

County Todd

GP3 N 43 10 56.44
W-100 45 32.16

Please mark well location with an "X"

Well completion Date 4-20-11

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)
2600 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
<u>SDR 26</u> LB/FT	<u>16</u> IN	<u>0</u> FT	<u>170</u> FT	<u>27</u> IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:
 Grout Type Sand/Cement No. of Sacks 15 Grout Weight 15 Lb/gal From surface Ft To 160 Ft
Grout Slurry Lb/gal Ft Ft
 Describe grouting procedure Installed Grout Slurry with Grout Pump and Tremie Line

SCREEN: ☒ Perforated pipe ☐ Manufactured
 Diameter 16 Inches Length 80 Feet
 Material PVC
 Slot Size .050" Set From 170 Feet to 250 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? Chlorination After Test Pumping
☐ No, Why Not? _____
 Lab sample sent to for water quality analysis _____

Well Owner: Dan Vavra 2522-2
 Business Name: _____
 Address1: 29287 269th Avenue
 Address2: _____
 City, State, Zip: Crookston NE 69212-7006

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Topsoil</u>	<u>0</u>	<u>2</u>
<u>Sandstone</u>	<u>2</u>	<u>18</u>
<u>White / Grey Clay layers</u>	<u>18</u>	<u>40</u>
<u>Fine Sand</u>	<u>40</u>	<u>60</u>
<u>Brown Clay with a few Sand layers</u>	<u>60</u>	<u>108</u>
<u>Fine Sand / Sandstone layers</u>	<u>108</u>	<u>155</u>
<u>Brown Clay</u>	<u>155</u>	<u>160</u>
<u>Coarse Water Sand "Pepper"</u>	<u>160</u>	<u>250</u>
<u>Grey Clay / Red Rock</u>	<u>250</u>	<u>252</u>

STATIC WATER LEVEL 101 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: Test Pumped with Line shaft Turbine Pump and Power Unit for
☐ Bailed
☐ Other
 Pumping Level Below Land Surface 12 hrs
200 Ft. After 12 Hrs. pumped 625 GPM
 _____ Ft. After _____ Hrs. pumped _____ GPM
 If pump installed, pump rate: 500 GPM

REMARKS
well Specific Capacity of 6.3 GPM/Hr After 12 hrs of Pumping

This well was drilled under license # 377
 And this report is true and accurate.
 Drilling firm: Beck's Well and Irrigation Inc
 Signature of License Representative: [Signature]
 Signature of Well Owner or Equitable Property Holder: Dan Vavra
 Date: 4-9-2012

Please return White Copy to DENR Water Rights

523 E. Capitol Ave., Pierre SD 57501

RECEIVED

JAN 17 2012

WATER RIGHTS
PROGRAM

Report of Examination of Works and/or Application of Water to Beneficial Use

To: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, September 28, 2015 made a thorough examination of the water system used by Daniel Vavra, 29287 269th Ave., Crookston, NE 69212, holder of Water Permit No. 2522-2, bearing the priority date of March 30, 2004. Water Permit No. 2522-2 authorizes the diversion of 1.94 cubic feet per second (cfs) from one well completed into the Ogallala aquifer at approximately 260 feet below ground surface for the purposes of irrigating 136 acres in Todd County as follows: 34 acres in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 16, 34 acres in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 16, 34 acres in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 16, 34 acres in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 16, all in T37N-R29W.

I have the following conditions to report for the system in question:

- 1) Works used to divert water:
Two irrigation pumps, manufacturer unknown.
- 2) Works used to transport water to a place of use:
Underground pipes.
- 3) Works used to apply water to beneficial use:
One Reinke Pivot

The system is in the following condition: well maintained. The wells are in the following locations:

- 1) **2,300 feet south and 2,400 feet east of the northwest corner of Section 16, T37N-R29W.
Lat 43.18043N Lon 100.75957W. Original well.**
- 2) **1,900 feet south and 2,550 feet east of the northwest corner of Section 16, T37N-R29W.
Lat 43.18144N Lon 100.75905W. Helper well.**

The lands irrigated by the fore mentioned well are as follows:

- 1) **34 acres in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 16, T37N-R29W.**
- 2) **34 acres in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 16, T37N-R29W.**
- 3) **34 acres in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 16, T37N-R29W.**
- 4) **34 acres in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 16, T37N-R29W.**

For a total of 136 acres.

License should be issued for the diversion rate of: **1.94 cfs or 870 gpm.**

Applicable permit qualifications have been complied with: **Yes**

Exceptions to compliance are: **None**

Date Report Completed: **September 30, 2015**



Bracken Capen
Natural Resources Engineer
DENR, Water Rights Program

FIELD INVESTIGATION REPORT FOR WATER PERMIT NO. 2522-2

DATE OF INVESTIGATION:	September 28, 2015
NAME & ADDRESS OF PERMIT HOLDER	Daniel Vavra 29287 269 th Ave. Crookston, NE 69212
NAME & ADDRESS OF INVESTIGATION CONTACT/ RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE	Mike Vavra
DIVERSION POINT LEGAL LOCATIONS	1) 2,300 feet south and 2,400 feet east of the northwest corner of Section 16, T37N-R29W. Lat 43.18043N Lon 100.75957W. Original well. 2) 1,900 feet south and 2,550 feet east of the northwest corner of Section 16, T37N-R29W. Lat 43.18144N Lon 100.75905W. Helper well.

WELL INFORMATION:

- 1) Well Drilling Firm: **Grosch Irrigation Co. Inc. (Original Well). Beck's Well and Irrigation (Helper Well)**
- 2) Number of Wells: **2**
- 3) Depth: **230, 240 feet**
- 4) Well Log Available: **Yes, both**
- 5) Comment:

Pumps

- 1) Make: **Gold Series (x2)**
- 2) Model:
- 3) Size:
- 4) Capacity: **400 gpm, 650 gpm**

Casing

- 1) Diameter: **16 inches (x2)**
- 2) Length: **140, 170 feet**
- 3) Type: **Plastic**

Screen

- 1) Type: **Perforated Pipe**
- 2) Length: **90 feet, 80 feet**
- 3) Static Water Level: **96 feet, 101 feet**

Motor

- 1) Make: **US Electric (x2)**
- 2) Model No: **BF-54A, BF-59A**
- 3) Power: **50, 60 hp**

System Type

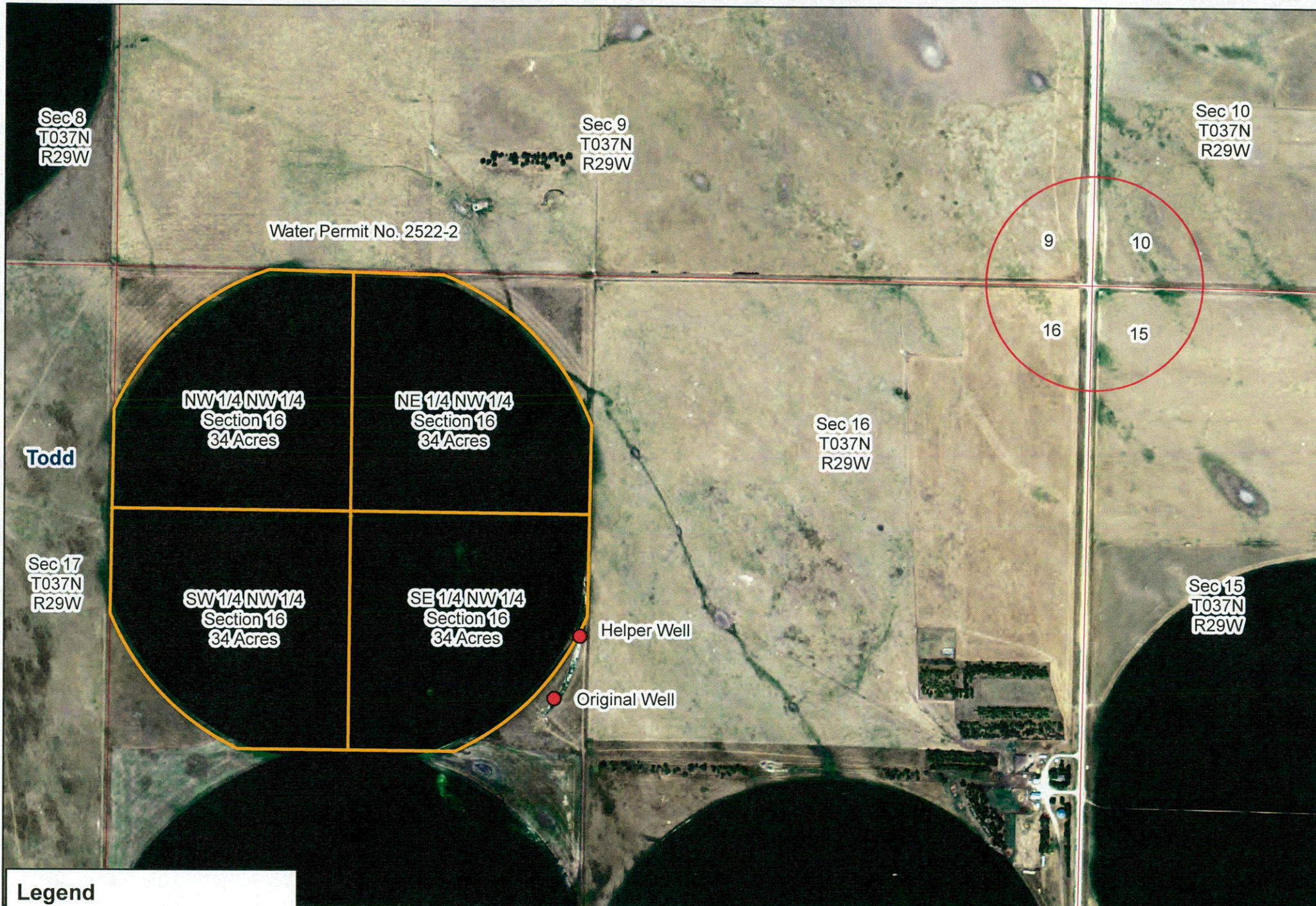
- 1) Make: **Reinke**
- 2) Overall length: **1,300 feet**
- 3) Number of Towers: **8 towers**
- 4) Distance Between Towers:
- 5) End Gun: **Yes**
- 6) Pressure:
- 7) Capacity: **900 gpm**

CHEMIGATION EQUIPMENT: Yes

- 1) Mainline Check Valve: **Yes**
- 2) Low Pressure Drain: **Yes**
- 3) Inspection Port/Air Relief: **Yes**
- 4) Discharge 20 Feet Away: **No**
- 5) Injection Line Check Valve or Positive Displacement Pump: **Injection Line Check Valve**
- 6) Injection Check Valve: **Yes**
- 7) Properly Installed: **Yes, except for the 20 foot discharge hose.**

PERMIT QUALIFICATIONS:

- 1) Special qualifications to permit being abided by: **N/A**
- 2) All structures, wells, and lands on map: **Yes**
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by end of construction period: **Consistent irrigation since 2007.**



Legend

- Irrigated_Acres
- Section Boundaries - PLSS
- Well Locations



0 0.05 0.1 0.2 Miles

Prepared by Bracken Capen
Natural Resources Engineer
DENR, Water Rights Program





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

OCT 19 2015

2522-2

Daniel & Gerry Vavra
29287 269th Ave
Crookston NE 69212

Dear Mr. & Mrs. Vavra:

Enclosed is your Water License No. 2522-2. This is the final water right document completing your process of obtaining a water right. Included with the 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 your water right, 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.

In regard to the equipment used for applying chemicals and/or fertilizer through your irrigation system, the staff engineer found the system did not have a hose to allow for discharge at least 20 feet from the water source. Prior to applying chemicals or fertilizer through the systems, you must ensure a hose is properly installed.

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. 2522-2**

(1) Daniel Vavra, 29287 269th Ave., Crookston NE 69212 made Application No. 2522-2, March 30, 2004 for a water permit to divert 1.94 cubic feet of water per second from ground water (one well, Ogallala Aquifer), Todd County, South Dakota for irrigation purposes. Permit No. 2522-2, with a priority date of March 30, 2004 was approved July 26, 2004 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 26, 2009 and for the application to beneficial use of said water on or before July 26, 2013.

On August 10, 2009, Water Permit No. 2522-2 was transferred to Daniel Vavra and Gerry Vavra as Joint Tenants.

The water permit holder requested permission to drill an additional well to operate up to the permitted diversion rate. On March 29, 2010, the Chief Engineer made a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that the additional diversion point did not increase the potential for adverse effects to existing diversions.

(2) It is certified that the permit holders have complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and are entitled to divert 1.94 cubic feet of water per second for beneficial use. The location of the diversion points are:

Original well: 2,300 feet S & 2,400 feet E of the NW corner of Section 16, T37N, R29W (SE $\frac{1}{4}$ NW $\frac{1}{4}$)

Helper well: 1,900 feet S & 2,550 feet E of the NW corner of Section 16, T37N, R29W (SE $\frac{1}{4}$ NW $\frac{1}{4}$)

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

Section 16, T37N, R29W	NW $\frac{1}{4}$ NW $\frac{1}{4}$	34 acres
	NE $\frac{1}{4}$ NW $\frac{1}{4}$	34 acres
	SE $\frac{1}{4}$ NW $\frac{1}{4}$	34 acres
	SW $\frac{1}{4}$ NW $\frac{1}{4}$	34 acres
Total		136 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Daniel Vavra and Gerry Vavra, as Joint Tenants, 29287 269th Ave., Crookston NE 69212 the holders and/or owners of Water Right No. 2522-2 are issued a license to appropriate water, the right to use 1.94 cubic feet of water per second from ground water (two wells – Ogallala Aquifer) with a priority date of March 30, 2004 from the locations 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. 2522-2 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

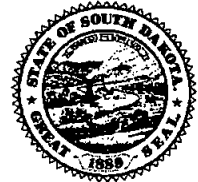
- The wells authorized by Permit No. 2522-2 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. *The original well was drilled in April, 2008 by Grosch Irrigation Co., Inc. The helper well was drilled in April, 2011 by Beck's Well and Irrigation Inc. Copies of both logs are 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

OCT 19 2015

date





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

November 2, 2015

1253A-2
2522-2
2523-2

Daniel & Gerry Vavra
135 N Shore St
Valentine NE 69201 1758

Dear Mr. & Mrs. Vavra:

Enclosed is a "Notice" dated October 23, 2015 concerning the 2015 irrigation questionnaires.

The notice was originally mailed to 29287 269th Ave, Crookston NE. The post office notified us that your address has changed and I will update our records accordingly.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Genny McMath".

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

enclosures