

WATER PERMIT NO. 7457-3

Name of Applicant: Larry Schmidt

Address: 44819 277th St, Parker SD 57053

Phone: 605 648-3966

Amount of Water Claimed: 2.22 cfs

Total Acres: 207

Source of Water Supply: groundwater (2 wells)

Water to be used for: irrigation

County: Turner

Type of Waste Disposal System:

Location: 1 mile west of Parker

PRIORITY

Date Received: 10-9-2012

Application/License Fee: \$ 1150

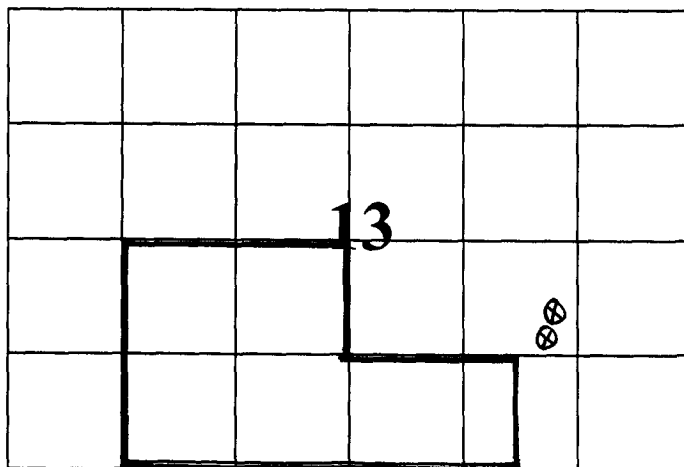
Corrected Application Received:

Period of Annual Use: May 1 – September 30

Remarks:

Diversion Point: NE 1/4 SE 1/4 Sec 13-T99N-
R54W

Land to be Irrigated: SW 1/4, S 1/2 SE 1/4 Sec 13-
T99N-R54W



Depth of Well: 35 feet deep

Well Driller: Hammond-Wetmore Drilling

Remarks:

Type of Map: aerial

Prepared by: Rodney Strand, Turner Co FSA

Reviewed and the Number Assigned on: 10-9-12

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

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

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	(office use only)	
	No. <u>7457-3</u>	Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>	<u>605-297-4419</u>
	Newspaper <u>New Era P.O. Box 577 Parker 57053</u>	
	<u>Argus Leader P.O. Box 5034 Falls 57117 605-331-2200</u>	

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OCT - 9 2012
WATER RIGHTS
PROGRAM

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 Larry Schmidt Phone (605) 648-3966

(check one) ☒ Owner ☐ Tenant/lessee

Mailing Address 44819 277th Street Parker SD 57053
(Address) (City) (State) (Zip Code)

2. Amount of water claimed 2.23*CFS or 1000**GPM ***AF Total Acreage 207
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply West Vermillion aquifer

4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Turner
2 wells in NE1/4SE1/4 section 13-T99N-R54W

5. County or counties where water will be used Turner

6. Annual period during which water is to be used May 1 - September 30

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
NE1/4SW1/4- section 13-T99N-R54W	38.75		
NW1/4SW1/4section 13-T99N-R54W	38.75	SE1/4SE1/4 section 13-T99N-R54W	17
SE1/4SW1/4-section 13-T99N-R54W	38.75	SW1/4SE1/4 section 13 T99N R54W	35
SW1/4SW1/4-section 13-T99N-R54W	38.75		

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

Water will be piped from two wells in the NE1/4SE1/4 section 13 to the SW1/4 section 13 T99N-R54W to a seven tower pivot to make a full circle and also alternating with a five tower pivot on SE1/4SE1/4 and the SW1/4SE1/4 with a windshield wiper pattern

STATE OF SOUTH DAKOTA)
County of Turner) SS

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

I, Larry Schmidt, 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

Subscribed and sworn to before me this 1st day of October 2012

[Signature]
Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 7457-3**

Date of first receipt of application October 9, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7457-3 to Larry Schmidt, 44819 277th St, Parker SD 57053 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. 7457-3 appropriates 2.22 cubic feet of water per second from two wells to be completed into the Vermillion: West Fork Aquifer (35 feet deep) located in NE 1/4 SE 1/4 Section 13 for irrigation of 207 acres located in the SW 1/4, S 1/2 SE 1/4 Section 13; all in T99N-R54W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – September 30.
3. The date from which applicant may claim right is October 9, 2012.
4. The date of approval of Permit No. 7457-3 is December 31, 2012.
5. One-fifth of the construction is to be completed on or before June 30, 2015.
6. All construction is to be completed on or before December 31, 2017.
7. Water is to be put to beneficial use on or before December 31, 2021.
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 wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 7457-3 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.

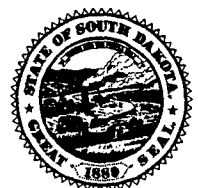
WATER MANAGEMENT BOARD

By: Garland Erbele

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

FEB 08 2013

date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 24" Depth 35'
- b) Casing Type PVC Diameter 16" Thickness 3/4"
- c) Screen Type PVC Diameter 16" Thickness 3/4"
- d) Gravel Pack 1/8 to 3/8 pea gr Length of Gravel Pack 20'
- e) Depth to Top of Water Bearing Material 15'
- f) Depth to Water (ground surface to water level) 12'
- g) Distance to nearest existing domestic well:
- On applicant's property _____ On property owned by others 700'(not used rural water)

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

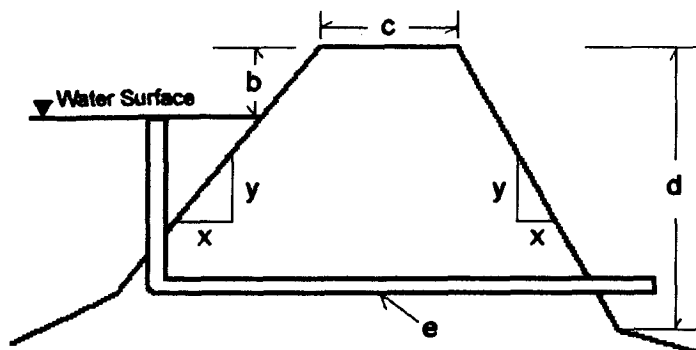
3. Dugout Information

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

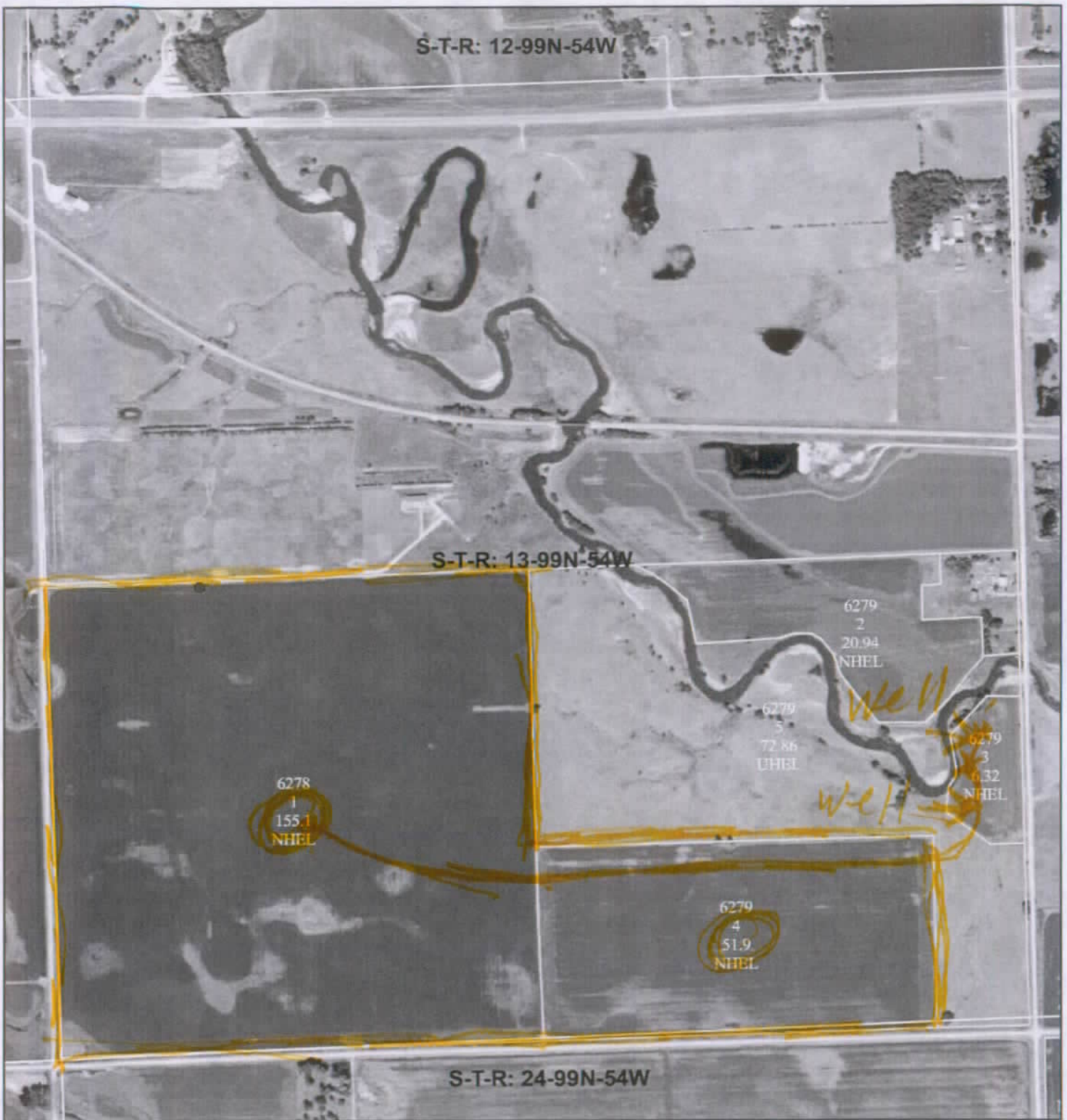
4. Water Storage Dams

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



United States Department of Agriculture
Farm Service Agency

PLSS: 13_99N_54W
Farm: 7132

Turner County, SD

1:8,792

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OCT - 9 2012

WATER RIGHTS
PROGRAM



March 21, 2012

Wetland Determination Identifiers

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

Common Land Units

Non Cropland

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

Boony D. Dwyer
Turner County FSA

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 10/10, 20 12

RECEIVED OF Larry Schmidt 44819 277th St Parker SD 57053

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

Fee for Application for Permit No. <u>7457-3</u> to Appropriate Water, to construct and to put water to beneficial use	950	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>7457-3</u>	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	1150 00

No. **05612**

By Lalal Erbe
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. 7457-3, Larry Schmidt**

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. 7457-3, Larry Schmidt, 44819 277th Street, Parker SD 57053.

The Chief Engineer is recommending APPROVAL of Application No. 7457-3 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 wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 7457-3 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
December 11, 2012

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 7457-3
LARRY SCHMIDT
DECEMBER 10, 2012

Water Permit Application No. 7457-3 proposes to appropriate 414 acre-feet (ac-ft) of water annually at a maximum diversion rate of 2.22 cubic feet per second (cfs) from two wells to be completed into the Vermillion West Fork aquifer. The wells are expected to be 35 feet deep and are to be located in NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 13-T99N-R54W. This permit application proposes to irrigate 207 acres in the SW $\frac{1}{4}$, and S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 13-T99N-R54W in Turner County.

AQUIFER: Vermillion West Fork (VWF)

GEOLOGIY AND AQUIFER CHARACTERISTICS:

The Vermillion West Fork aquifer is composed of fine sand to coarse-pebble gravel (Lindgren and Hansen, 1990). The aquifer underlies the flood plain of the West Fork Vermillion River and is generally under water table conditions (Lindgren and Hansen, 1990). The West Fork Vermillion aquifer encompasses approximately 18 square miles (11,520 acres) of northern Turner County and contains an estimated 51,000 ac-ft of water (Lindgren and Hansen, 1990). The aquifer has an average thickness of 22 feet and the top of the aquifer is generally within 50 feet of ground surface (Lindgren and Hansen, 1990). The Vermillion West Fork is hydraulically connected to the Parker-Centerville aquifer. The test hole log submitted with this application indicates silt from ground surface to five feet below ground surface, gravel from five feet to 28 feet below ground surface and clay from 28 to 31 feet below ground surface. The static water level in the test hole was eight feet below ground surface.

SDCL 46-2A-9:

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is reasonable probability that there is unappropriated water available for the applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water from the aquifer and the potential for impairment of existing rights.

WATER AVAILABILITY:

Water Permit Application No. 7457-3 proposes to appropriate 414 ac-ft. of water annually from the Vermillion West Fork aquifer. Although, actual water use will probably be less than 414 ac-ft/yr. The probability of unappropriated water being available from an aquifer can be evaluated by considering SDCL 46-6-3.1, which requires "No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable 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 Vermillion West Fork aquifer in Turner County is by direct infiltration of precipitation where the aquifer is near ground surface, and subsurface inflow from McCook County (approximately 100 ac-ft/yr) (Lindgren and Hansen, 1990). Hedges and others (1985) calculated a range of recharge rates for non-buried, unconfined aquifers, including the Vermillion West Fork, to be from 2.0 to 5.6 inches per year. However, there was not enough data available for Hedges and others (1985) to calculate a specific value for the Vermillion West Fork aquifer. Therefore, it is reasonable to state that the recharge to the Vermillion West Fork aquifer could range from 1,920 to 5,376 ac-ft annually.

Discharge:

Discharge from the Vermillion West Fork aquifer is: (1) to the Parker-Centerville aquifer, (2) to the West Fork Vermillion River, (3) by evapotranspiration where the aquifer is at or near land surface, and (4) by well withdrawals. There are 14 appropriative rights, one future use permit appropriating water and several domestic users withdrawing water from the Vermillion West Fork aquifer (Water Rights, 2012b and 2012c). The estimated average annual withdrawal from the aquifer by the non-irrigation appropriations, Water Right No. 4797-3 and Future Use Permit No. 4798-3 City of Parker, is 1,035 ac-ft. 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 (695 ac-ft/yr), and 3) future use permits can be fully developed (340 ac-ft/yr). Historic water use by irrigation from the Vermillion West Fork aquifer is summarized in table 1.

	No. of Permits Reporting	Appropriation (ac-ft/yr)	Reported Pumpage (ac-ft/yr)
Min	2	417	12.4
Max	10	2489	825
Avg	5.4	1107.4	278.4

Table 1- Historic water use by irrigation summary from the Vermillion West Fork aquifer (Water Rights, 1979-2012).

Estimated average annual use from the Vermillion West Fork aquifer by appropriative rights is 1,313.4 ac-ft. However, the general trend is an increase in pumpage and appropriation of water. The estimated average annual withdrawal is less than the range of recharge to the aquifer calculated by Hedges and others (1985). Even using the maximum annual irrigation withdrawal, the annual use from the aquifer is less than the estimated annual recharge. Therefore there is a reasonable probability that there is unappropriated water available from Vermillion West Fork aquifer for this proposed appropriation of 414 ac-ft/yr.

Observation Well Data:

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

The DENR-Water Rights Program monitors one observation well completed into the Vermillion West Fork aquifer. Observation well TU-80CR is approximately three miles east-northeast of the proposed well locations. The water levels rise (recharge) during wet years and gradually decline during dry years. The water level of the observation well has increased over the period of record, as shown by the trendline. Therefore, natural recharge to and discharge from the Lower James Missouri aquifer masks the temporal effects of pumping and there is a reasonable probability that unappropriated water is available for this proposed appropriation. Figure 1 is the hydrograph for observation well TU-80CR.

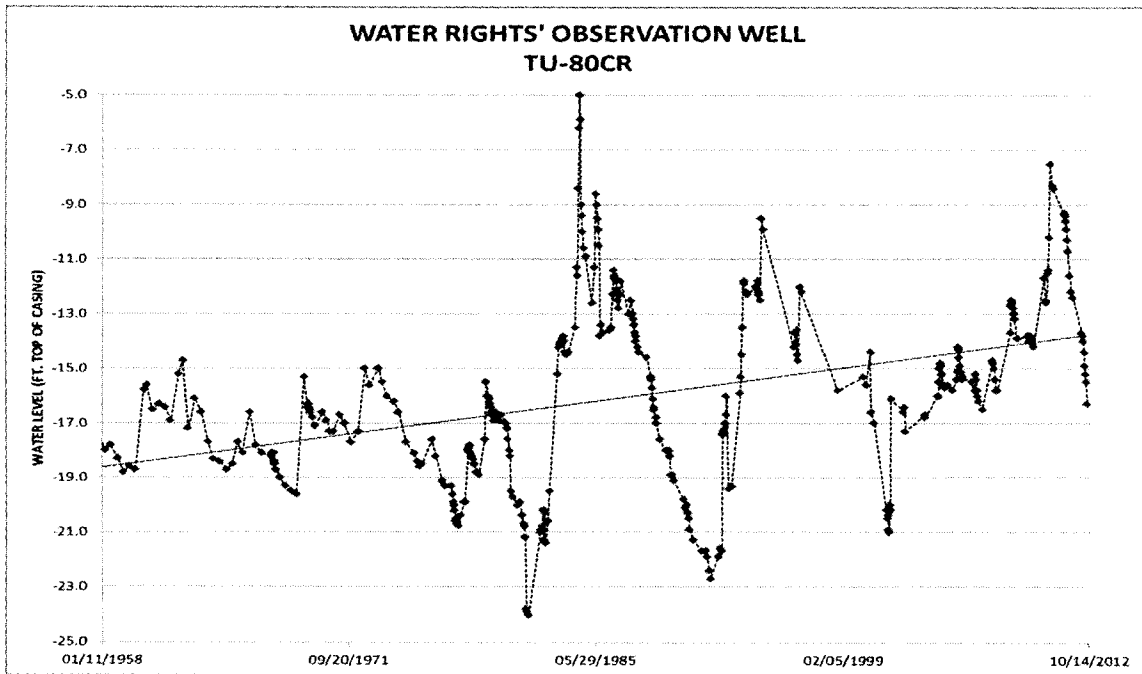


Figure 1- Hydrograph of observation well TU-80CR with linear trendline (Water Rights, 2012a).

EXISTING WATER RIGHTS:

There are two wells authorized by an appropriative right, Water Right No. 3550-3, and one domestic well on file with the DENR-Water Rights Program within one mile of the proposed well locations. Observation well TU-80CR is within one mile of five wells authorized by appropriative rights and four domestic wells completed into the Vermillion West Fork aquifer. The hydrograph for observation well TU-80CR shows that for most of the period of record drawdown caused by pumping was not significant. Therefore, drawdown from this proposed appropriation, if approved, should not create an adverse impact on existing appropriative or domestic users.

CONCLUSIONS:

1. Water Permit Application No. 7457-3 proposes to appropriate 414 ac-ft annually at a maximum diversion rate of 2.22 cfs from the Vermillion West Fork aquifer for the irrigation of 207 acres in Section 13-T99N-R54W in Turner County.

2. There is a reasonable probability that unappropriated water is available from the Vermillion West Fork aquifer to supply this proposed diversion.
3. There is a reasonable probability that the diversion rate requested by this application can be made without adversely impacting existing water rights/permits or domestic users.



Adam Mathiowetz
Natural Resources Engineer

REFERENCES:

- Hedges, L.S. J. Allen, and D.E. Holly. 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 7: Ground Water Recharge. South Dakota DENR-Geological Survey, Vermillion, SD.
- Lindgren, R.J. and D.S. Hansen. 1990. Water Resources of Hutchinson and Turner Counties, South Dakota. Water-Resources Investigations Report 90-4093. U.S. Geological Survey, Huron, South Dakota.
- Water Rights. 1979-2012. "1979-2011 Irrigation Summaries by Aquifer and County": SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, SD.
- Water Rights. 2012a. Observation Well Files. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, SD.
- Water Rights. 2012b. Water Right/Permit Files. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, SD.
- Water Rights. 2012c. Well Completion Reports. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, SD.

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JAN 30 2013

WATER RIGHTS
PROGRAM

Affidavit of Publication

STATE OF SOUTH DAKOTA
COUNTY OF TURNER

I, Robin Schneider of the City of Parker, County of Turner, State of South Dakota being first duly sworn on oath, deposes and says: The New Era is a weekly legal newspaper of general circulation, printed and published in the City of Parker, in said County of Turner, by The New Era, New Century Press, publishers, and has been such legal newspaper during the times hereinafter mentioned; that the said newspaper has been in existence as such legal newspaper for more than one year prior to the publication of the notice hereunto attached, and has during all of said publication of the notice hereunto attached, and has during all of said time had, and now has, more than 200 bona fide subscribers; that the undersigned, The affiant, is the Office Manager of the said newspaper, in charge of the advertisement department thereof and has personal knowledge of all the facts stated in this affidavit and the advertisement headed:

#5514 Notice of Application No. 7457-3 to Appropriate Water

_____ printed copy of hereto attached, is printed and published in the said newspaper for one successive weeks, one each week and on the same day of the week, on the following dates, to wit:

On Thursday, the 20th day of Dec. , 2012

That \$23.17 being the full amount of the fees for publication of the attached notices insures solely for the benefits of the publishers of the said newspaper, that no arrangement or understanding for a division thereof has been made with any other person and that no part thereof has been agreed to be paid to any other person whomsoever.

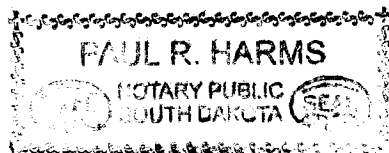
See attached

Robin Schneider
Subscribed and sworn to before me this 17th

Day of January 2013
Paul R Harms
Notary Public, Turner County, South Dakota

My Commission Expires: March 20, 2018

Publication Fee \$
Notary Fees \$
Total \$23.17



**NOTICE OF APPLICATION NO.
7457-3 to**

Appropriate Water

Notice is given that Larry Schmidt, 44819 277th St, Parker SD 57053 has filed an application for a water permit to appropriate 2.22 cubic feet of water per second from two wells to be complet-

ed into the Vermillion:West Fork Aquifer (35 feet deep) located in NE 1/4 SE 1/4 Section 13 for irrigation of 207 acres located in the SW 1/4, S 1/2 SE 1/4 Section 13; all in T99N-R54W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7457-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by Dec. 31, 2012.

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

Published once at the total approximate cost of \$23.17.
(#5514, 12/20/12, The New Era)

CUSTOMER NUMBER:	078200	Argus Leader	
AD ORDER NUMBER:	1402759		
	12/20, 2012	P.O. Box 677349, Dallas, TX 75267-7349	\$62.37

RECEIVED
DEC 26 2012
WATER RIGHTS
PROGRAM

Larry Schmidt
44819 277th St
Parker, SD 57053

DETACH THIS STUB AND RETURN WITH PAYMENT

PAYMENT DUE UPON RECEIPT

AFFIDAVIT OF PUBLICATION-

Customer Number: 078200
Invoice Number: 1402759

Argus Leader
AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA

COUNTY OF MINNEHAHA } ss

Linda Schulte being duly sworn, says: That The Argus Leader is, and during all the times hereinafter mentioned was, a daily legal newspaper as defined by SDCL 17-2-21, as amended published at Sioux Falls, Minnehaha County, South Dakota; 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 or advertisement, a printed copy of which is hereto attached, was published in said newspaper upon

Thursday the 20 day of December 2012 ,
the day of 2012 ,
the day of 2012 ,
the day of 2012 ,
the day of 2012 ,
the day of 2012 ,
the day of 2012 ,
the day of 2012 ,

and that \$62.37 was charged for publishing the same

Subscribed and sworn to before me 12/20/2012

Judy L. Kranzer
Notary Public, South Dakota

My Commission expires December 23, 2015

NOTICE OF APPLICATION
NO. 7457-3 to Appropriate
Water

Notice is given that Larry Schmidt, 44819 277th St, Parker SD 57053 has filed an application for a water permit to

appropriate 2.22 cubic feet of water per second from two wells to be completed into the Vermillion West Fork Aquifer (35 feet deep) located in NE 1/4 SE 1/4 Section 13 for irrigation of 207 acres located in the SW 1/4, S 1/2 SE 1/4 Section 13; all in T99N-R54W. Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7457-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will

consider this application. No notice of the hearing will be given to the applicant and any person filing a petition. Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by December 31, 2012. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal

counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the total approximate cost of \$62.37.
1402759 Dec. 20, 2012

Instruction to Newspaper - Publish the Notice on December 20, 2012. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 7457-3 to Appropriate Water

Notice is given that Larry Schmidt, 44819 277th St, Parker SD 57053 has filed an application for a water permit to appropriate 2.22 cubic feet of water per second from two wells to be completed into the Vermillion:West Fork Aquifer (35 feet deep) located in NE 1/4 SE 1/4 Section 13 for irrigation of 207 acres located in the SW 1/4, S 1/2 SE 1/4 Section 13; all in T99N-R54W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7457-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by December 31, 2012.

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

Published once at the 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

December 11, 2012

The New Era
PO Box 579
Parker SD 57053

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7457-3 to Appropriate Water. Please publish the notice once on December 20, 2012. 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 Larry Schmidt, 44819 277th St., Parker SD 57053 (Ph # 605-648-3966).

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

December 11, 2012

Argus Leader
PO Box 5034
Sioux Falls SD 57117

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7457-3 to Appropriate Water. Please publish the notice once on December 20, 2012. 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 Larry Schmidt, 44819 277th St., Parker SD 57053 (Ph # 605-648-3966).

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

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

December 11, 2012

Larry Schmidt
44819 277th St
Parker SD 57053

Dear Mr. Schmidt:

Water Permit Application No. 7457-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the New Era printed at Parker SD (Ph # 605-297-4419) and the Argus Leader printed at Sioux Falls SD (Ph # 605-331-2200). You will need to contact the newspaper(s) and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper(s) to authorize publication of your Notice and to arrange for payment. Early contact with the paper(s) can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

FEB 08 2013

Larry Schmidt
44819 277th St
Parker SD 57053

Dear Mr. Schmidt:

Enclosed is Water Permit No. 7457-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

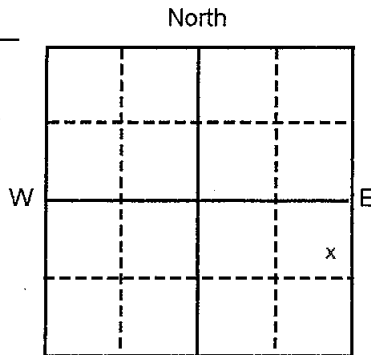
7457-3 SD EForm - 1621LD V1

11-02

Location ne 1/4 se 1/4 Sec 13 Twp 99n Rg 54w

County turner

Please mark well location with an "X"



Well Completion Date

11/15/12

← 1 Mile →

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
1,500.0 ft. from septic tank (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

bucket

CASING DATA:

If other describe ☐ Steel ☒ Plastic ☐ Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	<u>16.00</u> IN	<u>0.0</u> FT	<u>12.0</u> FT	<u>24.00</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>bent grt</u>	<u>6</u>	<u>9.5</u> Lb/gal	<u>0.0</u> Ft	<u>9.0</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
tremie

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 16.00 Inches Length 11.0 Feet
 Material pvc
 Slot Size .060 Set From 12.0 Feet to 23.0 Feet
 Other information

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?
☐ No, Why Not?

Lab to which water quality sample sent for analysis

Well Owner: Larry Schmidt

Business Name:

Address: 44819 277th Street

City, State, Zip: Parker SD 57053

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Silt, brown, sandy	0	9
gravel, coarse, sandy	9	21
clay, gray, silty, pebbly till	21	23

STATIC WATER LEVEL 11.0 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: 2 hours of air lift development,
☐ Bailed
☐ Other

Pumping Level Below Land Surface

17.0 Ft. After 2.0 Hrs. pumped 95.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

FEB - 1 2013

WATER RIGHTS PROGRAM

This well was drilled under license # 666 and this report is true and accurate.

Drilling firm: Hammond-Wetmore Drilling

Signature of License Representative:

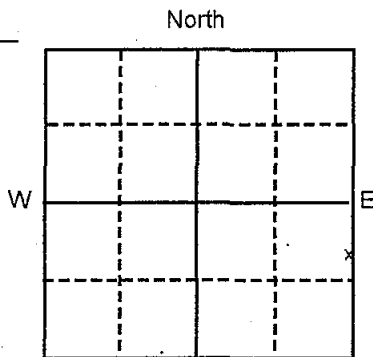
[Signature]

Signature of Well Owner or Equitable Property Holder:

Date: 12-29-12

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location ne 1/4 se 1/4 Sec 13 Twp 99n Rg 54wCounty turnerPlease mark well
location with an "X"

Well Completion Date

11/2/12

1 Mile

 Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
1,500.0 ft. from septic tank (identify source)

PROPOSED USE:

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

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>12.0</u> FT	<u>24.00</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>bent grt</u>	<u>6</u>	<u>9.5</u> Lb/gal	<u>0.0</u> Ft	<u>10.0</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
tremie

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 Inches Length 9.0 FeetMaterial pvcSlot Size .060 Set From 12.0 Feet to 21.0 Feet

Other information

WAS A PACKER OR SEAL USED? ☐ Yes ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?☐ No, Why Not?Lab to which water
quality sample sent for analysisWell Owner: Larry Schmidt

Business Name:

Address: 44819 277th StreetCity, State, Zip: Parker SD 57053

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Silt, brown, sandy	0	6
gravel, coarse, sandy	6	21
clay, gray, silty, pebbly till	21	23

STATIC WATER LEVEL 11.0 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: 3 hours of surge block development,☐ Bailed☐ Other

Pumping Level Below Land Surface

17.0 Ft. After 2.0 Hrs. pumped 250.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: RECEIVED GPM

REMARKS

FEB - 1 2013

WATER RIGHTS
PROGRAMThis well was drilled under license # 666 and this
report is true and accurate.Drilling firm: Hammond-Wetmore Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 12-29-12

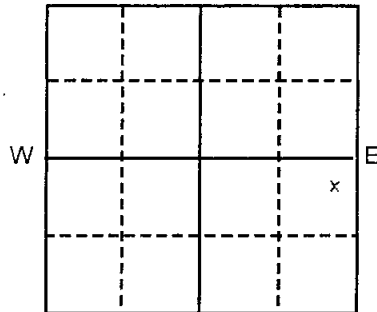
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location ne ¼ se ¼ Sec 13 Twp 99n Rg 54w

County turner

North

Please mark well
location with an "X"

Well Completion Date

1/11/13

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
1,500.0 ft. from septic tank (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

bucket

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	16.00 IN	0.0 FT	13.0 FT	24.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
bent grt	7	9.5 Lb/gal	0.0 Ft	10.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
tremie

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 16.00 Inches Length 6.0 Feet

Material pvc

Slot Size .060 Set From 13.0 Feet to 19.0 Feet

Other information

WAS A PACKER OR SEAL USED? ☐ Yes ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?☐ No, Why Not?Lab to which water
quality sample sent for analysis

Well Owner: Larry Schmidt

Business Name:

Address: 44819 277th Street

City, State, Zip: Parker SD 57053

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Silt, brown, sandy	0	4
sand, brown, fine	4	12
gravel, coarse, sandy	12	19

STATIC WATER LEVEL 10.0 FEET

If flowing: closed in pressure PSI

GPM flow through Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: 2 hours of air lift development,☐ Bailed☐ Other

Pumping Level Below Land Surface

17.0 Ft. After 2.0 Hrs. pumped 85.0 GPM

Ft. After Hrs. pumped GPM

If pump installed, pump rate: GPM

REMARKS

RECEIVED

FEB - 1 2013

WATER RIGHTS
PROGRAMThis well was drilled under license # 666 and this
report is true and accurate.

Drilling firm: Hammond-Wetmore Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 1-13-13

7457-3

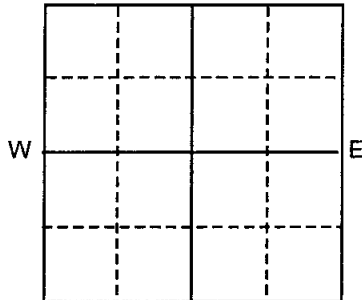
SD EForm - 1621LD V1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 SE 1/4 Sec 13 Twp 99N Rg 54WCounty TURNER

North

Please mark well
location with an "X"

Well Completion Date

July 10, 2013

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

PROPOSED USE:

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

METHOD OF DRILLING:

mud rotary

CASING DATA:

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	12.00 IN	2.0 FT	19.0 FT	17.50 IN
LB/FT	IN	FT	FT	IN
fail LB/FT	12.00 IN	24.0 FT	34.0 FT	17.50 IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Quick Grout	4	Lb/gal	0.0 Ft	10.0 Ft
Red Flint		Lb/gal	10.0 Ft	34.0 Ft

Describe grouting procedure
Tremmy

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 12.00 Inches Length 5.0 Feet

Material stainless steel

Slot Size 120 Set From 19.0 Feet to 24.0 Feet

Other information _____

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

If so, what material? _____

Describe packer(s) and location _____

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How? _____
☒ No, Why Not? irrigation well
 Lab to which water quality sample sent for analysis _____
Well Owner: Larry Schmidt

Business Name: _____

Address: 44819 277 STCity, State, Zip: Parker SD 57053

WELL LOG:

		DEPTH	
FORMATION		FROM	TO
top soil	black	0	1
clay	gray	1	10
sand/gravel	coarse	10	24
clay	blue	24	34

STATIC WATER LEVEL 11'6" 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: submersible☐ Bailed☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

43 23 32.8N
97 09 41.6W

Kris Van Heuveln

RECEIVED

SEP 12 2013

WATER RIGHTS
PROGRAMThis well was drilled under license # 463 and this report is true and accurate.Drilling firm: Steffl Drilling & Pump Inc

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

7457-3

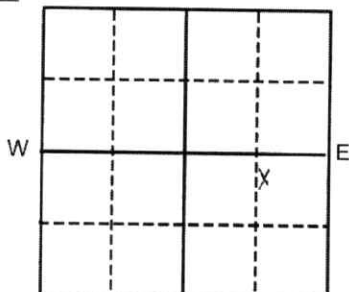
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 SE 1/4 Sec 13 Twp 99N Rg 54WCounty Turner

North

Please mark well location with an "X"



Well Completion Date

2/23/22

1 Mile

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

700 ft. from SEPTIC SYSTEM (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

BUCKET

CASING DATA:

☐ Steel ☒ Plastic ☐ Other
 If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	<u>16</u> IN	<u>0</u> FT	<u>16</u> FT	<u>33</u> IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Grout well DF</u>	<u>17 bags</u>	Lb/gal	<u>0</u> Ft	<u>15</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

hemmie

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 16 Inches Length 20 Feet
Material PVCSlot Size 065 Set From 16 Feet to 36 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 tablets
☐ No, Why Not?
 Lab to which water quality sample sent for analysis
Well Owner: LARRY SCHMIDT

Business Name:

Address: 44819 277th StCity, State, Zip: DAKOTA SD 57053

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>top soil</u>	<u>0</u>	<u>4</u>
<u>med gravel</u>	<u>4</u>	<u>24</u>
<u>sm Gravel & clay</u>	<u>24</u>	<u>36</u>

STATIC WATER LEVEL

6

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

Ft. After _____ Hrs. pumped _____ GPM

Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

43.394016°N-97.165516°WThis well was drilled under license # 810 and this report is true and accurate.Drilling firm: Holme electric & Irrigation

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

RECEIVED

Date: 12/28/22

JAN 12 2023

OFFICE OF
WATER

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7457-3

I have this day, October 29, 2024, made a thorough examination of the water use system constructed by Larry Schmidt, 44819 277th St, Parker, SD 57053 of Permit No. 7457-3, bearing the priority of October 9, 2012 authorizing the diversion of 2.22 cu. ft. per second of the waters of the Vermillion: West Fork Aquifer for irrigation purposes, in Turner County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Hamond-Wetmore Drilling/ Steffl Drilling/Heine Electric
- 2) No. of Wells 4
- 3) Depth(s) #1 (21) #2 (23) #3 (24) feet
- 4) Well log is available Y

Casing:

- 1) Diameter 16 #1 - #3 (16), #4 (12) inches
- 2) Length #1 (12) #2 (12) #3 (19) feet
- 3) Type Plastic

Screen:

- 1) Type PVC (#1 - #3) Stainless (#4) PVC (#5)
- 2) Length #1 (9) #2 (11) #3 (5) feet
- 3) Static water level 10 -11 feet

Pump:

- 1) Make All Submersibles
- 2) Model Unknown
- 3) Size Unknown
- 4) Capacity 300 total GPM

Motor:

- 1) Make Unknown
- 2) Model No. Unknown
- 3) Horsepower rating Unknown hp

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

- 1) Type PVC
- 2) Size 8 inches
- 3) Length 1800 SW corner & 4300 (Bottom land) feet

Comments: **xx**

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Zimmatic
- 2) Overall length 1300 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) Capacity 600 (see comments) GPM

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

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

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: WELL LOCATIONS
From the SE corner Sec 13 T99N R54W
WELL #1: 1725 ft N & 50 ft W, Lat 43.39185 Long -97.16177 (NE ¼ SE ¼)
WELL #2: 1395 ft N & 350 ft W, Lat 43.39082 Long -97.16285 (NE ¼ SE ¼)
WELL #3: 1315 ft N & 60 ft W, Lat 43.39065 Long -97.16170 (NE ¼ SE ¼)
2. The works are capable of diverting and conveying to the place of use 0.67 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:
legal description/acreage
All land in Sec 13 T99N R54W
NW 1/4 SW 1/4 - 31 acres
NE 1/4 SW 1/4 - 31 acres
SE 1/4 SW 1/4 - 33 acres
SW 1/4 SW 1/4 - 32 acres

 comprising a total of 127 acres of land and the license should be issued for 0.67 cfs
3. All structures, wells and lands on map Y

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

FSA maps and the ArcGIS program were used to construct the attached well location and irrigated area map which was used to estimate irrigated acreage.

The flow rate reported on the 2023 Irrigation Questionnaire was used to establish the system flow capacity. Wells #1-3 have a total pump rate of 300 gpm. Well #4 (authorized by 8742-3 from a different aquifer) produces an additional 300 gpm. All 4 wells produce a combined flow rate of 600 gpm which is pumped through the center pivot.

The address and the phone number in the permit application are current.

I talked to Mr. Larry Schmidt (605/351-4955) on the phone regarding Permit details.

A handwritten signature in black ink, appearing to read "Darrell DeBoer", written over a horizontal line.

Darrell DeBoer
Water Rights Inspector
DENR, Water Rights Program

Date report completed: October 31, 2024

Approval of Location Change and/or Additional Diversion Point(s)

Name: Larry Schmidt

Date: July 22, 2025

Address: 44819 277th St, Parker SD 57053

County: Turner

General Description of Authorized Project: Water Permit No. 7457-3, held by Larry Schmidt, authorized the diversion of 2.22 cfs from 2 wells completed into the Vermillion West Fork Aquifer (VWF) for irrigation of 207 acres, located in the SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 13; all in T99N-R54W.

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

Developed Water Source is the Same is Permitted, with no Additional Appropriations: An inspection conducted for licensing purposes found an additional diversion point developed for Water Permit No. 7457-3. Only 127 or the authorized 207 acres were developed for irrigation. The three wells are only capable of producing a combined rate of 300 gpm (0.67 cfs).

Review of Existing Diversions: There are 2 existing permit/rights with wells located within an approximate 2-mile radius of the third well site developed for Permit No. 7457-3, that authorize appropriations from the VWF. The wells developed for 7648-3 (Par Mar Valley County Club) & 4562-3 (Strawbridge Living Trust) are each drilled approx. 1.5 acres northwest of the wells drilled for 7457-3. It was determined during the review of Permit No. 7457-3 that there was reasonable probability any well interference due to pumping would not adversely or unlawfully impair existing rights. The same would be expected for additional well developed for Permit No. 7457-3.

The nearest domestic well completed into the same source (VWF) is located in the NE $\frac{1}{4}$ Section 17, T99N, R53W, approximately 1.5 miles northeast of the wells developed for 7457-3. The domestic well was drilled for Leroy Anderson in 2007, and is located within Parker SD city limits.

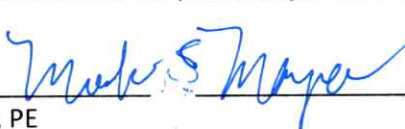
The location of the domestic wells in the Well Completion Database, maintained by the Water Rights Program, is based on the location listed by the well driller on the well completion report.

Recommended Action: Based on the above criteria, it is recommended that the additional diversion point be licensed, with no increase to the number of irrigated acres or rate of diversion.

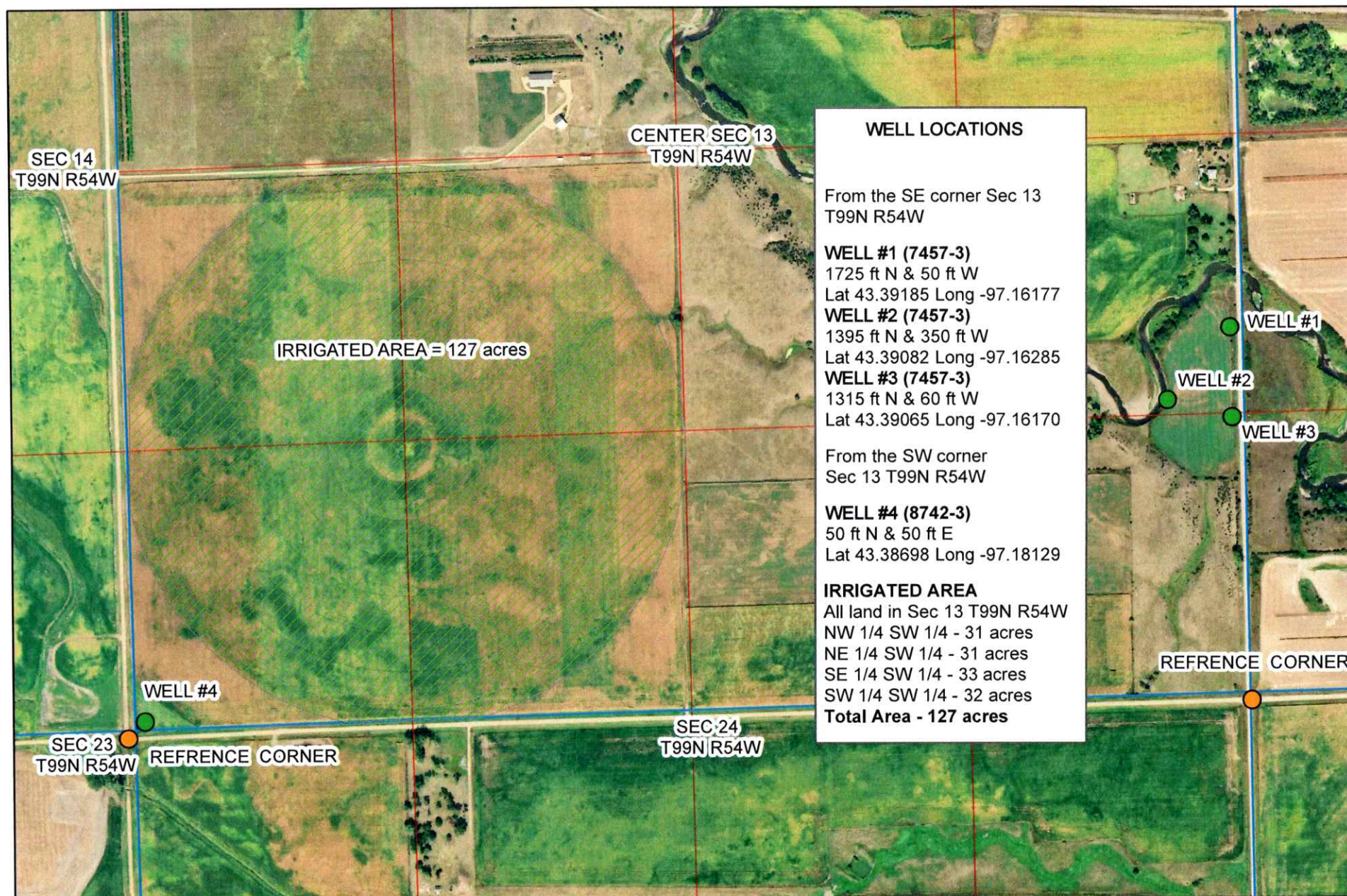


Amanda Dewell, Permitting Administrator
Water Rights Program

The acting Chief Engineer makes a finding Pursuant to SDCL 46-5-13.1 and ARSD 74:02:01 that: The additional diversion point does not increase the potential for adverse effects to existing diversions.



Mark Mayer, PE
Director of Office of Water



WELL LOCATIONS

From the SE corner Sec 13
T99N R54W

WELL #1 (7457-3)

1725 ft N & 50 ft W

Lat 43.39185 Long -97.16177

WELL #2 (7457-3)

1395 ft N & 350 ft W

Lat 43.39082 Long -97.16285

WELL #3 (7457-3)

1315 ft N & 60 ft W

Lat 43.39065 Long -97.16170

From the SW corner
Sec 13 T99N R54W

WELL #4 (8742-3)

50 ft N & 50 ft E

Lat 43.38698 Long -97.18129

IRRIGATED AREA

All land in Sec 13 T99N R54W

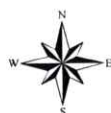
NW 1/4 SW 1/4 - 31 acres

NE 1/4 SW 1/4 - 31 acres

SE 1/4 SW 1/4 - 33 acres

SW 1/4 SW 1/4 - 32 acres

Total Area - 127 acres



0 500 1,000 2,000 3,000 4,000 Feet



DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES
JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

JUL 25 2025

7457-3
8742-3

Larry Schmidt
44819 277th St
Parker SD 57053

Dear Mr. Schmidt:

Enclosed is Water License Nos. 7457-3 & 8742-3. These are the final water right documents completing the process of obtaining Water Rights. Included with your licenses is a map prepared by the staff engineer who conducted the field investigations.

For your information SDCL 46-6-27 requires that if in the future, the owner of an existing well, 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.

So 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 Amanda Dewell, Permitting Administrator, Water Rights Program (605) 773-3352.

Sincerely,

Mark Mayer, PE
Director of Office of Water
(605) 773-3352

NOTE: Water Right Nos. 7457-3 & 8742-3 authorize irrigation of the same acres, from separate aquifers.

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 7457-3**

(1) Larry Schmidt, 44819 277th St, Parker SD 57053, made Application No. 7457-3, October 9, 2012, for a water permit to divert 2.22 cubic feet of water per second from groundwater, two wells (Vermillion West Fork Aquifer), Turner County, South Dakota for irrigation purposes. Permit No. 7457-3, with a priority date of October 9, 2012, was approved December 31, 2012, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 31, 2017, and for the application to beneficial use of water on or before December 31, 2021.

An investigation conducted for licensing purposes found an additional diversion point developed. Pursuant to SDCL 46-5-13.1 and ARSD 74:02:01:14.01, the Chief Engineer made a finding that the additional diversion point did not increase the potential for adverse effects to existing diversions.

(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 0.67 cubic feet of water per second for beneficial use. The locations of the diversion points are:

- Well #1: 1,725 ft N & 50 ft W of the SE corner Section 13, T99N, R54W (NE ¼ SE ¼)
(Latitude 43.39185 & Longitude -97.16177)
- Well #2: 1,395 ft N & 350 ft W of the SE corner Section 13, T99N, R54W (NE ¼ SE ¼)
(Latitude 43.39082 & Longitude -97.16285)
- Well #3: 1,315 ft N & 60 ft W of the SE corner Section 13, T99N, R54W (NE ¼ SE ¼)
(Latitude 43.39065 & Longitude -97.16170)

(3) The amount of appropriation may not exceed 2 acre-feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – September 30.

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

Section 13, T99N, R54W
NE ¼ SW ¼ - 31 acres
NW ¼ SW ¼ - 31 acres
SW ¼ SW ¼ - 32 acres
SE ¼ SW ¼ - 33 acres
TOTAL: 127 acres

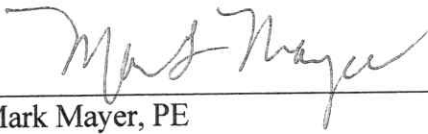
(5) Pursuant to South Dakota Water Law 46-5-30.1 Larry Schmidt, the holder and/or owner of Water Right No. 7457-3 is issued a license to appropriate water, the right to use 0.67 cubic feet of water per second from groundwater, three wells (Vermillion West Fork Aquifer), with a priority date of October 9, 2012, from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7457-3 and subject to the following qualifications:

continued

Qualifications

1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 7457-3 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. *(The wells were drilled in 2012 & 2013 by Hammond-Wetmore Drilling and Steffl Drilling & Pump Inc. Copies of the Well Completion Reports are on file with the Water Rights Program.)*
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



Mark Mayer, PE
Director of Office of Water
Department of Agriculture and Natural Resources

7/26/25

date

