

WATER PERMIT NO. 1984-1

Name of Applicant: **Meade School District 46-1 (Union Center)**

Address: **1230 Douglas St, Sturgis SD 57785** Phone: **605 347-2523**

Amount of Water Claimed: **0.10 cfs** Total Acres: **NA**

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

Water to be used for: **institutional** County: **Meade**

Type of Waste Disposal System:

Location: **Union Center**

PRIORITY Date Received: **7-5-18**

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

Corrected Application Received: **7-20-18**

Period of Annual Use: **January 1 – December 31**

Remarks:

Diversion Point: **NE 1/4 NE 1/4 Sec 21-T7N-R12E**

Land to be Irrigated: **NA**

Depth of Well: **140 feet deep**

Well Driller:

Remarks:

Type of Map: **aerial**

Prepared by:

Reviewed and the Number Assigned on: **7-25-18**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

				ⓧ	
			21		

**SOUTH DAKOTA
WATER PERMIT NO. 1984-1**

Date of first receipt of application July 5, 2018.

Date of return to applicant for corrections, amendments or changes July 5, 2018.

Date of receipt of corrected application July 20, 2018.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1984-1 to Meade School District 46-1, 1230 Douglas St, Sturgis SD 57785 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. 1984-1 appropriates 1.0 acre-feet of water annually at a maximum pump rate of 0.10 cubic feet of water per second from one well to be completed into the Fox Hills Aquifer (140 feet deep) located in the NE 1/4 NE 1/4 Section 21-T7N-R12E for institutional use at the school in Union Center SD.
2. The water appropriated shall be used for the purpose of institutional use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 1984-1 is October 1, 2018.
5. The date from which applicant may claim right is July 5, 2018.
6. One-fifth of the construction is to be completed on or before April 1, 2021.
7. All construction is to be completed on or before October 1, 2023.
8. Water is to be put to beneficial use on or before October 1, 2027.
9. 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. 1984-1 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. The permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Fox Hills aquifer.
4. Water Permit No. 1984-1 authorizes a total annual diversion of 1.0 acre foot of water.

WATER MANAGEMENT BOARD

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

OCT 04 2018
date



SD EForm - 1585LD V5

FORM 2: Application for uses other than irrigation
(type or print)

RECEIVED

JUL 05 2018

WATER RIGHTS
PROGRAM

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>1984-1</u> (office use only) Hydrologic Unit <u>10/20202</u>
	Basin <u>Belle Fourche River</u>
	Newspaper <u>Faith Independent</u>
	<u>Rapid City Journal</u>

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use(s) of water:

- | | | | |
|--|--|---|---|
| ☒ Municipal | ☐ Water Distribution System | ☐ Recreational | ☒ Institutional |
| ☐ Rural Water System | ☐ Commercial | ☐ Fish & Wildlife | ☐ Geothermal |
| ☒ Domestic (over 18 gpm) | ☐ Industrial | ☐ Other <u>Meade 46-1 Public Schools</u> | |

Type of Application:
(check one)

- ☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
- ☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
- ☐ Amendment/Correction to Permit No. _____

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

1. Name to Appear on Water Permit Meade 46-1 (Union Center) School District
- Mailing Address 1230 Douglas St. Sturgis SD 57785
(Address) (City) (State) (Zip Code)
- Phone (605) 347-2523 Mobile _____ Email Todd Battles@K12.SD.US
2. Amount of water claimed 0.10 *CFS or 4.5 **GPM and 200,000 ***AF or 200,000 Gallons
Flow rate and volume are both required. (*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use)
3. Source of water supply well (NE 1/4 NE 1/4)
4. Location of point of diversion section 21 Township 7 Range 12E County Meade
(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)
- If not a public water supply (e.g. municipal), will water be used outside of the area described above? ☐ Yes ☒ No
- If "Yes," where will water be used? _____
(example - NW 1/4 section 12-T104N-R53W)
5. County or counties where water will be used Meade
6. Annual period during which water is to be used annually Jan 1 - Dec 31
7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Building of a 10,000 sqft school - 5 rooms in Union Center capable of having approx. 100 students

I, Todd Battles Maintenance Foreman, the applicant, certify under
Name of Person Title (if applicable)

penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

Supplemental Information

(type or print)

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

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

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

For either Existing or Proposed Wells:

c) Well Depth (required) 140' Depth to Top of Water Bearing Material 100' Depth to Water from Surface 90'

d) Distance to nearest domestic well on applicant's property _____ Property owned by others _____

2. Wastewater Disposal System Information

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

b) System Capacity (gallons) _____ Year Constructed 2018

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)

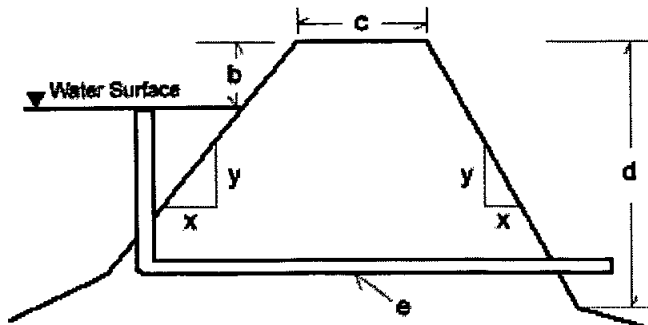
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



A. CONTRACTOR SHALL PROVIDE 6" TOP SOIL FINISH GRADE AT ALL DISTURBED AREAS U.N.O.
B. SEE MECHANICAL AND ELECTRICAL AND CIVIL FOR ADDITIONAL SITE ITEMS.
C. SLOPE FINISH GRADE AWAY FROM THE BUILDING.



415 South Main Avenue
P.O. Box 2140
Sioux Falls, South Dakota 57101
Phone: (605) 339-1711

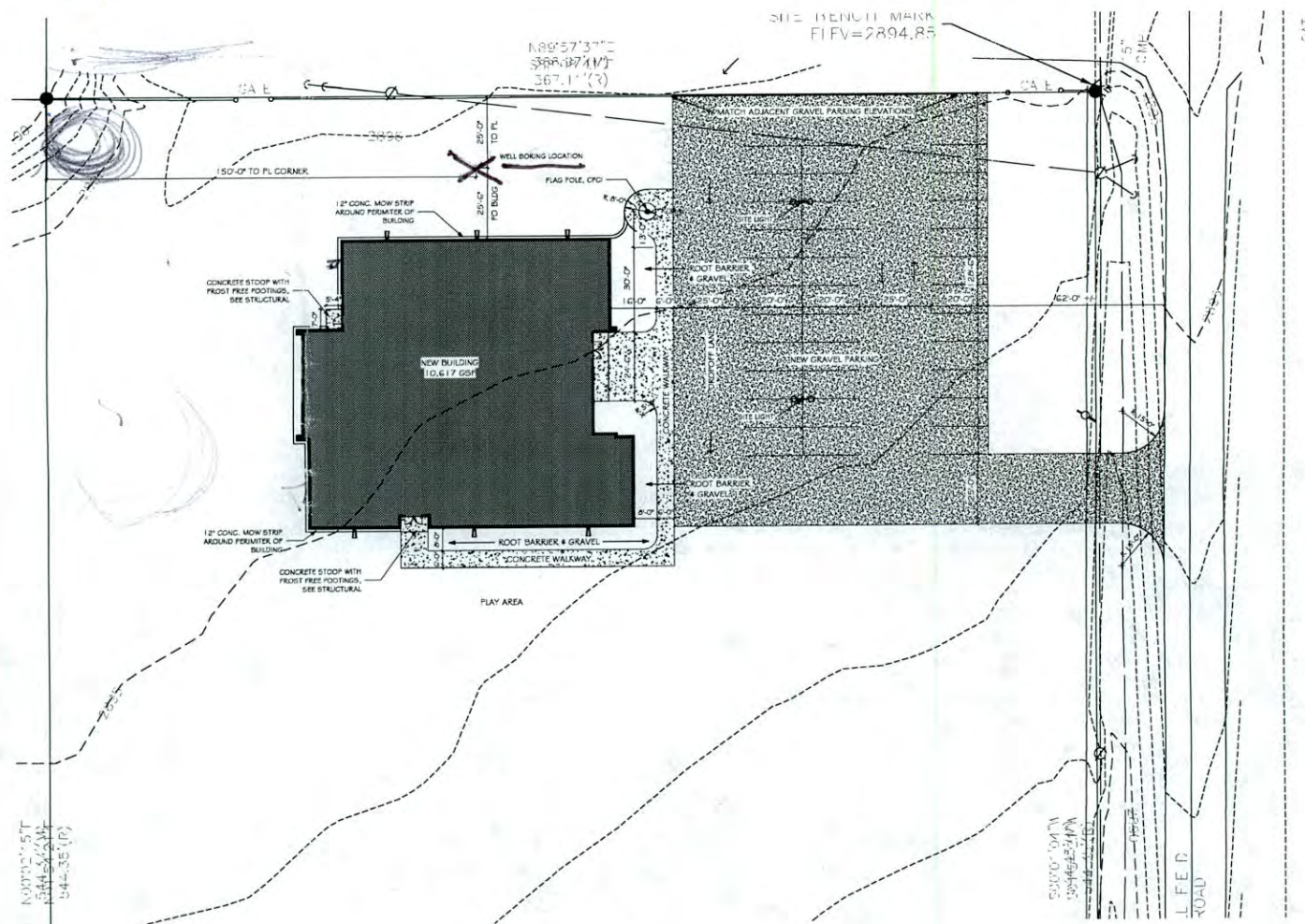
815 St Joseph Street, Suite 203
P.O. Box 8047
Rapid City, South Dakota 57701
Phone: (605) 721-1158

PRINT
NOT FOR CONSTRUCTION
6/19/2016 4:28:07 PM

SITE PLAN

number: 1113-2757-17
date: 06/12/2018
revision:
drawn: BJ checked: SJ

2.30



2.30 SITE PLAN
SCALE: 1/16" = 1'-0"

GRAPHIC SCALE



Plat of
 Lot 46-1 of Freeman Subdivision and
 Dedicated Public Right-Of-Way for Ball Field Road.
 Formerly a Portion of the E 1/2 of the E 1/2 of Section 21.
 All Located in Township 7 North, Range 12 East,
 Black Hills Meridian, Meade County, South Dakota.

PAGE 1 OF 2

FREEMAN SUBDIVISION

LOT 1

S 231' OF
 LOT CF

BASIS OF BEARINGS
 S 88°08'41" E(M) S 89°37'36" E(R)
 367.11'(M) 367.00'(R)

33' WIDE
 PREVIOUSLY
 DEDICATED
 PUBLIC
 RIGHT-OF-WAY.
 PB 12, PG 78

Xwell

LOT 46-1

199,835.9 Sq. Feet
 4.588 Acres

33' WIDE
 DEDICATED
 PUBLIC R.O.W.
 17,963.5 Sq. Feet
 0.412 Acres

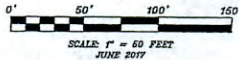
N 88°08'41" W
 367.11'

S 01°54'21" W 544.35'

33' NAIL
 BALL FIELD ROAD

SECTION 21
 SECTION 22

E 1/2 OF THE E 1/2
 REMAINDER
 126.340 ACRES ±



SURVEYOR'S NOTES

- 1) Basis of Bearings Determined Using Geodetic North From Global Positioning System (GPS). S 88°08'41" E 400.11' along the South Lot Line of Lot CF of Freeman Subdivision from a Found Rebar and Found Nail.
- 2) Utility & Minor Drainage Easements: 8' Wide on the interior side of all lot lines.
- 3) Building Restrictions: Per Latest Adopted International Building Code (IBC).
- 4) Building Set Backs: 25' Front and Rear, 8' all Sides and 25' All Right-Of-Way Lines.
- 5) Documents of Record as Reference: Deed Book 519 at Page 609, Plat Book 12 at Page 78 and Plat Book 15 at Page 92.

DRAINAGE NOTES

All major drainage easements shown hereon shall be kept free of all obstructions including, but not limited to, buildings, wells, fences, hedges, trees, and shrubs. These easements grant to all public authorities the right to construct, operate, maintain, inspect, and repair such improvements and structures as it deems necessary to facilitate drainage from any source.

LEGEND

- ⊙ - Denotes set 5/8" Rebar with Cap Marked "Vasknetz RLS 7719".
- ⊙ - Denotes found monument as noted.
- - Denotes found Rebar.
- - - Denotes calculated corner 'not set'.

PB26-63/64

104.2

1000 - 7104

Sec 17
T007N
R12E

Sec 16
T007N
R12E

Sec 15
T007N
R12E

Sec 20
T007N
R12E

Sec 21
T007N
R12E

Sec 22
T007N
R12E

Sec 29
T007N
R12E

Sec 28
T007N
R12E

Sec 27
T007N
R12E



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date July 9

20 18

Meade School District 46-1 1230 Douglas St Sturgis, SD 57785-1869

RECEIVED OF

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

Fee for Application for Permit No. <u>1984-1</u> to Appropriate Water, to construct and to put water to beneficial use	100	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>1984-1</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	300 00

No. **08713**

By

Jeanne Goodman
Chief Engineer

vm



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

July 5, 2018

Meade 46-1 (Union Center)
Todd Battles, Maintenance Foreman
1230 Douglas St
Sturgis SD 57785

Dear Mr. Battles:

Thank you for submitting the *Application for a Permit to Appropriate Water* for use at the Union Center School. In order to complete the application, the following is required.

- A map needs to be submitted that references a government section corner or quarter corner including section, township and range. For your use, I have enclosed a map with those designations. Please mark the proposed well location with an "X".
- On the amount of water claimed, you requested less than 45 gallons per minute. We need a specific amount. I am assuming you do not know the size of pump that will be in the well at this time. You can request 45 gallons per minute. At the time, the water permit is inspected; the amount will be reduced to what the pump is capable of producing.

If you have any questions, please contact Eric Gronlund or me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

enclosures

Schlaak, Karen

From: Battles, Todd <Todd.Battles@k12.sd.us>
Sent: Wednesday, July 11, 2018 1:56 PM
To: Schlaak, Karen
Subject: RE: Map
Attachments: meade school UC well.pdf

I hope this will work for the map. Also, I would like to stay at 45 gpm. Thank you and please let me know if I need more information.

Todd Battles
Maintenance Foreman
Meade 46-1
12940 E. Hwy 34
Sturgis, S.D. 57785
(605)347-2649

From: Schlaak, Karen [<mailto:Karen.Schlaak@state.sd.us>]
Sent: Wednesday, July 11, 2018 9:06 AM
To: Battles, Todd <Todd.Battles@k12.sd.us>
Subject: Map

Schlaak, Karen

From: Battles, Todd <Todd.Battles@k12.sd.us>
Sent: Friday, July 20, 2018 4:03 PM
To: Schlaak, Karen
Subject: RE: Pending application

I did research and believe that an annual total of 200,000 gallons a year would be a close calculation. Thanks for your help and please let me know if there are any more concerns.

Todd Battles
Maintenance Foreman
Meade 46-1
12940 E. Hwy 34
Sturgis, S.D. 57785
(605)347-2649

From: Schlaak, Karen [<mailto:Karen.Schlaak@state.sd.us>]
Sent: Tuesday, July 17, 2018 10:27 AM
To: Battles, Todd <Todd.Battles@k12.sd.us>
Cc: Gronlund, Eric <Eric.Gronlund@state.sd.us>
Subject: Pending application

Todd,
In addition to the amount of water requested (45 gallons per minute) on the application for the Union Center School, we also need an annual volume of water amount. This figure should be the approximate number of gallons per day or per year to be used at the school. In calculating the annual volume, be reasonable but plan on the maximum amount needed.

Once we have this figure, we will continue to process the application. If you have questions, please contact Eric Gronlund.

Karen Schlaak
SD DENR, Water Rights Program
(605) 773-3352





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

September 10, 2018

Meade School District 46-1
Todd Battles
1230 Douglas St
Sturgis, SD 57785

Dear Mr. Battles:

As requested, pursuant to South Dakota Well Construction Standard 74:02:04:21, you are authorized to have a South Dakota Licensed Well Driller construct a test well approximately 140 feet deep prior to approval of a water permit. The test well will be located in the NE ¼ NE ¼ Sec. 21-T7N-R12E at the Union Center Rural Attendance Center. All test wells must be constructed in accordance with the SD Well Construction Standards. Any test holes or test wells that are abandoned must be plugged pursuant to the SD Well Construction Standards.

Authorization must be obtained before water from the well can be used in excess of domestic use as defined by South Dakota Codified Law 46-1-6(7). Approval of this test well does not assure issuance of a water permit. Following review of a Water Permit Application and assessing the availability of water, the potential impacts to existing users, the beneficial use, and the public interest of a permit, the Chief Engineer will make a recommendation to the Water Management Board regarding the application. The recommendation to approve, deny, or defer the application will be publicly noticed and an opportunity afforded for the public to intervene. A public hearing may be required to consider the water permit. If you have questions, call Eric Gronlund at (605) 773-3352.

Sincerely,

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1984-1, Meade School District 46-1**

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. 1984-1, Meade School District 46-1, c/o Todd Battles, 1230 Douglas Street, Sturgis SD 57785.

The Chief Engineer is recommending APPROVAL of Application No. 1984-1 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. 1984-1 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. The permit holder shall report to the Chief Engineer annually the amount of water withdrawn from the Fox Hills aquifer.
4. Water Permit No. 1984-1 authorizes a total annual diversion of 1.0 acre foot of water.

See report on application for additional information.

Jeanne Goodman, Chief Engineer
September 13, 2018

REPORT ON APPLICATION NO. 1984-1
For Meade School District 46-1, % Todd Battles
September 12, 2018

Meade School District 46-1 has filed Water Permit Application No. 1984-1 for a water permit to appropriate 1.0 acre-feet of water annually at a maximum pump rate of 0.10 cubic feet of water per second (cfs) from one well completed into the Fox Hills aquifer (approximately 140 feet deep) located in the NE¼ NE¼ Section 21, T7N-R12E for institutional use at the new school in Union Center in Meade County, South Dakota.

AQUIFER – FOX HILLS (FXHL)

The Fox Hills aquifer consists of the porous portions of the Fox Hills Sandstone, which underlies much of northwestern South Dakota (Martin and others, 2004). The Fox Hills Sandstone, Late Cretaceous in age, consists of fine to coarse-grained cross-bedded sandstone, argillaceous sandstone, arenaceous shales, ferruginous stringers, and siltstones, and ranges from 25 to 400 feet in thickness (Martin and others, 2004). The Fox Hills aquifer underlies an area of approximately 7,442,000 acres and contains an estimated 55,814,400 acre-feet of recoverable water in storage in South Dakota (Allen and others, 1984).

The proposed well site is located in a portion of the Fox Hills aquifer that appears to be isolated from the main body of the aquifer (Martin and others, 2004). This isolated portion of the Fox Hills aquifer underlies approximately 384,000 acres of Meade and Ziebach Counties (Martin and others, 2004). Based on an assumption of five percent effective porosity from Rahn (1979) and an average aquifer thickness of 108 feet derived from DENR-Water Rights Program well logs (Water Rights, 2018c), there are approximately 2,073,600 acre-feet of recoverable water in storage in the isolated portion of the aquifer.

SOUTH DAKOTA CODIFIED LAW (SDCL) 46-2A-9

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

WATER AVAILABILITY

The availability of unappropriated water 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." If the source of the water is older than or stratigraphically lower than the Greenhorn Formation and is used for a water distribution system, the Board need not take into consideration the balance of aquifer recharge and withdrawal. The Fox Hills aquifer is not older or stratigraphically lower than the Greenhorn Formation, and the



proposed use is not for a water distribution system. Therefore, recharge to and withdrawals from the aquifer were reviewed.

Recharge

The main source of recharge to the Fox Hills aquifer occurs through infiltration of precipitation as it falls on the outcrop areas and supplemental recharge by leakage from overlying formations (Rahn, 1979). Two publications were reviewed in order to select an appropriate rate of recharge for the Fox Hills aquifer. Hedges and Burch (1985) attempted to quantify recharge to the Fox Hills and Hell Creek Formations using base flow recession analysis for the Moreau River. They calculated a recharge rate range of 0.25 to 0.29 inches per year for both the Fox Hills and Hell Creek Formations. Aurand (2013) quantified recharge to the Fox Hills aquifer at 0.052 inches per year using chloride-mass balance analysis. Since Aurand (2013) quantified recharge for the just the Fox Hills aquifer and is the more conservative estimate, the rate of 0.052 inches per year was used to calculate recharge. The estimated average annual recharge to the entire Fox Hills aquifer is approximately 32,254 acre-feet per year. The same rate was applied to the isolated portion of the Fox Hills aquifer, where this application proposes to divert water, which resulted in an estimated average annual recharge of approximately 1,664 acre-feet per year.

Discharge

Discharge from the Fox Hills aquifer may occur through leakage to overlying formations, loss to streams and rivers located within outcrop areas, and through well withdrawals. There are a number of domestic and stock water wells on file with the DENR-Water Rights Program that appear to be completed into the Fox Hills aquifer, however their use is considered to be minor (Water Rights, 2018c). Currently, there are 32 water rights/permits appropriating water from the Fox Hills aquifer in South Dakota, with two located within the same isolated portion of the Fox Hills aquifer that this application proposes to use (Water Rights, 2018b). The estimated average annual use by these two water rights/permits is 56.4 acre-feet per year. The estimate was based on the assumption that water rights/permits limited to an annual volume, will be used to the maximum and water rights/permits limited by diversion rate, will be used 60% of continuous pumping at the maximum diversion rate for their annual use period.

Hydrologic Budget

As already stated, the proposed application is located in an isolated portion of the Fox Hills aquifer, therefore, the average annual recharge and discharge of that specific portion is considered in the overall hydrologic budget. Average annual recharge to the isolated portion of the Fox Hills aquifer where this application proposes to withdraw water from is approximately 1,664 acre-feet per year. This proposed application plus the two water rights/permits located within the isolated portion of the Fox Hills aquifer, are estimated to use an average of 57.4 acre-feet per year. Therefore, average annual recharge can be expected to exceed withdrawals for this isolated portion of the Fox Hills aquifer, and there is reasonable probability that unappropriated water is available for this appropriation.

OBSERVATION WELL DATA

Administrative Rule of South Dakota (ARSD) Section 74:02:05:07 requires that the South Dakota Water Management Board shall rely upon the record of observation well measurements in addition to other data 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 nine observation wells completed in the Fox Hills aquifer (Water Rights, 2018a). All of the observation wells are located in excess of 50 miles away from this proposed application with none located within the isolated portion of the Fox Hills aquifer. However, the isolated portion of the aquifer is expected to behave the same as the main body of the aquifer. The observation well hydrographs show no or minimal impacts caused by pumping on the water level over the period of record. Water levels show good response to climatic conditions, with rising water levels during wetter periods and slowly declining levels during drier periods. This means that recharge to and natural discharge from the aquifer significantly exceeds withdrawals. Recognizing natural discharge can be captured for pumping, the hydrographs show unappropriated water is available. Observation well HR-86E, located approximately 51 miles northwest of this proposed application, is a typical observation well completed into the Fox Hills aquifer. The hydrograph for HR-86E illustrates the general characteristics and is representative of the Fox Hills aquifer (Figure 1).

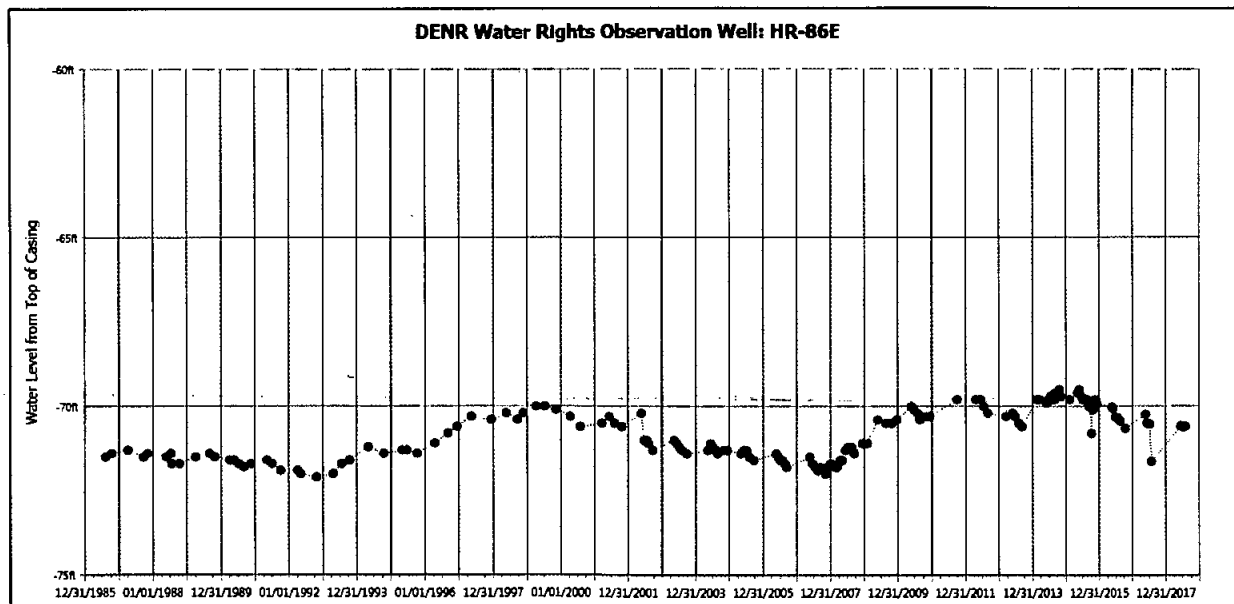


Figure 1. Hydrograph of observation well HR-86E which is completed into the Fox Hills aquifer located approximately 51 miles northwest of this application (Water Rights, 2018a).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

The nearest existing water right/permit authorized to divert water from the Fox Hills aquifer is Water Right 1829-1 which appropriates 0.09 cfs for commercial, domestic, and livestock water use (Water Rights, 2018b). The well associated with Water Right No. 1829-1 is located approximately ½ mile to the northwest of this proposed application. The next closest existing water right/permit is Water Permit No. 1946-1 which appropriates 0.05 cfs for commercial use.

The well associated with Water Permit No. 1946-1 is located approximately 5 miles northeast of this proposed application. An overview map showing the Fox Hills outcrop in relation to the existing and proposed diversion points has been included and labeled as Figure 2.

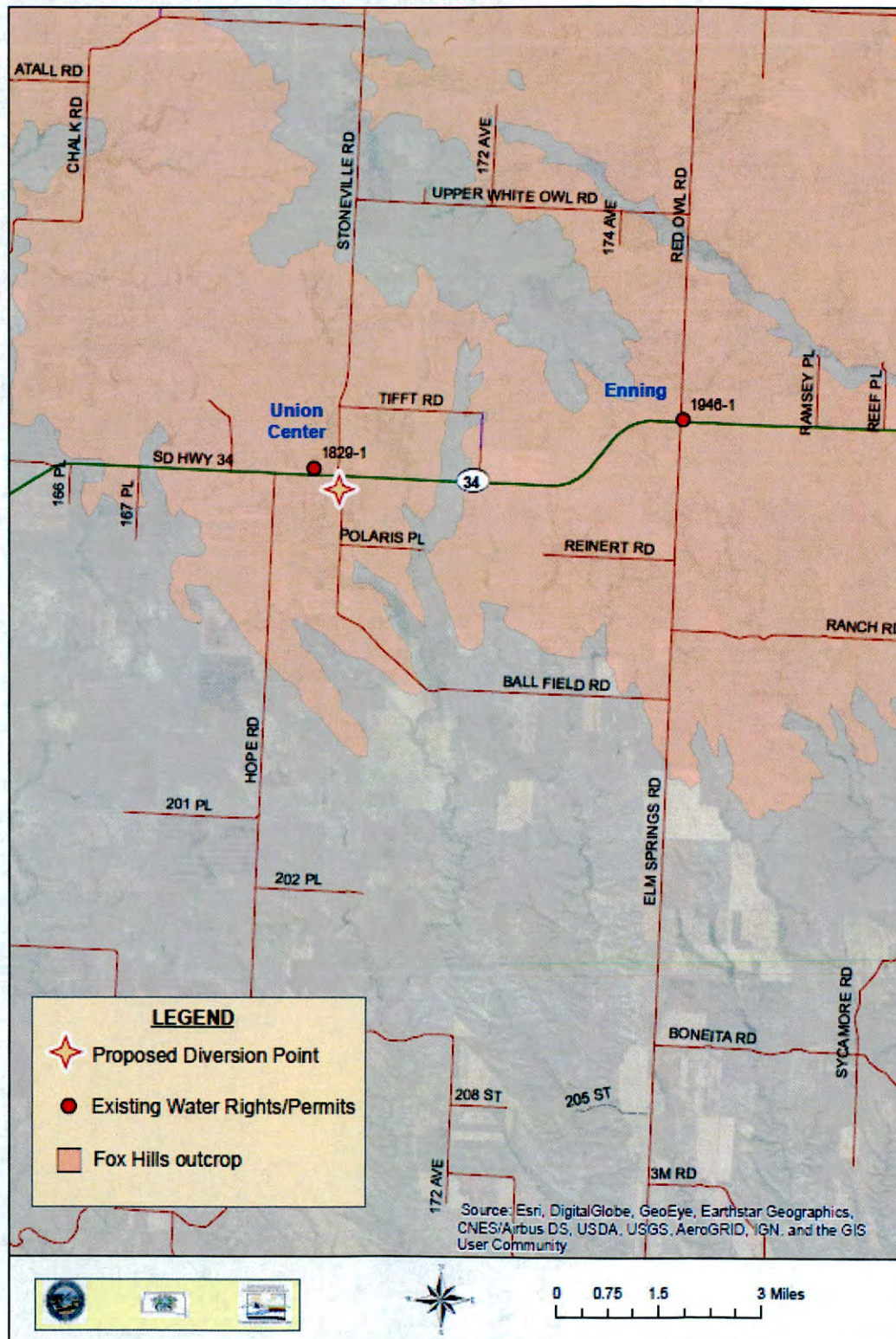


Figure 2. Approximate location of diversion points for water rights/permits appropriating water from the Fox Hills aquifer in the vicinity of this proposed application (Modified from: Martin and others, 2004; Water Rights, 2018b).

There are a number of domestic wells on file with the DENR-Water Rights Program that appear to be completed into the Fox Hills aquifer (Water Rights, 2018c). The closest domestic well on file is located approximately 1 mile north of this proposed application. The low diversion rate proposed by this application (0.10 cfs) is not likely to cause adverse effects to adequate wells (domestic or appropriative).

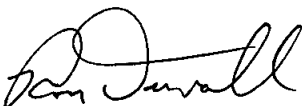
Based on the low diversion rate (0.10 cfs) and distance from existing wells, this proposed application is not likely to adversely affect adequate appropriative or domestic wells. The South Dakota Water Management Board defined an "adversely impacted domestic well" in ARSD 74:02:04:20(7) as:

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

In the past the Water Management Board has recognized to place water to maximum beneficial use, a certain amount of drawdown may occur. The Fox Hills aquifer is unconfined at this location and drawdown created by pumping this proposed diversion is not expected to be significant very far from the well. Additionally, the relatively low pump rate this application proposes is not expected to result in significant drawdown. It should also be noted that the DENR-Water Rights Program has not received any reports or complaints of well interference from the Fox Hills aquifer. Therefore, considering the items mentioned above, there is a reasonable probability that this appropriation can be made without adversely impacting existing users (appropriative or domestic).

CONCLUSIONS

1. Water Permit Application No. 1984-1 proposes to appropriate 1.0 acre-feet per year from the Fox Hills aquifer at a maximum diversion rate of 0.10 cfs.
2. Approval of this application will not cause annual withdrawals to exceed the average annual recharge of the Fox Hills aquifer.
3. Based on observation well data and hydrologic budget analysis, unappropriated water is available from the Fox Hills aquifer for this proposed application.
4. There is a reasonable probability that the appropriation proposed by this application can be made without adversely impacting existing users (appropriative or domestic).



for Aaron Tieman
SD DENR-Water Rights Program

REFERENCES

- Allen, J.C., Iles, D.L., Petres, A.K., 1984. Analysis of Groundwater and Streamflow Data, Western Dakotas Region of South Dakota, Task 3 & 4: Groundwater Resources Inventory: Final Report, U.S. Army Corps of Engineers Contract DAWC 45-82-C-0151, SD DENR-Geological Survey, Vermillion, SD.
- Aurand, K., 2013. Groundwater Recharge Estimates for the Lower Tertiary and Upper Cretaceous Aquifers in the Williston and Powder River Structural Basins. MS thesis, Department of Geology and Geological Engineering, South Dakota School of Mines and Technology, Rapid City, SD.
- Hedges, L.S., Burch, S.L., 1985. Analysis of Ground-Water and Streamflow Data Western Dakota Region of South Dakota, Task 3.D and 4.C: Ground-Water Recharge. SD DENR-Geological Survey, Vermillion, SD.
- Martin, J.E., Sawyer, J.F., Fahrenbach, M.D., Tomhave, D.W., Schultz, L.D., 2004, Geologic map of South Dakota: S.D. Geological Survey General Map 10, Scale 1:500,000, SD DENR-Geological Survey, Vermillion, SD.
- Rahn, P.H., 1979. Groundwater Resources of Western South Dakota. Department of Geology and Geological Engineering, South Dakota School of Mines and Technology, Project #2533. Rapid City, SD.
- Water Rights, 2018a, Observation Well Data, SD DENR-Water Rights Program, Joe Foss Building, Pierre, SD.
- Water Rights, 2018b, Water Right/Permit Files, SD DENR-Water Rights Program, Joe Foss Building, Pierre, SD.
- Water Rights, 2018c, Water Well Completion Report Files, SD DENR-Water Rights Program, Joe Foss Building, Pierre, SD.

Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, September 13, 2018 10:12 AM
To: Battles, Todd
Subject: Water Permit Application No. 1984-1
Attachments: 1984-1.pdf

Todd,

Attached is the report, recommendation and public notice information for Application No. 1984-1 (Union Center). Please contact the 2 papers ASAP to authorize publication and arrange for payment. Paper copies being mailed today.

Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352



PUBLISHER'S AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA
} SS
COUNTY OF MEADE }

RECEIVED

OCT 01 2018

WATER RIGHTS
PROGRAM

NOTICE OF
APPLICATION NO.
1984-1 to Appropriate
Water

Kris Stocklin-Johnson of said County and State, being duly sworn on oath says: THE FAITH INDEPENDENT is a weekly newspaper of general circulation, published in FAITH, in said County and State and has been such newspaper during the times thereafter mentioned; that the said THE FAITH INDEPENDENT is a legal newspaper and has been in existence for more than one year immediately preceding the first publication herein mentioned; and has more than 200 bonafide subscribers; that I, the undersigned, am Office Manager of said newspaper, and have personal knowledge of all facts stated in this affidavit; and that the advertisement headed:

Meade School District - Notice of App. 198-1 Appropriate Water
A printed copy of which is hereto attached, was printed and published in said newspaper for one successive issue, the first publication being on the 19th day of September, 2018, and the last publication on the 19th day of September, 2018, that \$23.85 being the full amount of the fee for publication of the annexed notice insures solely to the benefit of the publishers of the said newspaper; that no arrangement or understanding for a division thereof has been made with any person and that no part thereof has been agreed to be paid to any other person whomsoever.

x Kris Stocklin - Johnson

Subscribed and sworn to me before this 19th day of September, 2018.

Tamara Ravellette

Notary Public, State of South Dakota
My Commission Expires
Jan. 24th, 2020



Notice is given that Meade School District 46-1, c/o Todd Battles, 1230 Douglas St., Sturgis SD 57785 has filed an application for a water permit to appropriate 1.0 acre-feet of water annually at a maximum pump rate of 0.10 cubic feet of water per second from one well to be completed into the Fox Hills Aquifer (140 feet deep) located in the NE 1/4 NE 1/4 Section 21-T7N-R12E for institutional use at the school in Union Center SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1984-1 with qualifications 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. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

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 October 1, 2018.

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.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. 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.

Steven M. Pimer, Secretary
Department of Environment
and Natural Resources

Published September 19, 2018 at the
total approximate cost of \$23.85.

Affidavit of Publication

RECEIVED

STATE OF SOUTH DAKOTA

OCT 01 2018

County of Pennington

SS:

WATER RIGHTS
PROGRAM

Sept 19 L21095508
NOTICE OF APPLICATION
NO. 1984-1 to Appropriate Water
Notice is given that Meade
School District 46-1, c/o Todd Bat-
tles, 1230 Douglas St., Sturgis SD
57785 has filed an application for a
water permit to appropriate 1.0
acre-feet of water annually at a
maximum pump rate of 0.10 cubic
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21-T7N-R12E for institutional use
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Pursuant to SDCL 46-2A-2, the
Chief Engineer recommends AP-
PROVAL of Application No. 1984-1
with qualifications because 1) un-
appropriated water is available, 2)
existing rights will not be unlaw-
fully impaired, 3) it is a beneficial
use of water, and 4) it is in the pub-
lic interest. The Chief Engineer's
recommendation with qualifications,
the application, and staff re-
port are available at
<http://denr.sd.gov/public> or con-
tact Eric Gronlund for this infor-
mation, or other information, at
the Water Rights Program ad-
dress provided below.

Any person interested in oppos-
ing or supporting this application
or recommendation must file a
written petition with BOTH the ap-
plicant 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 mail-
ing address is given above. A peti-
tion filed by either an interested
person or the applicant must be
filed by October 1, 2018.

The petition may be informal,
but must include a statement de-
scribing 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 peti-
tioner or the petitioner's legal
counsel, if legal counsel is ob-
tained.

If the applicant does not contest
the recommendation of the Chief
Engineer and no petition to oppose
the application is received, the
Chief Engineer shall act on the ap-
plication pursuant to the recom-
mendation with no hearing held
before the Water Management
Board. If a petition opposing the
application or contesting the rec-
ommendation is filed, then a hear-
ing will be scheduled and the
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of the hearing will be given to the
applicant and any person filing a
petition.

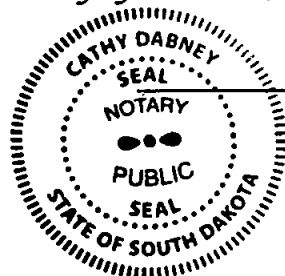
Steven M. Pirner, Secretary
Department of Environment
and Natural Resources

(Published once at the total approximate
cost of \$25.36)

Sheri Sponder being first duly sworn, upon his/her oath says: That
he/she is now and was at all time hereinafter mentioned, an
employee of the RAPID CITY JOURNAL, a corporation of Rapid
City, South Dakota, the owner and publisher of the RAPID CITY
JOURNAL, a legal and daily newspaper printed and published in
Rapid City, in said County of Pennington, and has full and
personal knowledge of all the facts herein stated as follows: that
said newspaper is and at all of the times herein mentioned has been
a legal and daily newspaper with a bonafide paid circulation of at
least Two Hundred copies daily, and has been printed and published
in the English language, at and within an office maintained by the
owner and publisher thereof, at Rapid City, in said Pennington
County, and has been admitted to the United States mail under the
second class mailing privilege for at least one year prior to the
publication herein mentioned; that the advertisement, a printed
copy of which, taken from said Rapid City Journal, the paper in
which the same was published, is attached to this sheet and made a
part of this affidavit, was published in said paper once each
_____ day _____ for _____ one _____ successive
_____ day _____, the first publication there of being on the
_____ 19th _____ day of _____ Sept 2018 _____ that the fees charged for
the publication there of are _____ 58 _____ dollars
and _____ 26 _____ cents.

Sheri Sponder

Subscribed and sworn to before me this 26th
day of September, 2018.



Cathy Dabney
Notary public

4-16-2024

My commission expires



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

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

September 13, 2018

Meade School District 46-1
c/o Todd Battles
1230 Douglas St
Sturgis SD 57785

Dear Mr. Battles:

Water Permit Application No. 1984-1 for institutional use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Faith Independent printed at Faith SD (Ph # 605 967-2161) and the Rapid City Journal printed at Rapid City SD (Ph # 605 394-8300). You will need to contact the newspapers 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 newspapers to authorize publication of your Notice and to arrange for payment. Early contact with the papers 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
Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

Instruction to Newspaper - Publish the Notice on September 19, 2018. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 1984-1 to Appropriate Water

Notice is given that Meade School District 46-1, c/o Todd Battles, 1230 Douglas St., Sturgis SD 57785 has filed an application for a water permit to appropriate 1.0 acre-feet of water annually at a maximum pump rate of 0.10 cubic feet of water per second from one well to be completed into the Fox Hills Aquifer (140 feet deep) located in the NE 1/4 NE 1/4 Section 21-T7N-R12E for institutional use at the school in Union Center SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1984-1 with qualifications 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. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

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 October 1, 2018.

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.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. 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.

Steven M. Pirner, Secretary, Department of Environment and Natural Resources. Published once at the total approximate cost of _____.

Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, September 13, 2018 10:05 AM
To: faithind@faithsd.com
Subject: 1984-1, Meade School District 46-1
Attachments: 1984-1public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on September 19, 2018.

Meade School District 46-1, c/o Todd Battles, 1230 Douglas St, Sturgis SD 57785 (605 347-2523) has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol, Pierre SD 57501.

Let me know if you have questions. Please acknowledge receipt of this email.

Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352



Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, September 13, 2018 10:06 AM
To: RCY Legals (legals@rapidcityjournal.com)
Subject: 1984-1, Meade School District 46-1
Attachments: 1984-1public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on September 19, 2018.

Meade School District 46-1, c/o Todd Battles, 1230 Douglas St, Sturgis SD 57785 (605 347-2523) has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol, Pierre SD 57501.

Let me know if you have questions. Please acknowledge receipt of this email.

Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

OCT 04 2018

Meade School District 46-1
c/o Todd Battles
1230 Douglas St
Sturgis SD 57785

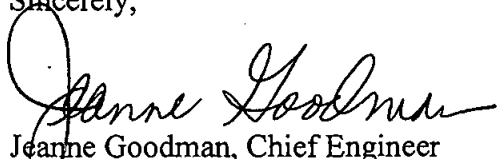
Dear Mr. Battles:

Enclosed is Water Permit No. 1984-1 authorizing construction of the 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,


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

enclosures

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 1984-1

I have this day May 19, 2021 made a thorough examination of the water use system constructed by Meade School District 46-1, 1230 Douglas St., Sturgis, SD 57785 of Permit No. 1984-1, bearing the priority of 7/5/2018 authorizing the diversion of 0.10 cu- ft. per second of water from one well for institutional purposes in Meade County.

Inspection contact

Todd Battles

605-490-7963

Correspondence %

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Heaton Drilling
- 2) Well No. 1 (11/10/2018)
- 3) Depth 129 feet
- 4) Well log Yes

Comments: Fox Hills formation

Casing:

- 1) Diameter 5 1/2 inch
- 2) Length +1.5 to 126 feet
- 3) Type PVC

Screen:

- 1) Type N/A
- 2) Length N/A feet
- 3) Static water level 20 feet (bailed at 15-20 gpm by driller)

Pump:

- 1) Make A Y McDonald
- 2) Model 23100L
- 3) Size 4"
- 4) Capacity 18 GPM (This is a 15 gpm rated pump delivering 18 gpm as install with Variable Frequency Drive @ 60 psi discharge)
- 5) Horsepower rating 1 hp

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

PVC piping directly into the Union Center School

C. Works used to apply water to beneficial use:

The well supplies the K/8 school building at Union Center. This is a 10,000 sq. ft. facility with a capacity of approximately 100 students. The school first opened for the 2019 -2020 school year. There is no irrigation of lawn or athletic fields at the school.

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by: **Yes**
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period N/A

List any extended period of nonuse: none

- 3) Exceptions to compliance are: none

E. Condition and Location:

1. The system is in good condition with the point of diversion located as follows:
978' S and 245' W of NE corner Section 21 T7N R12E (44.558208, -102.663336)
2. The works are capable of diverting and conveying to the place of use 0.04 cu. ft. per second of water (18 gpm) which is to be used for institutional use and the license should be issued for 0.04 cfs
3. All structures, wells and lands on map: Well only

F. Comments or other permit(s) associated with the project: none



Steven Quissell
Water Rights Inspector
Department of Agriculture and Natural Resources
Water Rights Program

Date report completed: 5/20/2021



Water Right #1984-1
Meade School District 46-1 (Union Center)
5/19/2021



Steven Quissell
Water Rights Inspector
Department of Agriculture and Natural Resources
Water Rights Program



1984-1

SD EForm - 1311LD V1

Form 10

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

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

Date

5/19/2021

FROM:

TODD BATTLES

(name)

Meade School District

(address)

Sioux Falls

(city)

SD

(state)

(zip)

605-490-7963

(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. 1984-1 states that the water use system is to be constructed by

10/1/2023, and water is to be put to beneficial use by 10/1/2027

(date)

(date)

The water use system was completed on

11/10/2018

(date)

Applying the water to beneficial use was completed on

Aug 30 2019

(date)

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

X Todd Battles





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

MAY 25 2021

1984-1

Todd Battles
Meade School District 46-1
1230 Douglas St
Sturgis SD 57785

Dear Mr. Battles:

Enclosed is Water License No. 1984-1. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if 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.

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

Sincerely,

Eric Gronlund, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1984-1

(1) The Meade School District 46-1, 1230 Douglas St., Sturgis SD 57785 made Application No. 1984-1, July 5, 2018 for a water permit to divert 0.10 cubic feet of water per second (1.0 acre foot annually) from ground water, one well (Fox Hills Aquifer), Meade County, South Dakota for institutional purposes. Permit No. 1984-1, with a priority date of July 5, 2018 was approved October 1, 2018 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before October 1, 2023 and for the application to beneficial use of water on or before October 1, 2027.

The Permit holder submitted a "Notice of Completion of Works and Application of Water to Beneficial Use" on May 19, 2021. The "Notice" stated the water use system was completed in November 2018 and the water placed to beneficial use in August 2019.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the water supply system and is entitled to divert 0.04 cubic feet of water per second for beneficial use. The location of the diversion point is as follows:

- 978'S and 245' W of the NE corner Section 21, T7N, R12E (NE ¼ NE ¼ Section 21)
Latitude 44.558208, Longitude -102.663336

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

(4) Pursuant to South Dakota Water Law 46-5-30.1 the Meade School District 46-1, 1230 Douglas St., Sturgis SD 57785 the holder and/or owner of Water Right No. 1984-1 is issued a license to appropriate water, the right to use 0.04 cubic feet of water per second from ground water, one well (Fox Hills Aquifer) with a priority date of July 5, 2018 from the location specified in (2) of this license for institutional purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 1984-1 and subject to the following qualifications:

- The well approved under this water right will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this water right shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well authorized by Permit No. 1984-1 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. ***The well was drilled in November, 2018 by Heaton Drilling. A copy of the completion report is on file with the Water Rights Program.***

continued

Water License No. 1984-1
Page 2

- The water right holder shall report to the Chief Engineer annually the amount of water withdrawn from the Fox Hills Aquifer.
- Water Right No. 1984-1 authorizes a total annual diversion of 1.0 acre foot of water.

Eric Gronlund

Eric Gronlund, Chief Engineer
Water Rights Program
Department of Agriculture and Natural Resources

MAY 25 2021

date

