

WATER PERMIT NO. 2731-2

Name of Applicant: Jeffrey A or Kristi Hoffman

Address: 13655 Silver Fox Spur, Rapid City SD 57702

Phone: 605 484-1956

Amount of Water Claimed: 0.10 cfs

Total Acres: NA

Source of Water Supply: groundwater (one well)

Water to be used for: domestic and fire protection

County: Pennington

Type of Waste Disposal System:

Location: 9 miles southwest of Rapid City

PRIORITY

Date Received: 10-27-14

Application/License Fee: \$ 300

Corrected Application Received: 10-31-14

Period of Annual Use: January 1 – December 31

Remarks:

Diversion Point: SW 1/4 SE 1/4 Sec 12-T1S-R6E

Land to be Irrigated: NA

Depth of Well: 303 feet deep

Well Driller: Taylor Drilling

Remarks:

Type of Map: areial

Prepared by:

Reviewed and the Number Assigned on: 11-3-14

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

			12		

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	(office use only)	
	No. <u>2731-2</u>	Hydrologic Unit <u>10120109</u>
	Basin <u>Upper Cheyenne</u>	
	Newspaper <u>Rapid City Journal</u>	
<u>PO Box 45 57701 605-394-8300</u>		

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OCT 27 2014
WATER RIGHTS
PROGRAM

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

Check use(s) of water:

☐ Municipal	☐ Suburban Housing	☐ Recreational	☐ Institutional
☐ Rural Water System	☐ Commercial	☐ Fish & Wildlife	☐ Geothermal Heat
☒ Domestic (over 18 gpm)	☐ Industrial	☐ Other _____	

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.)

- Name to Appear on Water Permit Jeffrey A or Kristi Hoffman
(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent
(name and complete address if different than above name)
Mailing Address 13655 Silver Fox Spur Rapid City SD 57702
(Address) (City) (State) (Zip Code)
Home Phone 605-348-4870 Cell 605-484-1956 Email Kristi@black-hills.com
- Amount of water claimed .10 *CFS or 45 **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable
- Source of water supply well
- Location of point of diversion SW¹/₄ - SE¹/₄ Sec. 12 - Twp. 1S - Rg 6E County Pennington
(example - 3 wells in SW1/4 NE1/4 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 - NW1/4 section 12-T104N-R53W)
- County or counties where water will be used Pennington
- Annual period during which water is to be used JAN. 1st - Dec. 31st
- 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)

Domestic Use and fire protection

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

SOUTH DAKOTA
WATER PERMIT NO. 2731-2

Date of first receipt of application October 27, 2014.

Date of return to applicant for corrections, amendments or changes October 27, 2014.

Date of receipt of corrected application October 31, 2014.

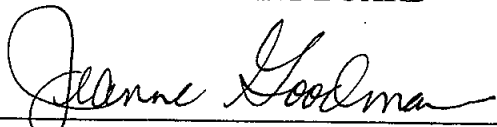
The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2731-2 to Jeffrey A or Kristi Hoffman, 13655 Silver Fox Spur, Rapid City SD 57702 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 2731-2 appropriates 0.10 cubic feet of water per second (45 gallons per minute) from one well completed into the Precambrian aged Crystalline Rock (303 feet deep) located in the SW 1/4 SE 1/4 Section 12-T1S-R6E.
2. The water appropriated shall be used for the purpose of domestic and fire protection 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. 2731-2 is December 29, 2014.
5. The date from which applicant may claim right is October 27, 2014.
6. One-fifth of the construction is to be completed on or before July 29, 2017.
7. All construction is to be completed on or before December 29, 2019.
8. Water is to be put to beneficial use on or before December 29, 2023.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATION

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.

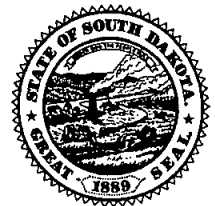
WATER MANAGEMENT BOARD

By: 

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

JAN 22 2015

date



Supplemental Information

(type or print)

1. Well Information

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

- a) If new wells, how many ____ Have test holes been drilled ☐ Yes ☐ No Drilled by ____
(if yes, please provide copies of logs)
- b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by Taylor Drilling Co.
- c) Well Depth 303 FT, Depth to Top of Water Bearing Material 200 FT, Depth to Water from Surface 128 FT.
- d) Distance to nearest existing domestic well:

On applicant's property _____

On property owned by others * Baker Timber

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) Septic tank + drain field - residential ^{single}
- b) System Capacity (gallons) 150 gal / PCP / DAY X 6 PCP = 900 gallons / DAY Year Constructed not yet constructed
- c) Connected to the City of R/A Sanitary System Construction Schedule anticipated completion 2016

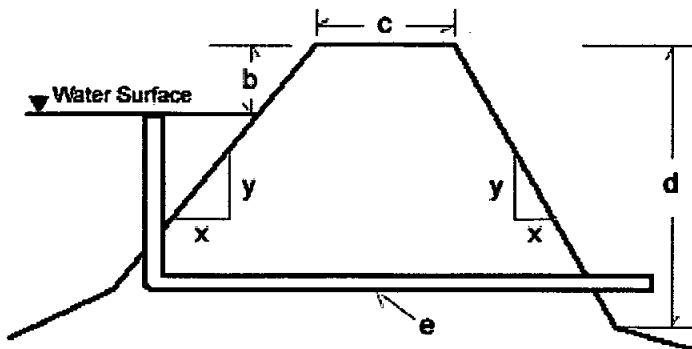
3. Dugout Information

- 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

Sec 35
T001N
R06E

Sec 36
T001N
R06E

Sec 31
T001N
R07E

Sec 2
T001S
R06E

Sec 1
T001S
R06E

Sec 6
T001S
R07E

Sec 41
T001S
R06E

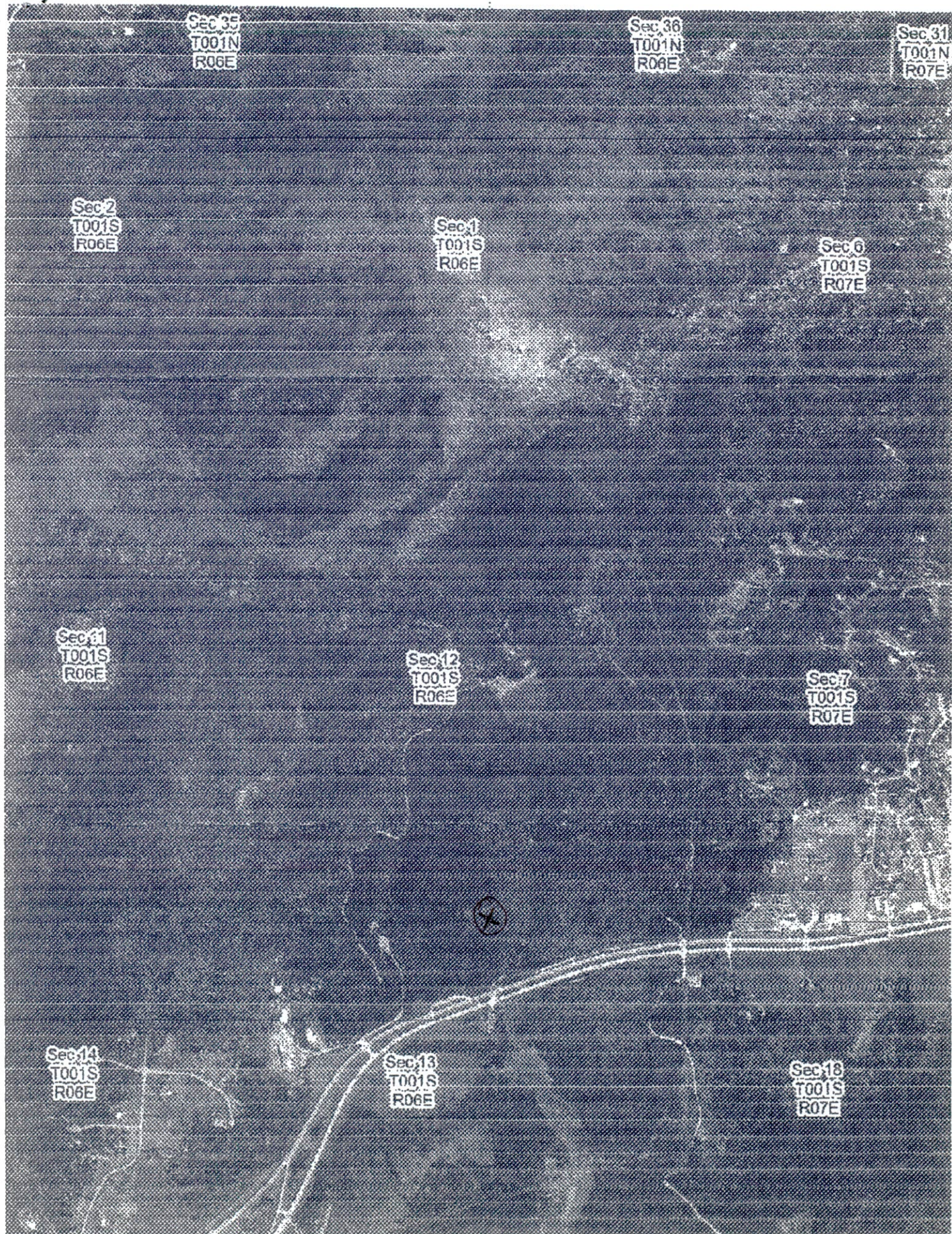
Sec 12
T001S
R06E

Sec 7
T001S
R07E

Sec 14
T001S
R06E

Sec 13
T001S
R06E

Sec 18
T001S
R07E





Sec 35
T001N
R06E

Sec 36
T001N
R06E

Sec 31
T001N
R07E

Sec 2
T001S
R06E

Sec 1
T001S
R06E

Sec 6
T001S
R07E

Sec 11
T001S
R06E

Sec 12
T001S
R06E

Sec 7
T001S
R07E

Sec 14
T001S
R06E

Sec 13
T001S
R06E

Sec 18
T001S
R07E

Sec 23
T001S
R06E

Sec 24
T001S
R06E

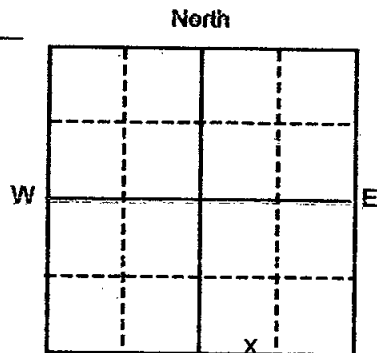
Sec 19
T001S
R07E

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW ¼ SE ¼ Sec 12 Twp 1S Rg 6E

County Pennington

Please mark well
location with an "X"

Well Completion Date

October 19, 2012

1 Mile

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

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary Drilling

CASING DATA:

If other describe ☒ Steel ☐ Plastic ☐ Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
23.0 LB/FT	7.00 IN	2.0 FT	160.0 FT	8.75 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Cement	24	14.0 Lb/gal	0.0 Ft	160.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

Pressure grouted through casing

SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter _____ Inches Length _____ Feet

Material _____

Slot Size _____ Set From _____ Feet to _____ 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? Chlorine Solution☐ No, Why Not?Lab to which water
quality sample sent for analysis

Well Owner: Jeff and Kristy Hoffman

Business Name: Kristy

Address: 13655 Silver Fox Spur

City, State, Zip: Rapid City SD 57702

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	1
Weathered S.S. LT Brown	1	12
S.S reddish brown to light brown	12	23
LS light brown yellow to brown	23	33
SS light brown	33	35
Quartz, reddish to brown	35	43
Weathered shist gray and red	43	118
Schist light brown	118	132
Schist gray & light brown	132	303

STATIC WATER LEVEL 128.0 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: Air developed☐ Bailed☒ Other

Pumping Level Below Land Surface

300.0 Ft. After 2.0 Hrs. pumped 100.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

OCT 27 2014

WATER RIGHTS
PROGRAMThis well was drilled under license # 331 and this
report is true and accurate.

Drilling firm: Taylor Drilling Co.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 10-23-14

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 10/27, 20 14

RECEIVED OF Jeff Hoffman 13655 Silver Fox Spur Rapid City SD 57702

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

Fee for Application for Permit No. <u>2731-2</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>2731-2</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. **06973**

By *Jeane Hoffman*
Chief Engineer



**DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES**

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



October 27, 2014

Jeffrey A or Kristi Hoffman
13655 Silver Fox Spur
Rapid City SD 57702

Dear Mr. & Mrs. Hoffman:

Thank you for submitting the *Application for a Permit to Appropriate Water* for domestic and fire protection use in Pennington County. In order to complete the application, the following is required.

- A map which references a government section corner or quarter corner including section, township and range is required. This information was not on the map submitted with the application. For your use, I have enclosed an aerial photo map with those designations. Please mark the well location with an "X".

If you have any questions, please contact me.

Sincerely,

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

enclosure



**DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES**

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



**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2731-2, Jeffrey A and Kristi Hoffman**

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. 2731-2, Jeffrey A and Kristi Hoffman, 13655 Silver Fox Spur, Rapid City SD 57702.

The Chief Engineer is recommending APPROVAL of Application No. 2731-2 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualification:

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.

See report on application for additional information.

Jeanne Goodman, Chief Engineer
December 10, 2014

WATER PERMIT APPLICATION NO. 2731-2
JEFFREY A. OR KRISTI HOFFMAN
NOVEMBER 18, 2014

Water Permit Application No. 2731-2 proposes to appropriate water from a well completed into the Precambrian aged Crystalline Rock aquifer at a maximum diversion rate of 0.10 cubic feet of water per second (45 gallons per minute). The existing well is 303 feet deep and located in the SW¼ SE¼ Section 12, T1S-R6E. This application proposes to use the water for domestic use and fire protection.

AQUIFER: Precambrian aged Crystalline Rock (CRSL)

Geology and Aquifer Characteristics:

The well this application proposes to use is essentially located on the Precambrian/ Deadwood Formation contact. The well log submitted identifies 35 feet of light brown to reddish brown sandstone and limestone, (inferred as the Deadwood Formation), overlying Quartz and Schist. In this area, the beds are tilted nearly on edge with generally a northwest-southeast strike and an easterly dip (Lester and Rahn, 2001). The Precambrian rock in this area consists primarily of phyllite and schist (Lester and Rahn, 2001). The rock types present are all crystalline and make up what can be considered a single hydrologic unit. The crystalline rocks themselves are relatively impermeable, and groundwater is derived primarily through joints, fractures and foliation within the rock. The distribution, orientation and interconnection of these zones of secondary porosity and permeability are unpredictable, and the aquifer characteristics are site specific and highly variable. There is fracturing and faulting in the area. The Stratosphere Fault a north-south trending fault, downthrown approximately 160 feet on the east side (Lester and Rahn, 2006), occurs within one quarter mile east of the well that this application proposes as a source. A smaller fault has also been mapped just to the east of this well site (Lester and Rahn, 2006). A metagabbro sill has intruded the metamorphosed sedimentary rocks within a quarter mile west of this well site (Lester and Rahn, 2006). The faults, intrusives, the orientation of the beds, and lithologic changes within the beds may all serve as local aquitards. The aquifer (crystalline rock), which is exposed at the surface throughout this area is under unconfined conditions, and the static water level of this well was reported to be 128 feet below ground surface on October 19, 2012.

The well completion report submitted with this application indicates the well was constructed in accordance with the SD Well Construction Standards. The report indicates the well produced 100 gallons per minute when developed with air.

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 reasonable probability that there is unappropriated water available for the applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and existing rights from the aquifer.

WATER AVAILABILITY:

This application proposes to appropriate water from the Precambrian aged Crystalline Rock aquifer. If this application is approved, average water use will likely be less than 50 acre-feet annually (ac-ft/yr). The probability of unappropriated water available from an aquifer can be evaluated by considering SDCL 46-6-3.1 which requires “No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable 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 or lower than the Greenhorn Formation and the water is to be used by a water distribution system, the Board need not consider the recharge/withdrawal issue. Here, although the aquifer is older or lower than the Greenhorn Formation, a water distribution system is not involved, therefore the withdrawal/recharge issue must be considered.

In applying SDCL 46-6-3.1, the Sixth Judicial Circuit Court ruled in 2005 that if the Water Management Board uses average annual recharge, then it should also use average annual withdrawals to determine if unappropriated water is available from the aquifer (*Hines v. South Dakota Dept. of Environ. and Nat'l. Resources, Hughes County 04-37*) (Memorandum Decision, April 29, 2005).

A 2012 First Judicial Circuit Court’s rulings basically stated that data must be presented to show it is probable the average annual recharge exceeds the average annual discharge by at least the amount requested by the water permit application being considered (*Hanson County Dairy v. Robert Bender and Stace Nelson*) (Memorandum Decision, April 11, 2012).

Later in 2012, the First Judicial Circuit Court stated that the determination whether or not it is probable that the quantity of water withdrawn will exceed the quantity of the average estimated annual recharge is to be based on to the best information reasonably available, and that nothing in South Dakota law requires a recharge study (*Longview Farms, LLP v. South Dakota Dept. of Environ. and Nat'l. Resources*), (Memorandum Decision, May 17, 2012).

Hydrologic Budget:

Discharge from the Precambrian aged Crystalline Rock aquifer is through well withdrawals, evapotranspiration, and discharge to area streams when the water level of the aquifer is higher than the stage of a stream. Recharge to the aquifer occurs through infiltration of precipitation on the surface of the crystalline rock and from streamflow losses that occur when the stage of a stream is higher than the groundwater level. At this time, the amount of recharge to, and withdrawal from the aquifer have not been determined, and it is not possible to quantify the volume of water that recharge exceeds withdrawal.

The Water Rights Program does not monitor any observation wells completed into the crystalline aquifer in this immediate area. The nearest observation well completed into this aquifer is located in Custer, about 18 miles southwest of this site. A hydrograph of the well data is shown in Figure 1. The aquifer in this area should behave similarly to the aquifer in the Custer area, and the data provides representative general characteristics of the aquifer.

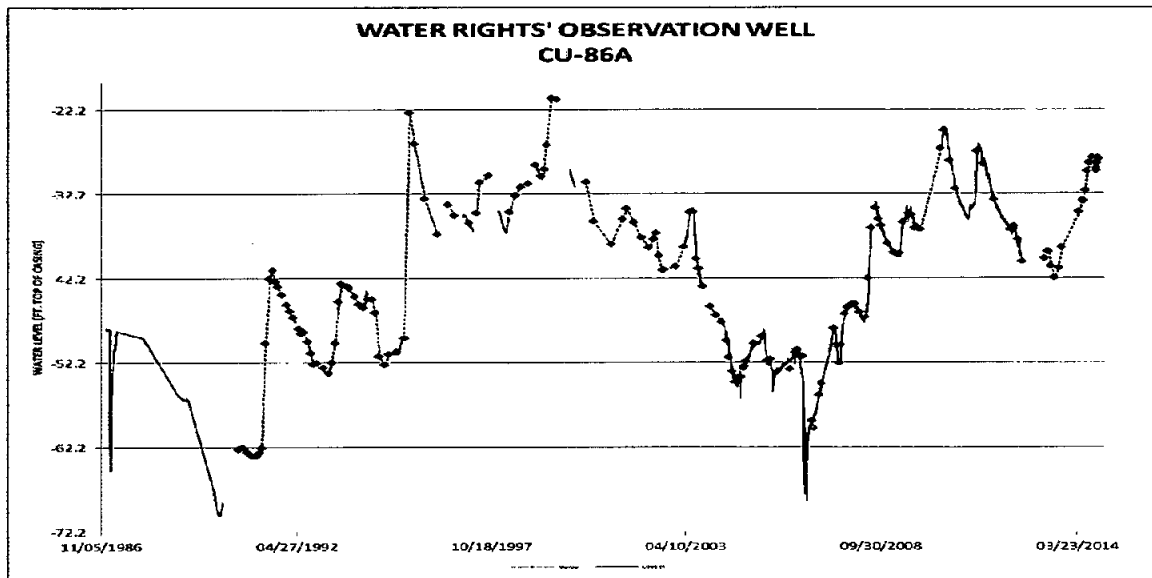


Figure 1. Hydrograph of Water Rights Observation Well Completed into the crystalline aquifer located approximately 18 miles southwest of this well site.

The water table in the observation well fluctuates approximately 50 feet, primarily in response to climatic conditions with rising levels in wet periods and declining levels in dry years. The hydrograph documents that there is currently more water in storage now than at the beginning of the period of record. The climatic conditions mask temporal effects of pumping; therefore recharge and natural discharge exceed pumping. Since natural discharge is available for “capture” by well withdrawals, unappropriated water is available for this proposed appropriation.

REVIEW OF EXISTING WATER RIGHTS:

Wells west of a north-south line running approximately one-quarter mile east of the well site proposed by this application will likely be completed into the crystalline rock aquifer. Wells to the east of that line will likely be completed into younger strata. The geologic unconformity between the Precambrian and younger rocks may provide some degree of hydraulic separation between the two aquifers. In addition, since the Stratobowl Fault can be considered a hydrologic barrier, wells to the east of the line are not expected to be affected by pumping to the west of the fault. The nearest wells supplying water rights/permits from the Precambrian Crystalline Rock aquifer are located at approximately one mile southwest of this well site.

Since the porosity of the Crystalline aquifer is small, 0.03-0.10 (Driscoll and others, 2002), drawdown from a pumped well or wells, may extend over a fairly widespread area. Given the distance to existing appropriative rights and the relatively low pump rate proposed by this application (45 gpm), interference should not be significant to other area wells.

ARSD 74:02:04:20(6) defines an adequate well as a well constructed to allow the inlet to the pump to be placed not less than 20 feet into the saturated aquifer. An adversely impacted domestic well is defined by 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 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. Since the porosity of the Crystalline aquifer is low, 20 feet of saturated thickness may not be sufficient for a well to be a reliable water supply. In other words, in this hydrogeologic setting, wells that are "adequate" by definition may not be reliable water supplies. Under these circumstances it can be argued that, any measurable interference (drawdown), from a competing well is actually an adverse impact. However, with natural water level fluctuations in this aquifer measured in excess of 50' at the Water Rights' Observation well; well interference of a few feet could be considered insignificant.

CONCLUSIONS:

1. Water Permit Application No. 2731-2 proposes to appropriate water from the Precambrian aged Crystalline Rock aquifer at a maximum diversion rate of 45 gallons per minute.
2. The Precambrian aged Crystalline Rock is a viable aquifer in this area.
3. There is a reasonable probability that unappropriated water is available from the Precambrian Crystalline aquifer for this appropriation.
4. The aquifer is unconfined and interference is not expected to be a concern.



KEN BUHLER
SD DENR-Water Rights Program

REFERENCES:

- Driscoll, D.G., Carter J.M., Williamson, J.E., and Putnam, L.D., 2002, Hydrology of the Black Hills Area, South Dakota: U.S. Geological Survey Water-Resources Investigations Report 02-4094, 1503 p.
- Lester, J.L., Rahn, P.H., 2001, Geologic Map of the Rockerville Quadrangle, South Dakota, S.D. Department of Environment and Natural Resources- Geological Survey 7.5 Minute Series Geologic Quadrangle Map 3, Scale 1:24000
- Water Rights, 2014a, Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2014b, Water Right/Permit Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2014c, Water Well Completion Report Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Affidavit of Publication

RECEIVED

JAN 02 2015

WATER RIGHTS
PROGRAM

STATE OF SOUTH DAKOTA

County of Pennington

SS:

Dec. 18
L20909930

NOTICE OF APPLICATION

NO. 2731-2 to Appropriate Water

Notice is given that Jeffrey A. or Kristi Hoffman, 13655 Silver

Fox Spur, Rapid City SD 57702 have filed an application for a water permit to appropriate 0.10 cubic feet of water per second (45 gallons per minute) from one well completed into the Precambrian aged Crystalline Rock (303 feet deep) located in the SW 1/4 SE 1/4 Section 12-T1S-R6E for domestic and fire protection use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2731-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on 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 29, 2014.

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. Information concerning this application is available at <http://denr.sd.gov/public>. 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 \$53.76).

Robert Evans 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 eighteenth day of December that the fees charged for the publication there of are fifty three dollars and seventy six cents.

Robert J. Evans

Subscribed and sworn to before me this eighteenth day of December, 2014.

Dustin Rice

Notary public

DUSTIN RICE

My Commission Expires
July 1, 2020



NOTARY PUBLIC
SOUTH DAKOTA



My commission expires



DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES

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



December 10, 2014

Rapid City Journal
PO Box 450
Rapid City SD 57701

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 2731-2 to Appropriate Water. Please publish the notice once on December 18, 2014. 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 Jeffrey A or Kristi Hoffman, 13655 Silver Fox Spur, Rapid City SD 57702 (Ph # 605-348-4870).

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

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 NEWSPAPER(S) RIGHT AWAY.**

December 10, 2014

Jeffrey A or Kristi Hoffman
13655 Silver Fox Spur
Rapid City SD 57702

Dear Sir or Madam:

Water Permit Application No. 2731-2 for domestic use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Rapid City Journal printed at Rapid City SD (Ph # 605-394-8300). You will need to contact the newspaper(s) and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352
enclosures

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

Instruction to Newspaper - Publish the Notice on December 18, 2014. 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. 2731-2 to Appropriate Water

Notice is given that Jeffrey A or Kristi Hoffman, 13655 Silver Fox Spur, Rapid City SD 57702 have filed an application for a water permit to appropriate 0.10 cubic feet of water per second (45 gallons per minute) from one well completed into the Precambrian aged Crystalline Rock (303 feet deep) located in the SW 1/4 SE 1/4 Section 12-T1S-R6E for domestic and fire protection use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2731-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on 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 29, 2014.

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. Information concerning this application is available at <http://denr.sd.gov/public>. 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

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

denr.sd.gov

JAN 22 2015

Jeffery A or Kristi Hoffman
13655 Silver Fox Spur
Rapid City SD 57702

Dear Sir:

Enclosed is Water Permit No. 2731-2 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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. 2731-2

I have this day, May 16, 2019 made a thorough examination of the water use system constructed by **Jeffrey and Kristi Hoffman, 13574 S. Highway 16, Rapid City, SD 57702** of Permit No. **2731-2**, bearing the priority of **10/27/2014** authorizing the diversion of 0.1 cu. ft. per second of the water from one well for domestic use and fire protection purposes, in Pennington County.

Inspection contact & relationship to permit holder, if applicable: **Jeffrey Hoffman, owner**
Kristi Hoffmans cell # is 605-484-1956

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Taylor Drilling (2012)
- 2) No. of Wells 1
- 3) Depth(s) 303 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 7"
- 2) Length 162 feet (+2' - 160')
- 3) Type Steel

Screen:

- 1) Type open hole
- 2) Length 143 feet
- 3) Static water level 128 feet

Pump:

- 1) Make Grundfos
- 2) Model 45S50-12 (set @ 260')
- 3) Size 4"
- 4) Capacity 45 GPM (40/60 pressure switch setting)
- 5) Horsepower rating 3 hp

Note: The well was air tested at 100 gpm with water level @ 300 ft. after 2 hrs.

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

From the pump house located adjacent to the well, water is pump through 2" PVC approximately 830' to twin 2,500 gallon concrete reservoirs. Booster pumps then deliver water to the house and garage. Additional piping provides water to the fire hydrant and garden area.

C. Works used to apply water to beneficial use:

The well serves the house, garage and shop, a garden area and a fire hydrant.

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by: Yes,
- 2) Exceptions to compliance are: none

E. Condition and Location:

1. The system is in good condition with the point of diversion located as follows:
112' N and 1,984' W of the SE corner Section 12 T1S R6E (43.970201, -103.345726)
2. The works are capable of diverting and conveying to the place of use 0.1 cu. ft. per second (45 gpm) of water which is to be used for **domestic use** and **fire protection** and the license should be issued for 0.1 cfs.
3. All structures, wells and lands on map: **No, well and reservoirs only**

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



Steven Quissell
Water Rights Inspector
DENR, Water Rights Program

Date report completed: May 17, 2019

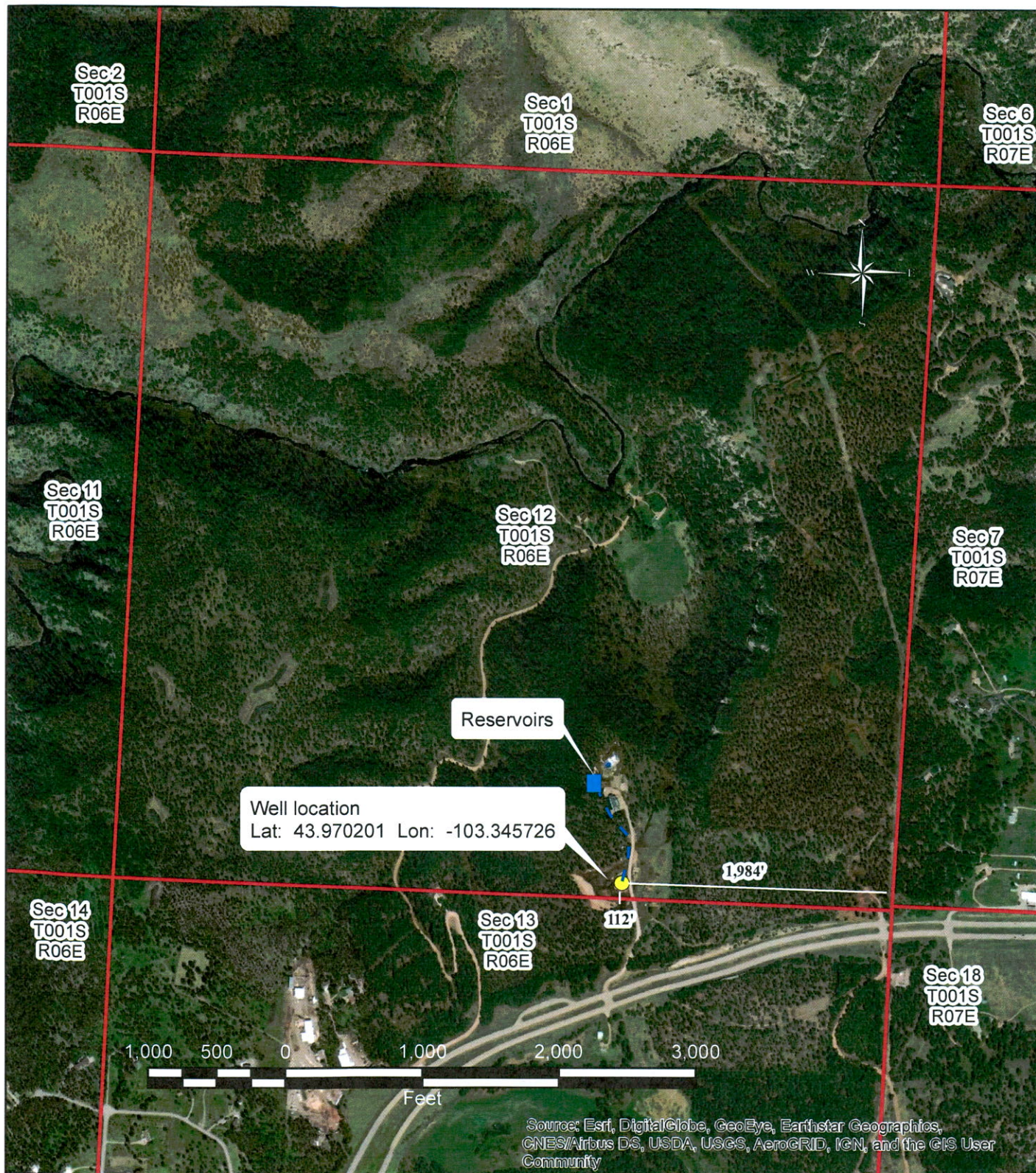


Well and pump house



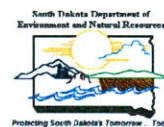
Pump house plumbing and controls

Water Right #2731-2
Jerry Hoffman
5/16/2019



Steven Quissell

Steven Quissell
Water Rights Inspector
DENR Water Rights Program



McMath, Genny

From: Quissell, Steve (Seasonal)
Sent: Friday, May 17, 2019 1:14 PM
To: Gronlund, Eric
Cc: McMath, Genny
Subject: Jeffrey Hoffman #2731-2
Attachments: Jerry_Hoffman_2731-2_EOW.docm; Jerry_Hoffman_2731-2.pdf

Attached is the EOW and arc.pdf for Jeffrey and Kristi Hoffman. **Please note: The mailing address for Hoffman's for licensing should be 13655 Silver Fox Spur, Rapid City SD, 57702.** This address will be correct until mid-year 2020, after which the mailing address will be the physical address of the well and as shown on the EOW which is 13574 S. Hyway 16, Rapid City, 57702.

Steve Quissell
Water Rights Inspector
SD DENR, Water Rights Program
(605) 394-2229
denr.sd.gov





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
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<http://denr.sd.gov>

MAY 24 2019

2731-2

Jeffrey A or Kristi Hoffman
13655 Silver Fox Spur
Rapid City SD 57702

Dear Mr. & Mrs. Hoffman:

Enclosed is Water License No. 2731-2. 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, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2731-2

(1) Jeffrey A or Kristi Hoffman, 13655 Silver Fox Spur, Rapid City SD 57702 made Application No. 2731-2, October 27, 2014 for a water permit to divert 0.10 cubic feet of water per second (45 gallons per minute) from ground water, one well (Precambrian aged Crystalline Rock), Pennington County, South Dakota for domestic use and fire protection purposes. Permit No. 2731-2, with a priority date of October 27, 2014 was approved December 29, 2014 and issued to the applicants for diversion of water with construction of the described water supply system to be completed on or before December 29, 2019 and for the application to beneficial use of water on or before December 29, 2023.

(2) It is certified that the permit holders have complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and are entitled to divert 0.10 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 112°N and 1,984°W of the SE corner of Section 12, T1S, R6E (SW ¼ SE ¼)
Latitude 43.970201, Longitude -103.345726

(3) The permit holders have 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 Jeffrey A or Kristi Hoffman, 13655 Silver Fox Spur, Rapid City SD 57702 the holders and/or owners of Water Right No. 2731-2 are issued a license to appropriate water, the right to use 0.10 cubic feet of water per second (45 gallons per minute) from ground water, one well (Precambrian aged Crystalline Rock) with a priority date of October 27, 2014 from the location specified in (2) of this license for domestic use and fire protection purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 2731-2 and subject to the following qualifications:

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



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

MAY 24 2019
date

