

WATER PERMIT NO. 2630-2

Name of Applicant: **Ruth Ziolkowski**

Address: **12151 Ave of the Chiefs, Crazy Horse Memorial SD 57730**

Phone: **605 673-4681**

Amount of Water Claimed: **0.167 cfs**

Total Acres: **NA**

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

Water to be used for: **commercial use**

County: **Custer**

Type of Waste Disposal System:

Location: **Crazy Horse Memorial**

PRIORITY Date Received: **3-26-08**

Application/License Fee: **\$200**

Corrected Application Received: **4-1-08**

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

Remarks:

Diversion Point: **SW ¼ NW ¼ Sec 10-T3S-R4E**

Land to be Irrigated: **NA**

Depth of Well: **100 feet deep**

Well Driller: : **Hamm Drilling**

Remarks:

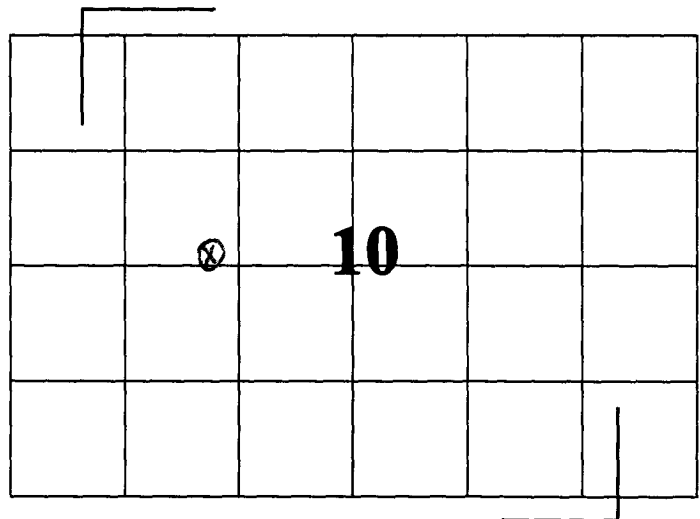
Type of Map: **plat**

Prepared by: **Mitchell B Kertzman, PE**

Reviewed and the Number Assigned on: **4-1-08**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>2630-2</u> (office use only) Hydrologic Unit <u>10120109</u>
	Basin <u>Upper Cheyenne</u>
	Newspaper <u>Custer Co. Chronicle PO Box 551</u>
	<u>605-673-2217</u> <u>57730</u>

RECEIVED
MAR 26 2008
WATER RIGHTS
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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 <u>CRAZY HORSE MONUMENT FACILITIES</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.)

- Name of Applicant RUTH ZIOLKOWSKI - CEO and President Phone 605.673.4681
(check one) ☐ Owner ☐ Tenant/lessee
Mailing Address 12151 AVENUE OF THE CHIEFS, CRAZY HORSE MEMORIAL, S.D. State S.D.
(Street, RR, or Box and City) 57730-9506 (Zip Code) 8900
- Amount of water claimed 0.167 *CFS or 75 **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 PRECAMBRIAN ~ 100' BELOW GROUND
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County CUSTER Co.
SW 1/4 NW 1/4 SECTION 10 T3S R4E
- County or counties where water will be used CUSTER Co.
- Annual period during which water is to be used YEAR-ROUND Jan 1 - Dec 31
- 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)
- SEE ATTACHED CONCEPTUAL ENGINEERING REPORT.
- SEE ATTACHED CONCEPTUAL SYSTEM LAYOUT.
- SEE ATTACHED TEST WELL COMPLETION REPORT.

STATE OF SOUTH DAKOTA) SS
County of _____

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

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

Applicant's signature

Ruth Ziolkowski

Subscribed and sworn to before me this 25th day of February 20 08

John Zschultz

Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 2630-2**

Date of first receipt of application March 26, 2008.

Date of return to applicant for corrections, amendments or changes March 26, 2008.

Date of receipt of corrected application April 1, 2008.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2630-2 to Ruth Ziolkowski, 12151 Ave of the Chiefs, Crazy Horse Memorial SD 57730 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. 2630-2 appropriates 0.167 cubic feet of water per second from one well completed into the Crystalline Rock (100 feet deep) located in SW ¼ NW ¼ Section 10-T3S-R4E.
2. The water appropriated shall be used for the purpose of commercial 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. 2630-2 is June 9, 2008.
5. The date from which applicant may claim right is March 26, 2008.
6. One-fifth of the construction is to be completed on or before December 9, 2010.
7. All construction is to be completed on or before June 9, 2013.
8. Water is to be put to beneficial use on or before June 9, 2017.
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 Crazy Horse Memorial shall report annual water use to the Department of Environment and Natural Resources, Water Rights Program.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

JUN 27 2008

date



(type or print in ink)

1. Well Information - Proposed Construction — *TEST WELL INFORMATION: APPROXIMATE - FROM HAMM DRILLING, HILL CITY, S.D.*

- a) Drill Hole Diameter 6" Depth 100'
- b) Casing Type PVC-30' Diameter 6" I.D. Thickness 1/4" +
- c) Screen Type — Diameter — Thickness —
- d) Gravel Pack — Length of Gravel Pack —
- e) Depth to Top of Water Bearing Material NEAR SURFACE
- f) Depth to Water (ground surface to water level) ARTESIAN - CURRENTLY CAPPED
- g) Distance to nearest existing domestic well:
- On applicants property 2520' On property owned by others —

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) SEPTIC TANK + DRAINFIELD - MULTIPLE SITES
- b) System Capacity (gallons) * 8,120 GPD TOTAL Year Constructed 1999
- c) Connected to the City of N/A Sanitary System

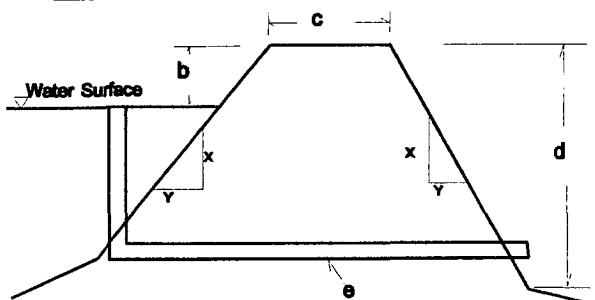
3. Dugout Information N/A

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

4. Water Storage Dams N/A

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

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



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

*2b: * 3120 GPD SYSTEM + 5000 GPD SYSTEM*

RENNER ASSOCIATES, LLC.

616 Sixth Street, Rapid City, South Dakota 57701 - 605 -721-7310
fax 605-721-7313 cell 605-381-2808 Gary@RennerAssoc.Com
Mitch@RennerAssoc.Com Spearfish Office 605-717-0016

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MAR 23 2008

WATER RIGHTS
PROGRAM

CRAZY HORSE MONUMENT WATER SYSTEM CONCEPTUAL DESIGN SUMMARY AND APPLICATION TO APPROPRIATE WATER

Submitted To

Water Rights Program
Department of Environment and Natural Resources
Attn: Eric Gronlund
Joe Foss Building
523 East Capitol Avenue
Pierre, SD 57501-3182

By

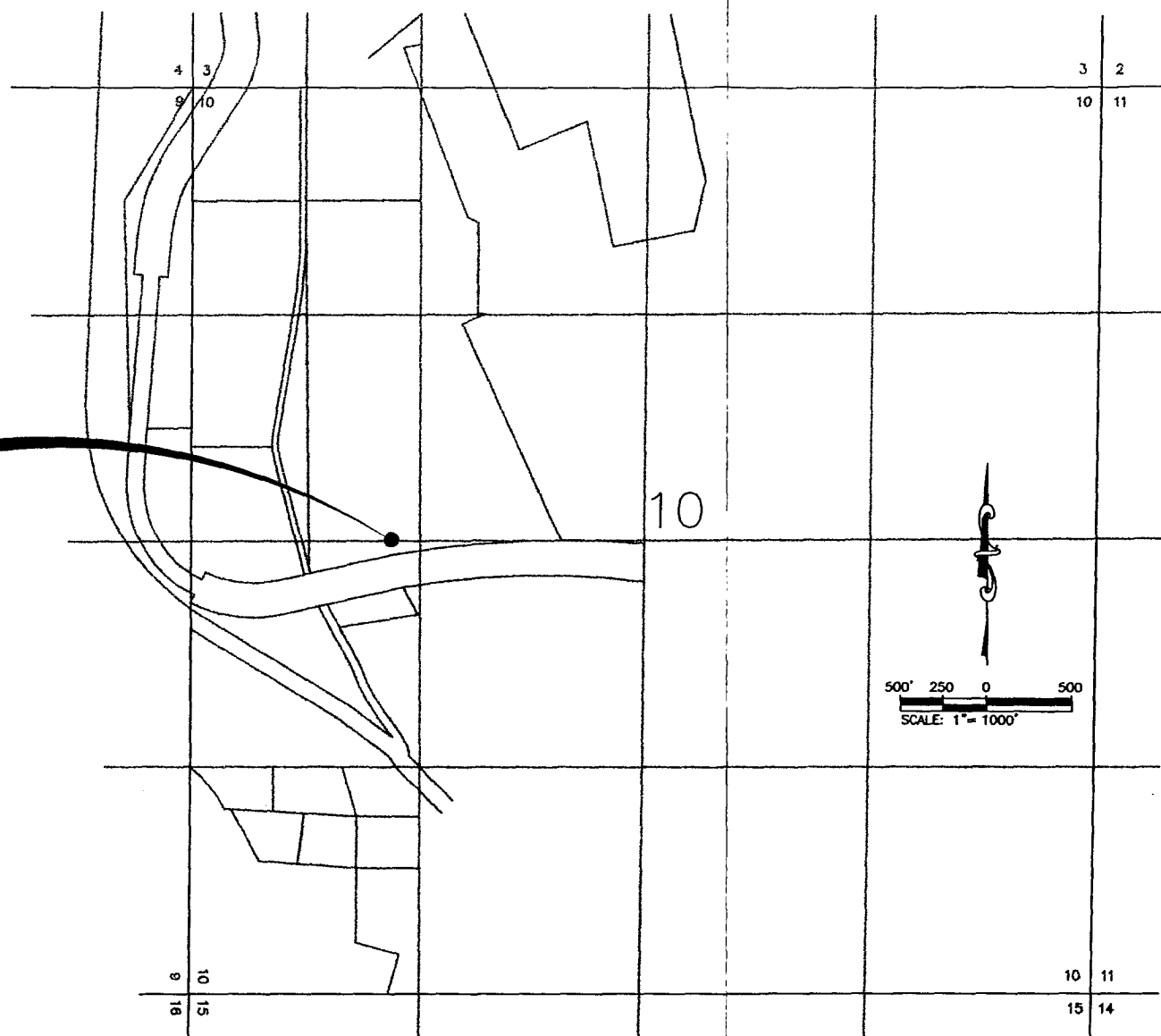
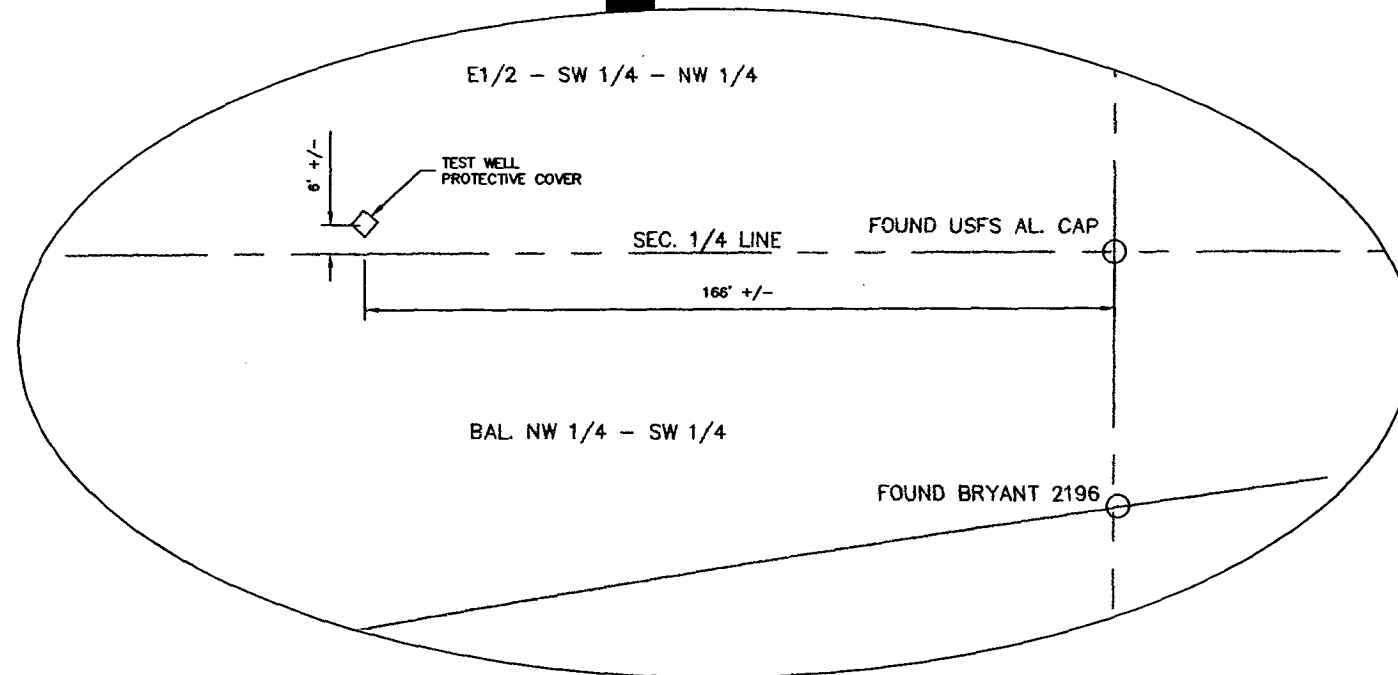
Renner and Associates, LLC
616 6th Street
Rapid City, SD 57701

For

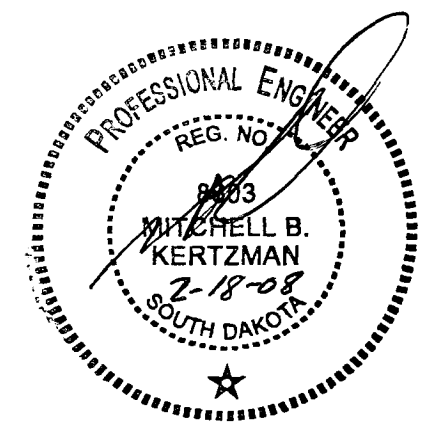
Ruth Ziolkowski,
CEO And ~~Chairman~~ *President*
Crazy Horse Memorial Foundation
12151 Avenue of the Chiefs,
Crazy Horse Memorial, SD 57730-9506

January, 2008

Civil Engineering – Commercial and Residential Site Design – Municipal Engineering Services
Design – Civil Design – Drainage Design & Flood Control
Water Resources Design



WELL LOCATION FROM NEAREST SECTION CORNER:
 APPROXIMATELY 2638' SOUTH AND 1155' EAST OF THE
 NW CORNER OF SECTION 10, T3S, R4E, BHM, CUSTER
 COUNTY, SD. WELL LIES IN THE SW $\frac{1}{4}$ - NW $\frac{1}{4}$.



Renner & Associates, LLC.

616 5th St. • Rapid City, SD 57701 • 605/721-7310

FAX: 605/721-7313 • E-MAIL: gary@rennerassoc.com

Specialist Office: 605/717-0016

Prepared By:

Scale: AS SHOWN

Designed By: N/A	Drawn By: MBK
Design Date: N/A	Print Date: 2-17-08
Surveyed By: TJ	Survey Date: 2-21-08

Revisions:

CRAZY HORSE MONUMENT

WELL LOCATED IN THE SW $\frac{1}{4}$ - NW $\frac{1}{4}$

T3S, R4E, BHM

CUSTER COUNTY, SOUTH DAKOTA

LOCATION

Prepared For:

RUTH ZIOLKOWSKI
 CRAZY HORSE MOUNTAIN
 SOUTH DAKOTA 57730

Internal Job No:
 #2069.05

Sheet Title:
 WELL
 LOCATION
 DIAGRAM

Sheet: **1 of 1**

PROFESSIONAL ENGINEER

REG. NO. 8483

MITCHELL B. KERTZMAN

2-18-08

SOUTH DAKOTA

07-92

Date: July 27, 2001

FOREWORD

This document is prepared to summarize the current configuration and estimated future potable water needs at the Monument facilities. Existing water infrastructure is generally described, as well as forecasted water demands, and a brief, general description of the proposed system upgrade and integration.

A more comprehensive, detailed report will be generated along with detailed design drawings at time of submittal for SDDENR Water System Plans Review.

1. BRIEF CONCEPTUAL DESIGN SUMMARY

1.1. Existing Water Infrastructure

- 1.1.1. The existing Visitor Center Complex (el. 5920 msl-NGVD 29) is served by an existing well, treatment house, and below-ground 110,000 gallon concrete reservoir at 6120 msl-ground. The reservoir is connected to the complex with a 6" water main, with a 6" loop serving the complex and parking area. Static pressure at the complex is reported to be approximately 75 psi, with fire hydrants located at the major corners of the loop around the complex. The highest peak day water use registered at the Memorial is 20,000 gallons, from a well that is connected to the system via a treatment house designed by Culligan, maintained and operated by Memorial Staff. It is reported that there is currently one SD Licensed Operator on staff at the Memorial.
- 1.1.2. Residences, as well as Heritage Village, are supplied by several shallow wells, all producing within the range of five to ten gallons per minute. Water Quality from these wells is unknown as of this writing.
- 1.1.3. There is a capped, artesian well of 100' depth at the south end of the complex, approximately 1.5 miles south of the existing water infrastructure. This test well was completed by Hamm Drilling in July of 2007, with a reported estimated yield of 75 gpm, and with "good quality". No known water quality testing has yet been completed on the well. A copy of the test well Completion Report is included.

1.2. Proposed Construction – Near Future

- 1.2.1. The proposed Tasunke Witko Dormitory (el. 5760) will initially house 40 people and will have sprinkler fire protection. To utilize the existing nearby shallow, low-yield wells, a storage facility and boost pumps would need to be installed and maintained for the fire fighting apparatus, with water softening and treatment equipment likely. Any other future construction would also require this equipment investment to be repeated. This dormitory will require approximately 3500 gpd for the initial capacity, and 7000 gpd for future expansion of the facility.

1.3. Proposed Construction – Long Term

- 1.3.1. There will certainly be additional dormitory/camping/institutional uses in the future. No definitive plans are known. Given the available land and topography, it is conceivable that an additional supply of 5x the dormitory will ultimately be needed, in one form or another.

1.4. Water System Expansion to Meet Ultimate Needs

- 1.4.1. By connecting the test well to the existing 6" loop and reservoir, the entire complex can be served with gravity service, utilizing the existing concrete reservoir. Please refer to the included conceptual graphic outlining existing and proposed water infrastructure facilities. By utilizing the existing gravity tank, the entire complex can be supplied with water at pressures ranging from 75 to 150 psi in the main.

- 1.4.1.1. Existing fire fighting capability is 900 gpm for two hours. There is space available at the tank site to double the storage capacity to provide for the municipal standard 1500 gpm for two hours. Doubling the tank storage capacity is not part of the near-future water system expansion plans, but demonstrates the capability.
- 1.4.1.2. Ultimate Water demand, roughly estimated, would then be $20,000 + 7000 + 7000(5) = 62,000$ gpd, considered peak day. This would require a source delivering 18 gpm minimum. The test well promises to provide this flow, with considerable reserve capacity. The capacity of the existing well is not known at this time.
- 1.4.1.3. Treatment facilities for the proposed source are currently being estimated by Culligan of Rapid City, beginning with a water sample provided on Jan 31, 2008. It is assumed that a standard sized treatment house with iron sequestering and chlorination will be needed, along with any other required treatment.

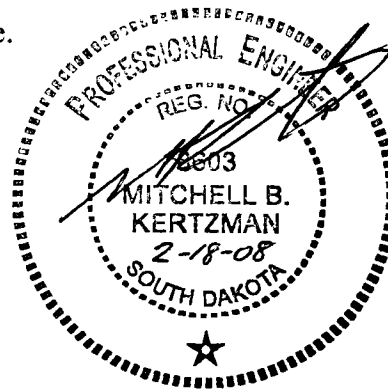
The above brief, conceptual narrative is by no means a comprehensive design report, but outlines the need for, and feasibility of the proposed groundwater source. This information is intended to accompany and augment the *Application for Permit to Appropriate Water within the State of South Dakota*.

Please feel free to call with any questions, any time.

Sincerely,



Renner Associates, LLC
Mitchell B. Kertzman, PE



Cc: Ruth Ziolkowski – Chairperson of the Board of Directors, Crazy Horse Memorial Foundation

Attached: 22x34 Conceptual System Layout
Well Completion Report
Well Head Location Diagram
Application to Appropriate Water
\$1500 APPLICATION FEE MBK

07-92

Date: July 27, 2001

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 3/26, 20 08

RECEIVED OF Crazy Horse Memorial Foundation 12151 Avenue of the Chiefs Crazy Horse SD

57730

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

Fee for Application for Permit No. <u>2630-S</u> to Appropriate Water, to construct and to put water to beneficial use	150	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form _____		
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	150 00

No.

57730

By

Harold Entele

Chief Engineer

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 4/1, 20 08

RECEIVED OF Renner & Associates 616 6th St Rapid City SD 57701 (Crazy Horse)

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>2630-2</u>		
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	50 00

No.

35-6

By

[Signature]

Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 26, 2008

Mitchell B Kertzman, PE
Renner Associates LLC
616 6th St
Rapid City SD 57701

RE: Application for Ruth Ziolkowski

Dear Mr. Kertzman:

Thank you for submitting the *Application for a Permit to Appropriate Water* on behalf of Ruth Ziolkowski. In order to complete the application the following is required.

- We have received the \$150 application filing fee. In addition to the application filing fee, the Water Rights Program collects the \$50 licensing fee at the time of filing. Please submit \$50 for the licensing of the water permit.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

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

RENNER & ASSOCIATES L.L.C.

616 SIXTH STREET * RAPID CITY, SOUTH DAKOTA 57701 * 605/721-7310

FAX: 605/721-7313 * E-MAIL: Mitch@RennerAssoc.com

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APR 1 2008

WATER RIGHTS
PROGRAM

LETTER OF TRANSMITTAL

TO:

Karen Schlaak
SDDENR Water Rights Program
503 E. Capitol
Pierre, SD 57501

DATE:	3/31/2008	2069.05
ATTN:	Karen	
RE:	Crazy Horse Facilities and Complex Water	
	Crazy Horse Mountain, Custer County, SD	

WE ARE SENDING YOU:

# COPIES	DATE	DESCRIPTION
1	3-31-08	Check for \$50.00 - Licence Fee
		(in addition to the \$150.00 application fee previously submitted)

For Review _____ Final Submittal _____ For Your Use XX _____ As Requested _____
Other: File copies for your records _____

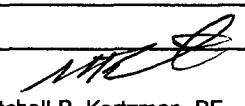
REMARKS:

Karen - this is for the Water Right Application for Crazy Horse Mountain. Please let me know if you need any other information.

CAN YOU DROP ME AN E-MAIL WHEN YOU GET THIS?

CC: Ruth Ziolkowski - COE, Chairman, Crazy Horse

SIGNED:


Mitchell B. Kertzman, PE 209-5992

IF YOU DO NOT RECEIVE THIS TRANSMITTAL IN ITS ENTIRETY,
PLEASE NOTIFY US AT ONCE. THANK YOU.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2630-2, Ruth Ziolkowski**

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. 2630-2, Ruth Ziolkowski, 12151 Avenue of Chiefs, Crazy Horse Memorial SD 57730.

The Chief Engineer is recommending APPROVAL of Application No. 2628-2 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:

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 Crazy Horse Memorial shall report annual water use to the Department of Environment and Natural Resources, Water Rights Program.

See report on application for additional information.

Garland Erbele, Chief Engineer
May 13, 2008

Report on Application for Water Right
Permit No. 2630-2
Ruth Ziolkowski
12151 Avenue of the Chiefs
Crazy Horse Memorial, SD. 57730

Water Permit Application No. 2630-2 seeks to appropriate 0.167 cubic feet per second of water from one well completed to the Precambrian Rock for commercial purposes. This well has been constructed and is located at SW ¼ NW ¼ Section 10 Township 3 South Range 4 East on the grounds of the Crazy Horse Memorial in Custer County South Dakota.

Water Source – Crystalline Rock (CRSL)

The crystalline rock in the area that this permit is being sought is mostly pre-Cambrian aged quartz-mica schist with some granite intrusions (Carter, et al. 2003). The crystalline rock is exposed at the ground surface. Ground water is introduced into the rock formation through bedding planes, fractures, and joints. The orientation, frequency and inter-connectivity of these joints and fractures are unpredictable and specific to each location.

Water Availability

The well that has been constructed at the site is under artesian conditions and is flowing at the ground surface with a shut in pressure of 8 psi and it flows at an estimated 20 gallons per minute through a 1 inch pipe. Figure 1 is the hydrograph of an observation well completed to the Crystalline Rock aquifer and is located approximately 3 mile south east of the requested diversion site. The hydrograph shows that the water level in this aquifer typically responds to climatic conditions.

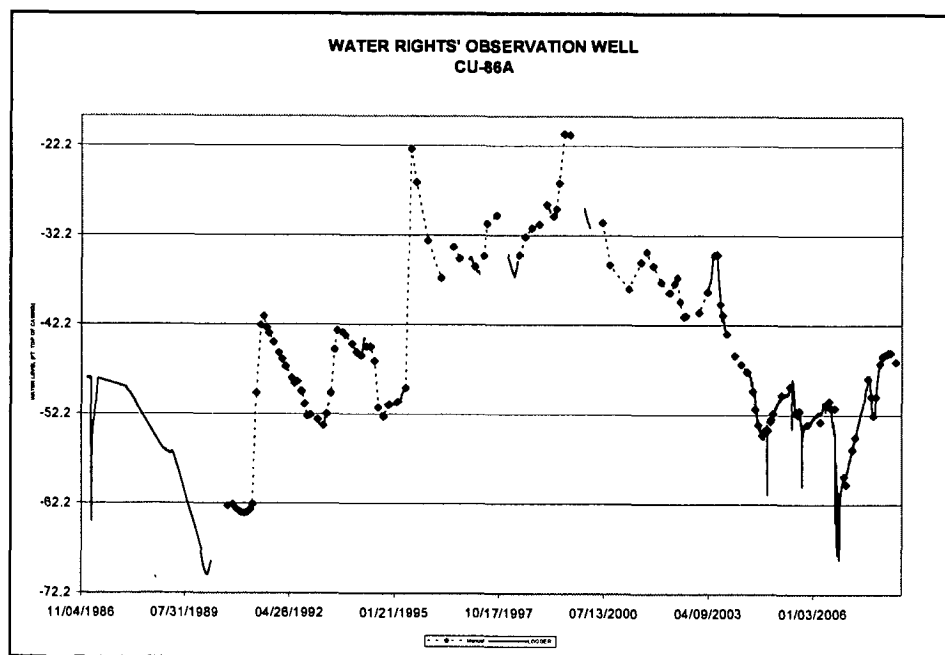


Figure 1: Monitoring well

Existing Water Rights

There are four existing water rights within a 3 mile radius of the proposed site; table 1. The water rights program data base also shows that there are several domestic wells in the vicinity of the requested permit. Drawdown is not likely to extend far from a well completed to the Crystalline Rock and interference should not be a problem.

Table 1: Existing water rights

Permit No.	Name	Amount (cfs)
2620-2	Hellwig Heritage	0.022
2326-2	Village	0.033
2227-2	Ziolkowski	0.155
2228-2	Ziolkowski	0.042

Conclusions

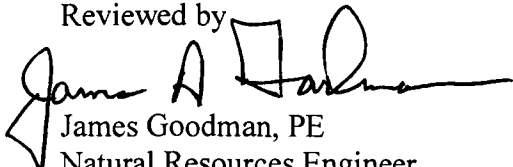
1. The well referred to in this application has been constructed in accordance with South Dakota well construction standards.
2. Although most of the Crystalline Rock in this area will provide wells under water table conditions this particular well is artesian and flowing.
3. The Crystalline Rock is a viable aquifer in the area of the requested permit.
4. Draw down from a well completed to the Crystalline Rock aquifer should not extend far and interference with adequate domestic wells and prior water rights is not expected to be a problem.

Prepared by



Mark Costello
Natural Resources Engineer
Water Rights

Reviewed by



James Goodman, PE
Natural Resources Engineer
Water Rights

Bibliography

Carter, J.M., Driscoll, D.G. *Ground Water Resources in the Black Hills Area, South Dakota*. 2003. WRI Report 03-4049. USGS Rapid City, SD. 57702.

SD DENR. Water Rights data base. *Water Rights*. Pierre, SD. 57501

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JUN - 2 2008

WATER RIGHTS
PROGRAM

Affidavit of Publication

State of South Dakota)

)ss.

County of Custer)

Charles W. Najacht of said county, being duly sworn, on oath says that he is publisher of the Custer County Chronicle, a weekly newspaper printed and published in Custer City, said County of Custer and has full and personal knowledge of all the facts herein stated; that said newspaper is a legal newspaper and has a bona-fide circulation of at least two hundred copies weekly, and has been published within said County for fifty-two successive weeks next prior to the publication of the notice herein, mentioned, and was and is printed wholly or in part in an office maintained at said place of publication: that the

Crazy Horse Memorial
Notice of Application

a printed copy of which, taken from the paper in which the same was published, is attached to this sheet, and is made a part of this Affidavit, was published in said newspaper at least once each week for 2 successive week(s), on which said newspaper was regularly published, to wit:

May 21, 2008; May 28, 2008;

_____, _____; _____, _____;

_____, _____; _____, _____;

_____, _____; _____, _____;

the full amount of the fees for the publication of the annexed notice is \$ 38.16

Charles W. Najacht

Subscribed and sworn to me before this 28

of May, 2008;

Norma Najacht

NOTARY PUBLIC

MY COMMISSION EXPIRES: May 15, 2012

NOTICE OF APPLICATION

NO. 2630-2 TO APPROPRIATE WATER

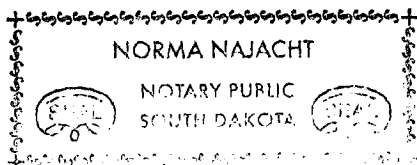
Notice is given that Ruth Ziolkowski, 12151 Avenue of the Chiefs, Crazy Horse Memorial SD 57730 has filed an application for a water permit to appropriate 0.167 cubic feet of water per second from one well completed into the Crystalline Rock (100 feet deep) located in SW 1/4 NW 1/4 Section 10-T3S-R4E for commercial use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2630-2 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 June 9, 2008.

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

#157, 5/21, 5/28





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

May 14, 2008

Custer County Chronicle
PO Box 551
Custer SD 57730

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 2630-2 to Appropriate Water to be published twice. Please publish the first notice on May 21, 2008 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Ruth Ziolkowski, 12151 Avenue of the Chiefs, Crazy Horse Memorial SD 57730 (Ph # 605-673-4681).

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

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

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

No. 2630-2

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

Date _____

We are in receipt of your letter of May 14, 2008 enclosing Notice to Appropriate Water by Application No. 2630-2 which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

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

May 14, 2008

Ruth Ziolkowski
12151 Avenue of the Chiefs
Crazy Horse SD 57730

Dear Ms. Kiolkowski:

Water Permit Application No. 2630-2 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 Publisher of the Custer County Chronicle printed at Custer SD (Ph # 605-673-2217). You will need to contact the newspaper 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 to authorize publication of your Notice and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,


Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

cc: Mitchell B Kertzman, Renner & Associates

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 first Notice on May 21, 2008 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 2630-2 to Appropriate Water

Notice is given that Ruth Ziolkowski, 12151 Avenue of the Chiefs, Crazy Horse Memorial SD 57730 has filed an application for a water permit to appropriate 0.167 cubic feet of water per second from one well completed into the Crystalline Rock (100 feet deep) located in SW ¼ NW ¼ Section 10-T3S-R4E for commercial use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2630-2 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 June 9, 2008.

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



JUN 27 2008

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

Ruth Ziolkowski
12151 Ave of the Chiefs
Crazy Horse Memorial SD 57730

Dear Mrs. Ziolkowski:

Enclosed is Water Permit No. 2630-2 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

c: Mitchell Kertzmann, Renner & Associates



DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES

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



January 9, 2015

2630-2

August Heyne
12151 Avenue of the Chiefs
Crazy Horse Memorial SD 57730

Dear Mr. Heyne:

Pursuant to a qualification on Water Permit No. 2630-2, I am requesting that you report the total amount of water diverted during 2014 from the Crystalline Rock. Water Permit No. 2630-2 is for a well located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 10-T3S-R4E for commercial use. Please respond by January 31, 2015.

This permit is listed in the name of Ruth Ziolkowski. Enclosed is a partially completed Notice of Transfer of Ownership form. Upon completion, return the form to our office with a required filing fee of \$50.00.

If you have any questions concerning this or other water rights questions, please contact Karen Schlaak at (605) 773-3352. Water use data and/or questions may also be forwarded to Karen via email at karen.schlaak@state.sd.us.

Sincerely,

Ron Duvall, Natural Resources Engineer
for Jeanne Goodman, Chief Engineer
Water Rights Program

enclosure



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

January 16, 2015

No. 2227-2
2228-2
2630-2

August Heyne
12151 Avenue of the Chiefs
Crazy Horse Memorial SD 57730-8900

Dear Mr. Heyne:

Based on my phone conversation with Rollie Noem, enclosed are three partially completed "Notice of Transfer" forms for filing an name/ownership change on the water permits/rights for Crazy Horse Memorial. The water rights are currently listed in the name of Ruth Ziolkowski. I have also included a copy of each water right.

The transfer forms should be completed, checked over for accuracy and **signed by the new owner or representative**. Upon completion, return the forms to our office with a required filing fee of \$50.00 each (\$150.00 total).

At the same time, please submit the amount of water diverted during 2014 for the well authorized by Permit No. 2630-2.

If you have any questions, please contact me.

Sincerely,

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

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

February 18, 2015

August Heyne
12151 Avenue of the Chiefs
Crazy Horse Memorial SD 57730

Dear Mr. Heyne:

On January 9, 2015, pursuant to a qualification on Water Permit No. 2630-2, we wrote to you requesting the amount of water diverted in 2014 from the Crystalline Rock. Water Permit No. 2630-2 is for a well located in the SW 1/4 NW 1/4 Section 10-T3S-R4E for commercial use. The information was due in our office by January 31st.

Correspondence with Rollie Noem indicates the Notice of Transfer of Ownerships are in the process of being completed and reviewed.

This is just a reminder that we have not received the water use amount. If you have any questions concerning this or other water rights questions, please contact Karen Schlaak at (605) 773-3352. Water use data and/or questions may also be forwarded to Karen via email at karen.schlaak@state.sd.us.

Sincerely,

Ron Duvall, Natural Resources Engineer
for Jeanne Goodman, Chief Engineer
Water Rights Program



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

August 3, 2015

2227-2

2228-2

2630-2

August Heyne
12151 Avenue of Chiefs
Crazy Horse Memorial SD 57730

Dear Mr. Heyne:

I am writing in regard to the ownership changes needed for Vested Water Right No. 2227-2, Water Right No. 2228-2 and Water Permit No. 2630-2. All three are currently listed in the name of Ruth Ziolkowski. On January 16th, based on a phone conversation with Rollie Noem, transfer of ownership forms were sent to you for filing the changes. To date, we have not received anything back.

In the event you no longer have the original forms, I am enclosing another partially completed set. Please review and complete as needed. Upon completion, please sign the forms and return them to our office with a required filing fee of \$50.00 each (total of \$150). The check or money order for the fee can be made payable to the Water Rights Program.

Thank you in advance and if you have any questions regarding completion of the forms, please give me a call.

Sincerely,

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

enclosures

RECEIVED

AUG 17 2015

WATER RIGHTS
PROGRAM

NOTICE OF TRANSFER OF OWNERSHIP

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

No. 2630-2

Date: 8-14-15

I/We request that Water Permit No. 2630-2

formerly owned by: Ruth Ziolkowski

be transferred to: (name & address) Crazy Horse Memorial Foundation
12151 Avenue of the Chiefs
Crazy Horse, SD Telephone No. 605-673-4681
57730-8900

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

One well located in the SW ¼ NW ¼ Section 10, T3S, R4E

I/We understand that the validity of Water Permit No. 2630-2 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

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

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

I/We Crazy Horse Memorial Fnd, the new owner, certify that the above information is true and correct.

Jadwiga Ziolkowska CEO
(Signed by new owner)
Crazy Horse Memorial Foundation

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

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

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 8/17, 20 15

RECEIVED OF Ruth C Ziolkowski Fam Trust 12161 Ave of the Chiefs Crazy Horse SD 57730

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form <u>2630-2</u>		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50 00

No. 07474

By Jean Goodman if
Chief Engineer



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

August 24, 2015

2227-2
2228-2
2630-2

Jadwiga Ziolkowski, CEO
Crazy Horse Memorial Foundation
12151 Avenue of Chiefs
Crazy Horse Memorial SD 57730

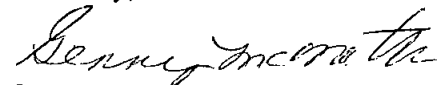
Dear Mr. Ziolkowski:

I am writing to acknowledge receipt of the transfer forms and filing fees submitted for changing ownership on Vested Water Right No. 2227-2, Water Right No. 2228-2 and Water Permit No. 2630-2. The ownership changes have been completed.

Vested Water Right No. 2227-2, Water Right No. 2228-2 and Water Permit No. 2630-2 formerly held by Ruth Ziolkowski are now listed in the name of "Crazy Horse Memorial Foundation".

Enclosed for your records are Receipt Nos. 07471, 07473 and 07474. If you have any questions, please give me a call.

Sincerely,


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

enclosures

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 2630-2

I have this day, January 13, 2016, made a thorough examination of the water use system constructed by Crazy Horse Memorial Foundation, 12151 Ave of the Chiefs, Crazy Horse Memorial, Custer, SD 57730 of Permit No. 2630-2, bearing the priority of 3/26/2008 authorizing the diversion of .167 cu. ft. per second of the water from 1 well for commercial purposes, in Custer County.

Inspection contact & relationship
to permit holder, if applicable:

Thurston Pond, facilities maintenance, 605-517-1698
All Correspondence % Jadwiga Ziolkowski, CEO,
605-673-4681

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Hamm Drilling
- 2) No. of Wells 1
- 3) Depth(s) 100 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 6" inches
- 2) Length 30' feet
- 3) Type PVC

Screen:

- 1) Type N/A
- 2) Length N/A feet
- 3) Static water level : **This is a flowing well with "closed in" pressure of 8 psi @ the well head and a flow of 20 gpm with valve full open through 1" pipe.**

Pump:

- 1) Make F&W
- 2) Model 4F35A50
- 3) Size 4"
- 4) Capacity 36 GPM (verified through digital flow meter 1/13/2016 and pump curve)
- 5) Horsepower rating 5 hp

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

- 1) Type PVC
- 2) Size -- inches
- 3) Length -- feet

C. Works used to apply water to beneficial use:

The well covered under #2630-2 is connected to the 6" main and 6" PVC loop serving the entire complex at the Memorial including the Visitor Center, Heritage Village (summer use), campground (constructed by previous owner of the "Fort") and the dormitory. The well delivers water to a 110,000 gallon below ground concrete reservoir which is also connected to other wells on the property. The reservoir gravity feeds to serve the complex. There are private residences on the property which are still being served by shallow wells.

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: SW ¼ NW ¼ S 10, T3S, R4E (1,166 ft. east and 2,588 ft. south of the NW corner), N 43.80363° W 103.63378°
2. The works are capable of diverting and conveying to the place of use .08 cu. ft. per second (36 gpm) of water which is to be used for **commercial use** and the license should be issued for .08 cfs.
3. All structures, wells and lands on map – Yes

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

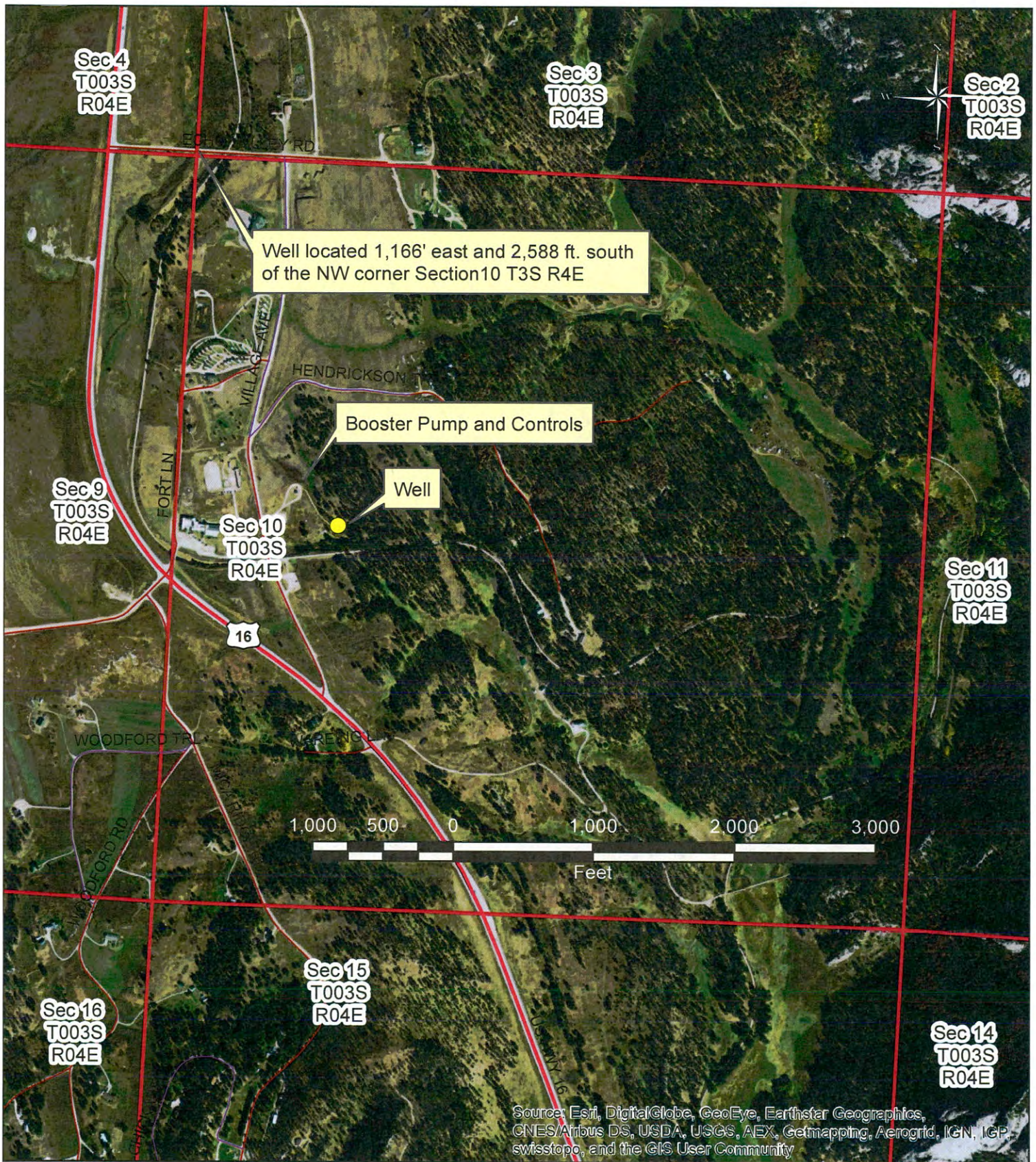
Other water licenses associated with this property are # 2227-2 with priority date of 1/1/1948, and # 2228-2 with priority date of 3/30/1992. August Heyne has been submitting annual water use amounts to DENR.



Steven Quissell
Water Rights Inspector
DENR, Water Rights Program

Date report completed: 1/15/2016

Water Right #2630-2
Crazy Horse Memorial Foundation
1/13/2016

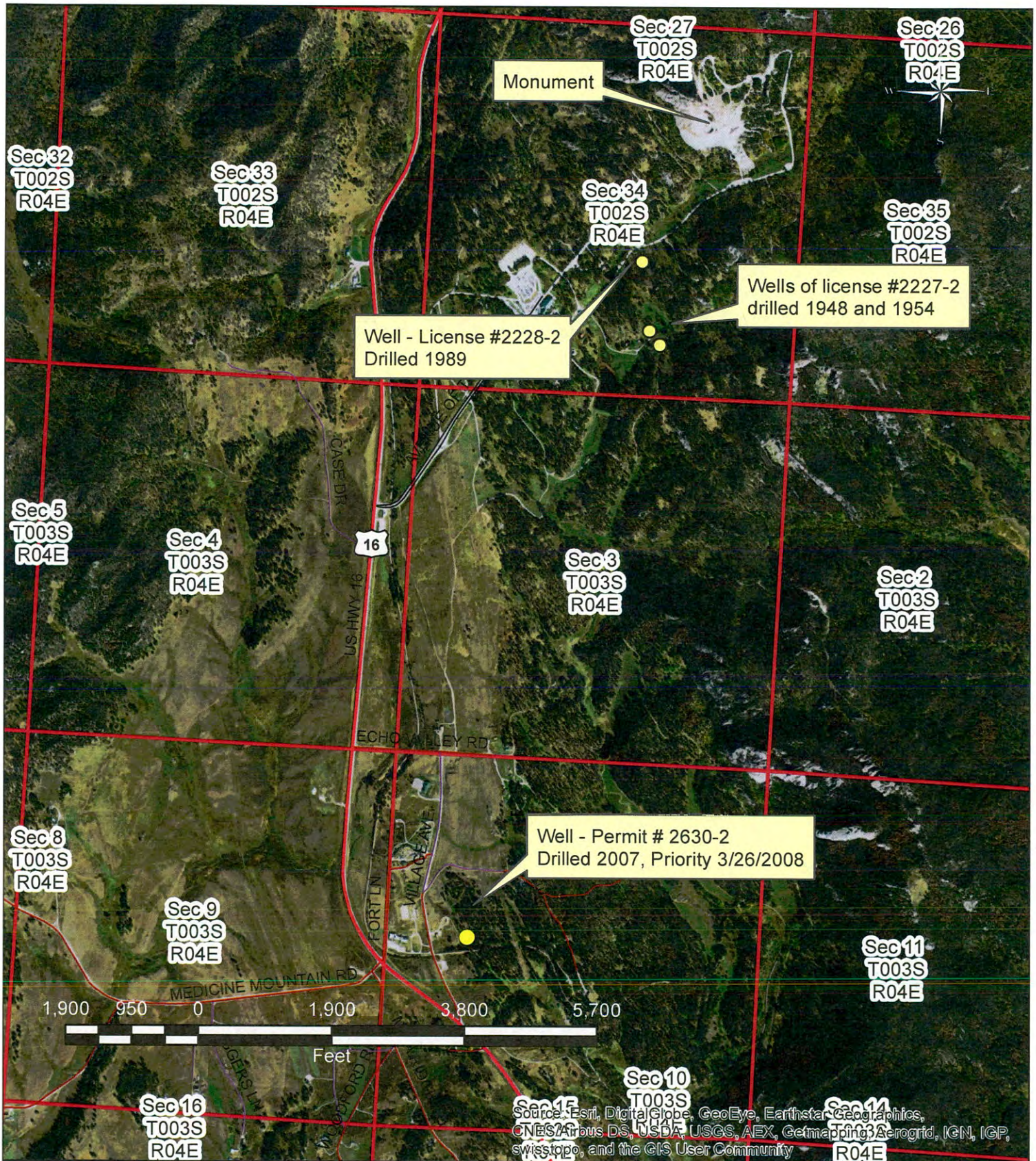


Steven Quissell

Steven Quissell
Water Rights Inspector
DENR Water Rights Program



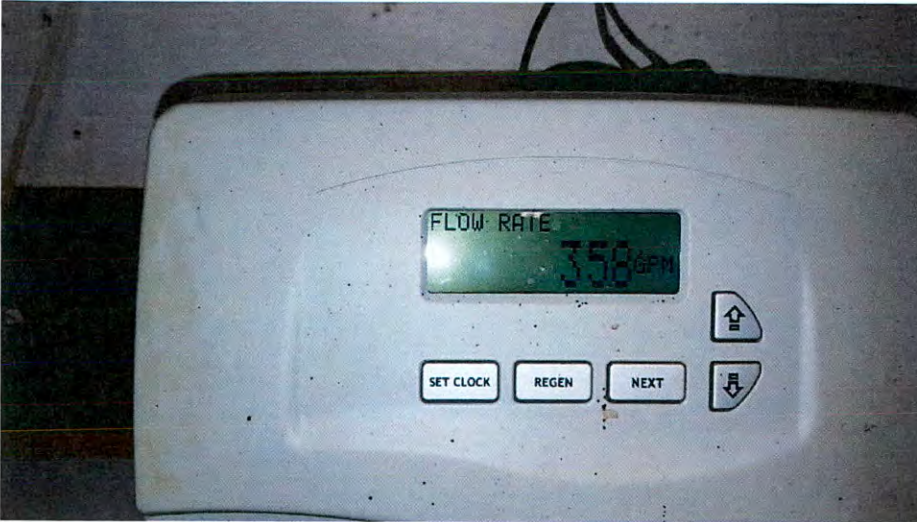
Water Right #2630-2
Crazy Horse Memorial Foundation
1/13/2016



Steven Quissell

Steven Quissell
 Water Rights Inspector
 DENR Water Rights Program





Metered flow from well



Well for permit #2630-2



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

FEB 23 2016

2630-2

Jadwiga Ziolkowski
Crazy Horse Memorial Foundation
12151 Ave of the Chiefs
Crazy Horse, SD 57730-8900

Dear Sir:

Enclosed is Water License No. 2630-2. 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 the owner of an existing well, such as the well authorized by Water Right No. 2630-2, 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,

A handwritten signature in black ink that reads 'Jeanne Goodman'.

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2630-2

(1) Ruth Ziolkowski made Application No. 2630-2, March 26, 2008 for a water permit to divert 0.167 cubic feet of water per second from ground water, one well (Crystalline Rock), Custer County, South Dakota for commercial purposes. Permit No. 2630-2, with a priority date of March 26, 2008 was approved June 9, 2008 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before June 9, 2013 and for the application to beneficial use of said water on or before June 9, 2017.

On August 17, 2015, Water Permit No. 2630-2 was transferred to Crazy Horse Memorial Foundation, 12151 Avenue of the Chiefs, Crazy Horse SD 57730-8900.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.08 cubic feet of water per second for beneficial use.

The location of the diversion point is 1,166 feet east and 2,588 feet south of the NW corner of Section 10, T3S, R4E (SW ¼ NW ¼).

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use. The well supplies water (along with other wells on the property) to the entire complex at the Memorial including the Visitor Center, Heritage Village, campground and dormitory.

(4) Pursuant to South Dakota Water Law 46-5-30.1 the Crazy Horse Memorial Foundation, 12151 Avenue of the Chiefs, Crazy Horse SD 57730-8900 the holder and/or owner of Water Right No. 2630-2 is issued a license to appropriate water, the right to use 0.08 cubic feet of water per second from ground water, one well (Crystalline Rock) with a priority date of March 26, 2008 from the location specified in (2) of this license for commercial purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 2630-2 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.
- The Crazy Horse Memorial shall report annual water use to the Department of Environment and Natural Resources, Water Rights Program.



Jeanne Goodman, Chief Engineer

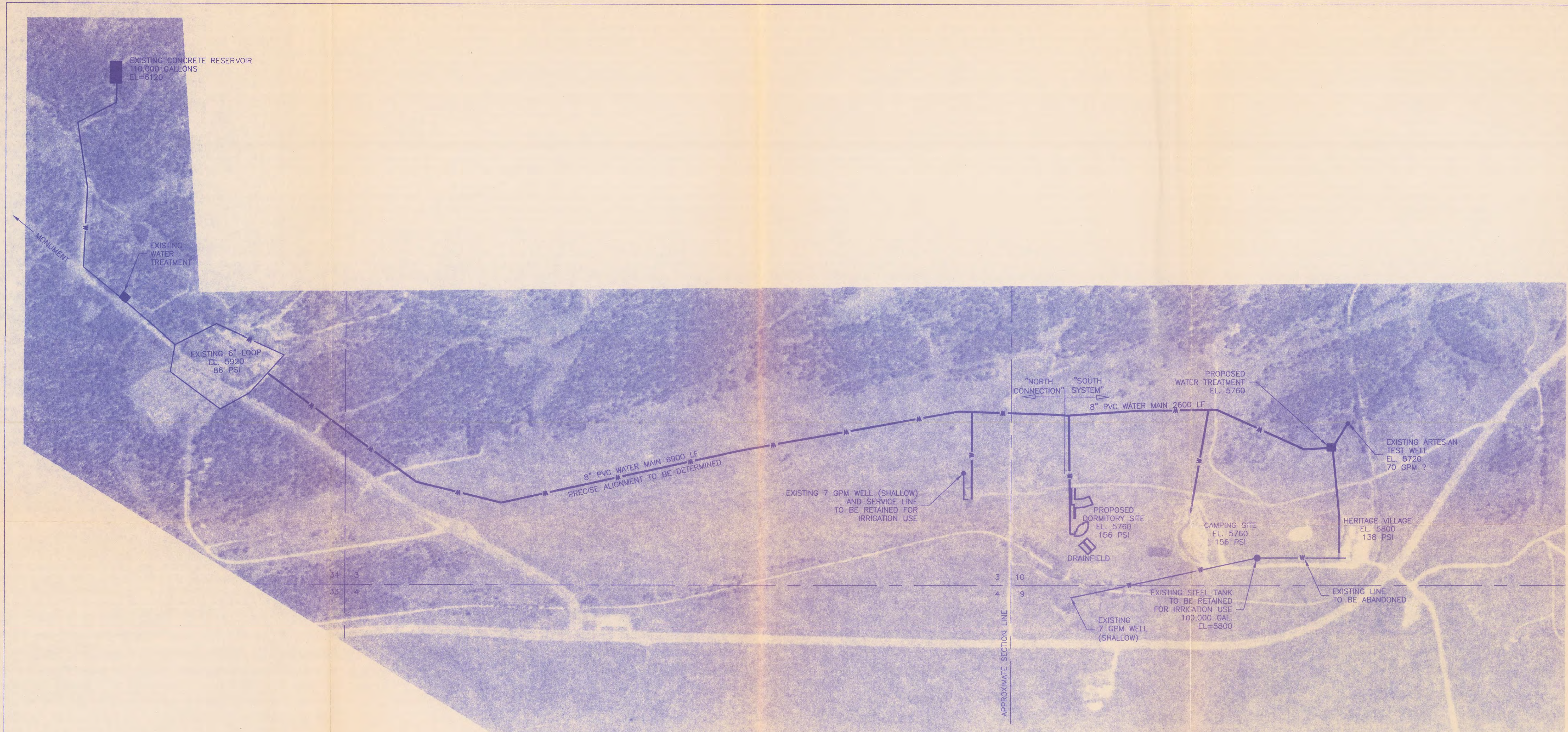
Water Rights Program

Department of Environment and Natural Resources

FEB 23 2016

date

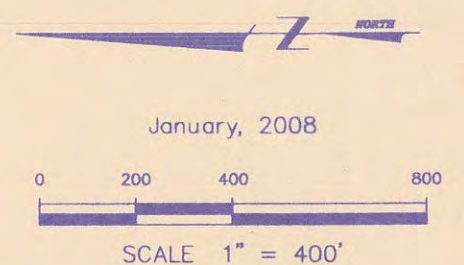




CONCEPTUAL
NOT FOR CONSTRUCTION

AERIAL IMAGRY WAS CAPTURED FROM GOOGLE EARTH. GEOREFERENCING IS APPROXIMATE. TO BE USED FOR CONCEPTUAL REPRESENTATION ONLY.

ELEVATIONS AND PRESSURES CALLED OUT FOR TANKS AND SITES ARE APPROXIMATE, PENDING HARD SURVEY DATA.

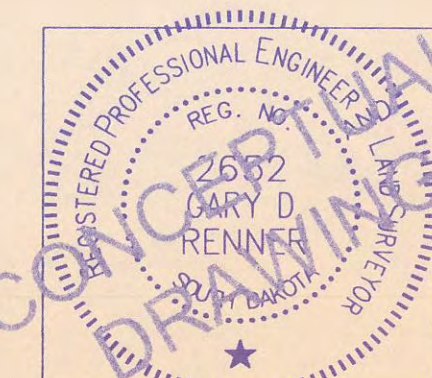


PREPARED FOR:

RUTH ZIOLKOWSKI
CRAZY HORSE MOUNTAIN
SOUTH DAKOTA 57730

LOCATION:

SECTIONS 33 AND 34, T2S, R4E, BHM
SECTIONS, 3, 4, 9, AND 10, T3S, R4E, BHM
CUSTER COUNTY, SOUTH DAKOTA



Renner Engineering Company

616 Sixth St. • Rapid City, SD 57701 • 605/721-7310
FAX: 605/721-7313 • E-MAIL: Gary@RennerAssoc.com
• Spearfish, SD 605/717-0016 •

PROJECT:

CRAZY HORSE/ZIOLKOWSKI
Water Infrastructure Upgrade

SURVEYOR:

SURVEY DATE:

DRAWN BY: MBK

DESIGNED:

APPROVED:

JOB NO.: 2069

SHEET

1

OF

1

2630-2