

WATER PERMIT NO. 7064-3

Name of Applicant: **Roger Kalsbeck**

Address: **46435 197th St. Bruce SD 57220**

Phone: **605 695-1303**

Amount of Water Claimed: **1.11 cfs**

Total Acres: **100**

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

Water to be used for: **irrigation**

County: **Hamlin**

Type of Waste Disposal System:

Location: **1 ½ south of Estelline**

PRIORITY

Date Received: **9-11-08**

Application/License Fee: **\$275.00**

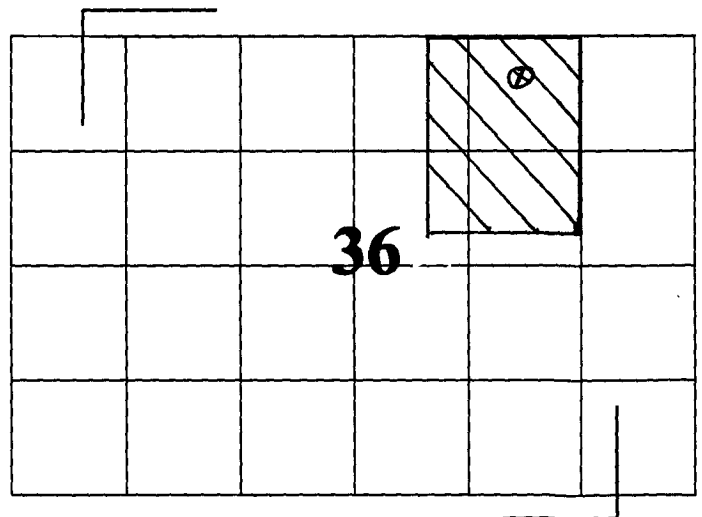
Corrected Application Received:

Period of Annual Use: **May 1 – September 30**

Remarks:

Diversion Point: **NE ¼ NE ¼ Sec 16-T113N-R51W**

Land to be Irrigated: **NE ¼ Sec 36-T113N-R51W**



Depth of Well: **40 feet deep**

Well Driller:

Remarks:

Type of Map: **aerial**

Prepared by: **Hamlin Co FSA office**

Reviewed and the Number Assigned on: **9-11-08**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

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

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>7064-3</u> (office use only) <u>10170202</u>
	Basin <u>Big Sioux River</u>
	Newspaper <u>Estelline Journal</u> <u>PO Box 159 57234</u>
	<u>605-873-2475 (work)</u>

RECEIVED
SEP 11 2008
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

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

1. Name of Applicant Roger Kalsbeck Phone 605 695-1303
(check one) ☒ Owner ☐ Tenant/lessee
- Mailing Address 46435 197th St Bruce State SD 57220
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 1.11 *CFS or 500 **GPM ***AF Total Acreage 100
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply well
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 800' from the NE1/4
corner or 400' from the North side of the NE1/4 of the NE1/4
Section 36 - 113N-S1W (NE1/4 NE1/4) County _____
5. County or counties where water will be used Hamlin
6. Annual period during which water is to be used May 1 - Sept 30
7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NE1/4 of the NE1/4 Sec 36 113N-S1W	40		
SE1/4 of the NE1/4 Sec 36 113N-S1W	30		
SW1/4 of the NE1/4 Sec 36 113N-S1W	15		
NW1/4 of the NE1/4 Sec 36 113N-S1W	15		

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

STATE OF SOUTH DAKOTA)

County of Hamlin SS

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, Roger Kalsbeck, 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 Roger Kalsbeck

Subscribed and sworn to before me this 10th day of September 20 08

[Signature]
Notary Public signature

My Commission Expires Nov. 20, 2013

**SOUTH DAKOTA
WATER PERMIT NO. 7064-3**

Date of first receipt of application September 11, 2008.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7064-3 to Roger Kalsbeck, 46435 197th St, Bruce SD 57220 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. 7064-3 appropriates 1.11 cubic feet of water per second from one well to be completed into the Big Sioux:BrookingsAquifer (approximately 40 feet deep) located in NE 1/4 NE 1/4 Section 36 to irrigate 100 acres located in the NE 1/4 Section 36; all in T113N-R51W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – September 30.
3. The date from which applicant may claim right is September 11, 2008.
4. The date of approval of Permit No. 7064-3 is November 17, 2008.
5. One-fifth of the construction is to be completed on or before May 17, 2011.
6. All construction is to be completed on or before November 17, 2013.
7. Water is to be put to beneficial use on or before November 17, 2017.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7064-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

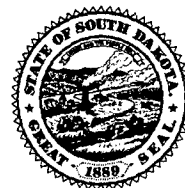
WATER MANAGEMENT BOARD

By: Garland Erbele

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

DEC 17 2008

date



Supplemental Information

(Complete applicable portions only)

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 30" Depth 40 ft
- b) Casing Type Steel Diameter 12" Thickness 1/4
- c) Screen Type 5 steel Diameter 12" Thickness 1/8
- d) Gravel Pack Pea Rock Length of Gravel Pack 12 ft
- e) Depth to Top of Water Bearing Material 10 ft
- f) Depth to Water (ground surface to water level) 40 ft
- g) Distance to nearest existing domestic well:

On applicants property 3000'On property owned by others 1300'**2. Wastewater Disposal System Information**

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

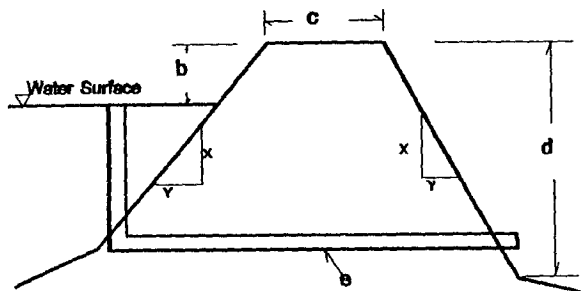
3. Dugout Information

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

4. Water Storage Dams

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

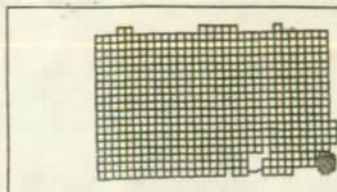
- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:



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



USDA U.S. Dept. of Agriculture
Farm Service Agency



RECEIVED
SEP 11 2006

WATER RIGHTS
PROGRAM

2007

Hamlin County

36-113N-51W

6921

Legend

- Tract Boundaries
- Section-Township-Range
- CRP
- Easements
- Wetlands
- Common Land Units
- Rangeland

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 9/11, 2008

RECEIVED OF Roger Kalsbeck 46435 197th St Bruce SD 57220

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

Fee for Application for Permit No. <u>7064-3</u> to Appropriate Water, to construct and to put water to beneficial use	225	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>7064-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	275 00

No.

By

Shirley E. Eide
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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7064-3, Roger Kalsbeck**

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. 7064-3, Roger Kalsbeck, 46435 197th Street, Bruce SD 57220.

The Chief Engineer is recommending APPROVAL of Application No. 7064-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7064-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
October 22, 2008

REPORT ON WATER PERMIT APPLICATION NO. 7064-3

For Roger Kalsbeck

October 16, 2008

Application No. 7064-3 proposes to appropriate 1.11 cfs (500 gpm) from one well approximately 40 feet deep located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of section 36 to irrigate 100 acres located in the NE $\frac{1}{4}$ of section 36; all in T113N R51W in Hamlin County.

AQUIFER – BIG SIOUX BROOKINGS (BS-B)

The Big Sioux Brookings is a predominantly surficial outwash (sand and gravel) that is largely under water table conditions in Hamlin County. The aquifer underlies 88,500 acres and contains an estimated 331,880 acre-feet of recoverable water in storage in Hamlin County (Hedges, 1982). The aquifer blends into the Big Sioux North aquifer to the north and extends into Brooking County to the south and into Deuel County to the east. Ground water movement appears to be from northwest to southeast in the area of this application (Kume, 1985). Kume mapped the entire aquifer in Hamlin County which he called the Big Sioux aquifer (did not use the management units which are used in this report) and estimated the aquifer to underlie 113,920 acres and contain an estimated 480,000 acre feet of water in storage. If the Big Sioux North management unit estimate by Hedges is included, the two different estimates are reasonably close. The aquifer is hydraulically connected to the Big Sioux River and some area lakes and streams. Generally ground water movement is toward these surface water bodies which act as discharge zones for the ground water, however under some hydrologic conditions the surface water does recharge the ground water system. Recharge has been estimated to average about 6.57 inches per year to the aquifer (Koch, 1980).

There is no test well log available for this application. Nearby observation wells and other irrigation wells in this immediate area all indicate that the aquifer should underlie this site and could be expected to be about 40 feet in thickness. Prudence dictates that the applicant drill test wells to determine the best site to install a production well for this application.

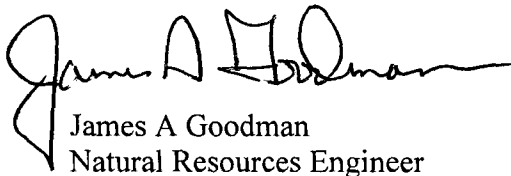
The Water Rights Program monitors four observation wells within two miles of this application. HN-71A is located about one mile west, BG-75D is located about one mile south, DU-77B is located about one mile east and DU-77F is located about one and one-half miles southeast, all from this application. Water levels for these wells show good response to climatic conditions. Water levels rise during wet periods (recharge) and gradually decline during dry years. Hydrographs for these observation wells are included with this report (Water Rights, 2008). There appears to be very little response to pumping in the water level record. Also note that over the period of record water levels have changed from 7 to 12 feet from the absolute highest to lowest in these observation wells. The magnitude of fluctuation appears to be related to the distance from the Big Sioux River with somewhat less fluctuation nearer to the river.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are four existing Water Rights within one half mile of this application. These are Water Right No. 4309A-3 (126 acres, 1.78 cfs) located about one half mile to the south, No. 4309B-3 (128 acres, 1.45 cfs) located within one half mile east, No. 5237A-3 (132 acres, 1.67 cfs) and No. 4993A-3 (130 acres, 1.0 cfs) permitted irrigation well located within one-half mile to the north all from this proposed site. At this distance, interference is not expected to be a concern. Drawdown will be created by pumping but will not be significant at the distance between wells. The observation well record reinforces this conclusion.

CONCLUSIONS

1. Water is available from the Big Sioux Brookings aquifer.
2. The aquifer is under water table conditions in this area. Drawdown created by pumping is not expected to be significant. Interference is not a concern.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

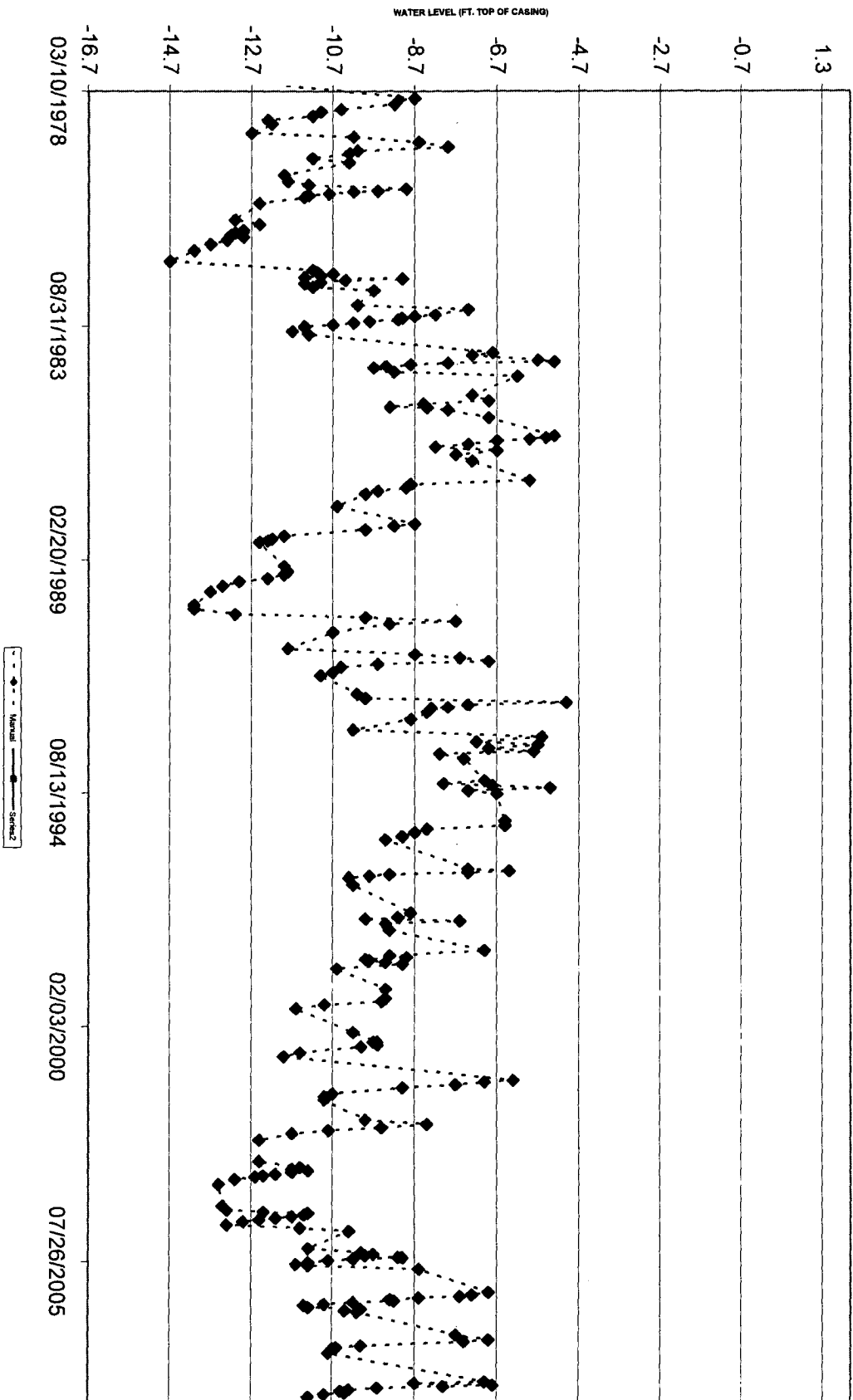
Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River South Dakota and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Koch, N.C., 1980, Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel, and Hamlin Counties, South Dakota, Water-Resources Investigation Report 80-100, USGS, Huron, SD, 57350.

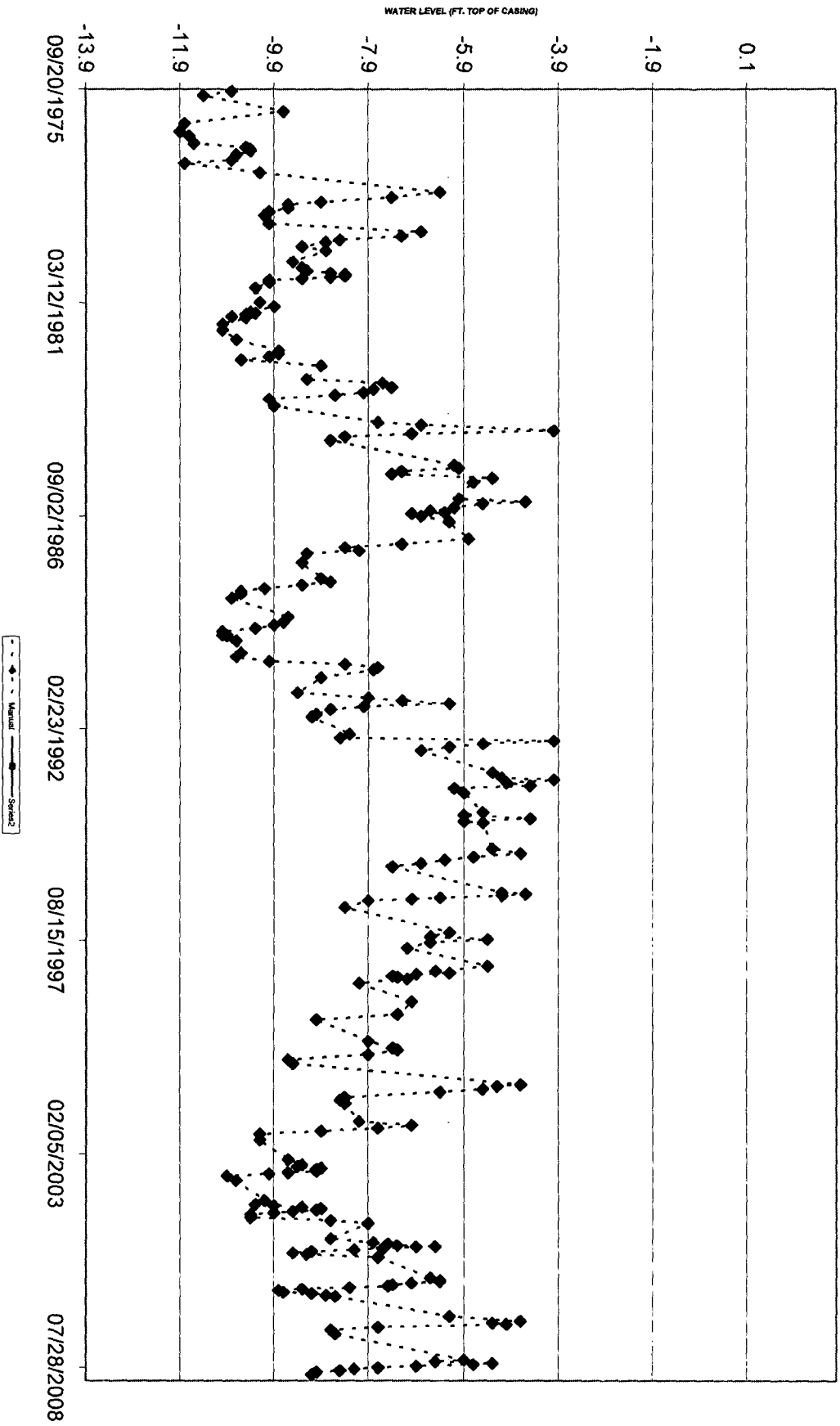
Kume, J., 1985, Water Resources of Deuel and Hamlin Counties, South Dakota, Water-Resources Investigation Report 84-4069, USGS, Huron, SD, 57350.

Water Rights, 2008, Unpublished Observation Well Data for Hamlin County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

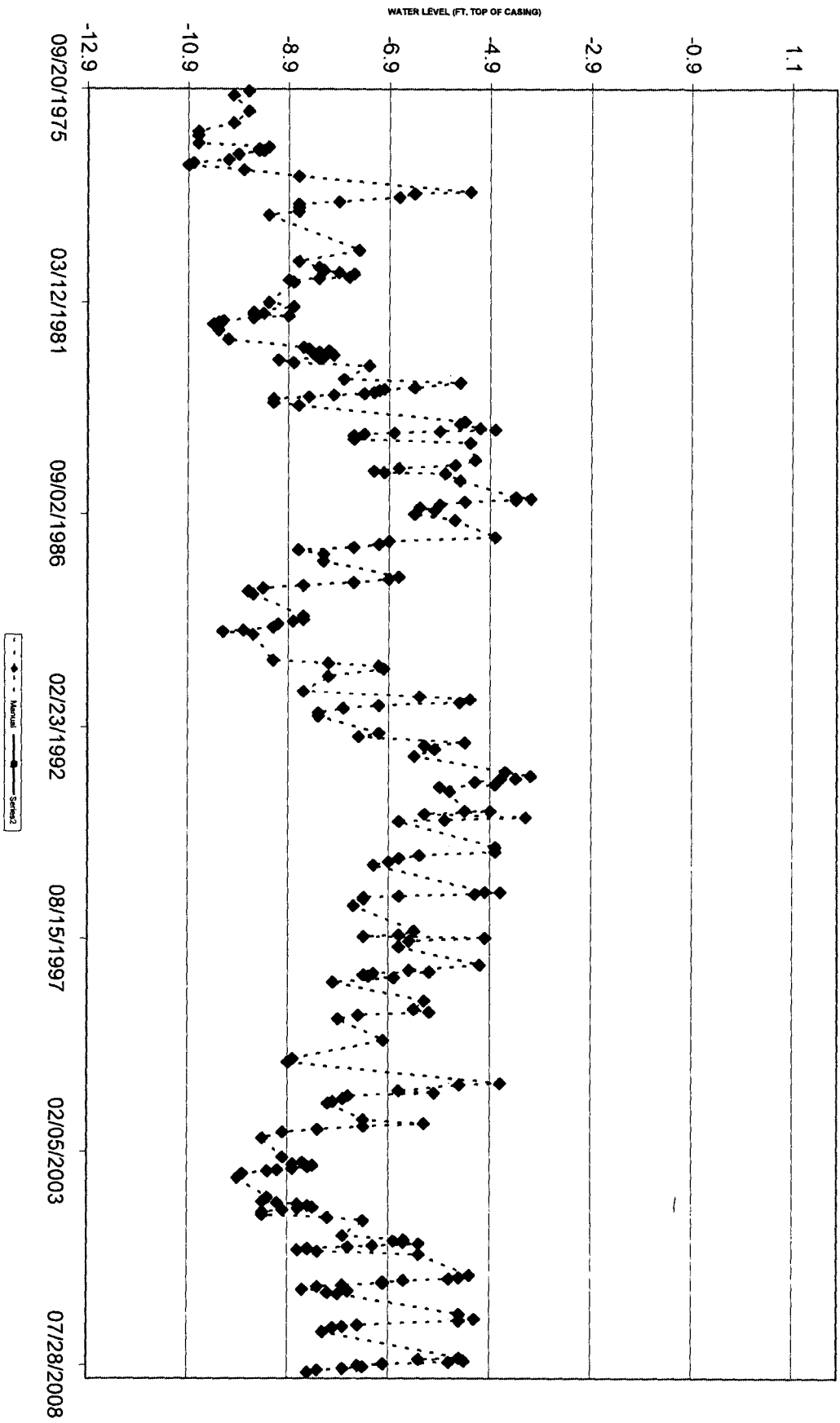
**WATER RIGHTS' OBSERVATION WELL
DU-77B**



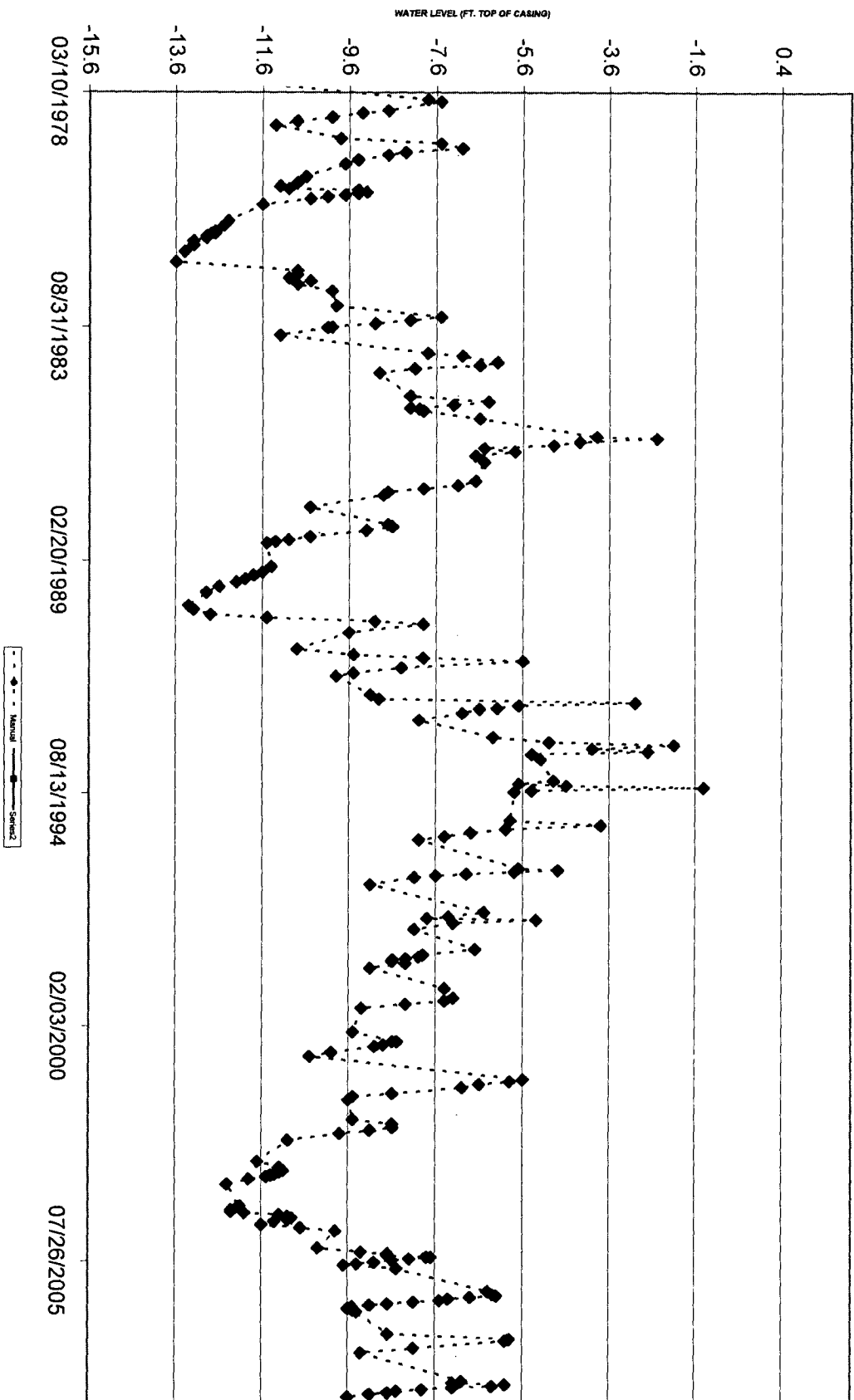
WATER RIGHTS' OBSERVATION WELL
HN-71A



**WATER RIGHTS' OBSERVATION WELL
BG-75D**



WATER RIGHTS' OBSERVATION WELL DU-77F



PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Hamlin) SS

I, Lee Anne Archer

certify that the attached printed Notice was taken

from the The Estelline Journal

printed and published in Estelline

County of Hamlin and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

Oct. 29, 2008

Nov 5, 2008

Cost of Printing \$ 39.21

Lee Anne Archer
(Signature)

Publisher
(Title)

Nov. 5, 2008
(Date Signed)

ds

ber 29, 2008

NOTICE OF APPLICATION NO. 7064-3 TO APPROPRIATE WATER

Notice is given that Roger Kalsbeck, 46435 197th St, Bruce SD 57220 has filed an application for a water permit to appropriate 1.11 cubic feet of water per second from one well to be completed into the Big Sioux: Brookings Aquifer (approximately 40 feet deep) located in NE 1/4 NE 1/4 Section 36 to irrigate 100 acres located in the NE 1/4 Section 36; all in T113N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7064-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to

the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 17, 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

RECEIVED

NOV 10 2008

WATER RIGHTS
PROGRAM



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

October 22, 2008

Estelline Journal
PO Box 159
Estelline SD 57234

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7064-3 to Appropriate Water to be published twice. Please publish the first notice on October 29, 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 Roger Kalsbeck, 46435 197th St., Bruce SD 57220 (Ph # 605-695-1303).

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. 7064-3

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

Date _____

We are in receipt of your letter of October 22, 2008 enclosing Notice to Appropriate Water by Application No. 7064-3 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.

October 22, 2008

Roger Kalsbeck
46435 197th St
Bruce SD 57220

Dear Mr. Kalsbeck:

Water Permit Application No. 7064-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Estelline Journal printed at Estelline SD (Ph # 605-873-2475). 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

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 October 29, 2008 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 7064-3 to Appropriate Water

Notice is given that Roger Kalsbeck, 46435 197th St, Bruce SD 57220 has filed an application for a water permit to appropriate 1.11 cubic feet of water per second from one well to be completed into the Big Sioux:BrookingsAquifer (approximately 40 feet deep) located in NE ¼ NE ¼ Section 36 to irrigate 100 acres located in the NE ¼ Section 36; all in T113N-R51W.

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DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

DEC 17 2000

Roger Kalsbeck
46435 197th St
Bruce SD 57220

Dear Mr. Kalsbeck:

Enclosed is Water Permit No. 7064-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

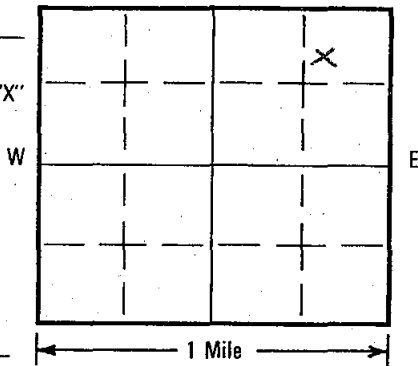
SOUTH DAKOTA WATER WELL COMPLETION REPORT

70643

07-92

Location NE 1/4 NE 1/4 Sec 316 Twp 113-N Rg 51-S2W
County Hamlin

Please mark well location with an "X"



Well-Completion Date

10-20-12

Well Owner: Roger Kalsbeck

Business Name:

Address: 41435 197th St.

Beauvoir, S.D. 57220

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Topsoil</u>	<u>0</u>	<u>3</u>
<u>Sand</u>	<u>3</u>	<u>4</u>
<u>Clay</u>	<u>4</u>	<u>5</u>
<u>Coarse Gravel</u>	<u>5</u>	<u>25</u>

LOCATION:

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

PROPOSED USE:

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

METHOD OF DRILLING:

Bucket-Drive Casing

CASING DATA:

- ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>5.160 LB/FT</u>	<u>14 IN</u>	<u>1 FT</u>	<u>11 FT</u>	<u>20 IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement</u>	_____	_____ lb./gal	<u>0</u> ft	<u>6</u> ft
<u>Bentonite</u>	_____	_____ lb./gal	<u>6</u> ft	<u>8</u> ft

Describe grouting procedure _____

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 14 IN Length 9 FEET
 Material PVC SL 160
 Slot Size 100 Set From 116 Feet to 25 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
☐ NO, Why Not? 20 Pack
 Laboratory sent to for water quality analysis Ing.

STATIC WATER LEVEL SW-8' Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: Submersible
☐ Bailed
☐ Other
 Pumping Level Below Land Surface
20 ft. After 1 Hrs. pumped 400 GPM
 _____ ft. After _____ Hrs. pumped _____ GPM
 If pump installed, pump rate _____ GPM

REMARKS

RECEIVED

DEC 26 2012

WATER RIGHTS PROGRAM

This well was drilled under license # 111

And this report is true and accurate.

Drilling firm Lacey Well Drilling, Inc.

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: Roger Kalsbeck

Date: 12-20-12

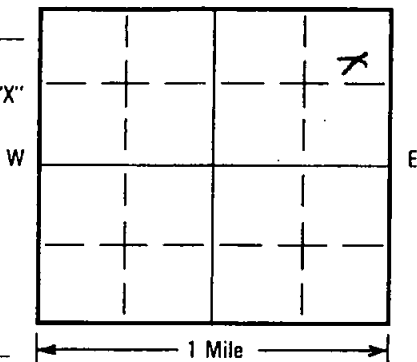
SOUTH DAKOTA WATER WELL COMPLETION REPORT

7064-3

07-92

Location NE 1/4 NE 1/4 Sec 36 Twp 113-N Rg 51-W
County Hamlin North

Please mark well location with an "X"



Well-Completion Date

9-10-13

Well Owner: Roger Kalsbeck

Business Name:

Address: 46435 187th St
Bruce, S.D. 57220

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Sandy Topsoil	0	3
Gravel	3	8
Sand	8	16
Coarse Gravel	16	23

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1/2 mile ft. from Abandoned well (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Bucket - Fake Casing

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>25</u> LB/FT	<u>14"</u> IN	<u>16"</u> FT	<u>18</u> FT	<u>20</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Grout</u>	_____	_____ lb./gal	<u>0</u> ft	<u>7</u> ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure _____

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 14 IN Length 7 FEET

Material CL 160 PVC

Slot Size 100 Set From 18 Feet to 25 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: _____

☐ NO, Why Not? _____

Laboratory sent to for water quality analysis

Chlorine in Pack

200

STATIC WATER LEVEL 7'12 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: Sub

☐ Bailed _____

☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

RECEIVED

DEC 18 2013

WATER RIGHTS PROGRAM

This well was drilled under license # 1111

And this report is true and accurate.

Drilling firm Lacey Well Drilling Inc.

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

R. Kalsbeck

Date: 1-2-13

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7064-3

I have this day, April 1, 2015, made a thorough examination of the water use system constructed by Roger Kalsbeck, 46435 197th St., Bruce SD 57220, Permit No. 7064-3, bearing the priority of September 11, 2008 authorizing the diversion of 1.11 cu. ft. per second of the waters of Big Sioux Brookings aquifer for irrigation purposes, in Hamlin County.

Inspection contact & relationship to permit holder, if applicable: **Roger Kalsbeck**

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Lacey Well Drilling
- 2) No. of Wells 2
- 3) Depth(s) both 25 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 14 inches
- 2) Length 16 feet (west well)
- 3) Length 18 feet (east well)
- 4) Type plastic

Screen:

- 1) Type PVC
- 2) Length 9 feet (west well)
- 3) Length 7 feet (east well)
- 4) Static water level approx. 8 feet

Motor/Pump:

- 1) Make submersible (both)
- 2) Size hp unknown
- 3) Capacity 500 GPM (combined)

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

- 1) Type Aluminum
- 2) Size 6 inches
- 3) Length 480 feet

C. Works used to apply water to beneficial use:

Gun:

- 1) Make Ag Rain
- 2) Capacity 500 GPM
- 3) Hose size 5 inches (700 feet)

Chemigation Equipment:

- 1) Does chemigate No

D. Compliance with Permit Requirements:

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

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: East well: 700 feet south and 715 feet west (NE1/4 NE1/4, Long. -96.88826, Lat. 44.55637); West well: 670 feet south and 915 feet west (NE1/4 NE1/4, Long. -96.88902, Lat. 44.55646) both from NE corner of section 36-T113N-R51W.
2. The works are capable of diverting and conveying to the place of use 1.11 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

All in section 36-T113N-R51W

SE1/4 NE1/4 – 31 acres

NE1/4 NE1/4 – 36 acres

NW1/4 NE1/4 – 22 acres

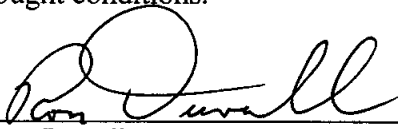
SW1/4 NE1/4 -- 11 acres

comprising a total of 100 acres of land and the license should be issued for 1.11 cfs.

3. All structures, wells and lands on map Yes

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

Mr. Kalsbeck indicated the grass area south and west of the old railroad grade will likely be irrigated only during drought conditions.



Ron Duvall

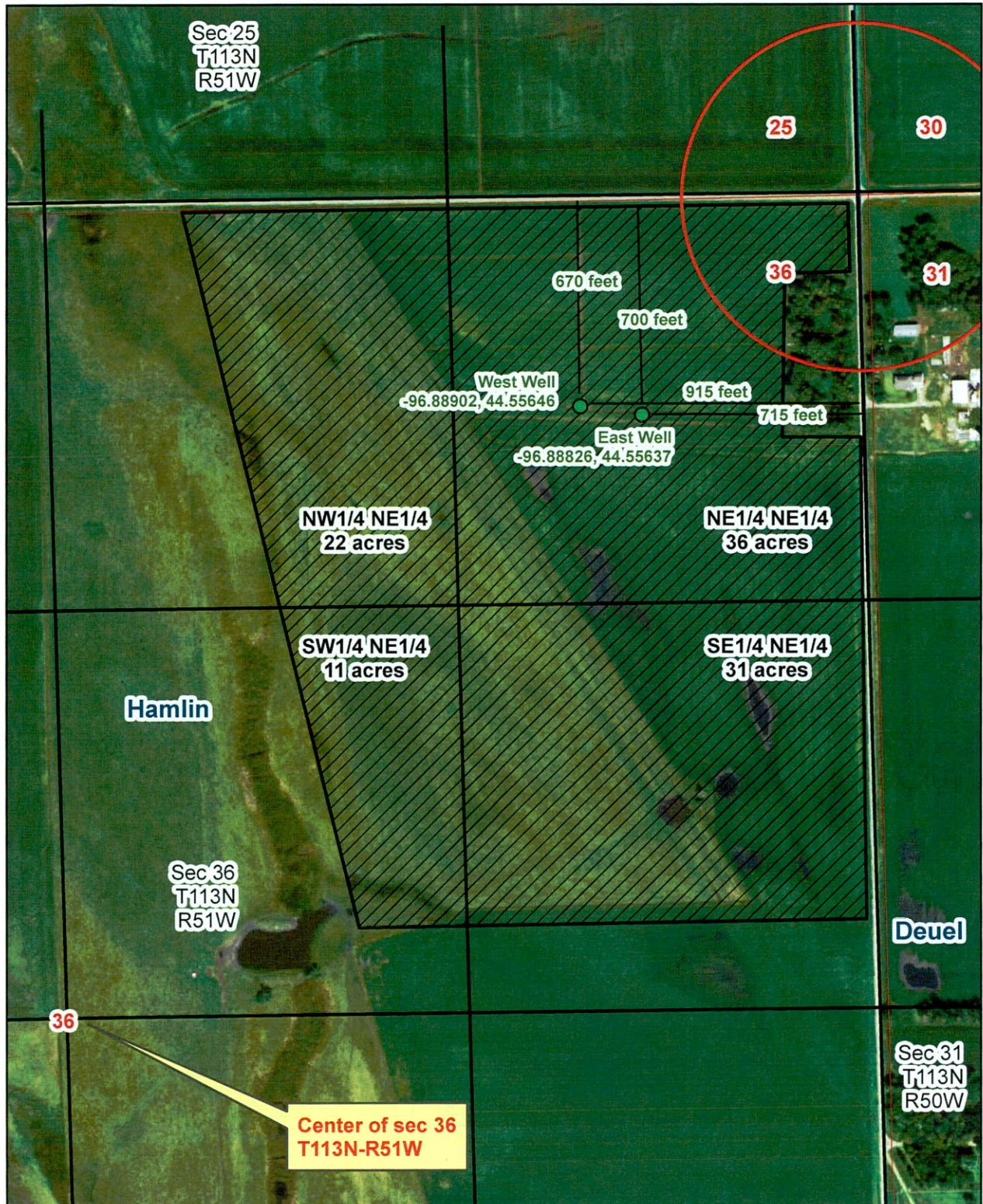
Water Rights Permitting Administrator
DENR, Water Rights Program

Date report completed: May 22, 2015

Scale: 1 inch = 485 feet

675

Feet



South Dakota
Department of Environment
& Natural Resources
Water Rights

Completed by:

Ron Duvall
Ron Duvall, WR Permitting Administrator
Water Rights Program

Diversion point(s) located using a Garmin eTrex 10 GPS

Date: May 22, 2015

Water Right No. 7064-3

Approval of Additional Diversion Point

NAME: Roger Kalsbeck

ADDRESS: 46435 197th St, Bruce SD 57220

DATE: May 26, 2015

COUNTY: Hamlin

TELEPHONE: 605-695-1303

AUTHORITY:

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

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

Permit No. 7064-3 authorizes use of 1.11 cubic feet of water per second (cfs) from one well into the Big Sioux Brookings aquifer. An April 1, 2015, inspection found two wells had been constructed into the Big Sioux Brookings aquifer with a combined diversion rate of 1.11 cfs as authorized by No. 7064-3.

- **If irrigation, no new land is irrigated**

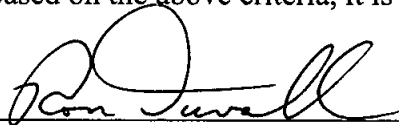
Permit No. 7064-3 was approved for irrigation of 100 acres and the system is capable of irrigating 100 acres.

- **Review of Existing Diversions**

As noted in the staff report for Permit No. 7064-3, there are four existing irrigation water rights within approximately one half mile of this permit. Water Right No. 4309A-3 (126 acres, 1.78 cfs – also held by Mr. Kalsbeck) located about one half mile to the south; No. 4309B-3 (128 acres, 1.45 cfs) and No. 2911-3 (132 acres, 1.78 cfs) located within one half mile east; No. 5237A-3 (132 acres, 1.67 cfs) located one half mile west and No. 4993A-3 (130 acres, 1.0 cfs) located one-half mile to the north of No. 7064-3. There are no recently approved permits closer than the above water rights. For the same reasons provided in the report for No. 7064-3, the presence of the additional well will not increase the potential for interference with the other existing diversions. Drawdown created by both wells should not be significant given the distances between the wells and wells covered by the other water rights. The volume of water will remain unchanged from the amount authorized by No. 7064-3.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the diversion points be licensed as developed.



Ron Duvall, Natural Resources Engineer
Water Rights Program

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

This change in location and/or additional diversion point(s) does not increase the potential for adverse effects to existing diversions.



Jeanne Goodman, Chief Engineer
Water Rights Program



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

JUN 01 2015

7064-3

Roger Kalsbeck
46435 197th St
Bruce SD 57220

Dear Mr. Kalsbeck:

Enclosed is Water License No. 7064-3. 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 wells authorized by Water Right No. 7064-3, 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. 7064-3**

(1) Roger Kalsbeck, 46435 197th St., Bruce SD 57220 made Application No. 7064-3, September 11, 2008 for a water permit to divert 1.11 cubic feet of water per second (cfs) from ground water (one well – Big Sioux Brookings Aquifer), Hamlin County, South Dakota for irrigation purposes. Permit No. 7064-3, with a priority date of September 11, 2008 was approved November 17, 2008 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before November 17, 2013 and for the application to beneficial use of said water on or before September 17, 2017.

The original permit authorized diversion of 1.11 cfs from one well to be used for irrigation purposes. The investigation of the water use system found two wells had been constructed into the Big Sioux Aquifer with a combined diversion rate of 1.11 cfs. Pursuant to SDCL 46-5-13.1 and ARSD 74:02:01:14.01, the Chief Engineer of the Water Rights Program made a finding the additional diversion point did not increase the potential for adverse effects to existing diversions.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.11 cubic feet of water per second for beneficial use. The location of the diversion points are:

- east well: 700 feet S & 715 feet W of the NE corner of Section 36, T113N, R51W (NE $\frac{1}{4}$ NE $\frac{1}{4}$);
- west well: 670 feet S & 915 feet W of the NE corner of Section 36, T113N, R51W (NE $\frac{1}{4}$ NE $\frac{1}{4}$).

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

Section 36, T113N, R51W

SE $\frac{1}{4}$ NE $\frac{1}{4}$	31 acres	NW $\frac{1}{4}$ NE $\frac{1}{4}$	22 acres
NE $\frac{1}{4}$ NE $\frac{1}{4}$	36 acres	SW $\frac{1}{4}$ NE $\frac{1}{4}$	11 acres

Total irrigated – 100 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Roger Kalsbeck, 46435 197th St., Bruce SD 57220 the holder and/or owner of Water Right No. 7064-3 is issued a license to appropriate water, the right to use 1.11 cubic feet of water per second from ground water (two wells – Big Sioux Brookings Aquifer) with a priority date of September 11, 2008 from the locations specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7064-3 and subject to the following qualifications:

- The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The wells authorized by Permit No. 7064-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. ***Both wells were constructed by Lacey Well Drilling Inc. Copies of the logs are on file with the Water Rights Program.***

- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



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

JUN 01 2015

date

