

WATER PERMIT NO. 6779-3

Name of Applicant: Ed Van Beek

Address: Box 416, Pollock SD 57648

Phone: 605 889-2836

Amount of Water Claimed: 2.22 cfs

Total Acres: 232.4

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Campbell

Type of Waste Disposal System:

Location: 1 miles southwest of Pollock

PRIORITY

Date Received: 11-30-06

Application/License Fee: \$325.00

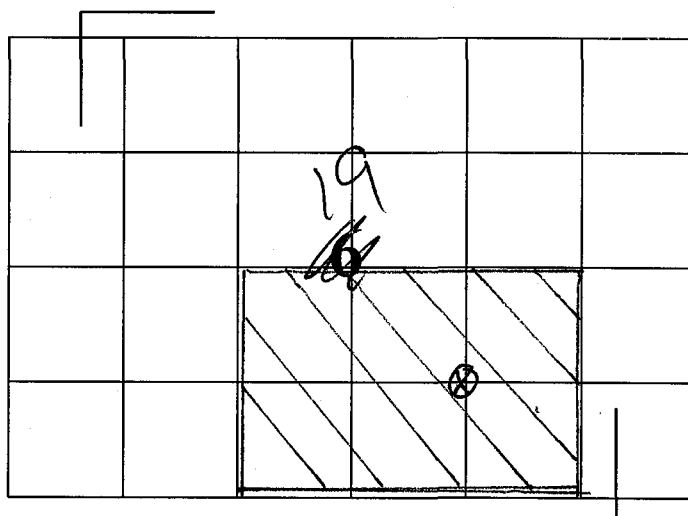
Corrected Application Received: 12-6-06

Period of Annual Use: March 1 – November 30

Remarks: Water Right No. 2570A-3 authorizes irrigation of the same lands from the Missouri River

Diversion Point: center of SE ¼ Sec 19-T128N-R78W

Land to be Irrigated: S ½ Sec 19-T128N-R78W



Depth of Well: 216 feet

Well Driller:

Remarks:

Type of Map: aerial

Prepared by: Vanissa Goehring, Campbell Co FSA

Reviewed and the Number Assigned on: 12-6-06

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>6779-3</u> (office use only)
	Hydrologic Unit <u>10130102</u>
	Basin <u>Miss R</u>
	Newspaper <u>Prairie Pioneer</u>

RECEIVED
NOV 30 2006
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.)

- Name of Applicant Ed Van Beek Phone 605-889-2836
(check one) ☐ Owner ☒ Tenant/lessee
Mailing Address Box 416 Pollock State SD 57648
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 2.22 *CFS or 1000 **GPM NA ***AF Total Acreage 232.4
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable
- Source of water supply well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Campbell
1 well, SE 1/4 section 19-128-78
approximate center
- County or counties where water will be used Campbell
- Annual period during which water is to be used March - November 30
- 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
S 1/2 19-128-78 Less 63 Ak.	232.4		
	232.4		

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

Dig a well by the east pivot to use until river water is available again

STATE OF SOUTH DAKOTA) SS
County of Campbell

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, Ed Van Beek, 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 Ed Van Beek

Subscribed and sworn to before me this 29 day of November 2006

Ruth A. Bass

Notary Public signature

SOUTH DAKOTA
WATER PERMIT NO. 6779-3

Date of first receipt of application November 30, 2006.

Date of return to applicant for corrections, amendments or changes December 1, 2006.

Date of receipt of corrected application December 6, 2006.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6779-3 to Ed VanBeek, Box 416, Pollock SD 57648 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. 6779-3 appropriates 2.22 cubic feet of water per second from one well to be completed into the Grand Aquifer (approximately 216 feet deep) located in the approximate center of the SE ¼ Section 19 to irrigate 232.4 acres located in the S ½ Section 19; all in T128N-R78W. Water Right No. 2570-3A authorizes irrigation of the same lands from the Missouri River.
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: March 1 – November 30.
3. The date from which applicant may claim right is November 30, 2006.
4. The date of approval of Permit No. 6779-3 is January 29, 2007.
5. One-fifth of the construction is to be completed on or before July 29, 2009.
6. All construction is to be completed on or before January 29, 2012.
7. Water is to be put to beneficial use on or before January 29, 2016.
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. 6779-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

FEB 15 2007
date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) ∇ Drill Hole Diameter 17 1/2" Depth 2110 APPROXIMATELY
- b) $\times$ Casing Type 12 PVC Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) 57'
- g) Distance to nearest existing domestic well:

On applicants property _____ On property owned by others _____

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 _____

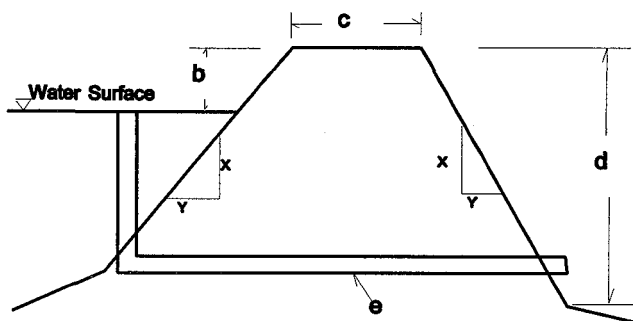
3. Dugout Information

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

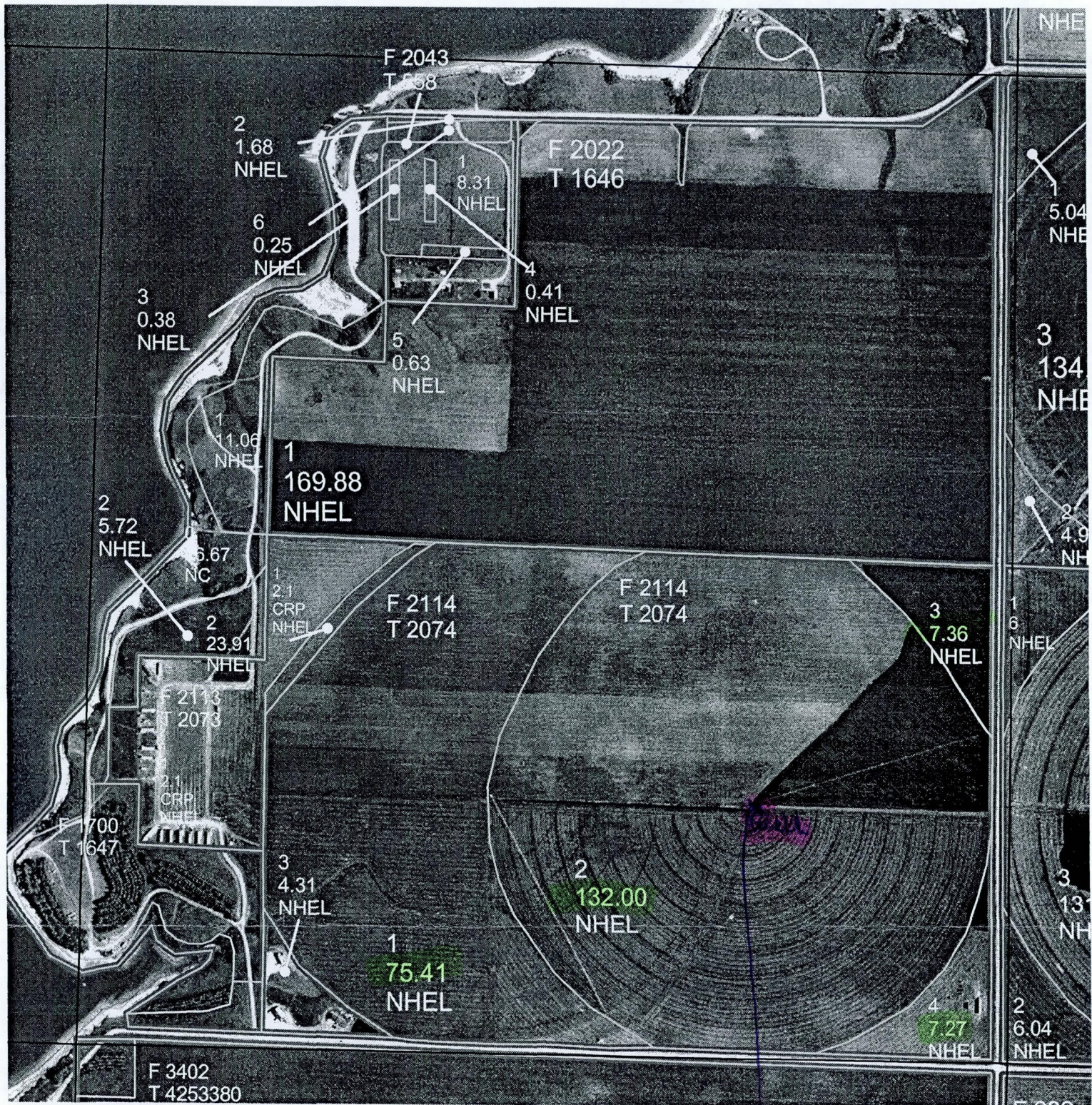
4. Water Storage Dams

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



Map Not to Scale
No Official Wetland Determination

Campbell County, South Dakota

Sec-Twp-Rng: 19-128N-78W

Map Printed: Feb 28, 2005



Vanessa Doehring - Campbell Co. FSA Office: 11-28-06

DAKOTA
BELL
Port ID: FSA-156EZ-R001

U.S. Dept. of Agriculture
Farm Service Agency
Abbreviated 156 Farm Record

FARM 2114
Prepared: 03/02/2006
Crop Year: 2006
Page: 4

TRACT NO.: 1587

BIA RANGE UNIT NO.:

FARMLAND	CROPLAND	DCP CROPLAND	CRP CROPLAND ACRES	WBP ACRES	WRP ACRES	STATE CONSRV	OTHER CONSRV	EFF DCP CROPLAND	CRP MPL ACRES	DBL CROP ACRES
301.0	212.1	212.1	.0	.0	.0	.0	.0	212.1	.0	.0

CROP NAME	BASE ACRES	DIRECT TRACT YIELD	CC TRACT YIELD	CRP-15 REDUCTION ACRES	CRP TRACT YIELD	CRP PENDING ACRES
WHEAT	104.8	24	24	0.0	0	0.0
OATS	6.4	38	38	0.0	0	0.0
CORN	60.8	42	42	0.0	0	0.0
SUNFLOWERS	21.4	1352	1352	0.0	0	0.0
BARLEY	10.1	33	33	0.0	0	0.0

Photo Grid Descr: L4L5K4 SW-11;W2NW-11-128-79

HEL 027 A027 WL CW FW PC AW MW PCW MG RW CWTE CWNA
N N N N

OWNER 1 - ED VAN BEEK, 2 - EVERETT E VAN BEEK

TRACT NO.: 2074

BIA RANGE UNIT NO.:

FARMLAND	CROPLAND	DCP CROPLAND	CRP CROPLAND ACRES	WBP ACRES	WRP ACRES	STATE CONSRV	OTHER CONSRV	EFF DCP CROPLAND	CRP MPL ACRES	DBL CROP ACRES
232.4	232.4	232.4	.0	.0	.0	.0	.0	232.4	.0	.0

CROP NAME	BASE ACRES	DIRECT TRACT YIELD	CC TRACT YIELD	CRP-15 REDUCTION ACRES	CRP TRACT YIELD	CRP PENDING ACRES
WHEAT	114.2	24	24	0.0	0	0.0
OATS	7.0	38	38	0.0	0	0.0
CORN	66.1	108	108	0.0	0	0.0
SUNFLOWERS	23.5	1352	1352	0.0	0	0.0
BARLEY	12.1	33	33	0.0	0	0.0

Photo Grid Descr: K5 K6 S2-19 LESS 63 AC.-128-78

HEL 027 A027 WL CW FW PC AW MW PCW MG RW CWTE CWNA
N N N N

OWNER 1 - EVERETT E VAN BEEK

RECEIPT
WATER RIGHTS PROGRAM
South Dakota Department of Environment and Natural Resources

Date December 6, 20 06

RECEIVED OF Ed Van Beek, Box 416, Pollock SD 57648

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	275	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. _____	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	325.00

No.

02667

By

Darland White
Chief Engineer *gm*



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

December 1, 2006

Ed Van Beek
Box 416
Pollock SD 57648

Dear Mr. Van Beek:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation from groundwater. In order to complete the application the following is required.

- The application/license filing fee will be \$325.00

If you have any questions, please contact me.

Sincerely,

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6779-3, Ed Van Beek**

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. 6779-3, Ed Van Beek, Box 416, Pollock SD 57648.

The Chief Engineer is recommending APPROVAL of Application No. 6779-3 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. 6779-3 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
January 2, 2007

REPORT ON WATER PERMIT APPLICATION NO. 6779-3

For Ed Van Beek
December 27, 2006

Application No. 6779-3 proposes to appropriate 2.22 cfs from one well approximately 216 feet deep located in the approximate center of the SE $\frac{1}{4}$ of section 19 to irrigate 232.4 acres located in the S $\frac{1}{2}$ of section 19; all in T128N R78W in Campbell County. Water Right No. 2570-3A authorizes irrigation of the same lands from the Missouri River.

AQUIFER – GRAND (G)

The Grand is a buried outwash (sand and gravel) and alluvium from the ancient Grand River channel (Koch, 1970). The aquifer underlies 97,900 acre and contains an estimated 1.5 million acre-feet of recoverable water in storage in Campbell County (Hedges, 1982). The aquifer is under artesian conditions at this site however, the behavior of the water levels has been more like a water table situation. This is probably because of the proximity of the Missouri River (Lake Oahe) which acts as a control on the water levels in the aquifer. Ground water movement is from northwest to southeast in this area of Campbell County (Koch, 1970). Koch reported significant rises in the water levels as a result of the filling of Oahe Reservoir. What happened was that as the reservoir filled ground water actually rose in response. The reservoir level actually behaves like a dam causing ground water levels to back up or rise.

No test well log was filed with this application. There is an existing irrigation well log for a well located about 1,900 feet northwest of this site which indicates fine sand from 146 to 165 feet, medium to coarse sand from 165 to 180 feet, fine to medium sand from 180 to 190 feet, medium to coarse sand from 190 to 210 feet and coarse sand and gravel from 210 to 216 feet all below land surface. The well was tested and was capable of 800 gpm with about 103 feet of drawdown. This would be a specific capacity of about 7 gpm/ft of drawdown. The aquifer map published in the county study indicates the aquifer can be expected to be 25 to 50 feet thick in this area (Koch, 1970).

The Water Rights Program monitors two observation wells in this area that are completed into the Grand aquifer. Observation well CA-80A is located about two miles west of this application and observation well CA-78A is located about six miles southeast of this application. Water levels for these wells show good response to climatic conditions and to pumping. The observation nearest the lake does not show the magnitude of fluctuation in head pressure that CA-78A shows. Hydrographs for these two observation wells are included with this report.

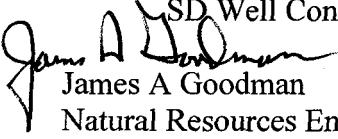
REVIEW OF EXISTING WATER PERMITS/RIGHTS

There is an existing irrigation water permit No. 6605-3 (4.57 cfs, 320 acres) for a well located about 1,900 feet northwest of this proposed site. Interference is likely. There will overlapping cones of depression between the two wells. Testing of the existing

irrigation well indicates that drawdown will be significant but the pumping level was near the top of the aquifer. It is not possible at this time to determine the total effect of pumping. However it will be necessary to put the production well in and pump it to find out the magnitude of interference. It is not expected that interference will be adverse.

CONCLUSIONS

1. Water is available from the Grand aquifer.
2. The aquifer is under artesian conditions at this site. However, the water levels behave more like a water table situation at this site. This is probably due to the nearness of Oahe Reservoir. Pumping will create drawdown and there will be interference between the wells. This is not expected to be adverse.
3. Water levels have declined by over 45 feet in the observation well CA-80A since 1999 which corresponds to the lowering of the reservoir during the same time period.
4. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.


James A Goodman
Natural Resources Engineer

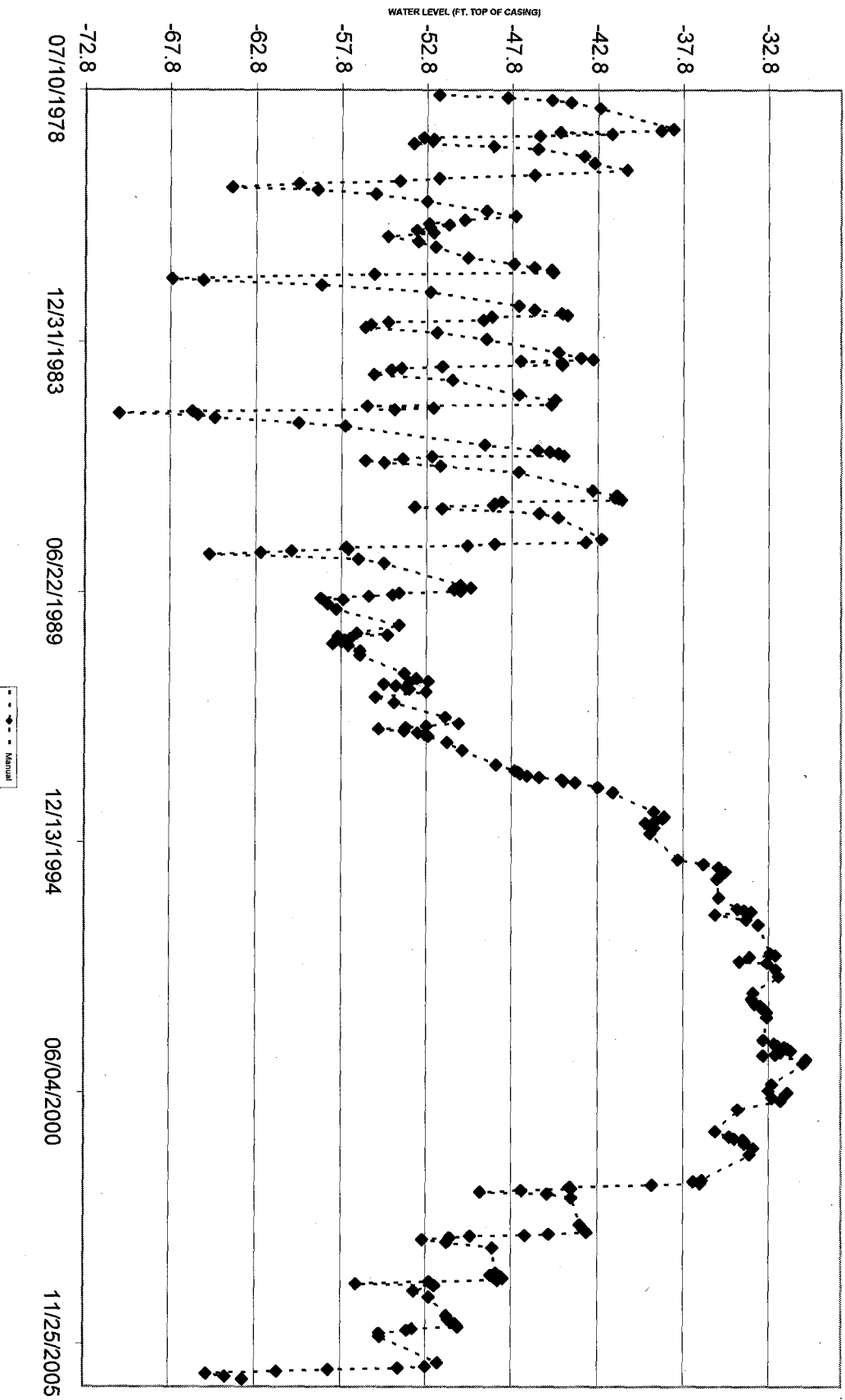
BIBLIOGRAPHY

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.

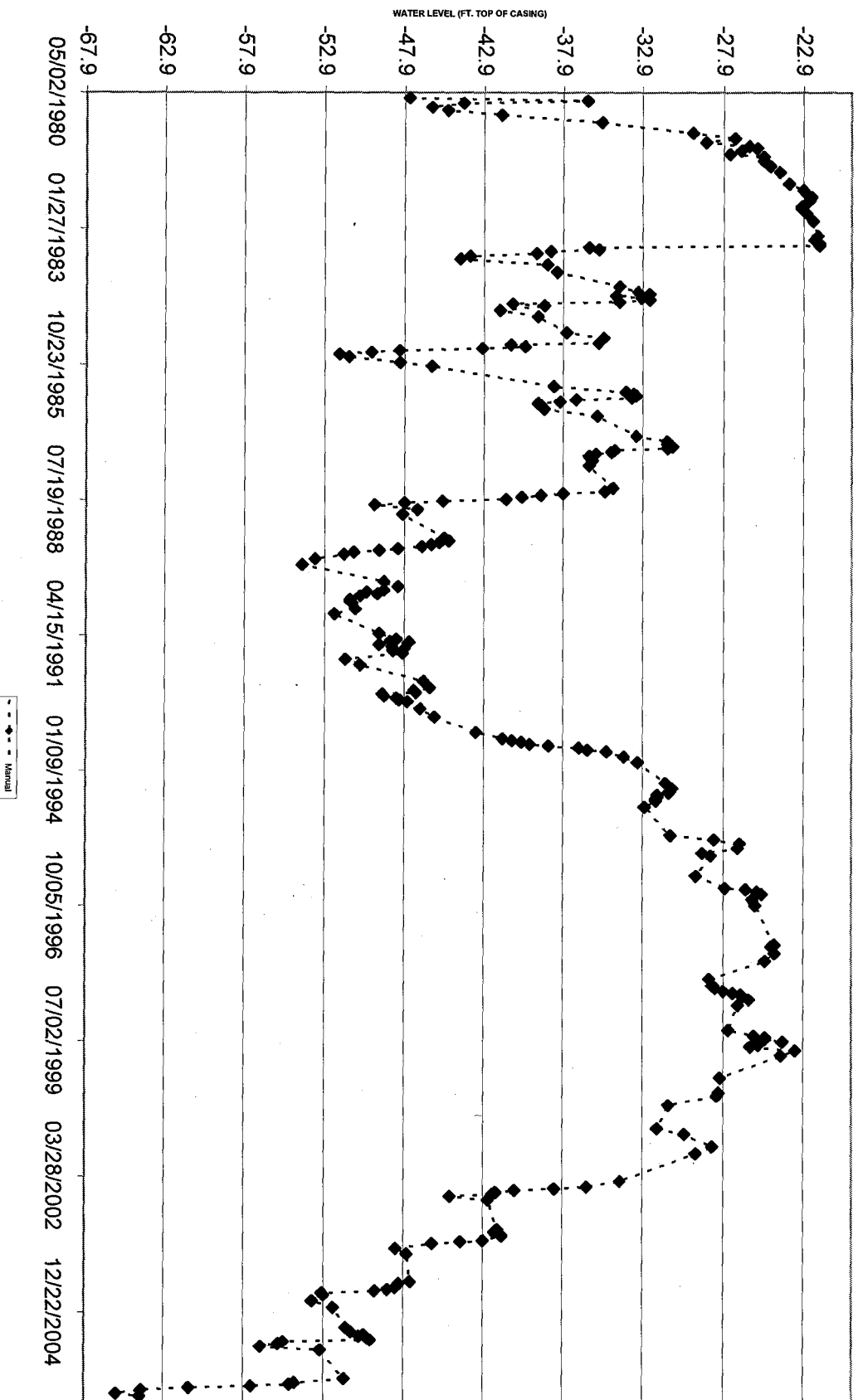
Koch, N.C., 1970, Geology and Water Resources of Campbell County, South Dakota, Bulletin 20, Part II Water Resources, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 2005, Unpublished Observation Well Data for Campbell County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL CA-78A



WATER RIGHTS' OBSERVATION WELL CA-80A





January 3, 2007

Prairie Pioneer
PO Box 218
Pollock SD 57648-0218

ATTENTION: Legal Public Notice

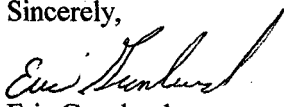
Enclosed is a Notice on Application No. 6779-3 to Appropriate Water to be published twice. Please publish the first notice on January 11, 2007 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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 Ed Van Beek, Box 416, Pollock SD (Ph # 605-889-2836).

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. 6779-3

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

Date _____

We are in receipt of your letter of January 3, 2007 enclosing Notice to Appropriate Water by Application No. 6779-3 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.

January 3, 2007

Ed Van Beek
Box 416
Pollock SD 57648

Dear Mr. Van Beek:

Water Permit Application No. 6779-3 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 Prairie Pioneer printed at Pollock, SD (Ph # 605-889-2320). 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 a 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 January 11, 2007 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6779-3 to Appropriate Water

Notice is given that Ed Van Beek, Box 416, Pollock SD 57648 has filed an application for a water permit to appropriate 2.22 cubic feet of water per second from one well to be completed into the Grand Aquifer (approximately 216 feet deep) located in the approximate center of the SE ¼ Section 19 to irrigate 232.4 acres located in the S ½ Section 19; all in T128N-R78W. Water Right No. 2570-3A authorizes irrigation of the same lands from the Missouri River.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6779-3 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 the 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 the 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 January 29, 2007.

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.

PROOF OF PUBLICATIONSTATE OF SOUTH DAKOTA)
County of Campbell) SSI, Leah Burke

certify that the attached printed Notice was taken

from the Prairie Pioneerprinted and published in PollockCounty of Campbell and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

Jan. 11, 2007Jan. 18, 2007Cost of Printing \$45.14Leah Burke

(Signature)

Secretary

(Title)

1/18/07

(Date Signed)

**Notice of
Application
No. 6779-3
To Appropriate
Water**

Notice is given that Ed Van Beek, Box 416, Pollock, SD 57648 has filed an application for a water permit to appropriate 2.22 cubic feet of water per second from one well to be completed into the Grand Aquifer (approximately 216 feet deep) located in the approximate center of the SE1/4 Section 19 to irrigate 232.4 acres located in the S1/2 Section 19; all in T128N-R78W. Water Right No. 2570-3A authorizes irrigation of the same lands from the Missouri River.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6779-3 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 the 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 the application. Notice of the hearing will be given to the applicant and any person filing a petition.

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**Steve M. Pirner,
Secretary
Department of
Environment and
Natural Resources**

2-3

RECEIVED**JAN 22 2007****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

FEB 15 2007

Ed Van Beek
Box 416
Pollock SD 57648

Dear Mr. Van Beek:

Enclosed is Water Permit No. 6779-3 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

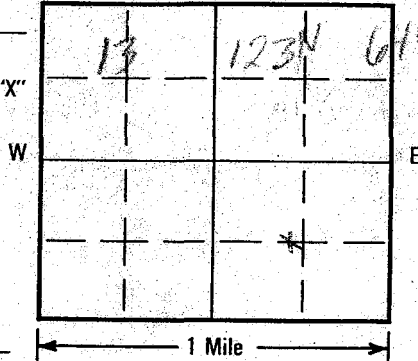
6779-3

07-92

Location NW 1/4 SE 1/4 Sec 19 Twp 128N Rg 78W

County Campbell North

Please mark well location with an "X"



Well Completion Date

4-26-07

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 2600 ft. from Septic Tank (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Forwary Rotary

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>SDR21 LB/FT</u>	<u>12 IN</u>	<u>+1 FT</u>	<u>176 FT</u>	<u>17.5 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> Bentonite Grout </u>	<u> 53 </u>	<u> 9.5 lb./gal </u>	<u> 0 ft </u>	<u> 146 ft </u>

Describe grouting procedure Tremie line from 146' to top of hole

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 12 IN Length 40 FEET

Material PVC

Slot Size 1050 Set From 176 Feet to 216 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: chlorinated

☐ NO, Why Not? water

Laboratory sent to for water quality analysis _____

Well Owner: Ed VanBeek

Business Name: _____

Address: Pollock, SD

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top Soil</u>	<u>0</u>	<u>2</u>
<u>Yellow Clay</u>	<u>2</u>	<u>45</u>
<u>Blue Clay</u>	<u>45</u>	<u>146</u>
<u>Fine Sand</u>	<u>146</u>	<u>162</u>
<u>medium to coarse sand</u>	<u>162</u>	<u>216</u>
<u>Shale</u>	<u>216</u>	

STATIC WATER LEVEL 60 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 Pump

☐ Bailed _____

☐ Other _____

Pumping Level Below Land Surface

88 ft. After 2 Hrs. pumped 1100 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

RECEIVED

JUN - 7 2007

WATER RIGHTS PROGRAM

This well was drilled under license # 285

And this report is true and accurate.

Drilling firm _____

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder:

Ed Van Beek

Date: 4/26/07

Water Permit No. 6779-3
Missouri River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, **September 27, 2016**, made a thorough examination of the water use system constructed by **Ed Van Beek** of **PO Box 416, Pollock, SD 57648** holder of Permit No. **6779-3**, bearing the priority of **November 30, 2006** authorizing the diversion of **2.22** cu. ft. per second of water from the **Grand Aquifer** for **Irrigation** purposes, in **Campbell** County.

Inspection contact & relationship **Ed Van Beek (889-2836, 848- 1080 cell)**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: **Manikowski Well Drilling, Inc**
- 2) No. of Wells **1**
- 3) Depth(s) **216** feet
- 4) Well log is available **Y**

Casing:

- 1) Diameter **12** inches
- 2) Length **176** feet
- 3) Type **Plastic**

Screen:

- 1) Type **PVC**
- 2) Length **40** feet
- 3) Static water level **60** feet

Pump:

- 1) Make **Grundfos**
- 2) Model **800S-750**
- 3) Size **75 hp**
- 4) Capacity **800** GPM

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

- 1) Type Buried Pipe

C. Works used to apply water to beneficial use:**Center pivot:**

- 1) Make (2) Valley
- 2) Number of towers 7
- 3) End gun Y
- 4) High or low pressure Low
- 5) Capacity 900 GPM

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

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

The system is in Good condition with the point(s) of diversion located as follows:

Approximately 1,350 feet north and 1,386 feet west of the SE corner of Section 19-T128N-R78W
(N 45.88807, W -100.32272) (NW ¼ SE ¼)

The works are capable of diverting and conveying to the place of use 1.78 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:

Section 19-T128N-R78W

NW ¼ SE ¼ - 39 acres

NE ¼ SE ¼ - 32 acres

SW ¼ SE ¼ - 39 acres

SE ¼ SE ¼ - 32 acres

NW ¼ SW ¼ - 1.5 acres

NE ¼ SW ¼ - 36 acres

SW ¼ SW ¼ - 1.5 acres

SE ¼ SW ¼ - 36 acres

comprising a total of 217 acres of land and the license should be issued for 1.78 cfs.

All structures, wells and lands on map Y

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

The well is only used in the event water from the Missouri River is unavailable and this system is capable of operating one pivot at a time. The pumping system used to irrigate the same acreage from the Missouri River authorized by Water Right No. 2570-3A is still operational.



Mike DeFea

Natural Resources Engineer II
 DENR, Water Rights Program

Date report completed: October 26, 2016

Ed Van Beek
Water Permit No. 6779-3



Mike DeFea
Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
October 26, 2016

0 0.125 0.25 0.5 Miles



South Dakota
Department of Environment
& Natural Resources
Protecting SD's Tomorrow...Today



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

JAN 30 2017

6779-3

Ed Van Beek
PO Box 416
Pollock SD 57648

Dear Mr. Van Beek:

Enclosed is Water License No. 6779-3. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the 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. 6779-3, 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,

A handwritten signature in black ink that reads 'Jeanne Goodman'. The signature is fluid and cursive, with the first name 'Jeanne' being more prominent than the last name 'Goodman'.

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

enclosures

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 6779-3

(1) Ed Van Beek, PO Box 416, Pollock SD 57648 made Application No. 6779-3, November 30, 2006 for a water permit to divert 2.22 cubic feet of water per second from one well - Grand Aquifer, Campbell County, South Dakota for irrigation purposes. Permit No. 6779-3, with a priority date of November 30, 2006 was approved January 29, 2007 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before January 29, 2012 and for the application to beneficial use of water on or before January 29, 2016.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 6779-3 is issued a license, bearing a priority date of November 30, 2006 to appropriate 1.78 cubic feet of water per second from one well - Grand Aquifer to irrigate 217 acres.

The diversion point is located: approximately 1,350 feet N and 1,386 feet W of the SE corner of Section 19-T128N-R78W (NW 1/4 SE 1/4). The acres authorized for irrigation are as follows:

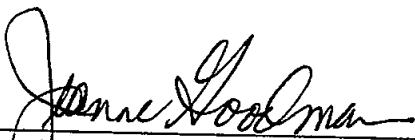
Section 19-T128N-78W	NW 1/4 SE 1/4	39 ac	NW 1/4 SW 1/4	1.5 ac
	NE 1/4 SE 1/4	32 ac	NE 1/4 SW 1/4	36 ac
	SW 1/4 SE 1/4	39 ac	SW 1/4 SW 1/4	1.5 ac
	SE 1/4 SE 1/4	32 ac	SE 1/4 SW 1/4	36 ac

Total 217 acres

Water Right No. 2570-3A authorizes irrigation of the same acreage from the Missouri River.

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6779-3 including 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 well authorized by Permit No. 6779-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. *The well was drilled by Manikowski Drilling in 2007. A copy of the log is 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

JAN 30 2017

date

