

WATER PERMIT NO. 6774-3

Name of Applicant: R & R Farms

Address: 17464 417th Ave, Raymond SD 57258

Phone: 605 532-4006

Amount of Water Claimed: 3.89 cfs

Total Acres: 272 acres

Source of Water Supply: groundwater (two wells)

Water to be used for: irrigation

County: Clark

Type of Waste Disposal System:

Location: 6 miles west of Clark

PRIORITY

Date Received: 11-20-06

Application/License Fee: \$300

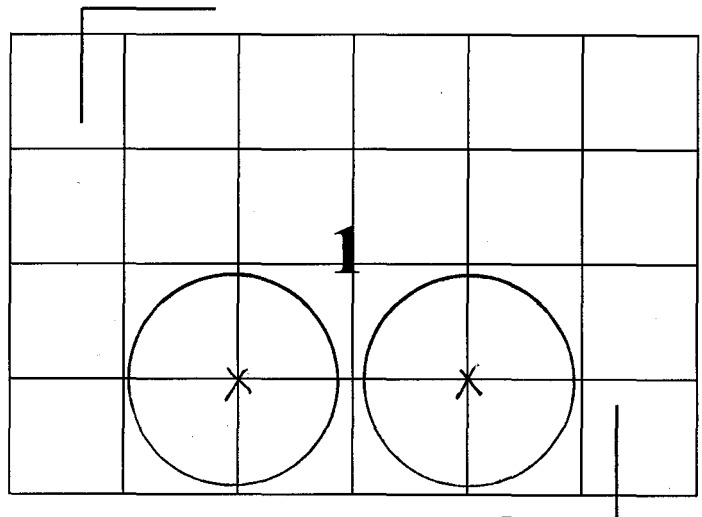
Corrected Application Received:

Period of Annual Use: May 1 – October 31

Remarks:

Diversion Point: centers of SE ¼ and SW ¼ Sec 1-T116N-R59W

Land to be Irrigated: S ½ Sec 1-T116N-R59W



Depth of Well: 180 feet

Well Driller: Manikowski Well Drilling Inc.

Remarks:

Type of Map: aerial

Prepared by: ?, Clark Co FSA

Reviewed and the Number Assigned on: 11-21-06

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>6774-3</u> (office use only)
	Hydrologic Unit <u>101600006</u>
	Basin <u>James River</u>
	Newspaper <u>Clark Co. Courier</u>

RECEIVED
NOV 20 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.) _____

1. Name of Applicant R + R Farms (Randy & Ryan Helken) Phone 605-532-4006
(check one) ☒ Owner ☐ Tenant/lessee
- Mailing Address 17464 517th Ave Raymond State S.D. 57258
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 3.89*CFS or 1750**GPM ***AF Total Acreage 272 A.
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply wells in Altamont Aquifer (approximate center)
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 1 well in SE 1/4 1-116-59
in Altamont Aquifer
1 well in SW 1/4 1-116-59 in Altamont Aquifer County Clark
5. County or counties where water will be used Clark County
6. Annual period during which water is to be used May 1 to October 31
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
SE 1/4 1-116-59	136		
SW 1/4 1-116-59	136		

8. Give a description of the project. (Attach sheet if more space is needed)
Proposed irrigation of 272 A cropland sec 1 105m Twp. Clark
County S. Dak. Wells should be in the center of the section
by the systems.

STATE OF SOUTH DAKOTA) SS
County of Clark

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, R + R Farms By Randy Helken, 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 R + R Farms By Randy Helken

Subscribed and sworn to before me this 16th day of November 2006

R. Mangelson
Notary Public signature

expiration 3-7-2011

**SOUTH DAKOTA
WATER PERMIT NO. 6774-3**

Date of first receipt of application November 20, 2006.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6774-3 to R & R Farms, c/o Randy Helkenn, 17464 417th Ave, Raymond SD 57258 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. 6774-3 appropriate 3.89 cubic feet of water per second from two wells to be completed into the Altamont Aquifer (approximately 180 feet deep) located in the approximate centers of the SE ¼ and SW ¼ Section 1 to irrigate 272 acres located in the S ½ Section 1; all in T116N-R59W.
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 – October 31.
3. The date from which applicant may claim right is November 20, 2006.
4. The date of approval of Permit No. 6774-3 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 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.
2. The wells authorized by Permit No. 6774-3 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

MAR 08 2007

date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- test well info included

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 130 to 165 feet
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well: _____

On applicants property _____

On property owned by others 1/2 mile to west

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 _____

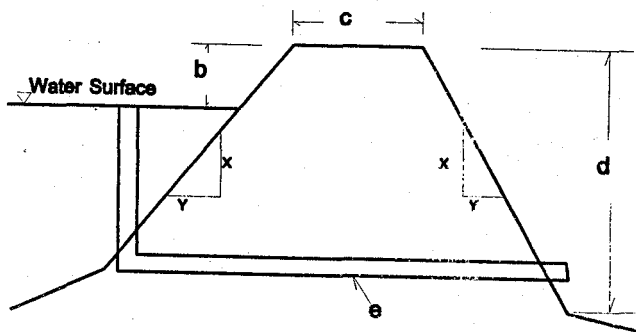
3. Dugout Information

- 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

T# 2179
Fld# 1
GIS A= 56.2

T# 2179
Fld# 2
GIS A= 10.2

T# 1738
Fld# 3
GIS A= 66.5

T# 1738
Fld# 1
GIS A= 157.1

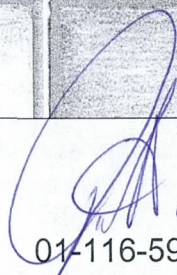
well
↓

136 A

T# 1744
Fld# 1
GIS A= 74.5

well
↓
136 A

T# 1738
Fld# 2
GIS A= 152.7

 CED PSA
01-116-59

United States Department of Agriculture
Farm Service Agency

Clark County



January 15, 2004

1997 Digital Orthophotography - Not To Scale

2005

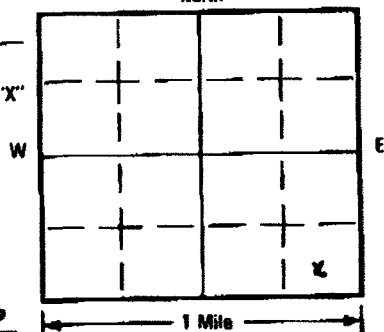
SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location SE 1/4 SE 1/4 Sec 1 Twp 11S Rg 59
County Clark

Please mark well location with an "X"

Well Completion Date

10-10-06

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well,

feed lot, etc.)? 3000 ft. from stock pond (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Forward RotaryCASING DATA: ☐ Steel ☐ Plastic ☐ OtherIf other describe None Installed

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
____ LB/FT	____ IN	____ FT	____ FT	<u>4 3/4</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>High Set</u>	<u>4</u>	<u>9</u> lb./gal	<u>0</u> ft.	<u>130</u> ft.
<u>benlate</u>		lb./gal	ft.	ft.
<u>Grout</u>		lb./gal	ft.	ft.

Describe grouting procedure Tremie line from 130' to TopSCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ IN Length _____ FEET

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

____ YES, How: _____

____ NO, Why Not? _____

Laboratory sent to for water
quality analysis _____Well Owner: RZR Farms

Business Name: _____

Address: 17464 417th Ave
Raymond, SD

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	1
yellow clay	1	22
Overizeel Sand	22	26
Yellow clay	26	44
Blue clay & blue rocky	44	80
Blue Clay	80	130
Sand Some Coarse	130	165
Clay & sand layers	165	174
Clay - Blue	174	180

STATIC WATER LEVEL _____ 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: _____☐ Bailed _____☐ Other _____

Pumping Level Below Land Surface

____ ft. After _____ Hrs. pumped _____ GPM

____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

This well was drilled under license # 285

And this report is true and accurate.

Drilling firm Manikowski Well Drilling, Inc.

Signature of License Representative:

Ryan Manikowski

Signature of Well Owner or Equitable Property Holder:

Ryan ManikowskiDate: 10-10-06

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date November 21, 20 06

RECEIVED OF R & R Farms, 106 S Dak St., Clark SD 57225

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

Fee for Application for Permit No. <u>6774-3</u> to Appropriate Water, to construct and to put water to beneficial use	300	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>6774-3</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	350.00

No.

02645

By

Darland Erbe
Chief Engineer gn



**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. 6774-3, R & R Farms**

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. 6774-3, R & R Farms, c/o Randy Helkenn, 17464 417th Avenue, Raymond SD 57258.

The Chief Engineer is recommending APPROVAL of Application No. 6774-3 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 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.
2. The wells authorized by Permit No. 6774⁴-3 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. 6774-3

For R & R Farms
December 22, 2006

Application No. 6774-3 proposes to appropriate 3.89 cfs (1,746 gpm) from two wells approximately 165 feet deep located in the approximate centers of the SE $\frac{1}{4}$ and SW $\frac{1}{4}$ of section 1 to irrigate 272 acres located in the S $\frac{1}{2}$ of section 1; all in T116N R59W in Clark County.

AQUIFER – ALTAMONT (A)

The Altamont is a buried outwash (sand and gravel) that is under water table or slightly artesian conditions at this site. The aquifer underlies 537,200 acres and contains an estimated 3.326 million acre-feet of recoverable water in storage in Clark County (Hedges, 1982). Ground water movement is from east to west across the area of this application (Hamilton, 1986). The Altamont aquifer as described in the Hedges report is roughly equivalent to the combined Altamont No. 2 and Altamont No. 3 aquifers as described in the Hamilton report. Hamilton reported that the Altamont No. 2 aquifer (source of this application) has an extent of 630 square miles and contains an estimated 3.23 million acre-feet of water in storage in Clark County (Hamilton, 1986). Hamilton also reported the Altamont aquifer receives about 54,000 acre-feet of recharge annually.

A test well log provided by the applicant indicates medium to coarse sand from 130 to 165 feet with clay and sand from 165 to 174 feet below land surface. This correlates well with the other information available in the county study, observation wells and other well logs for the area. No water level or production data is provided with this application for this test well.

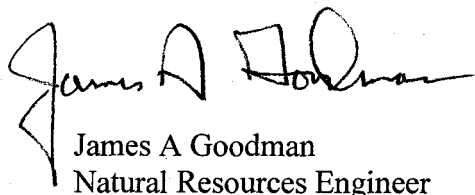
The Water Rights Program monitors an observation well in this immediate area. Observation well CK-78F is located about one-quarter mile west of the nearest proposed well in the SW $\frac{1}{4}$ of section 1. Water levels for the observation well show good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years. Also there is an obvious response although small (fluctuation of water levels) to area irrigation well pumping (Water Rights, 2006). A hydrograph for observation well CK-78F is included with this report.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

Existing Water Permit No. 6501-3 (120 acres, 1.71 cfs) and Water Right No. 4783-3 (0.85 cfs, 60 acres) use the same well as a source. The nearest proposed production well to the existing well is located about one-half mile to the east. Interference is not expected to be a problem. Although drawdown can be expected the amount of drawdown should not be significant. This is shown by the observation well record. The observation well is coincidentally located directly between these users.

CONCLUSIONS

1. Water is available from the Altamont aquifer.
2. The aquifer is under slightly artesian conditions at this site. Pumping will create drawdown but this is not expected to be significant nor cause any adverse effects. This is shown by the observation well record.
3. The wells authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. This area has been controversial in the past. An irrigation permit No. 6560-3 was a contested case hearing in front of the Water Management Board. Springs or a fen located in section 24, T117N R59W and used for domestic water were the main point of contention. The Water Management Board issued the irrigation permit and qualified the permit to protect this domestic source of water. This permit application is located about four miles to the south of the spring area. There should be no need to qualify this application to protect the springs because the distance separating the sites.
5. It will be interesting to see what an individual well will product in this area. The water level should be near the top of the aquifer and the aquifer is only 35 feet thick. It is doubtful a production well at this site would produce the amount of water requested but that remains to be seen. Any potential well site should be carefully evaluated because the relatively low water level and the thin nature of the formation. If a site could be found where the gravel is thicker and deeper in elevation this would help well yields considerably.

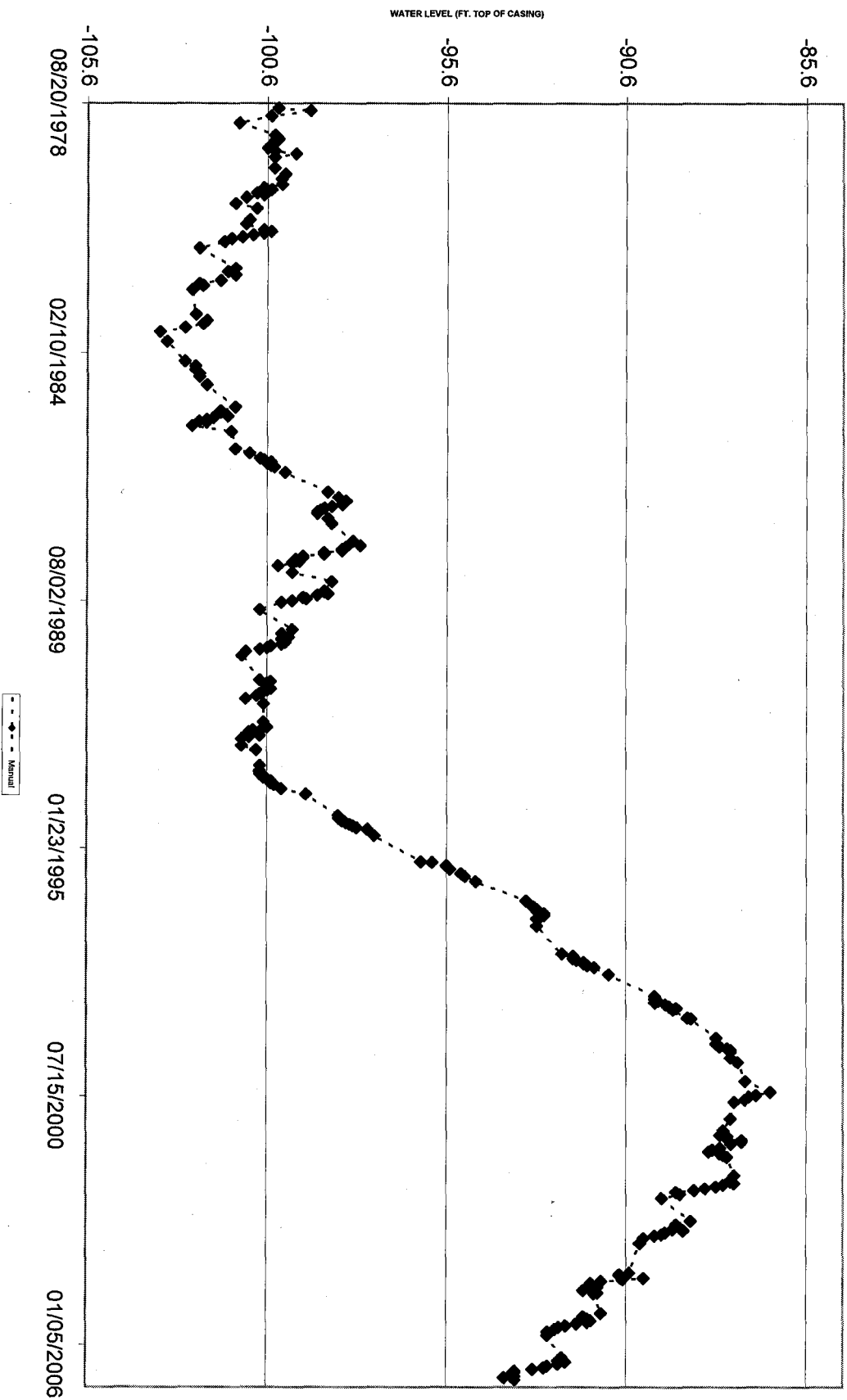


James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

- Hamilton, L.J., 1986, Geology and Water Resources of Clark County, South Dakota, Bulletin 29, Part II: Water Resources, SD DENR, SDGS, Vermillion, SD, 57069.
- Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.
- Water Rights, 2006, Unpublished Observation Well Data for Clark County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
CK-78F



Form 8

RECEIVED

FEB 22 2007

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Clark) SS

I, Jessica Anderson

certify that the attached printed Notice was taken

from the page 9

printed and published in Clark County Courier

County of Clark and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

1-10-07

1-17-07

Cost of Printing \$40.52

Jessica Anderson
(Signature)

(Title)

2/12/07
(Date Signed)

NOTICE OF APPLICATION NO.

6774-3 to Appropriate Water

Notice is given that R & R Farms, c/o Randy & Ryan Helkenn, 17464 417th Ave, Raymond, SD 57258 have filed an application for a water permit to appropriate 3.89 cubic feet of water per second from two wells to be completed into the Altamont Aquifer (approximately 180 feet deep) located in the approximate centers of the SE 1/4 and SW 1/4 Section 1 to irrigate 272 acres located in the S 1/2 Section 1; all in T116N-R59W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6774-3 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 Engineers 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 engineers recommendation. The Chief engineers 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.

1-10-2t



January 3, 2007

Clark Co Courier
119 1st Ave E
Clark SD 57225

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6774-3 to Appropriate Water to be published twice. Please publish the first notice on January 10, 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 R & R Farms, % Randy and Ryan Helkenn, 17464 417th Ave, Raymond SD (Ph # 605-532-4006).

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. 6774-3

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. 6774-3 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

R & R Farms
% Randy & Ryan Helkenn
17464 417th Ave
Raymond SD 57258

Dear Sirs:

Water Permit Application No. 6774-3 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 Clark Co. Courier printed at Clark, SD (Ph # 605-532-3654). 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 10, 2007 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6774-3 to Appropriate Water

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MAR 08 2007

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

R & R Farms
c/o Randy Helkenn
17464 417th Ave
Raymond SD 57258

Dear Mr. Helkenn:

Enclosed is Water Permit No. 6774-3 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

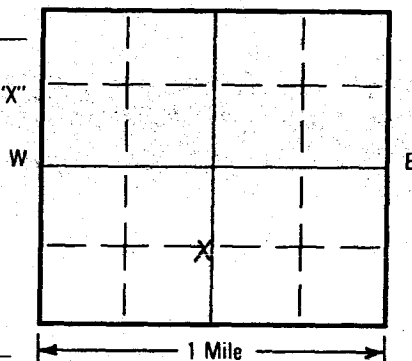
6774-3

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NE 1/4 SW 1/4 Sec 1 Twp 16N Rg 59W
County Clark

Please mark well location with an "X"



Well Completion Date

7-4-07

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 3800 ft. from Septic System (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Forward RotaryCASING DATA: ☐ Steel ☐ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>6.55 LB/FT</u>	<u>12 IN</u>	<u>+1 FT</u>	<u>160 FT</u>	<u>1 1/2 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>Subsidiary</u>	<u>29</u>	<u>9.4 lb./gal</u>	<u>0 ft</u>	<u>146 ft</u>
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure Grout was pumped from 146 to top of formationSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 12 IN Length 60 FEETMaterial PVCSlot Size: 050 Set From 160 Feet to 220 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: Chlorination

Laboratory sent to for water quality analysis

☐ NO, Why Not? pumped from bottom of screen top with Tremie line and chlorine water flushed fromWell Owner: RTR Farms

Business Name:

Address: 106 SD St
Clark SD

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	1
yellow oxidized sand	1	15
yellow clay	15	21
blue clay	21	95
sand stops fine to medium		
between blue clay layers	95	160
oxidized sand & gravel	160	180
blue coarse sand & gravel	180	221
shale	221	236

STATIC WATER LEVEL 125'4" 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:

☒ PumpedDescribe: Submersible Turbine☐ Bailed☐ Other

Pumping Level Below Land Surface

148 ft. After 3 Hrs. pumped 800 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate RECEIVED GPM

REMARKS

AUG - 8 2007

WATER RIGHTS PROGRAM

This well was drilled under license # 285

And this report is true and accurate.

Drilling firm Man-Kowske Well Drilling, Inc.

Signature of License Representative:

Byron M... [Signature]

Signature of Well Owner or Equitable Property Holder:

Date:

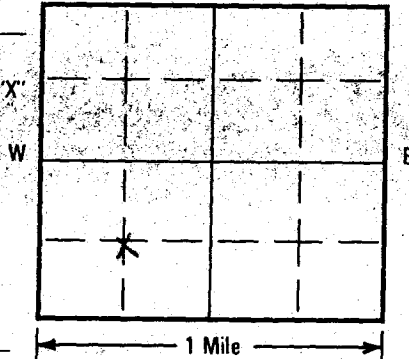
SOUTH DAKOTA WATER WELL COMPLETION REPORT

6774-3

07-92

Location SW 1/4 SW 1/4 Sec 1 Twp 116N Rg 59W
County Clark

Please mark well location with an "X"



Well Completion Date

6-29-07

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.) 3000 ft. from septic system (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Forward Rotary

CASING DATA:

- ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>1655</u> 200 LB/FT	<u>12</u> IN	<u>11</u> FT	<u>144</u> FT	<u>17 1/2</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>Bentonite</u>	<u>17</u>	<u>9.8</u> lb./gal	<u>0</u> ft	<u>70</u> ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure Bentonite to grout pumped
then the casing from 70 to top of backhole

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 12 IN Length 60 FEET

Material PVC

Slot Size 051 Set From 144 Feet to 204 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: Chlorinate

☒ NO, Why Not? water

Washed into well

Well Owner: R & R Farms

Business Name: _____

Address: 106 SD St

Clark, SD

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	2
yellow clay	2	30
Oxidized Gravel	30	40
Sandy yellow clay	40	72
Oxided sand & Gravel	72	153
Grey Sand Gravel - Rocks	153	204
Blue clay Till	204	206

STATIC WATER LEVEL 108 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

113 ft. After 3 Hrs. pumped 900 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate 800 GPM

REMARKS

RECEIVED

AUG - 8 2007

WATER RIGHTS
PROGRAM

This well was drilled under license # 285

And this report is true and accurate.

Drilling firm Man. Kowski Well Drilling, Inc.

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

R & R Farms by R & R Well

Date: 6-29-07

Laboratory sent to for water quality analysis

Water to be used for crop irrigation



6774-3
DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES
JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

JUN 14 2023

R & R Farms
c/o Randy Helkenn
17464 417th Ave
Raymond SD 57258

6774-3

Dear Mr. Helkenn:

Enclosed is Water License No. 6774-3. 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 in the future, the owner of an existing well, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6774-3

(1) R & R Farms; c/o Randy Helkenn, 17464 417th Ave, Raymond SD 57258, made Application No. 6774-3, November 20, 2006 for a water permit to divert 3.89 cubic feet of water per second from groundwater, two wells (Altamont Aquifer), Clark County, South Dakota for irrigation purposes. Permit No. 6774-3, with a priority date of November 20, 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.

An investigation conducted for licensing purposes found the diversion point and acreage developed for irrigation under Water Permit No. 6774-3 were not in the locations authorized by the permit. Pursuant to SDCL 46-5-13.1 and 46-5-30.5, the Chief Engineer makes a finding that existing water rights will not be impaired and the overall project, as developed, is consistent with the original application.

(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 1.78 cubic feet of water per second for beneficial use. The location of the diversion points are:

- Well #1: 1,320 ft N & 1,315 ft E of the SW corner of Section 1, T116N, R59W (NW ¼ SW ¼) (Latitude 44.88113 Longitude -97.87139)
- Well #2: 1,480 ft N & 2,625 ft E of the SW corner of Section 1, T116N, R59W (NE ¼ SW ¼) (Latitude 44.88120 Longitude -97.86627)

(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 1, T116N, R59W			
NW ¼ SW ¼	35.1 acres	NW ¼ SE ¼	34.9 acres
NE ¼ SW ¼	35.3 acres	NE ¼ SE ¼	35.2 acres
SE ¼ SW ¼	30.9 acres	SE ¼ SE ¼	30.1 acres
SW ¼ SW ¼	29.4 acres	SW ¼ SE ¼	31.6 acres
TOTAL 262.5 acres			

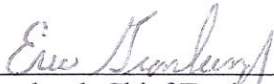
(4) Pursuant to South Dakota Water Law 46-5-30.1 R & R Farms, the holder and/or owner of Water Right No. 6774-3 is issued a license to appropriate water, the right to use 3.56 cubic feet of water per second from groundwater, two wells (Altamont Aquifer) with a priority date of November 20, 2006 from the location 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. 6774-3 and subject to the following qualifications:

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

continued

2. The wells authorized by Permit No. 6774-3 shall be constructed by a licensed well driller and construction of the wells and installation of the pump shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. *(The wells were drilled by Manikowski Well Drilling Inc. in 2007. A copy of the well completion reports are on file with the Water Rights Program.)*
3. This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.



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

JUN 14 2023

date



Approval of Location Change and/or Additional Diversion Point(s)

NAME: R&R Farms % Randy Helkenn

ADDRESS: 17464 417th Ave, Raymond SD

DATE: June 13, 2023

COUNTY: Clark

GENERAL DESCRIPTION OF AUTHORIZED PROJECT:

The permit holder is authorized to construct two 180 foot deep wells into the Altamont Aquifer in the center of the SW1/4 and the SE1/4 of Section 1 T116N-R59W for irrigation of 272 acres in the S1/2 of Section 1 T116N-R59W.

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**

The permit holder constructed two 180 foot deep wells into the Altamont Aquifer in the center of the SW1/4 and the second well in NE1/4 SW1/4 of Section 1 T116N-R59W

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

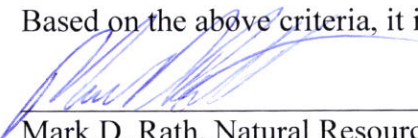
The permit holder is developed 262.5 acres in the S1/2 of Section 1 T116N-R59W

- **Review of Existing Diversions**

There are five existing water permits/rights within a mile of where the this well was developed. Three of the five were existing permits/rights when this permit was issued, it was determined that there was reasonable probability any well interference due to pumping of this well would not adversely or unlawfully impair existing rights. The same would be expected for the well constructed in the new location.

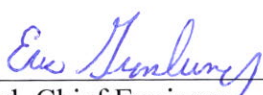
RECOMMENDED ACTION

Based on the above criteria, it is recommended that the diversion point(s) be licensed as developed.


Mark D. Rath, 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.


Eric Gronlund, Chief Engineer
Water Rights Program

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 6774-3

I have this day, May 24, 2023, made a thorough examination of the water use system constructed by R & R Farms, c/o Randy Helkenn, 17464 417th Ave, Raymond, SD 57258 of Permit No. 6774-3, bearing the priority of November 20, 2006 authorizing the diversion of 3.89 cu. ft. per second of the waters of the Altamont Aquifer for irrigation purposes, in Clark County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Manikowski Well Drilling
- 2) No. of Wells 2
- 3) Depth(s) #1 - 204 #2 - 220 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 12 inches
- 2) Length 144 & 160 feet
- 3) Type Plastic

Screen:

- 1) Type PVC
- 2) Length 60 & 60 feet
- 3) Static water level 108 & 125 feet

Pump:

- 1) Make Submersibles
- 2) Model Unknown
- 3) Size Unknown
- 4) Capacity 800 EACH GPM

Motor:

- 1) Make Unknown
- 2) Model No. Unknown
- 3) Horsepower rating Unknown hp

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

- 1) Type Well #1 – Steel; Well #2 - PVC
- 2) Size 8 inches
- 3) Length 10 & 1330 feet

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

- 1) Make 2 - Valleys
- 2) Overall length 1300 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) Capacity 800 EACH GPM

Chemigation Equipment:

- 1) Does chemigate Y

Comments: **Uses commercially available injection equipment**

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

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: **WELL LOCATIONS**
From the SW corner Sec 1 T116N R59W WELL #1: 1,320 ft N & 1,315 ft E, Lat 44.88113 Long - 97.87139 (NW ¼ SW ¼) WELL #2: 1,480 ft N & 2,625 ft E, Lat 44.88120 Long -97.86627 (NE ¼ SW ¼)
 2. The works are capable of diverting and conveying to the place of use 3.56 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:

<u>legal description/acreage</u> <u>All land in Sec 1 T116N R59W</u> <u>NW ¼ SW ¼ – 35.1 acres</u> <u>NE ¼ SW ¼ – 35.3 acres</u> <u>SE ¼ SW ¼ – 30.9 acres</u> <u>SW ¼ SW ¼ – 29.4 acres</u>	<u>legal description/acreage</u> <u>NW ¼ SE ¼ – 34.9 acres</u> <u>NE ¼ SE ¼ – 35.2 acres</u> <u>SE ¼ SE ¼ – 30.1 acres</u> <u>SW ¼ SE ¼ – 31.6 acres</u>
---	--
- comprising a total of 262.5 acres of land and the license should be issued for 1.78 cfs
3. All structures, wells and lands on map Y

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

The irrigated acreage was determined with the aid of FSA imagery and ArcMAPS software.

The pump rate reported in a recent Irrigation Questionnaire was used to establish the system flow capacity.

The mailing address in the permit materials as shown above is current while a new contact phone number is 605/881-1008.

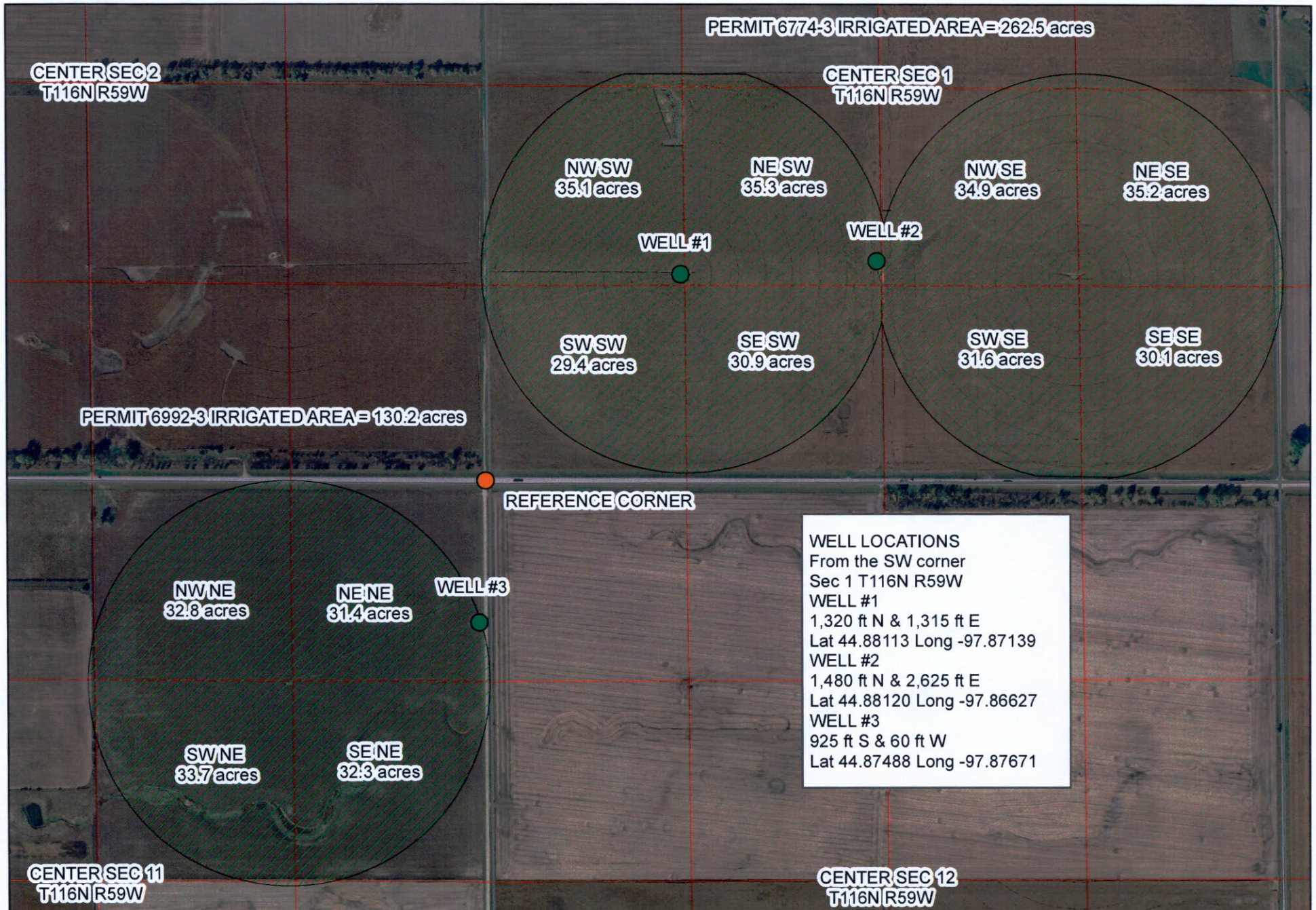
I talked to Randy Helkenn during the field inspection visit.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: June 5, 2023

6/14/23 Eric Gronlund called and spoke with Randy Helkenn on the phone. Randy verified that each diversion point was capable of 800 gpm and that the irrigation systems were able to run independently.



0 0.1 0.2 0.4 0.6 0.8 Miles



Darrell DeBoer
Water Right Inspector
DANR-Water Rights Program