

WATER PERMIT NO. 8237-3

Name of Applicant: Calvin Hanson

Address: 31524 452nd Ave, Meckling SD 57069 Phone: 605 267-4140

Amount of Water Claimed: no add'l Total Acres: 28 additional acres

Source of Water Supply: groundwater (one existing well)

Water to be used for: irrigation County: Clay

Type of Waste Disposal System:

Location: 4 miles west of Meckling

PRIORITY Date Received: 8-26-16 Application/License Fee: \$ 500

Corrected Application Received: Period of Annual Use: May 1 – September 30

Remarks: Add'l acres to Water Permit No. 7075-3

Diversion Point: NW 1/4 NE 1/4 Sec 32-T93N-
R53W

Land to be Irrigated: NW 1/4 Sec 32-T93N-R53W

Depth of Well: 90 feet

Well Driller: Christenson Well & Irrigation

Remarks:

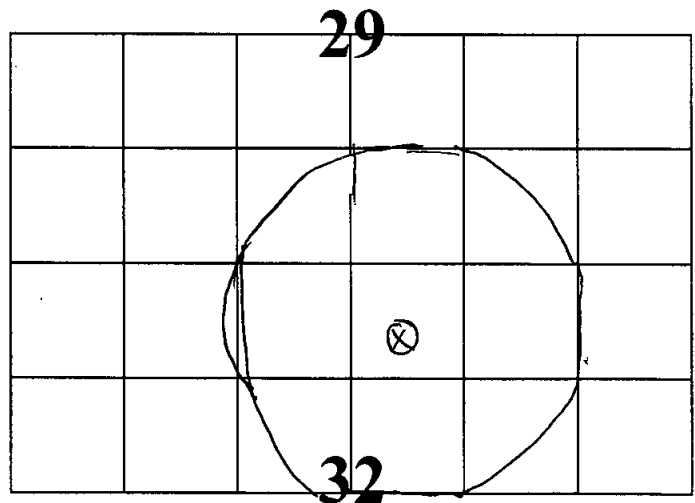
Type of Map: aerial

Prepared by: Harold Holoch

Reviewed and the Number Assigned on: 8-26-16

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



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

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8237-3</u> (office use only)
	Hydrologic Unit <u>10170101</u>
	Basin <u>Missouri River</u>
	Newspaper <u>Plain Talk, Vermillion</u> <u>Press & Dakotan, Yankton</u>

RECEIVED
AUG 26 2016
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 to Appear on Irrigation Permit Calvin Hanson

Note: The "Name to Appear on Irrigation Permit" must be the name in which the property to be irrigated is held in.

Mailing Address 31524 452nd Ave Meckling SD 57069
(Address) (City) (State) (Zip Code)

Phone _____ Mobile 605 661-6393 Email _____

2. Amount of water claimed no add'l *CFS or 51 **GPM 28 add'l ***AF Total Acreage 51
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Missouri: Elk Point Aquifer

4. Location of point of diversion One well located in the NW1/4 NE1/4 Section 32-T93N-R53W

(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

County Clay

5. County or counties where water will be used Clay

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
See attachment.			

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

This application is to clarify the location of the irrigated acres and for an additional 51 acres to Permit No. 7075-3.
7075-3 authorizes irrigation of 283 acres, the current center pivots irrigates 260 acres.
This application is for no additional diversion.

I, Calvin Hanson, the applicant, certify under
Name of Person Title (if applicable)

penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

SOUTH DAKOTA
WATER PERMIT NO. 8237-3

Date of first receipt of application August 26, 2016.

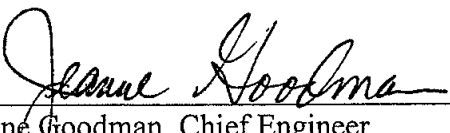
The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8237-3 to Calvin Hanson 31524 452nd Ave, Meckling SD 57069 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 8237-3 authorizes irrigation of 51 additional acres. Water Permit No. 7075-3 appropriates 1.78 cubic feet of water per second (cfs) from one well completed into the Missouri:Elk Point Aquifer (90 feet deep) located in the NW 1/4 NE 1/4 Section 32 to irrigate 232 acres located in the E 1/2 Section 32 and the S 1/2 SW 1/4 and the S 1/2 SE 1/4 Section 29; all in T93N-R53W. A licensing investigation of the permit found a total of 283 acres being irrigated. This permit authorizes 51 additional acres and corrects the location of the irrigated acres under Water Permit No. 7075-3. The irrigated acres are located in the SE 1/4 SW 1/4 and S 1/2 SE 1/4 Section 29 and portions of the N 1/2 Section 32; all in T93N-R53W. This permit does not authorize any increase in the developed 1.78 cfs diversion rate.
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 dates from which applicant may claim right are August 26, 2016 (51 acres) and September 29, 2008 (232 acres).
4. The date of approval of Permit No. 8237-3 is November 7, 2016.
5. 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 Permit Nos. 7075-3 and 8237-3 is 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. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

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

JAN 26 2017
date



Supplemental Information

(type or print)

1. Well Information (check one or both as applicable) ☐ Drilling new well(s) ☒ Using existing well(s)a) If new wells, how many ____ Have test holes been drilled ☐ Yes ☐ No Drilled by ____
(if yes, please provide copies of logs)b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by Christensen Well & Irrigation

For either Existing or Proposed Wells:

c) Well Depth (required) 90 Depth to Top of Water Bearing Material ____ Depth to Water from Surface 18'

d) Distance to nearest domestic well on applicant's property ____ 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 (e.g. 3 to 1 is a typical slope)

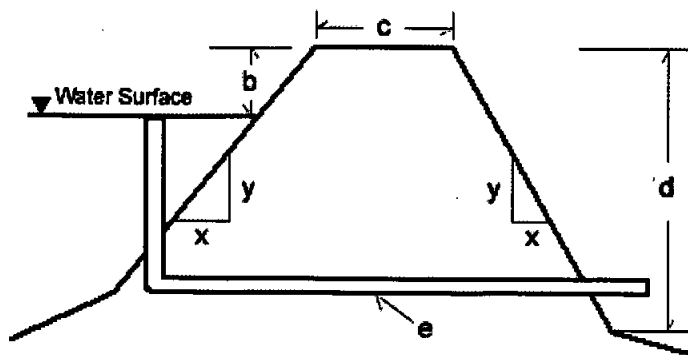
Upstream ____

Downstream ____

h) Surface Area of Impoundment ____

i) Storage ____ Acre Feet

j) Drainage Area Above Dam ____ Acres



STATE OF SOUTH DAKOTA

WATER LICENSE NO. 8237-3

(1) Calvin Hanson, 31524 452nd Ave, Meckling SD 57069 made Application No. 8237-3, August 26, 2016 for a water permit to irrigate additional acres from one well – Missouri:Elk Point Aquifer, Clay County, South Dakota for irrigation purposes. Permit No. 8237-3, with a priority date of August 26, 2016 was approved November 7, 2016 and issued to the applicant for diversion of water with construction of the described water supply system and the application to beneficial use of water completed.

Water Right No. 7075-3, with a priority date of September 29, 2008, authorized diversion of 1.78 cubic feet of water per second for irrigation of 232 acres. The applicable portions of No. 7075-3 are incorporated into this Water License No. 8237-3.

(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 Incorporated Water Right No. 8237-3 is issued a license, bearing a priority date of September 29, 2008 (232 acres) and August 26, 2016 (51 acres) to appropriate 1.78 cubic feet of water per second from one well – Missouri:Elk Point Aquifer to irrigate 283 acres.

The diversion point is located: 1,910 feet W and 590 feet S of the NE corner of Section 32-T93N-R53W (NW 1/4 NE 1/4). The acres authorized for irrigation are as follows:

Section 29-T93N-R53W		Section 32-T93N-R53W	
SE 1/4 SW 1/4	26 acres	NW 1/4 NW 1/4	3 acres
SE 1/4 SE 1/4	24 acres	NE 1/4 NW 1/4	37 acres
SW 1/4 SE 1/4	39 acres	SE 1/4 NW 1/4	23 acres
		NW 1/4 NE 1/4	38 acres
		NE 1/4 NE 1/4	36 acres
		SE 1/4 NE 1/4	20 acres
		SW 1/4 NE 1/4	37 acres
Total 283 acres			

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 8237-3 including the following qualifications:

- The well approved under Permit Nos. 7075-3 and 8237-3 is 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.
- 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 26 2017
date



**Report of Examination of Works and/or Application of Water to Beneficial Use
For Permit No. 7075-3 & 8237-3**

I have this day, April 12, 2016, made a thorough examination of the water use system constructed by Calvin Hanson, 31524 452nd Ave, Meckling, SD 57069 of Permit No. 7075-3, bearing the priority of September 29, 2008 authorizing the diversion of 1.78 cu. ft. per second of the waters of Missouri:Elk Point Aquifer for irrigation purposes, in Clay County.

Inspection contact & relationship **Calvin Hanson, permit holder**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Christensen Well & Irrigation
- 2) No. of Wells 1
- 3) Depth(s) 90 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 16 inches
- 2) Length 50 feet
- 3) Type PVC

Screen:

- 1) Type PVC Manufactured
- 2) Length 40 feet
- 3) Static water level 18 feet

Pump:

- 1) Make Goulds MidAmerica
- 2) Model Turbine In-Line Shaft
- 3) Capacity 800 GPM

Motor:

- 1) Make US Motors
- 2) Model No. BF54A
- 3) Horsepower rating 50 hp

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make T-L Irrigation Systems
- 2) Overall length 1915 feet
- 3) Number of towers 12
- 4) End gun Yes
- 5) Capacity 800 GPM

Comments: Initial application proposed two smaller center pivots to irrigate land East of Yankton-Clay ditch. Permit holder installed one large center pivot with a bridge system for tower legs crossing over ditch and irrigating land on both sides of ditch. T-L Irrigation uses a hydraulic drive system.

Chemigation Equipment:

- 1) Does chemigate Yes
- 2) Main line check valve Yes
- 3) Inspection port/air relief Yes
- 4) Low pressure drain Yes
- 5) Discharge is 20' from source Yes
- 6) Interlock type electrical
- 7) Injection pump type piston
- 8) Injection check valve Yes
- 9) Injection line check valve or positive displacement pump Yes

Comments: Permit holder was not chemigating at time of inspection, but provided the above answers to questions asked. Permit holder indicated he uses chemigation primarily to apply liquid nitrogen to corn crop. A copy of the chemigation rules and Appendix A were reviewed and provided to the permit holder.

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, began irrigating in 2009.

List any extended period of nonuse: None

- 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: West 1910', South 590' from NE Corner of Sec 32-T93N-R53W; Lat 42.83551/Long -97.12880; NW ¼ NE ¼ Sec 32-T93N-R53W.
2. The works are capable of diverting and conveying to the place of use 1.78 cfs or 800 gpm of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

Sec 29-T93N-R53W.

SE ¼ SW ¼ - 26 ac

SE ¼ SE ¼ - 24 ac

Sec 32-T93N-R53W.

NW ¼ NW ¼ - 3 ac

NW ¼ NE ¼ - 38 ac

SE ¼ NW ¼ - 23 ac

SE ¼ NE ¼ - 20 ac

SW ¼ SE ¼ - 39 ac

NE ¼ NW ¼ - 37 ac

NE ¼ NE ¼ - 36 ac

SW ¼ NE ¼ - 37 ac

comprising a total of 283 acres of land and the license should be issued for 1.78 cfs or 800 gpm.

3. All structures, wells and lands on map Yes

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

Due to the bridge system installed over the Yankton-Clay ditch, the 283 total acres irrigated exceeds the 232 acres submitted in the application and include acres in NW ¼ Sec 32-T93N-R53W.

Two acres in S ½ NE ¼ Sec 32-T93N-R53W are included in this permit that overlap Water Permit 7414-3.

Harold Holoch

Harold Holoch, PE
Engineer Water Rights Inspector
DENR, Water Rights Program

Date report completed: August 17, 2016

8237-3
7075-3

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

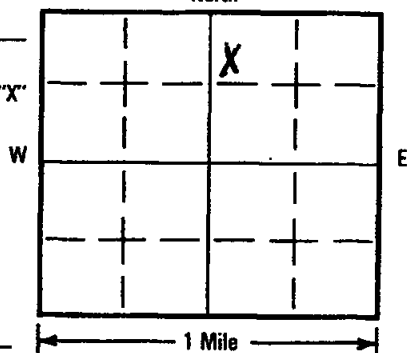
Location NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 32 Twp 93N Rg 53W
County Clay

Well Owner: Calvin Hanson

Business Name:

Address: 31524 452 Ave
Meckley SD 57069

Please mark well location with an "X"



Well-Completion Date

4-2-09

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>top + med sand</u>	<u>0</u>	<u>60</u>
<u>fine gravel + sand</u>	<u>60</u>	<u>85</u>
<u>coarse gravel + rocks</u>	<u>85</u>	<u>90</u>

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 5200 ft. from septic tank (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Reverse Rotary

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT 160 LB/FT DIAMETER 16 IN FROM 0 FT TO 50 FT HOLE DIAMETER 28 IN
____ LB/FT ____ IN ____ FT ____ FT ____ IN
____ LB/FT ____ IN ____ FT ____ FT ____ IN

GROUTING DATA

Grout Type Cement No. of Sacks 11 Grout Weight ____ lb./gal From 0 ft To 20 ft
____ lb./gal ____ ft ____ ft

Describe grouting procedure pump grout down w/ pressure grout

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 16 IN Length 40 FEET

Material PVC

Slot Size .085 Set From 50 Feet to 90 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

Laboratory sent to for water quality analysis

____ NO, Why Not?

STATIC WATER LEVEL 18 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: pumped w/ turbine pump for 4 hrs

☐ Bailed

☐ Other

Pumping Level Below Land Surface

64 ft. After 2 Hrs. pumped 800 GPM

64 ft. After 4 Hrs. pumped 800 GPM

If pump installed, pump rate 800 GPM

REMARKS

RECEIVED

JUN 15 2009

WATER RIGHTS PROGRAM

This well was drilled under license # 39499 444

And this report is true and accurate

Drilling firm Christensen Well & Injection

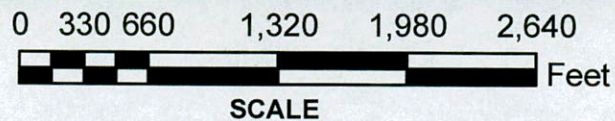
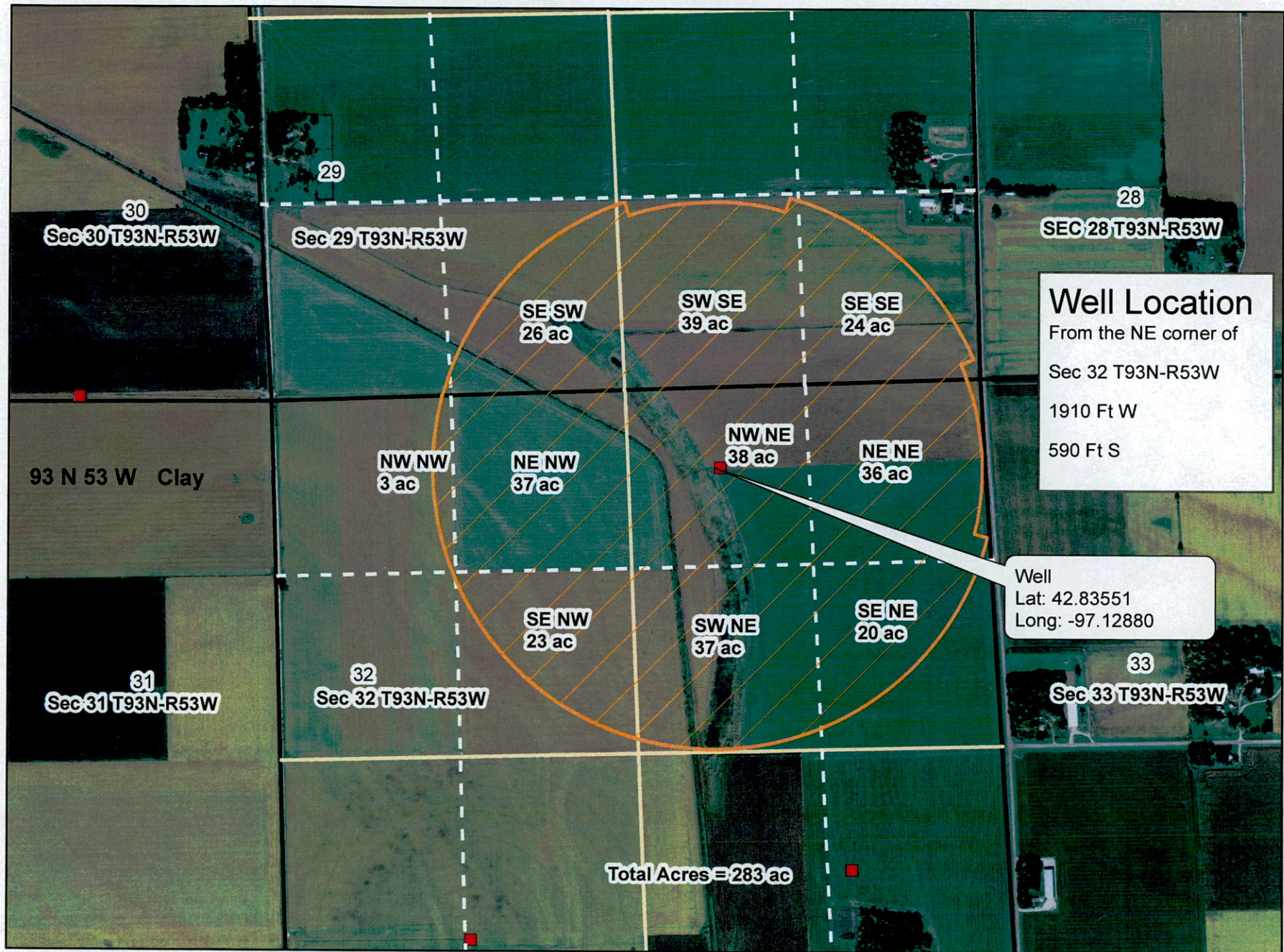
Signature of License Representative:

Colly W. Christensen

Signature of Well Owner or Equitable Property Holder:

Date:

7075-3



Harold Holoch
 Harold Holoch, PE
 Water Rights Inspector
 August 16, 2016

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 8/26, 20 16

RECEIVED OF Calvin Hanson 31524 452nd Ave Meckling SD 57069

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

Fee for Application for Permit No. <u>8237-3</u> to Appropriate Water, to construct and to put water to beneficial use	500	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>8237-3</u>		
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	500 00

No. 07902

By J. Lee Goodman
Chief Engineer



August 18, 2016

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

Calvin Hanson
31524 452nd Ave
Meckling SD 57069

Dear Mr. Hanson:

Enclosed is a partially completed application form and instruction sheet. You will not have to provide a map as stated in item 2.) on the instruction sheet. A map has already been prepared. The enclosed copy is yours to keep or to make any corrections/additions and return with the application.

An inspection of Permit No. 7075-3 found additional irrigated acres to what is authorized. Permit No. 7075-3 authorizes 1.78 cubic feet per second (cfs) or 800 gallons per minute (gpm) to irrigate 232 acres. The developed irrigation consists of a center pivot which operates at 1.78 cfs (800 gpm) to irrigate 260 acres of land. The additional 28 acres irrigated requires a new application.

This application is for an additional 28 acres and to clarify the acres being irrigated. A \$500.00 fee is required for the application/licensing of the additional 28 acres. The \$200.00 inspection/licensing fee is not necessary as it was paid for with the application for Water Permit No 7075-3.

If you have any questions, please feel free to contact me at (605)773-3352 or by email at lynn.beck@state.sd.us.

Sincerely,

Lynn Beck
Natural Resources Engineer III

Application No. 8237-3

Water Rights Program - DENR Conversation File Documentation

NAME OF PERSON OR FILE: Application No. 8237-3, Calvin Hanson

ADDRESS: 31524 452nd Avenue, Meckling SD 57069 COUNTY: Clay County

DATE: September 2, 2016 TELEPHONE: 605 661-6393

RE: number of acres

I contacted Mr. Hanson about the number of additional acres. The application stated 28 additional acres based on Harold Holoch inspection. But that did not include the ditch and drainage area that traversed under the pivot. If those acres, which do receive irrigation water, are included the total area that receives irrigation water is 283 acres which is 51 more acres than authorized by Permit No. 7075-3.

Mr. Hanson agreed to amend the application to be 51 additional acres.

NAME:

Eve Hanson



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

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

October 21, 2016

Calvin Hanson
31524 452nd Ave
Meckling SD 57069

Dear Hanson:

Water Permit Application No. 8237-3 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 Plain Talk printed at Vermillion SD (Ph # 605-624-2695) and the Press & Dakotan printed at Yankton SD (Ph # 605-665-7811). You will need to contact the newspaper(s) and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

NOTICE OF APPLICATION NO. 8237-3 to Appropriate Water

Notice is given that Calvin Hanson, 31524 452nd Ave, Meckling SD 57069 has filed an application for a water permit to irrigate 51 additional acres. Water Permit No. 7075-3 appropriates 1.78 cubic feet of water per second (cfs) from one well completed into the Missouri:Elk Point Aquifer (90 feet deep) located in the NW 1/4 NE 1/4 Section 32 to irrigate 232 acres located in the E 1/2 Section 32 and the S 1/2 SW 1/4 and the S 1/2 SE 1/4 Section 29; all in T93N-R53W. A licensing investigation of the permit found a total of 283 acres being irrigated. This application proposes to authorize 51 additional acres and correct the location of the irrigated acres under Water Permit No. 7075-3. The irrigated acres are located in the SE 1/4 SW 1/4 and S 1/2 SE 1/4 Section 29 and portions of the N 1/2 Section 32; all in T93N-R53W. This application, if approved, does not authorize any increase in the developed 1.78 cfs diversion rate.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8237-3 with qualifications 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. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

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 7, 2016.

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.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. 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.

Steven M. Pirner, Secretary, Department of Environment and Natural Resources. Published once at the total approximate cost of _____.

Schlaak, Karen

From: Schlaak, Karen
Sent: Friday, October 21, 2016 9:11 AM
To: classifieds@plaintalk.net
Subject: 8237-3, Calvin Hanson
Attachments: 8237-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on October 28, 2016.

Calvin Hanson, 31524 452nd St, Meckling SD 57069 (605 267-4140) has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP.

Let me know if you have questions. Please acknowledge receipt of this email.

Karen Schlaak
Water Rights Program
523 E Capitol Ave
Pierre SD 57501
Phone: 605 773-3352

Schlaak, Karen

From: Schlaak, Karen
Sent: Friday, October 21, 2016 9:11 AM
To: 'Tera Schmidt'
Subject: 8237-3, Calvin Hanson
Attachments: 8237-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on October 28, 2016.

Calvin Hanson, 31524 452nd St, Meckling SD 57069 (605 267-4140) has been notified to contact you to authorize publication and arrange for payment.

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Let me know if you have questions. Please acknowledge receipt of this email.

Karen Schlaak
Water Rights Program
523 E Capitol Ave
Pierre SD 57501
Phone: 605 773-3352

RECEIVED

NOV - 3 2016

WATER RIGHTS
PROGRAM

AFFIDAVIT OF PUBLICATION

PLAIN TALK

CALVIN HANSON
31524 452ND AVE
MECKLING SD 57069

STATE OF SOUTH DAKOTA
COUNTY OF CLAY

TERA SCHMIDT, BEING FIRST DULY SWORN ON OATH DEPOSES
AND SAYS THAT (S)HE IS THE CLASSIFIED MANAGER OF YANKTON
MEDIA INC, A CORPORATION, THE PRINTER AND THE PUBLISHER OF THE
PLAIN TALK, A LEGAL WEEKLY NEWSPAPER PUBLISHED AND CIRCULATED
IN THE CITY OF VERMILLION, SAID COUNTY AND STATE, AND ONE OF
THE OFFICIAL NEWSPAPERS OF THE SAID COUNTY OF FACTS STATED IN
THIS AFFIDAVIT; THAT THE ANNEXED
NOTICE OF APPLICATION NO
8237-3 APPROPRIATE WATER
TAKEN FROM THE PAPER, IN WHICH IT WAS LAST PUBLISHED IN THE
NEWSPAPER ON THE 28th DAY OF October, 2016
THAT THE FULL AMOUNT OF THE FEE CHARGED FOR THE PUBLICATION
OF SAID NOTICE TO WIT \$29.97 ENSURES TO THE
BENEFITS OF THE PUBLISHER OF SAID NEWSPAPER AND THAT NO
AGREEMENT AND UNDERSTANDING FOR THE DIVISION THEREOF HAS
BEEN MADE WITH ANY OTHER PERSON, AND THAT NO PART THEREOF
HAS BEEN AGREED TO BE PAID TO ANY PERSON WHOMSOEVER.

PUBLISHED ON: 10/28/2016

FILED ON: 10/28/2016

Tera A Schmidt

SUBSCRIBED AND SWORN TO BEFORE ME THIS 28th DAY OF October, 2016

[Signature]
NOTARY PUBLIC, SOUTH DAKOTA
MY COMMISSION EXPIRES 08/19/2021

Ad text : NOTICE OF APPLICATION NO. 8237-3 to

Appropriate Water

Notice is given that Calvin Hanson, 31524 452nd Ave, Meckling SD 57069 has filed an application for a water permit to irrigate 51 additional acres. Water Permit No. 7075-3 appropriates 1.78 cubic feet of water per second (cfs) from one well completed into the Missouri:Elk Point Aquifer (90 feet deep) located in the NW 1/4 NE 1/4 Section 32 to irrigate 232 acres located in the E 1/2 Section 32 and the S 1/2 SW 1/4 and the S 1/2 SE 1/4 Section 29; all in T93N-R53W. A licensing investigation of the permit found a total of 283 acres being irrigated. This application proposes to authorize 51 additional acres and correct the location of the irrigated acres under Water Permit No. 7075-3. The irrigated acres are located in the SE 1/4 SW 1/4 and S 1/2 SE 1/4 Section 29 and portions of the N 1/2 Section 32; all in T93N-R53W. This application, if approved, does not authorize any increase in the developed 1.78 cfs diversion rate.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8237-3 with qualifications 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. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

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 7, 2016.

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.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. 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.

Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the total approximate cost of \$29.97.

Publish: October 28, 2016.

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WATER RIGHTS
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CALVIN HANSON
31524 452ND AVE
MECKLING SD 57069

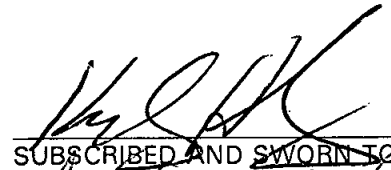
STATE OF SOUTH DAKOTA
COUNTY OF YANKTON

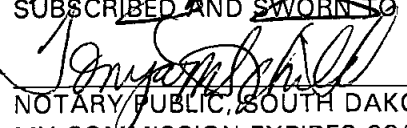
KELLY HERTZ, BEING FIRST DULY SWORN ON OATH DEPOSES
AND SAYS THAT (S)HE IS THE MANAGING EDITOR OF YANKTON
MEDIA INC, A CORPORATION, THE PRINTER AND THE PUBLISHER OF THE
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AND STATE, AND ONE OF THE OFFICIAL NEWSPAPERS OF THE SAID
COUNTY OF FACTS STATED IN THIS AFFIDAVIT; THAT THE ANNEXED
10+28 NOTICE OF APPLICAT

TAKEN FROM THE PAPER, IN WHICH IT WAS LAST PUBLISHED IN THE
NEWSPAPER ON THE 28th DAY OF October, 2016
THAT THE FULL AMOUNT OF THE FEE CHARGED FOR THE PUBLICATION
OF SAID NOTICE TO WIT \$30.41 ENSURES TO THE
BENEFITS OF THE PUBLISHER OF SAID NEWSPAPER AND THAT NO
AGREEMENT AND UNDERSTANDING FOR THE DIVISION THEREOF HAS
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SUBSCRIBED AND SWORN TO BEFORE ME THIS 28th DAY OF October, 2016


NOTARY PUBLIC, SOUTH DAKOTA
MY COMMISSION EXPIRES 08/19/2021

Ad text : 10 + 28

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Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8237-3 with qualifications 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. The Chief Engineers recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

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Steven M. Pirner, Secretary, Department of Environment and Natural Resources.
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**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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**REVISED RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8237-3, Calvin Hanson**

Pursuant to SDCL 46-2A-2, the following is the revised recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 8237-3, Calvin Hanson, 31524 452nd Avenue, Meckling SD 57069.

The Chief Engineer is recommending APPROVAL of Application No. 8237-3 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 Permit Nos. 7075-3 and 8237-3 is 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. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Jeanne Goodman, Chief Engineer
October 21, 2016

**REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 8237-3
CALVIN HANSON
OCTOBER 5, 2016**

Water Permit Application No. 8237-3 proposes to appropriate water from the Missouri: Elk Point aquifer for the purpose of irrigating 51 acres. Water Permit No. 7075-3 appropriates water from the Missouri: Elk Point aquifer for the irrigation of 232 acres located in the E½ Sec. 32, T93N-R53W; the S½ SW¼ Sec. 29, T93N-R53W; and the S½ SE¼ Sec. 29, T93N-R53W. Water Permit No. 7075-3 authorizes a maximum diversion rate of 1.78 cubic feet of water per second (cfs) from one well completed into the Missouri: Elk Point aquifer, located in the NW¼ NE¼ Sec. 32, T93N-R53W. An inspection of Water Permit No. 7075-3, conducted pursuant to South Dakota Codified Law 46-5-30, identified a total of 283 acres currently being irrigated by the system. Application No. 8237-3 proposes to authorize the irrigation of 51 acres not covered under Water Permit No. 7075-3 and correct the location of the irrigated acres. The irrigated acres are located in the SE¼ SW¼ and S½ SE¼ Sec. 29, T93N-R53W and portions of the N½ Sect. 32, T93N-R53W. This application, if approved, does not authorize any increase in the developed 1.78 cfs diversion rate.

AQUIFER: MISSOURI: ELK POINT (M:EP)

GEOLOGY AND AQUIFER CHARACTERISTICS:

The Missouri aquifer consists of unconsolidated glacial outwash deposits composed of fine sand to very coarse gravel. The Elk Point management unit of the Missouri aquifer underlies an estimated 210,100 acres of Yankton, Clay, and Union Counties, and contains an estimated 3,287,100 acre feet (ac-ft) of recoverable water in storage (Hedges and others, 1982). The Missouri: Elk Point aquifer is generally restricted to the Missouri River floodplain. The outwash is often overlain by permeable alluvial deposits. The permeable alluvium and outwash form a single aquifer (Stephens, 1967). Near the edge of the floodplain the Elk Point management unit is overlain by relatively impermeable glacial till (Niehus, 1994; Bugliosi, 1986; and Stephens, 1967). Hydrologically, the Elk Point Management unit is generally under unconfined conditions although confined conditions do exist (Stephens, 1967). The Elk Point management unit is hydraulically connected to the Lower-Vermillion-Missouri aquifer, and the Lower James-Missouri aquifer, the Missouri River, the Vermillion River and the Big Sioux River (Niehus, 1994; Bugliosi, 1986; and Stephens, 1967). The general direction of water movement in the aquifer is to the southeast toward the Missouri River (Stephens, 1967). The Missouri: Elk Point aquifer is under unconfined conditions in the area of the well site proposed by the applicant. The South Dakota Water Well Completion Report on file for this existing well identifies sand and gravel encountered from ground surface to a depth of 90 feet and a static water level of 18 feet below grade on April 2, 2009. The well report indicates the well produced 800 gallons per minute with 46 feet of drawdown (Water Rights, 2016c).

SOUTH DAKOTA CODIFIED LAW (SDCL) 46-2A-9

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is reasonable probability that there is unappropriated water available for the applicant's proposed use, that the

proposed diversion can be developed without unlawful impairment of existing rights and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and existing rights from the aquifer.

WATER AVAILABILITY:

An April 12, 2016, inspection of Water Permit No. 7075-3 identified an irrigation project capable of irrigating a total of 283 acres (51 acres more than authorized by the permit). Examination of area photography indicates that a bridge system was installed over the Yankton-Clay ditch between 2011 and 2012 that allowed for the additional irrigated acreage. Water Permit Application No. 8237-3 proposes to appropriate water for the irrigation of the unauthorized 51 acres. If the permit is approved, the average annual water use that can be expected under the appropriation is estimated to be less than 51 acre-feet annually.

The probability of unappropriated water available from an aquifer can be evaluated by considering SDCL 46-6-3.1, which requires “No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source.” If the source of the water is older or lower than the Greenhorn Formation and a water distribution system has applied for a permit, the Board need not consider the recharge/withdrawal issue. Here, a water distribution system is not involved and the Missouri: Elk Point aquifer is not older or lower than the Greenhorn Formation therefore withdrawal/recharge issue must be considered.

Recharge versus Discharge:

Recharge to the Missouri aquifer is through infiltration of precipitation, groundwater inflow from other aquifers and streamflow losses from rivers and streams (Bugliosi, 1986). Hedges and others (1985) estimated recharge to the aquifer at approximately 3.8 inches per year, based on observation well analysis.

Discharge from the aquifer is: (1) by well withdrawals; (2) evapotranspiration where the aquifer is near land surface; (3) to the Big Sioux and Missouri Rivers when the stage of the rivers are lower than the water table of the aquifer; and (4) to the Dakota aquifer when water levels of the Missouri: Elk Point aquifer are higher than the water levels of the Dakota aquifer (Niehus, 1997).

A hydrologic budget for the Missouri: Elk Point aquifer was developed based on the appropriations from the aquifer as of June 24, 2013 (Stonesifer, 2013). Water rights/permits and future use permits at the time account for an expected withdrawal of 81,108 ac-ft/yr, which includes expected use of new irrigation water permits. Recharge to the aquifer is estimated to be at least 91,964 ac-ft/yr, which considers recharge induced from the Missouri River. Therefore, approximately 10,856 ac-ft/yr of unappropriated water was available at that stage of development (Stonesifer, 2013).

The probability of unappropriated water available for this application can be evaluated by considering the water permits issued since June 24, 2013, in conjunction with the water availability analysis of Stonesifer (2013). Water Permits approved since Stonesifer concluded

his water availability analysis for the aquifer are shown in Table 1. In addition, there are two deferred applications for permits from the Elk Point management unit.

Table 1. Water permits approved or reinstated since the Stonesifer water availability analysis for the Missouri: Elk Point (Water Rights, 2015a)

PERMIT NO	NAME	USE	CFS	ACRES
7848-3	MISSOURI VALLEY FARMS INC	IRR	3.04	213
7856-3	MIKE & STEVE ALLARD	IRR	1.78	129.3
7895-3	TODD HANSON	IRR	1.89	180
7898-3	JAMES ORR	IRR	1.56	132
7899-3	JUSTIN ORR	IRR	1.56	97
7904-3	CRAIG S MCINERNEY	IRR	1.78	160
7933-3	DOUGLAS G BYE	IRR	0.89	90
7936-3	DONALD JOHNSON	IRR	1.39	83
7938-3	RUSSELL M HALL	IRR	0	53
7941-3	JOSEPH F CHICOINE	IRR	1	37.69
7074A-3	CALVIN HANSON	IRR	1.78	162
7951-3	ALLEN PACE	IRR	1.78	150
7955-3	KARL M SCHENK	IRR	1.78	140
7971-3	BARRY VAN OSDEL	IRR	1.11	68
7980-3	FRANCIS HEINE	IRR	0	5
7987-3	FRANCIS M ARMSTRONG LIVING TRUST	IRR	1.78	102
8010-3	RYAN RUSHER	IRR	0.1	2.5
8016-3	AMELIA BERTRAND TRUST	IRR	1.67	66
8022-3	REDWOOD SOUTH DAKOTA HOLDINGS LLP	IRR	1.91	134
8023-3	REDWOOD SOUTH DAKOTA HOLDINGS LLP	IRR	4.14	290
8024-3	REDWOOD SOUTH DAKOTA HOLDINGS LLP	IRR	3.36	235.2
8025-3	REDWOOD SOUTH DAKOTA HOLDINGS LLP	IRR	3.82	267.2
8029-3	DAKOTA DUNES COMM IMPROVEMENT	IRR	0.78	17.8
8031-3	DAKOTA PROTEIN CONVERSION INC	COM	0.22	
8040-3	HEINE ELECTRIC & IRRIGATION INC	IRR	0.33	3
8069-3	CIMPLS LLC (452 AC-FT/YR)	COM	0.44	
7009A-3	ROGER D HANSON	IRR	1.78	120
8080-3	LARRY & MELVIN DONNELLY	IRR	1.78	160
8079-3	MELVIN & LARRY DONNELLY	IRR	1.78	160
8147-3	DOUG LAFLEUR (160 AC-FT/YR)	COM	1	
8175-3	GAYVILLE-VOLIN SCHOOL DISTRICT 63-1	IRR	0.058	4
8176-3	CALVIN & MARY HANSON	IRR	1.113	31
8177-3	D A OLSON & SONS	IRR	1.23	62
8181-3	MARC T BERNARD	IRR	0.89	40
8192-3	STOP DROP LOCK INC	IRR	2.22	152
8203-3	GERALD BENJAMIN	IRR	1.89	264
8204-3	DOUGLAS BYE	IRR	0.89	70
8211-3	TIMBER8 LLC	IRR	1.78	96
8212-3	CITY OF YANKTON (6,050 AC-FT/YR)	MUN	20.12	

IRR= Irrigation, COM= Commercial, MUN= Municipal

Average annual water usage for the irrigation permits listed in Table 1 is estimated using a method prescribed by Stonesifer (2013) in which a ratio of pumpage to appropriation of developed appropriations is established. Stonesifer (2013) calculated an average pumpage to appropriations ratio for the Missouri: Elk Point aquifer to be 13.7%. Subsequently, an average pumpage to appropriation ratio for the aquifer was calculated to be 13.8% (Kilts, 2015). Appropriations made since June 10, 2013, have authorized an additional 3,976.69 acres of irrigation. Assuming an average annual use of 13.8% of appropriation, water use for irrigation is

expected to increase by approximately 1,098 acre-feet annually. Water Permit Nos. 8069-3, 8147-3, and 8212-3 appropriate an additional 6,662 ac-ft/yr.

Historically, the DENR-Water Rights Program and the SD Water Management Board have estimated average annual water use by non-irrigation appropriations, limited by instantaneous diversion rate only, to equate to less than 60% of full time pumping at the permitted diversion rate. The total instantaneous diversion rate authorized by Water Permit No. 8031-3 is 0.22 cfs. Therefore, average annual water use assumed for the water permit is approximately 95 ac-ft/yr.

The total water use that can be expected from the appropriations identified in Table 1 is expected to be 7,855 ac-ft/yr. In addition, two deferred water permit applications (Nos. 5749-3 & 5750-3) would result in an average annual withdrawal of approximately 50 ac-ft/yr if approved. The combination of pre-2013 expected water use (81,108 ac-ft/yr) plus post-2013 expected water use (7,855 ac-ft/yr) plus the average annual withdrawal that would result from approval of the two deferred applications (50 ac-ft/yr) totals 89,013 ac-ft/yr. This estimated average annual withdrawal is approximately 2,751 ac-ft less than the estimated average annual recharge value obtained by Stonesifer (2013); therefore, from a gross accounting perspective, unappropriated water is available.

Observation Wells

In determining the availability of unappropriated water for a permit application Administrative Rule 74:02:05:07 requires the Water Management Board to rely on the record of observation well measurements, in addition to other data, to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated annual recharge.

The Water Rights Program monitors 37 observation wells in the Elk Point management unit of the Missouri aquifer (Water Rights, 2016b). Three observation wells are located within approximately five and one-half miles of the well this application proposes as a source. Hydrographs for the wells are shown in Figures 1-3.

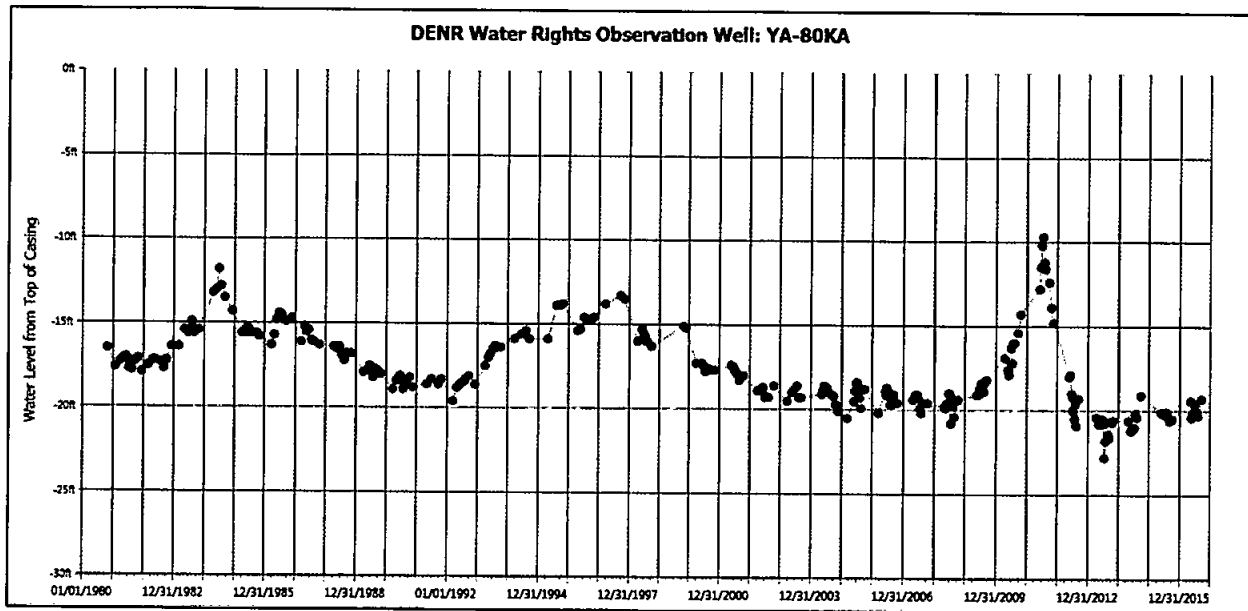


Figure 1. Hydrograph for DENR-Water Rights' Observation Well YA-80KA which is completed into the Missouri: Elk Point aquifer and located approximately two and three-quarter miles west of the well this application proposes as a source.

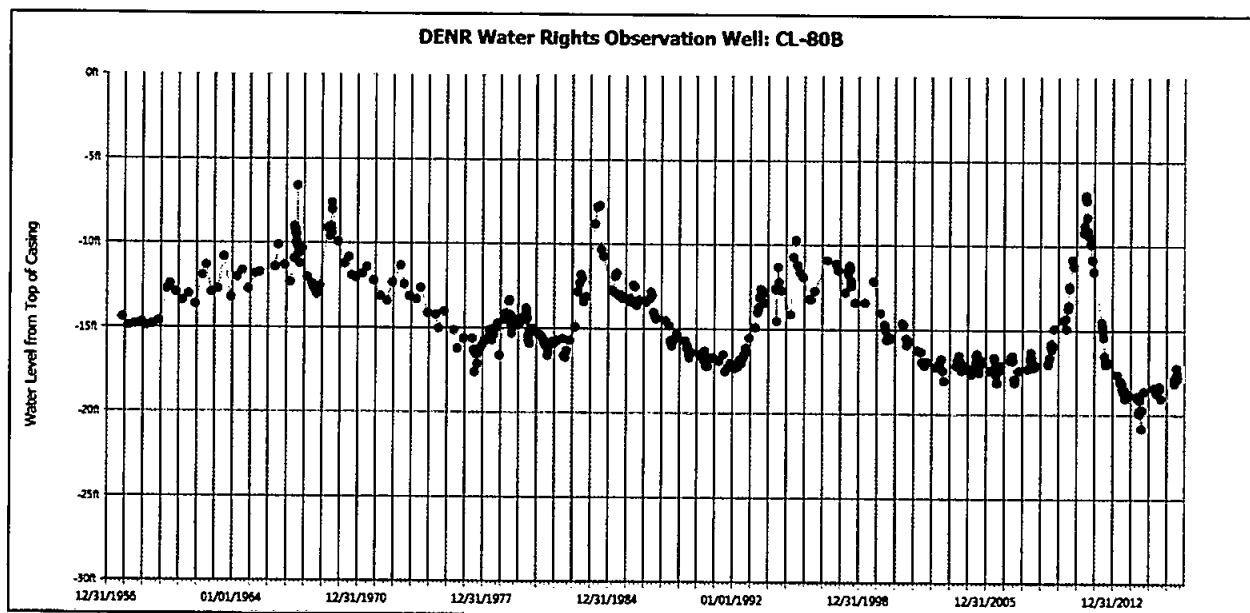


Figure 2. Hydrograph for DENR-Water Rights' Observation Well CL-80B which is completed into the Missouri: Elk Point aquifer and located approximately three miles southeast of the well this application proposes as a source.

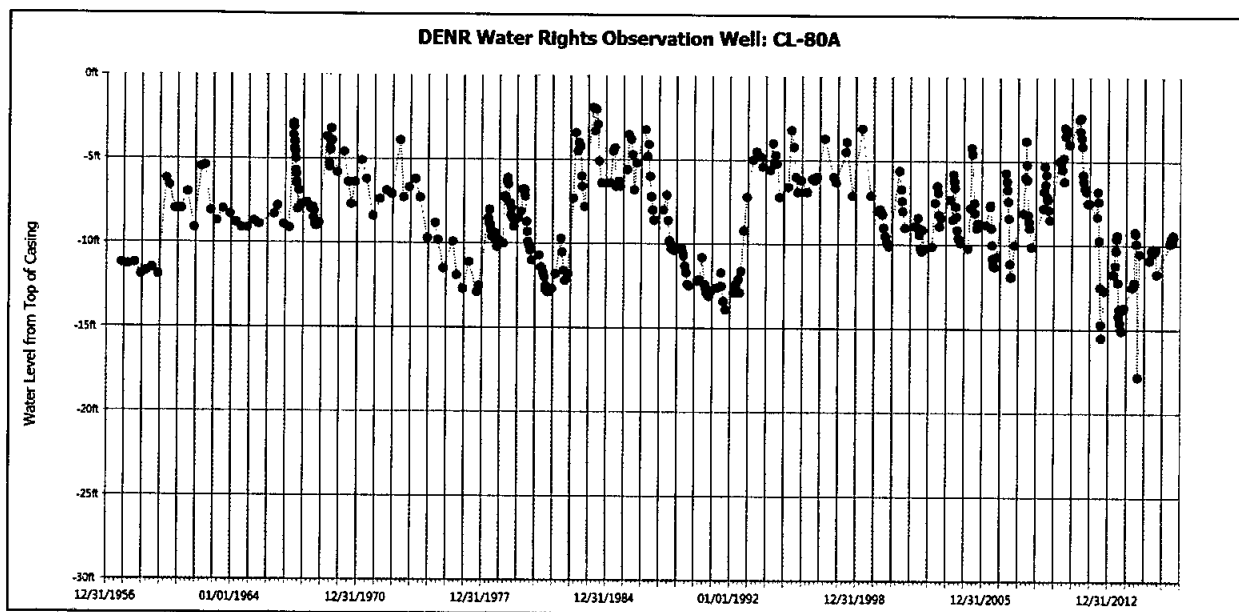


Figure 3. Hydrograph for DENR-Water Rights' Observation Well CL-80A which is completed into the Missouri: Elk Point aquifer and located approximately five and one-half miles northeast of the well this application proposes as a source.

The observation well data documents that the Missouri: Elk Point aquifer responds well to climatic conditions with rising water levels during wetter periods (when recharge exceeds discharge), and declining water levels during periods where discharge exceeds recharge. Hydrographs for observation wells completed in the Elk Point management unit near the Missouri River show the hydrologic connection between the river and the management unit. Observation wells with sufficient periods of record document a lowering of the water table in the aquifer in response to the decreased flooding that resulted from the closure of Gavins Point Dam (Stephens, 1967). The hydrographs for Missouri: Elk Point observation wells also document the entrenchment of the Missouri River below the Gavins Point Dam (Iles, 1979; and Goodman, 2007). At the current level of development, the temporal effects of well withdrawals from the aquifer are masked by the climatic conditions on the aquifer and effects of the hydraulic connection between the aquifer and the Missouri River. Since recharge to the management unit and natural discharge from the management unit dominate the system, water is available to capture for additional well withdrawals. Therefore, there is a reasonable probability that unappropriated water is available for this appropriation.

EXISTING WATER RIGHTS:

Currently, there are 616 water permits/rights appropriating water from the Missouri: Elk Point aquifer in addition to five future use permits and two deferred applications (Water Rights, 2016b). The water rights/permits in the vicinity of the acreage associated with this application are shown in Figure 4 and Table 1. In addition to wells supplying appropriative rights, there are a number of domestic use wells on file with the DENR-Water Rights Program in the vicinity of this proposed well site (Water Rights, 2016c). Since the Missouri: Elk Point aquifer is unconfined and relatively thick in the area of this application, drawdown is not expected to be significant very far from the pumping well. Additionally, examination of the hydrographs of observation wells completed into the Missouri: Elk Point aquifer shows no signs of being

significantly impacted by drawdown despite being located in the proximity of a number of irrigation wells. Although precise drawdown cannot be quantified without aquifer testing these applications, if approved, are not expected to adversely impact nearby adequate wells. An adequate well as defined by South Dakota Administrative Rules is “a well constructed or rehabilitated to allow various withdrawal methods to be used, to allow the inlet to the pump to be placed not less than 20 feet into the saturated aquifer or formation material when the well is constructed, or to allow the pump to be placed as near as possible to the bottom of the aquifer as is practical if the aquifer thickness is less than 20 feet.” In the past the Water Management Board has recognized that to place water to maximum beneficial use a certain amount of drawdown may occur.

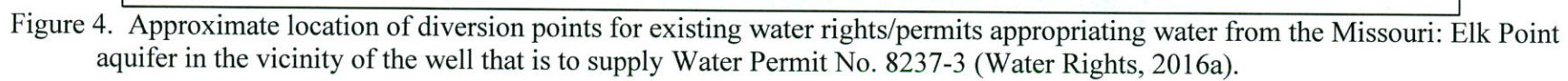


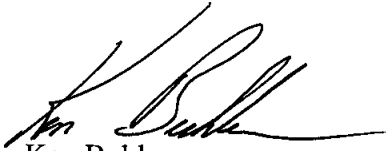
Table 2. Water rights/permits appropriating water from the Missouri: Elk Point aquifer as shown on Figure 1.

PERMIT NO	NAME	PRIORITY DATE	STATUS	USE	CFS	ACRES
1007-3	NELS JENSEN	10/17/1962	LC	IRR	1.5	107
2584-3	FREEBURG LIMITED PARTNERSHIP	12/15/1975	LC	IRR	3.74	262
3109-3	JOSEPH R EDELEN JR	09/22/1976	LC	IRR	1.58	111
3611-3	WILLIAM FARGO	02/01/1977	LC	IRR	1.86	130
3628-3	KELVIN KRONAIZL	02/07/1977	LC	IRR	1.9	130
6554-3	WILLARD SCHMIDT	12/15/2004	LC	IRR	1.56	132
6610-3	J ROBERT WARDIN	06/13/2005	LC	IRR	1.67	135
6642-3	WADE A & JANE A LARSON	08/10/2005	LC	IRR	1.56	132
6767-3	FREEBURG LIMITED PARTNERSHIP	11/09/2006	LC	IRR	1.56	121
6783-3	D A OLSON & SONS	12/06/2006	LC	IRR	1.78	132
6966-3	TROY WALRAVEN	02/13/2008	LC	IRR	1.78	133
6978-3	MARQUARDT FARMS	02/19/2008	PE	IRR	1.78	133.5
7074A-3	CALVIN HANSON	01/21/2014	PE	IRR	1.78	162
7075-3	CALVIN HANSON	09/29/2008	PE	IRR	1.78	232
7175-3	TROY WALRAVEN	01/04/2010	LC	IRR	1.78	133
7414-3	CALVIN HANSON	08/20/2012	LC	IRR	1.78	169
7437-3	GLENN NELSON	09/17/2012	LC	IRR	1.78	132
7622-3	KYLE JENSEN	12/03/2012	PE	IRR	1.89	142
7627-3	TROY WALRAVEN	01/09/2013	LC	IRR	1.78	65
7663-3	PAUL YOUNG	01/25/2013	PE	IRR	1.45	132
7686-3	NICHOLAS W OLSON	02/06/2013	LC	IRR	0.94	66
7749-3	KIRK SORENSEN	02/27/2013	PE	IRR	2.28	160
7801-3	RALPH MARQUARDT	02/27/2013	PE	IRR	1.56	108
7802-3	RALPH MARQUARDT	02/27/2013	PE	IRR	1.78	165
8031-3	DAKOTA PROTEIN CONVERSION INC	06/18/2014	PE	COM	0.22	

CONCLUSIONS:

1. Water Permit Application No. 8237-3 proposes a water permit that will allow an existing irrigation project to maintain status quo.
2. Water Permit Application No. 8237-3 proposes to appropriate water from the Elk Point management unit of the Missouri aquifer for the irrigation of 51 acres.
3. Water Permit Application No. 8237-3 does not propose any increase to the diversion rate authorized for this existing well.
4. There is a reasonable probability that unappropriated water is available from the Missouri: Elk Point aquifer to support the proposed increased diversions.

5. There is a reasonable probability that nearby adequate wells will not be adversely impaired if Water Permit Application No. 8237-3 is approved.



Ken Buhler
SD DENR-Water Rights Program

REFERENCES

- Bugliosi, E.F., 1986, Water Resources of Yankton County, South Dakota. USGS Water-Resources Investigations Report 84-4241. USGS. Huron, SD.
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DEPARTMENT of ENVIRONMENT
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JAN 26 2017

8237-3
7075-3

Calvin Hanson
31524 452nd Ave
Meckling SD 57069

Dear Mr. Hanson:

Enclosed are Water Permit and Water License No. 8237-3. These documents complete 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. 8237-3, 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

Note: The applicable portions of No. 7075-3 are incorporated into Water License No. 8237-3.

enclosures