

WATER PERMIT NO. 7571-3

Name of Applicant: Gary Marshall / Marshall Bros

Address: 19032 388th Ave, Hitchcock SD 57348 Phone: 605 266-2720

Amount of Water Claimed: 1.78 cfs Total Acres: 160 acres

Source of Water Supply: groundwater (two wells)

Water to be used for: irrigation County: Beadle

Type of Waste Disposal System:

Location: 6 miles west of Hitchcock

PRIORITY Date Received: 12-14-12 Application/License Fee: \$ 1050

Corrected Application Received: Period of Annual Use: April 1 – October 31

Remarks:

Diversion Point: near the center of the SE 1/4 Sec
4-T113N-R64W

Land to be Irrigated: SE 1/4 Sec 4-T113N-R64W

Depth of Well: 80 feet deep

Well Driller:

Remarks:

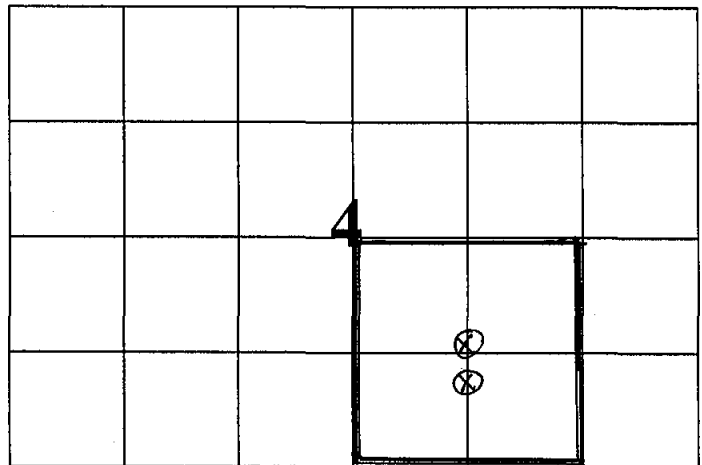
Type of Map: aerial

Prepared by: Ron Duvall

Reviewed and the Number Assigned on: 12-27-12

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



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

Mail to:
PMB 2020
DENR - Water Rights
523 E Capitol Ave
Pierre, SD 57501-3182
ph. (605) 773-3352

(office use only)
No. 7571-3 Hydrologic Unit 1016009
Basin James River
Newspaper Plainsman - Huron

RECEIVED
DEC 14 2012
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 Gary Marshall/Marshall Brothers

(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent

(name and complete address if different than above name)

Mailing Address 19032 388th Ave Hitchcock SD 57348
(Address) (City) (State) (Zip Code)

Home Phone 605-266-2720 Cell 605-350-1401 Email marshall@sbt.net

2. Amount of water claimed 1.78 *CFS or 800 **GPM ***AF Total Acreage 160
(*Cubic Feet per Second) (**Gallons per Minute) (***) Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Tulare:Hitchcock

4. Location of point of diversion Near center of SE1/4 section 4-T113N-R64W (two wells)

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

County Beadle

5. County or counties where water will be used Beadle

6. Annual period during which water is to be used April- 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
SE1/4 section 4-T113N-R64W	160		

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

Put two wells towards center of quarter and use a pivot to irrigate at 1.78 cfs.

I, Gary Marshall Gary Marshall, the applicant, certify that I have read this application, have examined the attached map, and that the matters stated are true.

SOUTH DAKOTA
WATER PERMIT NO. 7571-3 FOR IRRIGATION

Date of first receipt of application December 14, 2012.

The Water Management Board approved Water Permit No. 7571-3 on May 2, 2013 for Gary Marshall / Marshall Bros., 19032 388th Ave, Hitchcock SD 57348 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. 7571-3 appropriates 1.78 cubic feet of water per second from two wells to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) both located near the center of the SE 1/4 Section 4 for irrigation of 160 acres located in the SE 1/4 Section 4; all in T113N-R64W.
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: April 1 – October 31.
3. The date from which applicant may claim right is December 14, 2012.
4. One-fifth of the construction is to be completed on or before November 2, 2015.
5. All construction is to be completed on or before May 2, 2018.
6. Water is to be put to beneficial use on or before May 2, 2022.
7. 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. 7571-3 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: Jeanne Goodman

Jeanne Goodman, Chief Engineer

Water Rights Program

Department of Environment and Natural Resources

JUN 20 2013

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 ____ Provide copy of log(s), if available. Drilled by _____
- c) Well Depth 80 Depth to Top of Water Bearing Material 30 Depth to Water from Surface 20
- d) Distance to nearest existing domestic well:
On applicant's property _____ On property owned by others approx. 3/8 mile

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

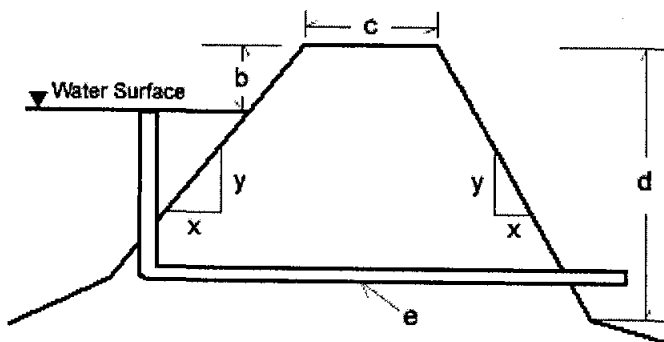
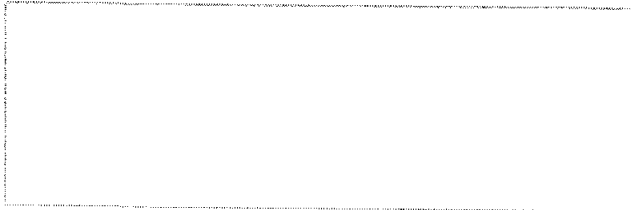
3. Dugout Information

- 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

Scale: 1 inch = 1,380 feet

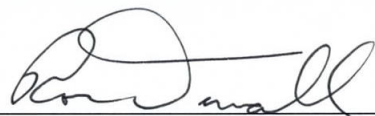
2,000

Feet



South Dakota
Department of Environment
& Natural Resources
Water Rights

Completed by:


Ron Duvall, Natural Resources Engineer
Water Rights Program

Date:

Appl No.

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 12/17, 20 12

RECEIVED OF Marshall Brothers 19032 388th Ave Hitchcock SD 57348

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

Fee for Application for Permit No. <u>7571-3</u> to Appropriate Water, to construct and to put water to beneficial use	850	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>7571-3</u>	200	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	1050 00

No. **05767**

By Harold E. Eide ef
Chief Engineer

RECEIVED

FEB 28 2013

PRINTER'S AFFIDAVIT

WATER RIGHTS
PROGRAM

STATE OF SOUTH DAKOTA,
COUNTY OF BEADLE: ss.

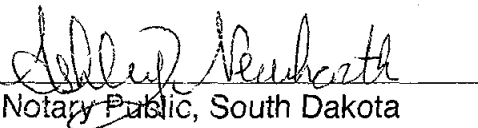
I, CORINN DECKER, being duly sworn on oath, say that THE PLAINSMAN is a daily paper published at Huron, Beadle County, South Dakota, and that said newspaper has a bona fide circulation of at least 250 copies daily; that said newspaper has been published within said county for fifty-two consecutive weeks immediately prior to this date, that said newspaper is printed in whole or in part, in an office maintained at said place of publication; that I am Legal Advertising Coordinator of said newspaper and know the facts herein state. The annexed notice headed:

MARSHALL BROTHERS – WATER HEARING

was published for one day, in said newspaper, and not in any supplement of the said newspaper, the publication was of the 13TH day FEB. 2013 That the full ONE HUNDRED AND SIXTEEN & 99/100 dollars insures to the benefit of the publisher of said newspaper; that no agreement or understanding for the division thereof has been made with any other person, and that no part there of has been agreed to be paid to any person whom so ever.



Subscribed and sworn to before me this 28TH day of FEB. 2013.



Notary Public, South Dakota

My term expires 10/25/17

Legal # 607

F.P. 02-13-13

**NOTICE OF HEARING
on Applications to
Appropriate Water**

Notice is given that Gary Marshall / Marshall Brothers, 19032 388th Ave, Hitchcock SD 57348 has filed the following applications for a water permit.

Application No. 7570-3 proposes to appropriate 3.56 cubic feet of water per second (cfs) from two wells to be completed into the Tulare: Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the NW 1/4 and the center of the SW 1/4 Section 1 for irrigation of 280 acres located in the W 1/2 Section 1; all in T113N-R64W.

Application No. 7571-3 proposes to appropriate 1.78 cfs from two wells to be completed into the Tulare: Western Spink Hitchcock Aquifer (80 feet deep) both located near the center of the SE 1/4 Section 4 for irrigation of 160 acres located in the SE 1/4 Section 4; all in T113N-R64W.

Application No. 7572-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare: Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the SW 1/4 Section 34 for irrigation of 140 acres located in the SW 1/4 Section 34; all in T114N-R64W.

Application No. 7573-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare: Western Spink Hitchcock Aquifer (80 feet deep) located near the center of the NW 1/4 Section 27 for irrigation of 160 acres located in the NW 1/4 Section 27; all in T114N-R63W.

Application No. 7574-3 proposes to appropriate 1.78 cfs from one well to

be completed into the Tulare: Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the NE 1/4 Section 35 for irrigation of 160 acres located in the NE 1/4 Section 35; all in T114N-R64W.

Application No. 7575-3 proposes to appropriate 3.56 cfs from two wells to be completed into the Tulare: Western Spink Hitchcock Aquifer (80 feet deep) located in the centers of the SW 1/4 and SE 1/4 Section 36 to irrigate 280 acres located in the S 1/2 Section 36; all in T114N-R64W.

Application No. 7637-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare: Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the SE 1/4 Section 25 for irrigation of 135 acres located in the SE 1/4 Section 25; all in T114N-R64W.

Application No. 7638-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare: Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the SE 1/4 Section 18 for irrigation of 135 acres located in the SE 1/4 Section 18; all in T114N-R63W.

Application No. 7639-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare: Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the NW 1/4 Section 3 for irrigation of 135 acres located in the NW 1/4 Section 3; all in T114N-R64W.

Application No. 7640-3 proposes to appropriate 1.78 cfs from two wells to be completed into the Tulare: Western Spink Hitchcock Aquifer (80 feet deep) located near the center of the SW 1/4 and SE 1/4 SW

1/4 Section 8 for irrigation of 160 acres located in the SW 1/4 Section 8; all in T113N-R62W.

SDCL 46-2A-4(10) provides that "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 Chief Engineer's recommendation and no hearing may be held before the board, unless the Chief Engineer makes a finding that an application, even if uncontested, presents important issues of public policy or public interest that should be heard by the board." In this case, the Chief Engineer finds that these applications present important issues of public interest that should be heard by the Water Management Board.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 7570-3, 7571-3, 7572-3, 7573-3, 7574-3, 7575-3, 7637-3, 7638-3, 7639-3 and 7640-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversions 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.

The Water Management Board will consider these applications at 9:00 a.m. on March 7, 2013 in the Matthew Training Center, Joe Foss Bldg, 523 E. Capitol Ave. Pierre SD. The Chief Engineer's recommendations are not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny the applications based on the facts presented at the public hearing.

Any interested person who intends to participate in the hearing shall file a petition to oppose or support these applications and the petition shall be filed with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommen-

dations. 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 February 25, 2013. The petition may be informal, but shall be in writing and shall include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. The hearing is an adversary proceeding and any party has the right to be present at the hearing and to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised at the hearing and decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law.

The March 7, 2013 hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any person who has filed a petition to oppose or support the applications. The request for an automatic delay must be filed by February 25, 2013. If an automatic delay is requested, the hearing will be rescheduled for a future Board meeting and personal notice will be provided to all petitioners regarding the time, date and location.

Contact Eric Gronlund by February 25, 2013 at the above Chief Engineer's address to request copies of the staff reports, recommendations, applications or other information. Notice is given to individuals with disabilities that this hearing is being held in a physically accessible place. Please notify the Department of Environment and Natural Resources at least 48

hours before the hearing if you have a disability for which special arrangements must be made at the hearing. The telephone number for making arrangements is (605) 773-3352.

Under SDCL 1-26-17(7) notices must state that "if the amount in controversy exceeds \$2,500.00 or if a property right may be terminated, any party to the contested case may require the agency to use the Office of Hearing Examiners by giving notice of the request to the agency no later than ten days after service of a notice of hearing issued pursuant to SDCL 1-26-17." This is a Notice of Hearing, service is being provided by publication, and the applicable date to give notice to the Chief Engineer is February 25, 2013. However, since this particular matter is a water permit application and not a monetary controversy in excess of \$2,500.00 or termination of a property right the Chief Engineer disputes the applicability of this provision and maintains that the hearing must be conducted by the Board.

As applicable, the following provides the legal authority and jurisdiction under which the hearing will be held and the particular statutes and rules pertaining to these applications: SDCL 1-26-16 thru 1-26-28; SDCL 46-1-1 thru 46-1-9, 46-1-13 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-17; 46-2A-1 thru 46-2A-12, 46-2A-14, 46-2A-15, 46-2A-20, 46-2A-21, 46-2A-23; 46-5-1.1, 46-5-2 thru 46-5-26, 46-5-30.2 thru 46-5-30.4, 46-5-31, 46-5-32 thru 46-5-34.1, 46-5-38 thru 46-5-39, 46-5-46, 46-5-47, 46-5-49; 46-6-1 thru 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-21, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:25:02; 74:02:01:35:01.

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

No 607 (adv.)100
Published once at the
total approximate cost of
\$115.77. 1210W 57

1210W 57
1210W 57

Affidavit of Publication
RECEIVED

STATE OF SOUTH DAKOTA, **FEB 14 2013**
County of Spink: ss.

**WATER RIGHTS
PROGRAM**

I, Mark E. Davis, of said County & State, being first duly sworn on oath, say that THE REDFIELD PRESS is a legal weekly newspaper as defined in Sec. 65.0508 South Dakota Code 1939, as amended by Chapter 298 of the Session of Laws of 1939, printed and published in the English language in the City of Redfield, in said County and State, by THE REDFIELD PRESS, and has been such newspaper during the time hereinafter mentioned, and that I Mark E. Davis, the undersigned, am Publisher of said newspaper in charge of the advertising department thereof, and have personal knowledge of all the facts stated in this affidavit, and that the legal or official notice entitled:

#154 Notice

A printed copy of which is hereto attached, was printed and published in said newspaper in 1 issue, to wit: The first publication being made on February 13th, that Eighty-two and .60/100 Dollars, insures to the benefit of the publisher of THE REDFIELD PRESS, that no agreement or 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.



Subscribed and sworn to before me this 13th day of February, 2013.


Notary Public, South Dakota

My commission expires 04/06/2016.

Notice

#154

**NOTICE OF HEARING
ON APPLICATIONS TO
APPROPRIATE WATER**

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Application No. 7571-3 proposes to appropriate 1.78 cfs from two wells to be completed into the Tulare-Western Spink Hitchcock Aquifer (80 feet deep) both located near the center of the SE 1/4 Section 4 for irrigation of 160 acres located in the SE 1/4 Section 4, all in T113N-R64W.

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Any interested person who intends to participate in the hearing shall file a petition to oppose or support these applications and the petition shall be filed with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol, Pierre, SD 57501-7605, 773-3322" and the applicant's mailing address is given above. A petition filed

by either an interested person or the applicant must be filed by February 25, 2013. The petition may be informal, but shall be in writing and shall include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. The hearing is an adversary proceeding and any party has the right to be present at the hearing and to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised at the hearing and decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law.

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is a Notice of Hearing, service is being provided by publication, and the applicable date to give notice to the Chief Engineer is February 25, 2013. However, since this particular matter is a water permit application and not a monetary controversy in excess of \$2,500.00 or termination of a property right the Chief Engineer disputes the applicability of this provision and maintains that the hearing must be conducted by the Board.

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46-2-11, 46-2-17; 46-2A-1 thru 46-2A-12, 46-2A-14, 46-2A-15, 46-2A-20, 46-2A-21, 46-2A-23; 46-5-1-1, 46-5-2 thru 46-5-26, 46-5-30.2 thru 46-5-30.4, 46-5-31, 46-5-32, thru 46-5-34.1, 46-5-38 thru 46-5-39, 46-5-46, 46-5-47, 46-5-49; 46-6-1 thru 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-21, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:25.02; 74:02:01:35.01.

Steven M. Pinner, Secretary
Department of Environment and Natural Resources
Published at an approximate cost of \$82.60. (Feb 13)



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

February 7, 2013

Plainsman
PO Box 1278
Huron SD 57350

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application Nos. 7570-3, 7571-3, 7572-3, 7574-3, 7575-3, 7637-3, 7638-3, 7639-3 and 7640-3 to Appropriate Water. Please publish the notice once on February 13, 2013. 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 and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Gary Marshall c/o Marshall Brothers, 19032 388th Ave., Hitchcock SD 57348 (Ph # 605-266-2720).

Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

February 7, 2013

Redfield Press
PO Box 440
Redfield SD 57469

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Applications to Appropriate Water. Please publish the notice once on February 13, 2013. The text of the notice has been e-mailed.

The applicant must verify to you that the notice is to be published and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Gary Marshall, 19032 388th Ave., Hitchcock SD 57348 (Ph # 605-266-2720).

Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
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PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

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

February 7, 2013

Gary Marshall
Marshall Bros
19032 388th Ave
Hitchcock SD 57348

Dear Mr. Marshall:

Water Permit Application Nos. 7570-3, 7571-3, 7572-3, 7573-3, 7574-3, 7575-3, 7637-3, 7638-3, 7639-3 and 7640-3 for irrigation use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Redfield Press printed at Redfield SD (Ph # 605-472-0822) and the Plainsman printed at Huron SD (Ph # 605-352-6401). You will need to contact the newspaper(s) and authorize publication of this notice. For your information, a copy of the notice, the recommendations of the Chief Engineer and reports on the applications 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(s) has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the applications.

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 applications.

NOTICE OF HEARING on Applications to Appropriate Water

Notice is given that Gary Marshall / Marshall Brothers, 19032 388th Ave, Hitchcock SD 57348 has filed the following applications for a water permit.

Application No. 7570-3 proposes to appropriate 3.56 cubic feet of water per second (cfs) from two wells to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the NW 1/4 and the center of the SW 1/4 Section 1 for irrigation of 280 acres located in the W 1/2 Section 1; all in T113N-R64W.

Application No. 7571-3 proposes to appropriate 1.78 cfs from two wells to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) both located near the center of the SE 1/4 Section 4 for irrigation of 160 acres located in the SE 1/4 Section 4; all in T113N-R64W.

Application No. 7572-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the SW 1/4 Section 34 for irrigation of 140 acres located in the SW 1/4 Section 34; all in T114N-R64W.

Application No. 7573-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) located near the center of the NW 1/4 Section 27 for irrigation of 160 acres located in the NW 1/4 Section 27; all in T114N-R63W.

Application No. 7574-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the NE 1/4 Section 35 for irrigation of 160 acres located in the NE 1/4 Section 35; all in T114N-R64W.

Application No. 7575-3 proposes to appropriate 3.56 cfs from two wells to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) located in the centers of the SW 1/4 and SE 1/4 Section 36 to irrigate 280 acres located in the S 1/2 Section 36; all in T114N-R64W.

Application No. 7637-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the SE 1/4 Section 25 for irrigation of 135 acres located in the SE 1/4 Section 25; all in T114N-R64W.

Application No. 7638-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the SE 1/4 Section 18 for irrigation of 135 acres located in the SE 1/4 Section 18; all in T114N-R63W.

Application No. 7639-3 proposes to appropriate 1.78 cfs from one well to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) located in the center of the NW 1/4 Section 3 for irrigation of 135 acres located in the NW 1/4 Section 3; all in T114N-R64W.

Application No. 7640-3 proposes to appropriate 1.78 cfs from two wells to be completed into the Tulare:Western Spink Hitchcock Aquifer (80 feet deep) located near the center of the SW 1/4 and SE 1/4 SW 1/4 Section 8 for irrigation of 160 acres located in the SW 1/4 Section 8; all in T113N-R62W.

SDCL 46-2A-4(10) provides that “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 Chief Engineer’s recommendation and no hearing may be held before the board, unless the Chief Engineer makes a finding that an application, even if uncontested, presents important issues of public policy or public

interest that should be heard by the board." In this case, the Chief Engineer finds that these applications present important issues of public interest that should be heard by the Water Management Board.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 7570-3, 7571-3, 7572-3, 7573-3, 7574-3, 7575-3, 7637-3, 7638-3, 7639-3 and 7640-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversions 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.

The Water Management Board will consider these applications at 9:00 a.m. on March 7, 2013 in the Matthew Training Center, Joe Foss Bldg, 523 E. Capitol Ave. Pierre SD. The Chief Engineer's recommendations are not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny the applications based on the facts presented at the public hearing.

Any interested person who intends to participate in the hearing shall file a petition to oppose or support these applications and the petition shall be filed with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendations. 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 February 25, 2013. The petition may be informal, but shall be in writing and shall include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. The hearing is an adversary proceeding and any party has the right to be present at the hearing and to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised at the hearing and decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law.

The March 7, 2013 hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any person who has filed a petition to oppose or support the applications. The request for an automatic delay must be filed by February 25, 2013. If an automatic delay is requested, the hearing will be rescheduled for a future Board meeting and personal notice will be provided to all petitioners regarding the time, date and location.

Contact Eric Gronlund by February 25, 2013 at the above Chief Engineer's address to request copies of the staff reports, recommendations, applications or other information. Notice is given to individuals with disabilities that this hearing is being held in a physically accessible place. Please notify the Department of Environment and Natural Resources at least 48 hours before the hearing if you have a disability for which special arrangements must be made at the hearing. The telephone number for making arrangements is (605) 773-3352.

Under SDCL 1-26-17(7) notices must state that "if the amount in controversy exceeds \$2,500.00 or if a property right may be terminated, any party to the contested case may require the agency to use the Office of Hearing Examiners by giving notice of the request to the agency no later than ten days after service of a notice of hearing issued pursuant to SDCL 1-26-17." This is a Notice of Hearing, service is being provided by publication, and the applicable date to give notice to the Chief Engineer is February 25, 2013. However, since this particular matter is a water permit application and not a monetary controversy in excess of \$2,500.00 or termination of a property right the Chief Engineer disputes the applicability of this provision and maintains that the hearing must be conducted by the Board.

As applicable, the following provides the legal authority and jurisdiction under which the hearing will be held and the particular statutes and rules pertaining to these applications: SDCL 1-26-16 thru 1-26-28; SDCL 46-1-1 thru 46-1-9, 46-1-13 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-17; 46-2A-1 thru 46-2A-12, 46-2A-14, 46-2A-15, 46-2A-20, 46-2A-21, 46-2A-23; 46-5-1.1, 46-5-2 thru 46-5-26, 46-5-30.2 thru 46-5-30.4, 46-5-31 46-5-

32 thru 46-5-34.1, 46-5-38 thru 46-5-39, 46-5-46, 46-5-47, 46-5-49; 46-6-1 thru 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-21, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:25.02; 74:02:01:35.01.

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

Gronlund, Eric

From: Gary W. Schumacher <gary@wslawfirm.net>
Sent: Friday, February 22, 2013 4:58 PM
To: Best, Diane
Cc: Gronlund, Eric; todd@wslawfirm.net
Subject: RE: Water Permit Applications

Diane,

We are providing notice of the petition to Gary Marshall and Marshall Brothers and Wayne Binger. As to the other issues, I will have Todd respond to them.

Thank you,

Gary W. Schumacher
Wilkinson & Wilkinson
103 Joliet Avenue S.E.
P.O. Box 29
De Smet, South Dakota 57231
(605) 854-3378 telephone
(605) 854-9006 facsimile
gary@wslawfirm.net

From: Best, Diane [<mailto:Diane.Best@state.sd.us>]
Sent: Friday, February 22, 2013 4:43 PM
To: 'Todd D Wilkinson'; Schumacher, Gary
Cc: Gronlund, Eric
Subject: Water Permit Applications

I got the fax. I thought I'd email right away so you have a chance to respond.

On behalf of your clients, you have petitioned in the series of water permit applications that were just advertised for hearing on March 7 (Marshall Brothers and Binger). I assume you have or are in the process of also providing notice of your petition to the applicants as required. Please confirm. I see that you are asking for the 20 day delay. Your request triggers the automatic provision of SDCL 46-2A-4. Those matters will be delayed to the Board's next meeting on May 1-2.

You also petitioned on Application 7373-3. That is the Weiting application where some of your clients (Lenny Peterson and Oscar Inc.) are already parties. This is the one we already talked about that has been subject to an automatic delay. So DENR cannot reschedule this until you file something indicating you have consulted with Terry Weiting and he has no objection. Or if Weiting objects there will need to be a telephonic hearing. If you talk to him and he objects find out some dates when you are both available and we'll make ourselves available. The hearing would be a conference call with prehearing Chair Ev Hoyt. I don't see the Chief Engineer objecting but we can't just reschedule it on our own. And I thought I'd let you know so you can get together with Weiting on this or provide him with notice of hearing asap.

Technically this petition (as it relates to Weiting) is also this is a late filed petition to intervene from your clients (other than Lenny and Oscar, Inc.) So I expect you would want consent from the applicant or Hoyt on that too.

Also, the other matter scheduled for March 7 is that of Oscar, Inc. If you wish to delay that you will also need to request delay on that as well. Unless someone intervenes between now and the 25th that should just take a letter asking for delay.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

February 28, 2013

NOTICE

TO: Wayne Binger
37923 183rd Street
Tulare SD 57476

Marshall Brothers
Gary Marshall
19032 388th Avenue
Hitchcock SD 57348

Ray Rylance
PO Box 227
Watertown SD 57021

FROM: Garland Erbele, Chief Engineer
Water Rights Program

SUBJECT: Automatic Delay of Hearing on Water Permit Application No. 7551-3, Wayne Binger
and Nos. 7570-3 thru 7575-3 & 7637-3 thru 7640-3, Gary Marshall

The Water Rights Program received a petition filed opposing the Chief Engineer's recommendation in the matter of Water Permit Application No. 7551-3 for Wayne Binger & Application Nos. 7570-3 thru 7575-3 and 7637-3 thru 7640-3 for Gary Marshall. The petitions filed by the petitioners and their legal counsel are attached.

The notice of hearing published February 13, 2013 in the Redfield Press and The Plainsman scheduled a March 7, 2013 hearing before the Water Management Board. Mr. Wilkinson, counsel for petitioners, filed written notice requesting an automatic delay of the scheduled March 7, 2013 hearing on the water permit applications. Pursuant to SDCL 46-2A-5, upon receipt of a written notice requesting a postponement of the date set for hearing, the Chief Engineer shall cancel the original hearing on the application and reschedule the application for hearing by the Water Management Board. Therefore, the hearing on above listed applications is automatically delayed pursuant to SDCL 46-2A-4 and 46-2A-5 and will not be held on March 7, 2013.

The Water Management Board will consider these applications at the May 1 – 2, 2013 meeting. Future notice will be provided of the hearing date, time and location.

The petitions also listed Water Permit Application No. 7373-3 filed by Terry Wieting. Petitioners previously filed and requested automatic delay of an October 3, 2012 hearing on Application No. 7373-3. Therefore, this application can not be further postponed pursuant to SDCL 46-2A-5. The hearing on Application No. 7373-3 will proceed at 9:00 AM on March 7, 2013 as set forth in the February 11, 2013 notice to parties.

Finally, no petition or automatic delay were filed in response to the public notice for Application No. 7620-3 filed by Oscar Inc. to appropriate 1.94 cubic feet of water per second from one well completed in the Tulare:Western Spink Hitchcock Aquifer located in the center of the NE ¼ Section 32 for irrigation of 136 acres in the NE ¼ Section 32, T115N, R63W. The Chief Engineer recommended approval of this application. However, the date this application was filed is junior to the Binger and Marshall applications. Therefore, at the time of hearing Chief Engineer will recommend this matter be deferred until the May 1 – 2, 2013 meeting so that it may be heard at the same time as the Binger / Marshall applications.

Please contact Eric Gronlund at (605) 773-3352, if you have any questions.

c: Diane Best, Assistant Attorney General
Todd Wilkinson, PO Box 29, DeSmet SD 57231
Terry Wieting, 870 Beach Avenue NE, Huron SD 57350

enclosure

CERTIFICATION

I hereby certify that on February 28, 2013, I have personally deposited with the United States mail at Pierre, South Dakota, first class postage, prepaid envelopes containing a Notice dated February 28, 2013, regarding automatic delay of the hearing for Water Permit Application No. 7551-3 for Wayne Binger & Application Nos. 7570-3 thru 7575-3 and 7637-3 thru 7640-3 for Gary Marshall with enclosure, as addressed below:

Wayne Binger
37923 183rd Street
Tulare SD 57476

Marshall Brothers
Gary Marshall
19032 388th Avenue
Hitchcock SD 57348

Diane Best, Assistant Attorney General
317 North Main Avenue
Sioux Falls SD 57104

Ray Rylance
PO Box 227
Watertown SD 57021

Todd Wilkinson
PO Box 29
DeSmet SD 57231

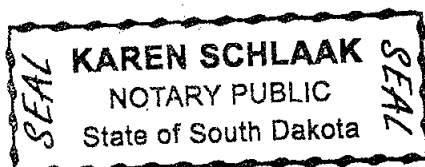
Terry Wieting
870 Beach Avenue NE
Huron SD 57350


Gail Jacobson
Water Rights Program, DENR

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 28th day of February, 2013


Karen Schlaak
Notary Public
My Commission expires April 1, 2013



WILKINSON & WILKINSON
ATTORNEYS AT LAW
103 JOLIET AVE., S.E. P.O. BOX 29
DE SMET, SOUTH DAKOTA 57231

TELEPHONE: 605 / 854-3378
TELEFAX: 605 / 854-9006

HARRY J. EGGEN (1922-1969)
ELLSWORTH F. WILKINSON (1923-2005)

TODD D. WILKINSON
MARCENE J. SMITH
GARY W. SCHUMACHER*
*ALSO LICENSED IN MINNESOTA

RECEIVED
FEB 25 2013
WATER RIGHTS
PROGRAM

Facsimile Transmission

February 23, 2013

SENT TO FAX NUMBER: (605) 773-4068

THIS MATERIAL SENT TO THE ATTENTION OF:

Garland Erbele
Chief Engineer
Water Rights Program, SD DENR
Foss Building
523 East Capital
Pierre, South Dakota 57501
(605) 773-3352 telephone

SENT BY: Gary W. Schumacher

NUMBER OF SHEETS (including cover sheet): 3

Via facsimile with enclosures; and
Original sent by first class mail with enclosures.

If you have any questions or problems, or if you did not receive all of the pages, please call (605) 854-3378 and ask for Maggie. Should you wish to return a facsimile to us, our facsimile number is 605-854-9006.

MESSAGE:

The information contained in this facsimile message is attorney privileged and confidential information intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering the message to the recipient, you are hereby notified that any unauthorized dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to our office at the address shown above via the United States Postal Service. Thank you.

RECEIVED

FEB 25 2013

WATER RIGHTS
PROGRAM

February 22, 2013

Garland Erbele
Chief Engineer
Water Rights Program, SD DENR
Foss Building
523 East Capital
Pierre, South Dakota 57501

**RE: Water Permit Applications Nos. 7373-3, 7551-3, 7570-3, 7571-3,
7572-3, 7573-3, 7574-3, 7575-3, 7637-3, 7638-3, 7639-3, 7640-3
Petition in Opposition**

Dear Mr. Erbele:

We, Todd D. Wilkinson and Gary W. Schumacher, as legal counsel for Lenny Peterson, Danny Peterson, Brad Peterson, and Oscar Inc. land owners and operators affected by the issuance of any additional irrigation appropriation in connection with certain Water Permit Applications. This letter is intended as and constitutes a petition in opposition to said Water Permit Application No. 7373-3, Water Permit Application No. 7551-3, Water Permit Application No. 7570-3, Water Permit Application No. 7571-3, Water Permit Application No. 7572-3, Water Permit Application No. 7573-3, Water Permit Application No. 7574-3, Water Permit Application No. 7575-3, Water Permit Application No. 7637-3, Water Permit Application No. 7638-3, Water Permit Application No. 7639-3, and Water Permit Application No. 7640-3; and is further intended as and constitutes a petition in opposition to the Chief Engineer's recommendation to allow any additional appropriation without consideration of previously filed applications for water appropriation.

In addition the averaging that was done to arrive at available water did not properly consider the Boards previous findings. That if the method is now going to be

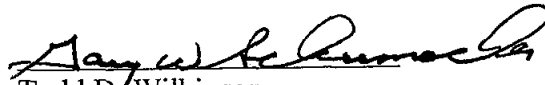
changed, previous applications should be afforded notice and opportunity to apply and not lose priority in filing. That notice procedure provided to the public was irregular.

Please confirm receipt of this petition opposing said application and petition opposing the Chief Engineer's recommendation; and please inform me of the date, time, and location of the public hearing on said application; as well as any other information that needs to be submitted to your office(s) prior to the public hearing.

We would request a twenty (20) day extension for the hearing. If possible, when rescheduling the hearing could you contact our office to coordinate schedules? That would be greatly appreciated.

Thank you.

Sincerely,

A handwritten signature in dark ink, appearing to read "Gary W. Schumacher", written in a cursive style.

Todd D/ Wilkinson
Gary W. Schumacher
Wilkinson & Wilkinson Law Firm
103 Joliet Ave SE, PO Box 29
DeSmet, SD 57231
605-854-3378

cc: Diane Best, Assistant Attorney General

February 22, 2012

Garland Erbele
Chief Engineer
Water Rights Program, SD DENR
Foss Building
523 East Capital
Pierre, South Dakota 57501

**RE: Water Permit Applications Nos. 7373-3, 7551-3, 7570-3, 7571-3,
7572-3, 7573-3, 7574-3, 7575-3, 7637-3, 7638-3, 7639-3, 7640-3
Petition in Opposition**

Dear Mr. Erbele:

We, Lenny Peterson, Danny Peterson, Brad Peterson, and Oscar Inc. as a land owners and operators, are affected by the issuance of any additional irrigation appropriation in connection with certain Water Permit Applications. This letter is intended as and constitutes a petition in opposition to said Water Permit Application No. 7373-3, Water Permit Application No. 7551-3, Water Permit Application No. 7570-3, Water Permit Application No. 7571-3, Water Permit Application No. 7572-3, Water Permit Application No. 7573-3, Water Permit Application No. 7574-3, Water Permit Application No. 7575-3, Water Permit Application No. 7637-3, Water Permit Application No. 7638-3, Water Permit Application No. 7639-3, and Water Permit Application No. 7640-3; and is further intended as and constitutes a petition in opposition to the Chief Engineer's recommendation to allow any additional appropriation without consideration of previously filed applications for water appropriation.

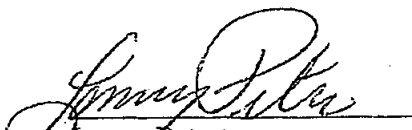
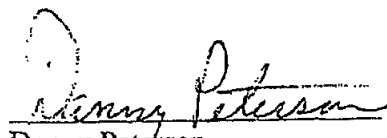
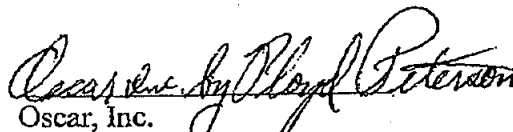
In addition the averaging that was done to arrive at available water did not properly consider the Boards previous findings. That if the method is now going to be

changed, previous applications should be afforded notice and opportunity to apply and not lose priority in filing. That notice procedure provided to the public was irregular.

Please confirm receipt of this petition opposing said application and petition opposing the Chief Engineer's recommendation; and please inform me of the date, time, and location of the public hearing on said application; as well as any other information that needs to be submitted to your office(s) prior to the public hearing.

Thank you.

Sincerely,


Lenny Peterson
Danny Peterson
Brad Peterson
Oscar, Inc.

cc: Diane Best, Assistant Attorney General

STATE OF SOUTH DAKOTA



OFFICE OF ATTORNEY GENERAL

317 N. Main Avenue
Sioux Falls, South Dakota 57104
Phone (605) 367-5880
FAX (605) 367-5886
www.state.sd.us/atg

MARTY J. JACKLEY
ATTORNEY GENERAL

CHARLES D. McGUIGAN
CHIEF DEPUTY

March 1, 2013

SENT VIA EMAIL

Jeff Hallem
Board Counsel
Office of Attorney General
1302 E. Hwy 14, Suite 1
Pierre, SD 57501

Chad Comes
PO Box 308
Madison, SD 57042

Leo Holzbauer
PO Box 877
Wagner, SD 57380

Rodney Freeman, Jr.
PO Box 176
Huron, SD 57350

Peggy Dixon
3311 Hogan Court
Rapid City, SD 57702

Everett Hoyt
4422 Carriage Hills Dr.
Rapid City, SD 57702

Tim Bjork
112 W. Oak Street
Pierre, SD 57501

Jim Hutmacher
802 East 7th Street
Oacoma, SD 57365

Re: In the Matter of Water Permit Applications Pertaining to the Tulare Western Spink/ Hitchcock Aquifer

Dear Board Members and Board Counsel,

Enclosed is a Prehearing Brief in the above referenced matter. I am also sending a copy to all parties of record.

Sincerely,

A handwritten signature in cursive script that reads "Diane Best".

Diane Best
Assistant Attorney General
Counsel for Water Rights Program

STATE OF SOUTH DAKOTA

SOUTH DAKOTA WATER MANAGEMENT BOARD

IN THE MATTER OF WATER	)	
PERMIT APPLICATIONS	)	
PERTAINING TO THE TULARE	)	PREHEARING BRIEF
WESTERN SPINK/HITCHCOCK	)	
AQUIFER	)	

Several applications were scheduled for March 7, 2013. The DENR issued a combined report recommending that they all be approved. This Brief explains the current procedural status, the legal standard for the cases, and the history and legal effect of previous proceedings in this aquifer.

Current Procedural Status.

Terry Wieting. Terry Wieting filed Application No. 7373-2 in 2012. The Chief Engineer recommended deferral pending the outcome of a cancellation in this aquifer.¹ Oscar, Inc. and Lenny Peterson timely intervened in September 2012. In December 2012 the Board heard evidence and granted the deferral, as recommended. Following additional study, the Chief Engineer issued a revised recommendation of approval and scheduled the matter for March 7.

On February 23 a group of petitioners (Oscar Inc., and Danny, Lenny, and Floyd Peterson) filed interventions on a series of applications including Wieting and others listed below. The February 23 petition sought to invoke the automatic 20 day delay

¹ In December 2012, the Board cancelled a water permit authorizing irrigation of 132 acres from the Tulare: Western Spink. *Matter of Water Permit No 282-3, Renae Morog.* The irrigation was discontinued several years ago and the cancellation was not contested. Both the cancellation and the new permit request from Wieting prompted another review of water availability.

provision under SDCL 46-2A- 4(9) for all the cases. The automatic delay is not available at this stage of the Wieting case.² The February 23 request did not indicate that Wieting had consented to further delay and did not bring the matter to a motion hearing before Prehearing Chairman Hoyt. The time for hearing the Wieting application is March 7. As for the part of the petitions that sought intervention, Oscar Inc., and Lenny Peterson were already parties. Danny and Floyd Peterson were not previously parties and this is a late filed petition. The DENR has no objection, however, to their intervention.

Binger and Marshall Brothers Applications. Wayne Binger and Marshall Brothers filed eleven applications after the Wieting applications. They were published for the March 7 hearing date. The Petitioners properly invoked the automatic delay and those matters cannot be heard on March 7.

Oscar, Inc. Oscar Inc. filed an application after Marshall Brothers and Binger and it was also scheduled for March 7. There are no interventions and no delay was requested. This actually would put the Oscar Inc. application as being heard earlier than the Binger and Marshall Brothers Applications even though Oscar, Inc. applied later.

Regardless of the varying procedural status, there is one staff report. The Chief Engineer recommends approval. The recommendation is based on a revised analysis of the Tulare: Western Spink/Hitchcock aquifer.

² Under SDCCL 46-2A-9 the automatic delay provision is only available to delay a case when it is requested at least ten days before the published date of hearing which was in October 2012. Lenny Peterson and Oscar, Inc. already invoked the automatic delay, causing the hearing to be held on December 5, 2012.

Legal Standard.

The Board considers whether there is a reasonable probability (1) 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 would be a beneficial use and (4) the use would be in the public interest. SDCL 46-2A-9. Each factor must be met and the permit must be denied if the Applicant does not meet its burden of proof on any one of them. In considering the first factor, the Board must examine whether "according to the best information reasonably available, it is probable that 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." SDCL 46-6-3.1.³ The withdrawal/recharge issue is key in this case. The Board has reviewed the recharge/withdrawal issue for this aquifer on several occasions and has, on at least two occasions, determined that no additional water is available from this aquifer. The analysis has now changed and the Chief Engineer now recommends approval of the new applications.

History and Effect of Previous Proceedings.

In 2002 the Board heard a group of applications concerning the Tulare: Western Spink/Hitchcock aquifer and considered SDCL 46-6-3.1. At that time, the withdrawal/discharge issue was considered in terms of whether the

³ Another part of SDCL 46-6-3.1 provides for a "greenhorn" exception to the recharge/withdrawal consideration in SDCL 46-6-3.1, but it applies only to applications filed by public water supply systems and is not applicable here.

quantity of water actually used would exceed recharge in one or more years if the pending permits were granted. That analysis relied on a literal view of the language of SDCL 46-6-3.1 concerning water use: "quantity of water withdrawn annually" with the "average estimated annual recharge." In other words the practice was not to consider average withdrawals over the period of record, since the term "average" was not used in connection with withdrawals in the statute.

The Board undertook the analysis and found there was 3400 acre feet of water available. Because average use had been calculated at 16 inches per acre for this aquifer, the Board found that there was sufficient water available for irrigation of 2,654.4 acres of land.

While the Board found there was sufficient water was available to support several applications, it held that eleven others should be deferred until the initial group had been fully developed to determine whether the recharge/withdrawal analysis would change. By law, the time for construction of new waterworks is 5 years. SDCL 46-2A-8. Therefore the Board required the Chief Engineer to study the recharge/withdrawal issue in the aquifer for the period from 2002-2007.

Following creation of this so-called "deferred list" several other applications were filed, all of which were then included in the list. Accordingly, the Board considered the "deferred list" in December 2007. By then the number of applications on the list totaled 32 irrigation applications for over 6,000 acres and one feedlot application. *In the Matter of Water Permit*

Application from the Tulare Aquifer (Findings of Fact, Conclusions of Law, and Final Decision dated March 11, 2008) (referenced here as "*2008 WMB Decision*"). The *2008 WMB Decision* is attached.

The additional study for the 2002-07 period was presented. As part of the 2002-07 analysis the Chief Engineer's staff presented information on the 5 year period of study and on reported use during the period.

In undertaking the 5 year analysis the DENR witness averaged withdrawals over the five year period, with adjustments for unreported water use. *2008 WMB Decision*, Finding ¶ 33. The Sixth Circuit Court had recently held, in a case involving another aquifer, that the proper test under SDCL 46-6-3.1 should be an "average" of withdrawals rather than just determining whether the withdrawals would exceed recharge in one or more years or rather than excluding years of extraordinary precipitation in order to estimate normal years. *Hines v. S.D. Dept. of Environment and Natural Resources, Sixth Judicial Circuit (April 29, 2005)* (Tulare: East James aquifer). The DENR witness essentially applied the Hines averaging method for the Tulare: Western Spink aquifer for the five year period.

Other evidence had already been presented for the period previous to 2002, including water usage data previous to 2002. The study of withdrawals did not include averaging the pre-2002 water use because that was not part of the function of the 2007 hearing. The 2007 hearing was to examine 2002-2007 data.

Ultimately, when the evidence was considered as a whole, the Board determined that only 33 acre feet would be available for new irrigation. *2008 WMB Decision*, Finding ¶ 33. The Board found, however, that the 33 acre feet would be insufficient to

grant any of the applications at issue since they all sought to irrigate 100 or more acres. *2008 WMB Decision*, Finding ¶ 34.

Further, although a number of individuals argued that deferred list should remain in place for the future, the Board held that it lacked authority to do that, finding and concluding as follows:

2008 WMB Decision, Finding 41: These applications should be denied and the aquifer deemed fully appropriated. The applicants may wish to maintain their priority but there is no provision in the statutes to allow this.

2008 WMB Decision, Conclusion 15: This proceeding involves applications that were deferred by the Board (or in legal parlance "continued") for consideration after additional evidence. Each application was placed on a list for additional consideration. The list was procedural and did not grant a right of any kind to a water permit or a priority date.

2008 WMB Decision, Conclusion 16: When applications are pending consideration by the Board or permits have been granted for water use, the applicable priority date relates back to the date of water permit application. SDCL 46-2A-15. The "relation back" statute does not, however, operate to allow priority dates to remain in place once water permit applications have been fully considered and denied."

2008 WMB Decision, Final Decision: The water permit applications listed above are hereby denied for the foregoing reasons. In particular, the Western spink and Hitchcock Management Units of the Tulare Aquifer are fully appropriated.

The March 2008 decision was not appealed. Unappealed administrative decisions of this Board are "final decisions." *Jundt v. The Hon. A.P. Fuller*, 2007 S.D. 62, 736 N.W.2d 508 (unappealed Water Management Board decision cannot be appealed or reversed in a collateral case). The Supreme Court held that "once an agency's adjudication has become final it is no longer subject to reconsideration" on those same facts, even by the Water Management Board. *Id.* There is no longer a deferred list or a right to remain on a deferred list.

On December 15, 2011 a group of applications were filed simultaneously by Lee, Jeffery and Allen Gatzke, and Bixler Farms. The Chief Engineer initially recommended denial of these new applications because the Board had determined the aquifer to be fully appropriated in the 2008 case.

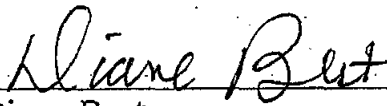
However, upon further review, DENR witness Ken Buhler, examined average withdrawals over the full period of record (1979-2011) based on the *Hines*, rather than the five year average that had been used in the 2008 decision. That information, combined with an exhaustive analysis of irrigation questionnaires and consideration of information developed since 2008 warranted a different analysis in these new cases. In light of this analysis, the Chief Engineer found that there was sufficient water available to recommend approval of water permits for the five out of the six pending applications. Because the priority dates were identical, the Chief Engineer advised the applicants that one of the permits would need to be denied, but he would recommend that five be approved. The applicants settled for the five permits. The settlement expressly provided that it would be subject to public notice and board review. Publication was made in June 2013 and there were no intervenors. The hearing was held in July 2013. At hearing Lenny Peterson was in the room, but he had not intervened and was not a party.

Although the Board had previously found that the aquifer was fully appropriated, it was not bound to do so again. These were new applications based on new facts for which *res judicata* did not apply. *Interstate Telephone*

Cooperative v. Public Utilities Commission. 518 NW2d 749 (S.D. 1994). The Board accepted the settlement.

Current Applications.

The pending applications are yet a new round of applications. Additional study was performed and the staff's analysis undertaken by Ken Buhler is more sophisticated than that previously used. After examining various methods of analysis and study, the Buhler report relied on two significant new pieces of information. First, he examined all of the well/test hole information available rather than relying on and relating to work done in 1984 (Kuiper, 1984) to map the areal extent of the unconfined portion of the aquifer. Although the Kuiper analysis had been the best available analysis, the recent Buhler analysis is more specific and should be used. The Buhler analysis results in a larger area than had been previously mapped and therefore resulted in a larger total recharge number. Second, when considering the maximum number of acres that could be irrigated in light of the recharge/withdrawal analysis, he used a different method of calculation to reflect average use. In light of this analysis, more water is available and the Chief Engineer has recommended approval of the pending applications.


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CERTIFICATE OF SERVICE

The undersigned hereby certifies that a true and correct copy of the Prehearing Brief in In the Matter of Water Permit Applications Pertaining to the Tulare Western Spink/Hitchcock Aquifer were sent to the following by United States mail, first class, sent from Sioux Falls, South Dakota, on March 1, 2013:

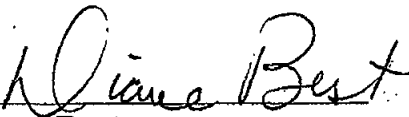
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STATE OF SOUTH DAKOTA

WATER MANAGEMENT BOARD

IN THE MATTER OF WATER PERMIT)
APPLICATION FROM THE)
TULARE AQUIFER)

FINDINGS OF FACT,
CONCLUSIONS OF LAW
AND FINAL DECISION

FINDINGS OF FACT

1. With one exception, the water permit applications at issue request permits for irrigation over 6,000 acres from the Tulare Aquifer, Western Spink and Hitchcock Management Units. The name of each applicant, requested diversion rate, management unit involved, legal description, and date filed is as follows.

Appl. No.	Applicant	Div. Rate cfs	Acres	Source	Approx. Legal Location	Date Filed
6344-3	Oscar, Inc.	2.28	160	T.H.	NEX Sec 32, T115N, R63W	7/26/02
6345-3	Oscar, Inc.	3.42	240	T.H.	SW 1/4 & SW 1/4 N4 Sec 24, T115N, R64W	7/26/02
6346-3	Oscar, Inc.	4.57	320	T.H.	SW Sec 25, T115N, R64W	7/26/02
6347-3	Oscar, Inc.	9.14	640	T:MS	SW Sec 19 & N4 Sec 30, T114N, R61W	7/26/02
6348-3	Oscar, Inc.	7.11	480	T:MS	N4 Sec 10, T114N, R62W	7/26/02

6352-3	Lee Gatzke	2.28	160	T:WS	NW¼ Sec 18, T114N, R63W	8/8/02
6353-3	Lee Gatzke	2.28	160	T:H	NE¼ Sec 6, T114N, R63W	8/8/02
6359-3	Darin, Brett & Chad Binger	2.0	160	T:WS	SW¼ Sec 6, T114N, R64W	9/19/02
6360-3	Darin, Brett & Chad Binger	2.0	160	T:WS	NW¼ Sec 5, T114N, R64W	9/19/02
6374-3	Bixler Farms	3.56	360	T:H	S¼, S½ NW¼ Sec 36, T115N, R63W	12/5/02
6460-3	Gary Marshall	1.78	132	T:WS	NE¼ Sec 25, T114N, R64W	1/20/04
6461-3	Gary Marshall	1.78	132	T:WS	SE¼ Sec 25, T114N, R64W	1/20/04
6462-3	Gary Marshall	1.56	132	T:WS	SW¼ Sec 34, T114N, R64W	1/20/04
6463-3	Gary Marshall	1.56	132	T:WS	NE¼ Sec 35, T114N, R64W	1/20/04
6594-3	Riverside Colony	3.56	264	T:H	N¼ Sec 29, T112N, R61W	2/14/2005
6660-3	Lee Gatzke	1.89	136	T:H	E¼ NW¼ and W¼ NE¼ Sec 8, T114N, R63W	9/12/05
6661-3	Lee Gatzke	1.89	136	T:H	NW¼ Sec 6, T114N, R63W	9/12/05
6668-3	Bixler Farms	1.78	160	T:H	SW¼ Sec 25, T115N, R63W	11/7/05
6669-3	Bixler Farms	1.78	160	T:H	SW¼ Sec 24, T115N, R63W	11/7/05
6670-3	Bixler Farms	1.22	100	T:H	W¼, W¼ NE¼, W¼ SE¼ Sec. 6, T114N, R62W	11/7/05

6671- 3	Bixler Farms	3.56	320	T:H	SE¼ Sec 22 and SW¼ Sec 23, T114N, R63W	11/7/05
6687- 3	William Watson	2.0	140	T:H	NW¼ Sec 27, T114N, R63W	1/27/06
6688- 3	William Watson	2.0	140	T:H	SE¼ Sec 11, T114N, R63W	1/27/06
6689- 3	Michael Watson	2.0	140	T:H	SW¼ Sec 18, T114N, R62W	1/27/06
6693- 3	Lee Gatzke	1.89	136	T:WS	NE¼ Sec 13, T114N, R64W	2/9/06
6694- 3	Lee Gatzke	1.89	136	T:WS	SW¼ Sec 23, T114N, R64W	2/9/06
6695- 3	Lee Gatzke	1.89	136	T:WS	NW¼ Sec 26, T114N, R64W	2/9/06
6776- 3	Allen Gatzke	1.78	160	T:H	N¼ NW¼, S¼ SW¼ Sec 14, T114N, R63W	11/13/2006
6777- 3	Jeffery Gatzke	1.78	160	T:H	NW¼ Sec 15, T114N, R63W	11/13/2006
6829- 3	Patrick Van Buskirk	1.78	135	T:WS	SW¼ Sec 30, T114N, R63W	2/27/2007
6830- 3	Matthew Van Buskirk	1.78	135	T:WS	NE¼ Sec 36, T114N, R64W	2/27/2007
6841- 3	Merlyn Van Buskirk	3.56	270	T:WS	SE¼, NW¼ Sec 31, T114N, R63W	2/27/2007
6842- 3	Merlyn Van Buskirk	1.78	135	T:H	SE¼ Sec 4, T113N, R63W	2/27/2007

2. In addition, one application seeks authority to use water for commercial purposes for a feedlot. That applicant is Marshall Brothers, who filed Permit Application No. 6407-3 for 0.28 cfs from

the Tulare Western Spink Aquifer. The Marshall Brothers' application was filed on December 3, 2003.

3. Department of Environment and Natural Resources expert James Goodman testified regarding the characteristics of the aquifer at issue. Goodman, a geological engineer, has studied groundwater issues and testified before the Board in various groundwater cases for 32 years. He participated in studies published in 1982 (Hedges), 1983 (Hedges), and 1984 (Kuiper) which evaluated the area and recharge rate of the aquifer at issue here. Goodman also relied on a later study completed by L.J. Hamilton for USGS in 1996. He further relied on observation well information, water use data filed with the DENR, and his own knowledge and background.

4. The Hitchcock Management Unit of the Tulare Aquifer is a mostly surficial outwash (sand and gravel) aquifer that is under water table conditions (not artesian) and lies in Spink and Beadle Counties. The Western Spink Management Unit of the Tulare Aquifer consists of a mostly buried outwash (sand and gravel) that is under predominantly artesian conditions and lies in Beadle, Spink, and Hand Counties. The two management units are in one aquifer and are connected hydraulically. The distinguishing factor is that one is under artesian conditions and the other is not. The Tulare Hitchcock portion is adjacent and east of the Western Spink portion.

5. The two management units are properly combined for purposes of water administration because they are hydraulically connected and were formed at the same time. The water use from one management unit would need to be considered to determine the effect on the other.

6. Groundwater movement for the aquifer is generally from southwest to northeast in general over Spink County, the area subject to consideration in this proceeding.

7. The Tulare Hitchcock Management Unit underlies 149,800 acres and contains an estimated 693,000 acre feet of recoverable water in storage in Spink and Beadle Counties.

8. The Tulare Western Spink Management Unit underlies 138,900 acres and contains an estimated 519,330 acre feet of recoverable water in storage in Beadle, Spink and Hand Counties. The total volume of water in storage for the Tulare Aquifer is 1.212 million acre feet in Beadle, Hand and Spink Counties and the aquifer underlies 288,700 acres. The total acreage is based on the Goodman testimony and on a study published in 1982 by the South Dakota Geological Survey and authored by Lynn Hedges.

9. The Board also heard evidence on recharge rates. The Hedges report included a range of recharge rates for the Tulare Aquifer of 0.41 inches at a minimum and 1.66 inches at a maximum.

Under this study, this range would result in calculated recharge somewhere between 9,860 acre feet to 39,940 acre feet annually.

10. In the Kuiper study, recharge to the Tulare Hitchcock Aquifer was estimated at 0.83 inches per acre per year. Using the 0.83 number as a recharge rate, the annual recharge volume of the Tulare Hitchcock Aquifer would be about 10,360 acre feet (0.83 inches applied over 149,800 acres). Applying the same 0.83 inch number to the 138,900 acres overlying the Western Spink Management Unit, Goodman calculated a recharge volume of 9,600 acre feet for that aquifer.

11. Witness Goodman examined the two studies and used the 0.83 number from the Kuiper study for his calculation of average annual recharge. The 0.83 rate is also within the range reported by Hedges. Using the 0.83 recharge rate, Goodman estimates the average annual recharge to the two management units of the aquifer at 19,960 acre feet (0.83 applied to 288,700 total acres).

12. Applicant Bixler pointed out that the Kuiper report listed the acreage overlying the aquifer as 337,000 acres, rather than the 288,700 acres given by Goodman (and as reported in the Hedges study). Applicant Bixler asserted that under the 337,000 scenario there would be an additional 6,000 acre feet of water available, assuming the same recharge rate as that used by Goodman. Bixler further asserted that this additional volume would accommodate

irrigation of 7,000 acres of land and would allow for all the water permit applications in this proceeding to be granted. Assuming the 337,000 should be adopted, however, the additional acre feet of recharge would be 3,440 AF and not 6,000 AF. More specifically, the additional acreage would be 48,300 acres (337,000 acres minus 288,700 acres). The 48,300 acres would produce 40,089 inches of recharge water using the rate of 0.83 inches per acre. The 40,089 inches of water is 3340.75 acre feet of recharge. This number would only accommodate irrigation of 3556 acres based on the average application reported by irrigators for this aquifer in the last five years, 11.27 inches.

13. Regardless of the foregoing, however, the 288,700 number rather than the 337,000 number should be used. First, it is undisputed that the Tulare Aquifer is mostly outwash (water infiltrating sand and gravel deposits). The groundwater is mapped based on test holes and expert calculations based on the test hole data and geology of the area. The Board recognizes that the calculated area overlying an aquifer may vary as to the extent of fringe areas and as to whether there are areas within the mapped exterior boundaries of the aquifer that do not exhibit aquifer characteristics (i.e. pockets or lineal areas where wells would be unable to produce groundwater). Second, the number used by Goodman was the known and conservative number. The Board credits the

testimony of Goodman, who participated in both studies. Goodman is an expert with 32 years of experience and no other expert testified in this proceeding.

14. Prior to December 2002, permits were authorized from these management units for a total combined diversion rate of 247.67 cfs for irrigation of 20,681 acres. In December 2002, the Board conducted a hearing on several new applications. After hearing the evidence, the Board granted eleven of the additional permit applications and continued or deferred the rest. The permits that were granted in 2002 totaled 35.33 cfs for irrigation of 2,654.4 acres.

15. DENR expert James Goodman testified at the 2002 hearing. He testified that the water still available from the two management units was in the range of 3,400 acre feet annually. The 3,400 acre feet volume was then considered in light of the volume necessary for irrigation on a per acre basis. In 2002 the average per acre volume used for irrigation in this area was 16 inches per year. Using 16 inches per year per acre as the criteria, the Board held that the 3,400 acre feet of available water could be beneficially used for irrigation of about 2,550 acres. New permits were granted accordingly.

16. The eleven new permits that were granted at the December 2002 hearing were granted in order of the date of application. The

remaining eleven applications, filed later than the ones that were granted, could not be granted at that time.

17. The Board recognized that the actual usage for the successful applicants in the 2002 round of applicants could not be calculated with certainty until those irrigators developed their proposed facilities. Further, the Board had recently granted a number of other permits for the same aquifer. The actual use from those permits was unknown in 2002 due to the fact they had recently been granted and actual water use had not been reported. Based on this situation, the Board delayed consideration of the remaining water permits for five years, a period that the Board held would be appropriate for making a final determination on water availability for the remainder of the applications. Due to the Board's action in 2002, eleven water permit applications were delayed for five years.

18. Nine of those eleven applications are the first applications at issue in the above list. Two of the eleven applications at issue in 2002 were later withdrawn and are not at issue here (Application 6351-13 (Randy Puffer) and Application 6361-3 (Darin, Brett, and Chad Binger)).

19. Additional water permit applications were filed during the period from 2002 to 2007, all of which were continued by the Board for the same reason and constitute the remaining applications in the above list. All were heard by the Board in December 2007.

20. In the meantime, one of the successful 2002 applicants, Allen Gatzke, filed a request to transfer a permit he had obtained as a result of the 2002 decision (Water Permit No. 6339-3) to other acreage that had been the subject of one of the unsuccessful applications at the same 2002 hearing (Water Permit Application No. 6348-3). In doing so, Gatzke sought to "flip flop" the new permit for an application that had been deferred. The Board granted the transfer of Water Permit No. 6339-3 from the land originally permitted, allowing for use of the water on the acreage requested by Gatzke. The Board determined, however, that the land from which the water permit had been transferred could not be then placed on the deferred list as a pending application. Gatzke did not appeal. Gatzke later took exception to this resolution and, in early 2007, sought an additional permit (Application No. 6776-3) for the land in question and requested that the application be considered as though it was filed in 2002. The Board ruled that the matter should be continued to December 2007 and considered at that time. See Water Management Board Findings of Fact and Conclusions of Law dated May 9, 2007.

21. If Allen Gatzke was successful in his request for consideration of the 2007 application as though it was a 2002 application, the application would have been much higher on the list of deferred or continued applications and arguably would have been

more likely to be granted under a "first in time, first in right" theory. Based on the Board's Findings of Fact and Conclusions of Law herein, none of the acreage at any place on the pending list should be granted. Accordingly, there is no need to consider what the proper priority date would be for this Allen Gatzke application since it would be denied in any event.

22. Test well data is limited for these applications. However, there is sufficient information available from the Hedges, Kuiper, and Hamilton studies, the observation wells, and other wells in this area to evaluate these applications. The aquifer should be present under these sites but test holes would be needed to determine the thickness of the aquifer for well design purposes. There is a good chance that the sand and gravel thickness may not be sufficient to develop a single irrigation well at some of these sites and may require two or three wells to obtain enough water to operate a standard center pivot.

23. The Water Rights Program monitors 24 observation wells completed into the Tulare Hitchcock Management Unit and 26 observation wells completed into the Tulare Western Spink Management Unit, all in Spink and Beadle Counties. The Board examined hydrographs for selected observation wells (SP-66G, SP-53B, BD-77A and BD-66A) which were included in the report filed by the Water Rights Program. According to the hydrographs (and DENR expert

witness James Goodman), water levels in both areas rise during wet years (recharge) and gradually decline during dry years. Also, the effects of pumping are obvious where the aquifer is under artesian conditions.

24. The combined water use for both areas of the aquifer was examined. Actual use was based on use reported by irrigators on an annual basis. Although domestic use and some commercial use exists for this aquifer, those uses are not reported annually. The vast majority of the use is for irrigation. The DENR presented irrigation water use for the period 1979 through 2001 in its initial report presented in 2002. As stated above, the Board determined that the historical water use would not reflect the actual use of the water starting in 2002 due to anticipated new construction for irrigation.

25. The period 2002 to 2006 was examined in the second report presented in 2007 and the reported actual irrigation use was for following:

2006 -- 18,573 acre feet

2005 -- 15,669 acre feet

2004 -- 15,187 acre feet

2003 -- 19,397 acre feet

2002 -- 18,649 acre feet

26. Based on the expert testimony of DENR expert Goodman, the five years listed above is a good period of record where development of the aquifer has been held relatively steady. This testimony was undisputed.

27. The Board also heard testimony regarding precipitation data for nearby weather stations. Redfield is just a four to five miles to the northwest, Raymond is about 20 miles northeast, and Huron is about five miles to the south. These three sites surround the area of the aquifer. The long-term record for Raymond indicates an average of 20.23 inches per year, for Huron the long-term average is 20.90 inches per year, and the Redfield site does not have sufficient data for a good long-term average. The precipitation totals for 2005 and 2004 are greater than the normal and less than normal for 2006, 2003, and 2002. The water use records are also greater in those drier years (inches per year). Overall this data indicates that precipitation for this five-year period was average to slightly below the long-term average. Based on the expert testimony, when precipitation is average, water use should also be average. This conclusion was not disputed at hearing.

28. The reported water use for irrigation from these management units for the last five years has been a total cumulative use of 87,475 acre feet or an average of 17,495 acre feet for each year.

29. Recharge to the management units in question has been estimated to be 19,960 acre feet annually.

30. Based on the five-year average of water use, the recharge of 19,960 feet annually is more than the average annual water use of 17,495 feet annually. However, the total water availability must be adjusted to factor in water that was authorized but unreported (failure of landowner to report irrigation annually per DENR rule) or not yet developed (waterworks not yet constructed or put to beneficial use).. Although the five-year period was useful to analyze newly permitted construction and use, a small number of the permits had not yet applied water to beneficial use.

31. The adjustment was made by calculating the average inches of water used per acre for those irrigators that actually irrigated and reported their use during the five-year period. The adjustment then assumes that the same volume (average number of inches of water applied per acre) would be used on the unreported or undeveloped acreages. This assumption is based on the fact that the same geographic location and same precipitation data would result in the same number of inches per acre. The vast majority of the water use was reported, so the expectation that the remainder would use the same quantity is well-grounded. Using this rationale, the total water use for the two management units would be adjusted upwards as follows:

1,696 AF added to 18,573 AF in 2006 for a total of 20,269 AF
2,010 AF added to 15,669 AF in 2005 for a total of 17,679 AF
2,307 AF added to 15,187 AF in 2004 for a total of 17,494 AF
3,010 AF added to 19,397 AF in 2003 for a total of 22,407 AF
3,136 AF added to 18,649 AF in 2002 for a total of 21,785 AF

32. After making the foregoing adjustments to each year's water use for unreported or undeveloped water not used for that year, the total cumulative water use for the period would then have been 99,634 acre feet or an average of 19,927 acre feet per year.

33. The water use of 19,927 acre feet per year total was considered in determining whether water was available for the permits in question. Water availability is calculated by subtracting the average calculated use per year (19,927 acre feet per year) from the recharge (19,960 acre feet per year). The sum is 33 acre feet.

34. The 33 acre feet would be insufficient to grant any of the applications at issue in this proceeding. The irrigation application that was filed first in time among the applications considered here (6344-3) sought to irrigate 160 acres, clearly needing well in excess of 33 acre feet. In fact, of all the irrigation applications in this proceeding, the one seeking to irrigate the smallest area of land was application 6670-3 which sought to irrigate 100 acres. Given the acreage involved and the

small quantity of water available, the Chief Engineer recommended that no new water permits be granted for irrigation. The Board agrees with the recommendation. The amount of water would also be insufficient for a livestock feedlot as requested by Marshall Brothers. Granting a small, clearly inadequate quantity of water for irrigation would result in use of water that is not beneficial for irrigation.

35. The foregoing findings are based on recent average annual water use for irrigation as reported by irrigators (as adjusted). The water use is not calculated by simply calculating the total water use stated on all water permits for irrigation, which would result in a larger number. Using the maximum water use stated on the permits would not be representative of actual use because the permits are for the maximum diversion rate or peak use for each permit. Using the reported acreage reflects the varying actual water use. Use of actual calculated water use is correct for the purpose of examining water availability.

36. In addition to the availability of water, this Board is also required to consider whether use of the water for irrigation, as proposed, would adversely impair existing water rights. There are a total of 138 water permits/rights from the Tulare Western Spink and Tulare Hitchcock Management Units for irrigation of 21,339 acres located in Spink, Hand, and Beadle Counties. Interference has

not been a concern in the area of the Tulare Hitchcock Aquifer. This aquifer is under water table conditions and significant drawdown does not extend very far from the production well. However, where the aquifer is confined in the Tulare Western Spink area of the aquifer, drawdown does occur and does cause interference. At this point in time this interference has not been adverse. The water level record is very good and development appears to have had very little overall impact on the aquifer.

37. The precipitation data indicates that the five-year period of record was about average or slightly below average for precipitation during the 2002 through 2006 time period. The water use during that time period would be expected to also represent an average.

38. Some areas of the aquifer recharge more than other areas. This has to be considered when issuing permits for transferring acres or drilling additional wells. Well spacing may be more of an issue in those areas of artesian conditions or in those areas where saturated thickness is thin.

39. There is domestic use from these management units but that use is not estimated. That amount is assumed to be relatively small compared to the irrigation use.

40. Because this Board finds that there is a lack of availability of water and has determined that the applications

should be denied, it need not consider whether the water use for irrigation would be in the public interest or whether the water use would be a beneficial use. Although irrigation is generally considered to be a beneficial use, using 33 AF for any of the applications at issue in this proceeding would be inefficient and would not result in a beneficial use.

41. These applications should be denied and the aquifer deemed fully appropriated. The applicants wish to maintain a priority date based on the date they filed their applications, but there is no provision in the statutes to allow this.

CONCLUSIONS OF LAW

1. The Board has jurisdiction of this matter.
2. In order for the Board to grant permits to the applicants, the applicants have the burden of proof and must show that they meet the criteria for obtaining the permits.
3. The standard for determining whether the water permits at issue here should be granted is governed by SDCL 46-2A-9 and SDCL 46-6-3.1.
4. SDCL 46-2A-9 requires that the Board determine whether there is a reasonable probability that there is unappropriated water available for the Applicants' proposed use. Because the water permits at issue here are groundwater applications, the Board must consider SDCL 46-6-3.1 when determining availability.

5. When considering the standard in SDCL 46-6-3.1, there are two numbers at issue: (a) the quantity of water withdrawn annually and (b) the quantity of the average estimated recharge of water. As of 2002, the water use and development history of the aquifer indicated that these management units were very close to being fully appropriated based on SDCL 46-6-3.1. Accordingly, the Board delayed hearing on the foregoing applications because it was unable to determine whether issuance of permits, as requested, would be consistent with SDCL 46-6-3.1

6. In analyzing these two numbers, the average estimated recharge is at issue, not the maximum or minimum recharge rate. Accordingly, the 0.83 rate per acre that was used in the Goodman analysis is the proper rate.

7. The average actual water use was properly calculated for the period over the last five years. Average use for earlier years did not reflect as many permits as were in existence during the last five years. Earlier data would not be representative of average use when considering that a number of new permits were issued allowing the average to increase. Further, the actual use over the five-year period was properly adjusted to account for undeveloped and unreported permitted acreage when it is assumed that the actual use of undeveloped and unreported permitted acreage will be consistent with the actual use of other reported acreage.

8. Because the actual average use of water essentially equals the average recharge rate, SDCL 46-6-3.1 constrains the Board from granting the applications.

9. Given the foregoing analysis of SDCL 46-6-3.1, there is not a reasonable probability that there is unappropriated water available for the Applicants' proposed use as contemplated by SDCL 46-2A-9. Although expert Goodman testified as to the possibility that 33 AF may be available for a water appropriation from the aquifer, this figure is extremely small when considering the scale of irrigation involved. For all practical purposes, any appropriation at all would be inconsistent with SDCL 46-6-3.1.

10. Although the applicants assert that the area of the aquifer is larger than the DENR witness asserts, they have not presented sufficient evidence to demonstrate that such quantity of water is actually available.

11. Under SDCL 46-2A-9, the Board must also consider three other factors in addition to whether there is unappropriated water available. Those three factors are: (a) whether the proposed diversion can be developed without unlawful impairment of existing rights, (b) whether the proposed use is a beneficial use and (c) whether the proposed use is in the public interest. Because the Board cannot grant any of the permits requested due to the

unavailability of water and the application of SDCL 46-6-3.1, there is no need to consider the remaining criteria.

12. The Board recognizes that it is possible that some or all of the proposed diversions could be developed without unlawful impairment of nearby existing rights. To analyze this issue for each of the water rights would require individual consideration of nearby competing wells. The Board need not consider this factor, however, because it has already determined that there is not water available from the water in general.

13. This Board did not consider the public interest criteria and no evidence was entered on that aspect. However, due to the determination that no water is available, the public interest issue need not be considered.

14. Beneficial use is the final criteria in SDCL 46-2A-9. SDCL 46-1-4 requires that South Dakota's water resources be put to beneficial use to the fullest extent of which they are capable. Further, the "beneficial use" criteria for consideration of the water permit in this case requires consideration of the best utilization of the water supply. These legal requirements cannot be met here for two reasons. First the Legislature has determined, as a statutory matter, that mining water from aquifers is not a beneficial use of the water source. SDCL 46-6-3.1. Second in the event that 33 AF is available, the use of such a small quantity of

water would not be beneficial to the applicant irrigators or to Marshall Brothers for its confined animal feeding operation. With respect to irrigation, the Board notes that SDCL 46-5-6 generally provides for a maximum annual volume of water of up to 2 acre feet per acre delivered to the land for irrigation. More particularly, in the geographic area in question here, the average actual volume applied per acre runs from 10-13 inches in average years. The 33 acre feet is wholly inadequate for any of the applications here (all of which involve land of at least 100 acres) and would not be beneficial for any of the applications here. The Chief Engineer recommended that the 33 AF should not be appropriated for any irrigator. None of the applicants took issue at hearing with the Chief Engineer's conclusion that if there are only 33 AF available, that amount need not be appropriated.

15. This proceeding involves applications that were deferred by the Board (or in legal parlance "continued") for consideration after additional evidence. Each application was placed on a list for additional consideration. The list was procedural and did not grant a right of any kind to a water permit or a priority date.

16. When applications are pending consideration by the Board or permits have been granted for water use, the applicable priority date relates back to the date of water permit application. SDCL 46-2A-15. The "relation back" statute does not, however, operate to

allow priority dates to remain in place once water permit applications have been fully considered and denied.

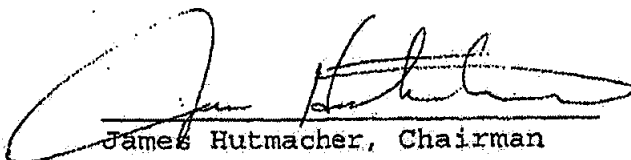
17. The Allen Gatzke request for placement of the 2007 permit on the deferred list as a 2002 application need not be considered insofar as the question is moot.

FINAL DECISION

The water permit applications listed above are hereby denied for the foregoing reasons. In particular, the Western Spink and Hitchcock Management Units of the Tulare Aquifer are fully appropriated.

Dated this 11 day of March, 2008.

BY THE BOARD:


James Hutmacher, Chairman

p1d303_jph(dh)

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John C. Wiles, P.C.
Raymond D. Rylance, P.C.
Rebecca L. Morlock Reeves

RECEIVED
MAR 25 2013
WATER RIGHTS
PROGRAM

March 22, 2013

Jeffrey P. Hallem
Attorney General's Office
1302 E Hwy 14 #1
Pierre, SD 57501

Timothy G. Bottum
PO Box 1025
Mitchell, SD 57301

Diane Best
Attorney General's Office
317 N Main Ave
Sioux Falls, SD 57104

Eric Gronlund
Department of Environment and Natural Resources
PMB 2020 Joe Foss Bldg
523 E Capitol
Pierre, SD 57501-3182

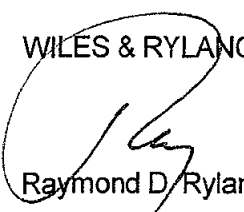
Re: Wayne Binger Permit #7551-3
Gary Marshall Permits #7570-3 through #7575-3 and #7637-3 through 7640-3

Dear Folks:

On behalf of Oscar, Inc., Lenny Peterson, Danny Peterson and Brad Peterson, as their attorney in this matter, we hereby withdraw their objection to the above-stated applications as set forth in their letter of February 22, 2012 (obviously a typo), and their letter dated February 22, 2013 submitted by Todd D. Wilkinson and Gary W. Schumacher on behalf of Lenny Peterson, Danny Peterson, Brad Peterson and Oscar, Inc.

Very truly yours,

WILES & RYLANCE


Raymond D. Rylance

RDR:bjs
cc. Lenny Peterson
Todd Wilkinson



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

April 3, 2013

NOTICE

TO: Wayne Binger
37923 183rd Street
Tulare SD 57476

Marshall Brothers
Gary Marshall
19032 388th Avenue
Hitchcock SD 57348

Ray Rylance
PO Box 227
Watertown SD 57021

Floyd Peterson
Oscar Inc
209 27th NW
Huron SD 57350

FROM: Jeanne Goodman, Chief Engineer
Water Rights Program

SUBJECT: Scheduling of Hearing on Water Permit Application No. 7551-3 - Wayne Binger,
Application Nos. 7570-3 thru 7575-3 & 7637-3 thru 7640-3 - Gary Marshall/Marshall
Brothers and Application No. 7620-3 - Oscar Inc.

A petition was submitted to Water Permit Application No. 7551-3, Wayne Binger and Application Nos. 7570-3 thru 7575-3 & 7637-3 thru 7640-3, Gary Marshall/Marshall Brothers. The petition was filed in response to the Notice of Hearing published February 13, 2013 in the Redfield Press and The Plainsman scheduling a March 7, 2013 hearing before the Water Management Board on these applications. The March 7th hearing was then postponed pursuant to SDCL 46-2A-5 based on the petition filed by petitioners.

In addition, at their March 7th meeting, the Water Management Board deferred consideration of Water Permit Application No. 7620-3 filed by Oscar Inc. in order to consider this application in conjunction with the above listed applications seeking to appropriate water from the Tulare:Western Spink Hitchcock Aquifer.

On March 22, 2013, Raymond Rylance submitted a letter (copy enclosed) withdrawing his clients objection to the Binger and Marshall applications listed above. The applications will now be treated as uncontested and the Department of Environment and Natural Resources will ask the Board to rely on the March 7, 2013 testimony of Ken Buhler regarding water availability.

The Water Management Board will conduct a hearing to consider Application Nos. 7551-3, 7570-3, 7571-3, 7572-3, 7573-3, 7574-3 7575-3, 7637-3, 7638-3, 7639-3, 7640-3 and 7620-3 at 9:30 AM (Central Time) on Thursday, May 2, 2013 at the Floyd Matthew Training Center, Joe Foss Building, 523 E. Capitol Avenue, Pierre SD. Future notice will be provided to all parties if there are changes to the hearing time.

Applicable provisions of the Notices of Hearing published February 13, 2013 in the Redfield Press and The Plainsman apply at this hearing.

Please contact Eric Gronlund at (605) 773-3352, if you have any questions.

c: Diane Best, Assistant Attorney General
Todd Wilkinson, PO Box 29, DeSmet SD 57231

enclosure

CERTIFICATION

I hereby certify that on April 3, 2013, I have personally deposited with the United States mail at Pierre, South Dakota, first class postage, prepaid envelopes containing a Notice dated April 3, 2013, regarding scheduling of the hearing for Water Permit Application Nos. 7551-3, 7570-3, 7571-3, 7572-3, 7573-3, 7574-3, 7575-3, 7637-3, 7638-3, 7639-3, 7640-3 and 7620-3 with enclosure, as addressed below:

Wayne Binger
37923 183rd Street
Tulare SD 57476

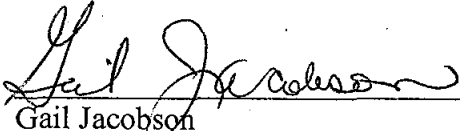
Marshall Brothers
Gary Marshall
19032 388th Avenue
Hitchcock SD 57348

Diane Best, Assistant Attorney General
317 North Main Avenue
Sioux Falls SD 57104

Ray Rylance
PO Box 227
Watertown SD 57021

Todd Wilkinson
PO Box 29
DeSmet SD 57231

Floyd Peterson
Oscar Inc
209 27th NW
Huron SD 57350



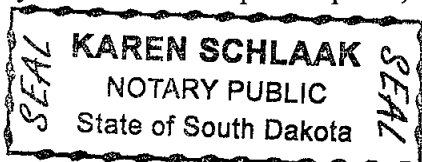
Gail Jacobson
Water Rights Program, DENR

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 3rd day of April, 2013



Karen Schlaak
Notary Public
My Commission expires April 1, 2019





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7571-3, Marshall Brothers**

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. 7571-3, Marshall Brothers, c/o Gary Marshall, 19032 388th Avenue, Hitchcock SD 57348.

The Chief Engineer is recommending APPROVAL of Application No. 7571-3 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. 7571-3 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 January 30, 2013 report on applications from the Tulare:Western Spink/Hitchcock for additional information.

Garland Erbele, Chief Engineer
February 7, 2013

REPORT TO THE CHIEF ENGINEER
ON

WATER PERMIT APPLICATION NO. 7373-3
TERRY WIETING

WATER PERMIT APPLICATION NO. 7551-3
WAYNE BINGER

WATER PERMIT APPLICATION NOS. 7570-3, 7571-3, 7572-3, 7573-3, 7574-3, 7575-3
7637-3, 7638-3, 7639-3, & 7640-3
GARY MARSHALL-MARSHALL BROS.

WATER PERMIT APPLICATION NO. 7620-3
OSCAR INC.

JANUARY 30, 2013

Water Permit Application No. 7373-3 proposes to appropriate water at a maximum diversion rate of 1.78 cubic feet of water per second (cfs) from two wells to be completed into the Tulare: Western Spink/Hitchcock aquifer. The wells are to be located in the S½ SW¼ Section 16, T113N-R62W and are expected to be approximately 75 feet deep. This application proposes to irrigate 160 acres located in the SW¼ Section 16, T113N-R62W.

Water Permit Application No. 7551-3 proposes to irrigate 90 additional acres from the well authorized by Water Right No. 470A-3. This application proposes to irrigate 90 acres located in the NE¼, N ½ SE¼ Section 36, T115N-R65W from the existing well with no increase to the developed diversion rate. Water Right No. 470A-3 authorizes 1.56 cubic feet of water per second (cfs) from one well completed into the Tulare: Western Spink/Hitchcock aquifer (130 feet deep) located in the NE¼ SE¼ Section 36 for irrigation of 136 acres located in the SE¼ Section 36, T115N-R65W.

Water Permit Application No. 7570-3 proposes to appropriate water at a maximum diversion rate of 3.56 cfs from two wells to be completed into the Tulare: Western Spink/Hitchcock aquifer. The wells are to be located in the center of the NW¼ and the center of the SW¼ Section 1, T113N-R64W and are expected to be approximately 80 feet deep. This application proposes to irrigate 280 acres located in the W ½ Section 1, T113N-R64W.

Water Permit Application No. 7571-3 proposes to appropriate water at a maximum diversion rate of 1.78 cfs from two wells to be completed into the Tulare: Western Spink/Hitchcock aquifer. The wells are to be located near the center of the SE¼ Section 4, T113N-R64W and are expected to be approximately 80 feet deep. This application proposes to irrigate 160 acres located in the SE¼ Section 4, T113N-R64W.

Water Permit Application No. 7572-3 proposes to appropriate water at a maximum diversion rate of 1.78 cubic feet of water per second (cfs) from a well to be completed into the Tulare: Western Spink/Hitchcock aquifer. The well is to be located in the center of the SW¼ Section 34,

T114N-R64W and is expected to be approximately 80 feet deep. This application proposes to irrigate 140 acres located in the SW 1/4 Section 34, T114N-R64W.

Water Permit Application No. 7573-3 proposes to appropriate water at a maximum diversion rate of 1.78 cfs from a well to be completed into the Tulare: Western Spink/Hitchcock aquifer. The well is to be located near the center of the NW 1/4 Section 27, T114N-R63W and is expected to be 80 feet deep. This application proposes to irrigate 160 acres located in the NW 1/4 Section 27, T114N-R63W.

Water Permit Application No. 7574-3 proposes to appropriate water at a maximum diversion rate of 1.78 cfs from a well to be completed into the Tulare: Western Spink/Hitchcock aquifer. The well is to be located in the center of the NE 1/4 Section 35, T114N-R64W and is expected to be approximately 80 feet deep. This application proposes to irrigate 160 acres located in the NE 1/4 Section 35, T114N-R64W.

Water Permit Application No. 7575-3 proposes to appropriate water at a maximum diversion rate of 3.56 cfs from two wells to be completed into the Tulare: Western Spink/Hitchcock aquifer. The wells are to be located in the centers of the SW 1/4 and SE 1/4 Section 36, T114N-R64W and are expected to be approximately 80 feet deep. This application proposes to irrigate 280 acres located in the S 1/2 Section 36, T114N-R64W.

Water Permit Application No. 7637-3 proposes to appropriate water at a maximum diversion rate of 1.78 cfs from a well to be completed into the Tulare: Western Spink/Hitchcock aquifer. The well is to be located in the center of the SE 1/4 Section 25, T114N-R64W and is expected to be approximately 80 feet deep. This application proposes to irrigate 135 acres located in the SE 1/4 Section 25, T114N-R64W.

Water Permit Application No. 7638-3 proposes to appropriate water at a maximum diversion rate of 1.78 cfs from a well to be completed into the Tulare: Western Spink/Hitchcock aquifer. The well is to be located in the center of the SE 1/4 Section 18, T114N-R63W and is expected to be approximately 80 feet deep. This application proposes to irrigate 135 acres located in the SE 1/4 Section 18, T114N-R63W.

Water Permit Application No. 7639-3 proposes to appropriate water at a maximum diversion rate of 1.78 cfs from a well to be completed into the Tulare: Western Spink/Hitchcock aquifer. The well is to be located in the center of the NW 1/4 Section 3, T114N-R64W and is expected to be approximately 80 feet deep. This application proposes to irrigate 135 acres located in the NW 1/4 Section 3, T114N-R64W.

Water Permit Application No. 7640-3 proposes to appropriate water at a maximum diversion rate of 1.78 cfs from two wells to be completed into the Tulare: Western Spink/Hitchcock aquifer. The wells are to be located near the center of the SW 1/4 Section 8, T113N-R62W and are expected to be approximately 80 feet deep. This application proposes to irrigate 160 acres located in the SW 1/4 Section 8, T113N-R62W.

Water Permit Application No. 7620-3 proposes to appropriate water at a maximum diversion rate of 1.94 cfs from a well to be completed into the Tulare: Western Spink/Hitchcock aquifer. The well is to be located in the center of the NE 1/4 Section 32, T115N-R63W and is expected to be

approximately 60 feet deep. This application proposes to irrigate 136 acres located in the NE¼ Section 32, T115N-R63W.

AQUIFER: TULARE: WESTERN SPINK/HITCHCOCK

The Tulare: Western Spink/Hitchcock aquifer was basically considered fully appropriated in 2002 and the amount of development in the aquifer has not changed appreciably since 2003. A number of water permit applications were denied or withdrawn between 2002 and 2011. Six applications to appropriate water from the Tulare: Western Spink/Hitchcock aquifer (No. 7288-3, No. 7289-3, No. 7290-3, No. 7291-3, No. 7292-3 and No. 7293-3) were filed with the DENR-Water Rights Program in December 2011. Based on a DENR-Water Rights staff analysis of the aquifer (Buhler, 2012a) and a stipulation between parties, Water Permit Application No. 7288-3 was withdrawn and the appropriation requests of the five remaining applications were reduced. Following a July 11, 2012 hearing, the Water Management Board approved water permit applications totaling an amount of water approximately equal to the probable quantity of water remaining inappropriate from the aquifer.

Water Permit Application No. 7373-3, Terry Wilting, was received June 14, 2012, and Water Permit Application Nos. 7378-3 and 7379-3, Riverside Historian Brethren, were received June 29, 2012. Water Permit Application Nos. 7373-3, 7378-3 and 7379-3 proposed to irrigate an additional 565 acres from the Tulare: Western Spink/Hitchcock aquifer. Based on the 1979-2011 average annual irrigation application rate for the aquifer (i.e. 9.32 inches per acre per year) (Buhler, 2012a), the average annual withdrawal associated with these applications would be 438.8 acre-feet per year.

Based on the April 2012 analysis of the aquifer, the Chief Engineer recommended denial of Water Permit Application Nos. 7378-3 and 7379-3 because the best available information indicated that approval of these applications would cause the estimated average annual withdrawal from the Tulare: Western Spink/Hitchcock aquifer to exceed the estimated average recharge to the aquifer. South Dakota Codified Law (SDCL) 46-6-3.1 requires that "No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable that 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." The applicant did not oppose the Chief Engineer's recommendation and pursuant to SDCL 46-2A-3 the applications were withdrawn from consideration.

The Chief Engineer recommended deferral of Water Permit Application No. 7373-3 pending the resolution of an existing water right (No. 282-3, Renee Veskrina Morog) appropriating water from the Tulare: Western Spink/Hitchcock aquifer that was scheduled for cancellation at the October 3, 2012 Water Management Board meeting. The water right was eventually cancelled due to forfeiture. The Chief Engineer has subsequently determined that since the availability of unappropriated water from an aquifer is based on actual use, the use or in this case nonuse of Water Right No. 282-3 was already considered when analyzing the availability of water from the Tulare: Western Spink/Hitchcock aquifer. Therefore, cancellation of the water right did not result in additional unappropriated water available from the aquifer.

At the time, the April 2012 analysis seemed plausible; however comparison of it with a similar analysis conducted later for the Tulare East James aquifer identified potential inconsistencies between the two analyses. The April 2012 analysis of the Tulare: Western Spink/Hitchcock aquifer appears to have been overly conservative. Two of the fundamental assumptions used in the analysis resulted in an extremely diminished volume of water that was available for appropriation from the aquifer: 1) In computing the maximum number of acres that could be irrigated from the aquifer based on the average annual recharge and the average annual irrigation application rate, the analysis assumed the irrigation of 100 percent of permitted acreage when in fact, for various reasons, only a fraction of permitted acres are irrigated each year; and 2) In computing the amount that the average annual recharge to the aquifer has exceeded average annual discharge from the aquifer based on observation well data, the portion of the aquifer that was considered under unconfined conditions was estimated based primarily on 1984 data (Kuiper, 1984) which resulted in an overly contracted area.

AQUIFER CHARACTERISTICS:

Although additional data and closer scrutiny of the existing data will allow for improvements to the general deliniation of the Tulare: Western Spink/Hitchcock aquifer, alterations to the "Aquifer Characteristics" section of the April 2012 report to the Chief Engineer (Buhler, 2012a) are not warranted at this time. However, a cursory review of the data suggests that the areal extent of the aquifer as described in the report may have been optimistic.

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.

WATER AVAILABILITY:

The probability of unappropriated water being available from the Tulare: Western Spink/Hitchcock 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 that 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."

In applying SDCL 46-6-3.1, the Sixth Judicial Circuit Court ruled in 2005 that if the Water Management Board uses average annual recharge, then it should also use average annual withdrawals to determine if unappropriated water is available from the aquifer (*Hines v. South Dakota Dept. of Environ. and Nat'l. Resources, Hughes County 04-37* (Memorandum Decision, April 29, 2005)).

The availability of unappropriated water from the Tulare: Western Spink/Hitchcock aquifer was evaluated based on observation well data and through consideration of hydrologic budgets for the aquifer.

OBSERVATION WELL DATA:

The analysis of observation well data provides a qualitative means of assessing the aquifer and provides the best information available to evaluate the Tulare: Western Spink/Hitchcock aquifer. In addition, Administrative Rule of South Dakota Section 74:02:05:07 requires that "the Water Management Board shall rely upon the record of observation well measurements to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated average annual recharge to the aquifer."

The DENR-Water Rights Program monitors 48 observation wells completed into the Tulare: Western Spink/Hitchcock aquifer. The analysis of the DENR-Water Rights Program observation well data provides the best information reasonably available to evaluate withdrawals from an aquifer as compared with recharge to the aquifer. Observation well data showing a steady, continual decline of the aquifer's water level or artesian pressure could indicate that withdrawals from an aquifer were exceeding recharge. In addition, water level fluctuations in an aquifer dominated by the influences of well withdrawals, or a change in the configuration of the potentiometric surface could indicate that well withdrawals are a significant component in the system relative to recharge and/or natural discharge. Examination of the observation well data to consider long term water level trends, any influences of well withdrawals and the configuration of the potentiometric surface of the aquifer are discussed below.

Observation well water level trends:

A rising water level indicates that recharge to the aquifer exceeds withdrawals from the aquifer and conversely a declining water level is indicative of withdrawals exceeding recharge. An equation for this relationship is:

$$\Delta S = R - D$$

Where: ΔS = change in the volume of water in storage in the aquifer

R = Recharge

D = Discharge

The observation well data for the Tulare: Western Spink/Hitchcock aquifer has documented upward trending water levels throughout the aquifer. The average slope of linear trend lines for observation well hydrographs over the time period of January 2003 through October 2012 has been (+0.284 feet per year). The upward trending water levels indicate recharge to the Tulare: Western Spink/Hitchcock aquifer has been greater than the total of the discharges from the aquifer over the period of record.

An analysis of observation well hydrographs was used to quantify the change in volume of water in storage in the aquifer (i.e. the amount that recharge to the aquifer has exceeded discharge from the aquifer). The analysis involved identifying observation wells completed into the unconfined portion of the Tulare: Western Spink/Hitchcock aquifer and determining the annual change of the water level in each well. The amount of water represented by a change in water level was determined by multiplying the water level change by the aquifer's specific yield (0.15) (Kuiper, 1984). The average change in storage was applied over the portion of the aquifer that is under unconfined conditions to determine the volume in acre-feet per year of the change in storage. In equation form:

$$\Delta V_{avg} = \Delta \text{Wat Lev}_{avg} * S_y * A$$

Where:

ΔV_{avg} = Average change in volume (ac-ft/yr)

Wat Lev_{avg} = Average change in water level (ft/yr)

S_y = Specific Yield

A = Area (acres)

The average annual change in water level (Wat Lev_{avg}) in the Tulare: Western Spink/Hitchcock aquifer was determined through examination of DENR-Water Rights' observation well data. Five observation wells were used to analyze the Tulare: Western Spink/Hitchcock aquifer since they were the only ones that were in portions of the aquifer that remained unconfined for the entire period of record (Water Year 2003 through Water Year 2012) and the wells were determined to accurately reflect aquifer conditions. The results of the analysis are shown in Table 1.

ANNUAL WATER LEVEL CHANGE (ft)						
	SP-79F	SP-78B	SP-80B	SP-82E	SP-82G	AVE
2003	-0.32	-0.69	-1.12	-0.82	-0.87	-0.764
2004	0.62	-0.5	-0.79	0.45	-0.65	-0.174
2005	-0.18	-0.18	0.23	1.54	0.3	0.342
2006	0.16	-0.1	0.08	-1.09	0.35	-0.12
2007	1.67	1.81	2.21	2.77	2.2	2.132
2008	0.56	0	0.37	1.1	1.1	0.626
2009	0.32	0.99	1.02	-0.3	0.66	0.538
2010	1.23	2.46	1.58	0.7	1.44	1.482
2011	3.5	0.55	2.3	0	-0.7	1.13
2012	-3.1	-1.2	-2	-1.8	-2.1	-2.04
AVE	0.4460	0.3140	0.3880	0.2550	0.1730	0.3152

Table 1. Water Level change per year per observation well (Water Rights, 2013a).

To determine the area (A) of the Tulare: Western Spink/Hitchcock aquifer that was under unconfined conditions, ESRI @ArcMap™10.0 was used to generate a Triangulated Irregular Network (TIN) of the aquifer's potentiometric surface using October 2012 observation well readings. The TIN was converted to a raster file using a Natural Neighbors interpolation method. A second TIN was created using the elevation of the upper most aquifer material encountered in test holes drilled by the DENR-Geological Survey and DENR-Water Rights Program observation wells within the areal extent of the aquifer as defined in the April 2012 aquifer analysis. This TIN was also converted to a raster file using a Natural Neighbors interpolation method. ESRI @ArcMap™10.0 raster calculator was used to subtract the potentiometric surface raster from the "first aquifer material" raster and generate a raster where aquifer material occurred above the potentiometric surface. DENR-Geological Survey test holes(Lithologic Logs), DENR-Water Rights Program observation wells (Water Rights, 2013a),

domestic wells (Water Rights, 2013b), and irrigation wells (Water Rights, 2013c) within and adjacent to this resultant raster were examined to determine if the aquifer material that was above the Tulare: Western Spink/Hitchcock potentiometric surface was actually part of the aquifer. Based on this analysis, the unconfined portion of the Tulare: Western Spink aquifer was determined to be 76,978 acres (see figure 1).

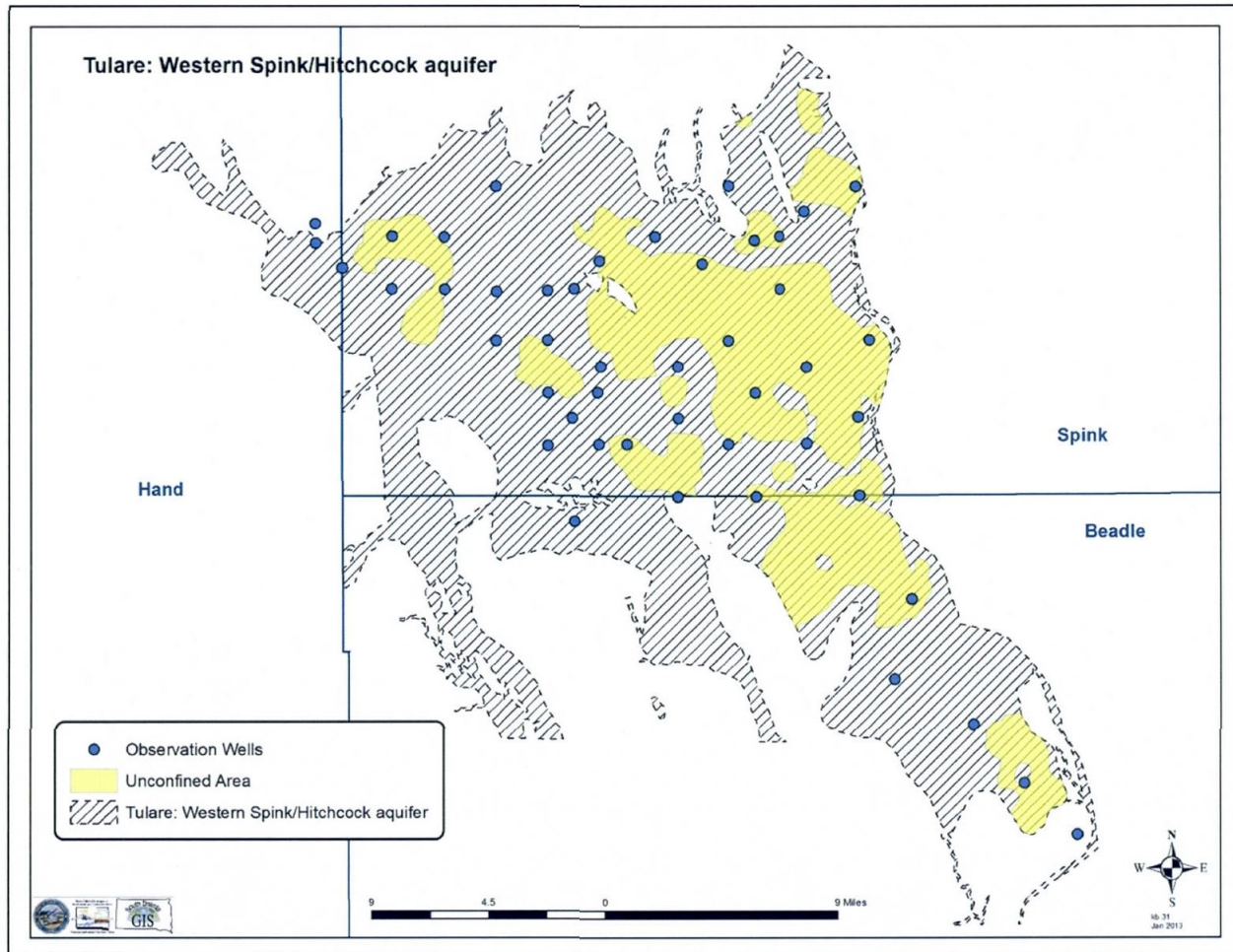


Figure 1. Areal extent of the Tulare: Western Spink/Hitchcock aquifer and the unconfined areas of the aquifer.

Substituting the values from above for the equation $\Delta V_{avg} = \Delta W_{at Lev_{avg}} * S_y * A$,

$$\Delta V_{avg} = 0.3152 \text{ ft/yr} * 0.15 * 76,978 \text{ acres}$$

$$\Delta V_{avg} = 3,639.5 \text{ ac-ft/yr}$$

Therefore, the observation well data indicates that the annual recharge to the aquifer exceeded discharge from the aquifer by an average of 3,640 acre-feet per year for the period since development has been static (2003-2012).

Water level fluctuations due to well withdrawals:

Observation well data documents that the development that has occurred from the Tulare: Western Spink/Hitchcock aquifer has had an inconsequential effect on the aquifer over the long

term. Figures 2-6 show hydrographs for DENR-Water Rights Program observation wells completed into the aquifer and Figure 7 shows the location of these wells. The water level records for the observation wells document that climatic conditions greatly mask the temporal effects of well withdrawals. Therefore, recharge to and natural discharge from the Tulare: Western Spink/Hitchcock aquifer significantly exceeds pumping. Recognizing that natural discharge from the aquifer can be captured for pumping. The hydrographs document that there is unappropriated water available from the aquifer to support these appropriations.

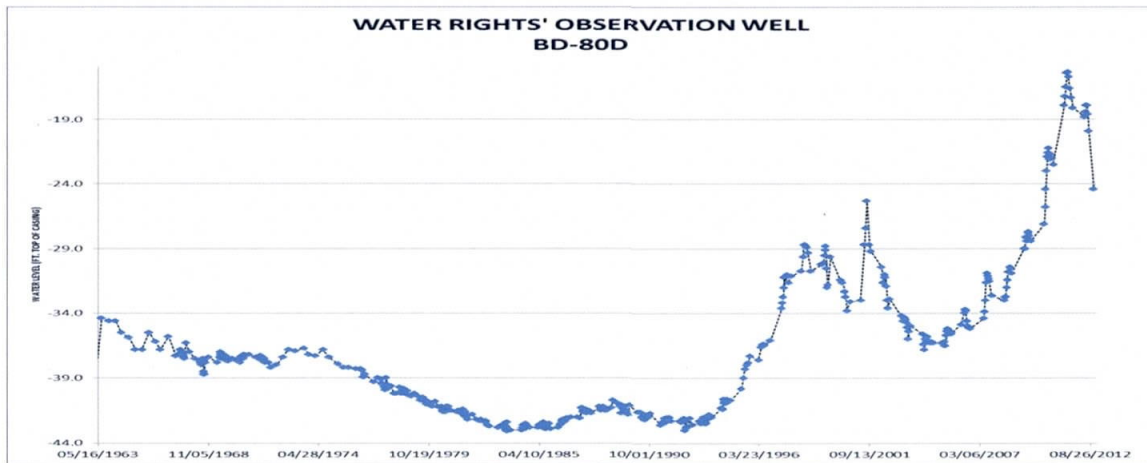


Figure 2. Hydrograph of DENR-Water Rights Program observation well completed into the Tulare: Western Spink/Hitchcock aquifer.

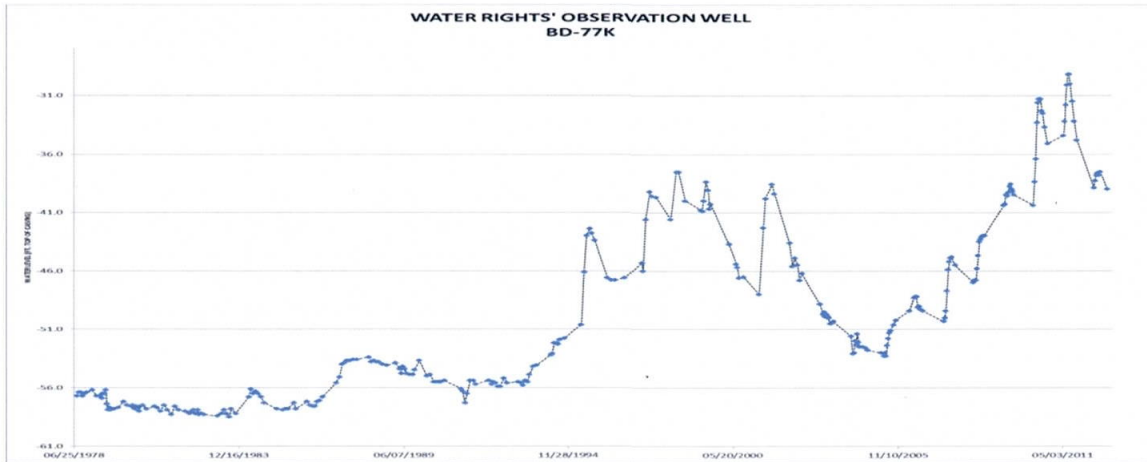


Figure 3. Hydrograph of DENR-Water Rights Program observation well completed into the Tulare: Western Spink/Hitchcock aquifer.

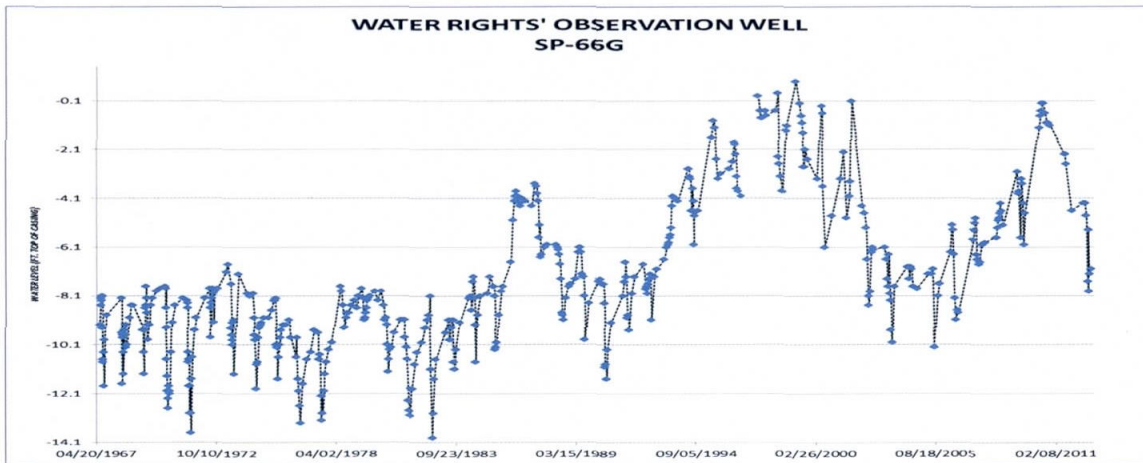


Figure 4. Hydrograph of DENR-Water Rights Program observation well completed into the Tulare: Western Spink/Hitchcock aquifer.

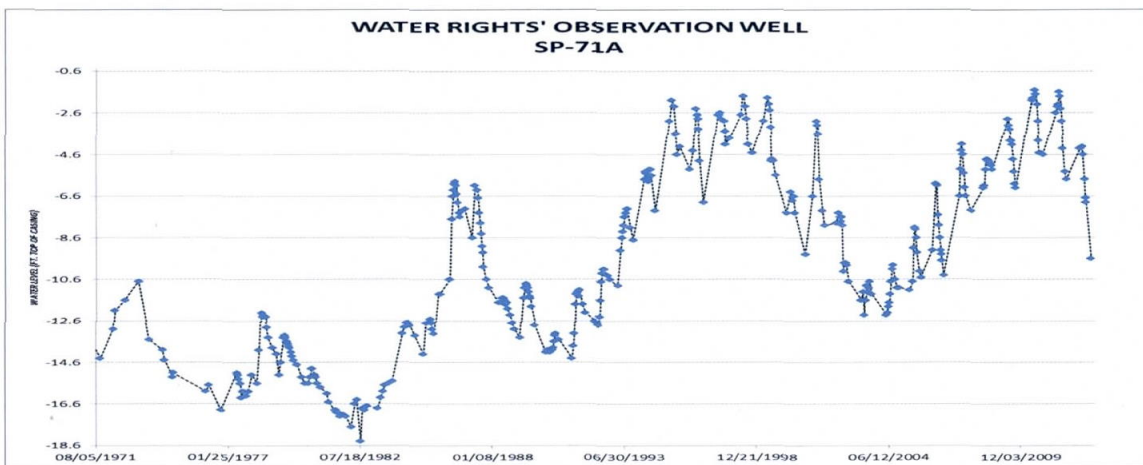


Figure 5. Hydrograph of DENR-Water Rights Program observation well completed into the Tulare: Western Spink/Hitchcock aquifer.

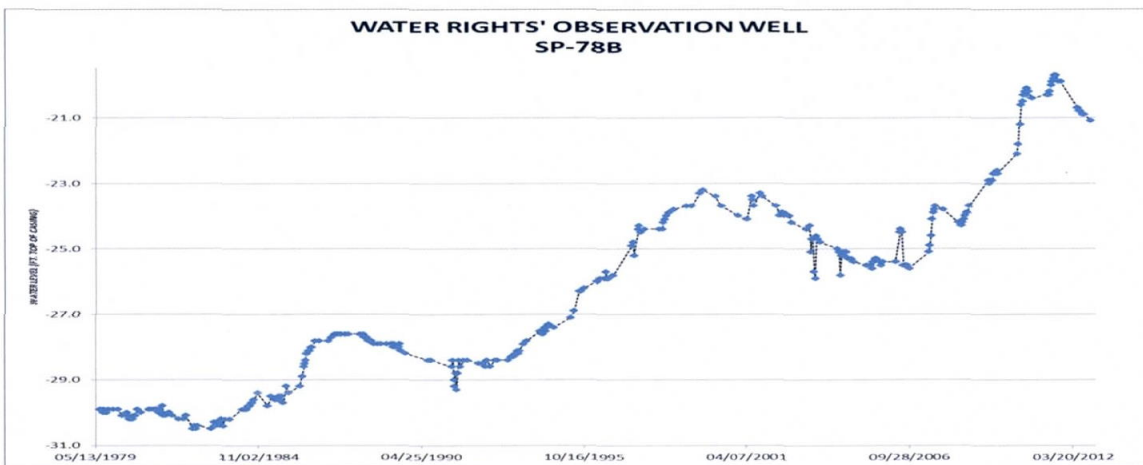


Figure 6. Hydrograph of DENR-Water Rights Program observation well completed into the Tulare: Western Spink/Hitchcock aquifer.

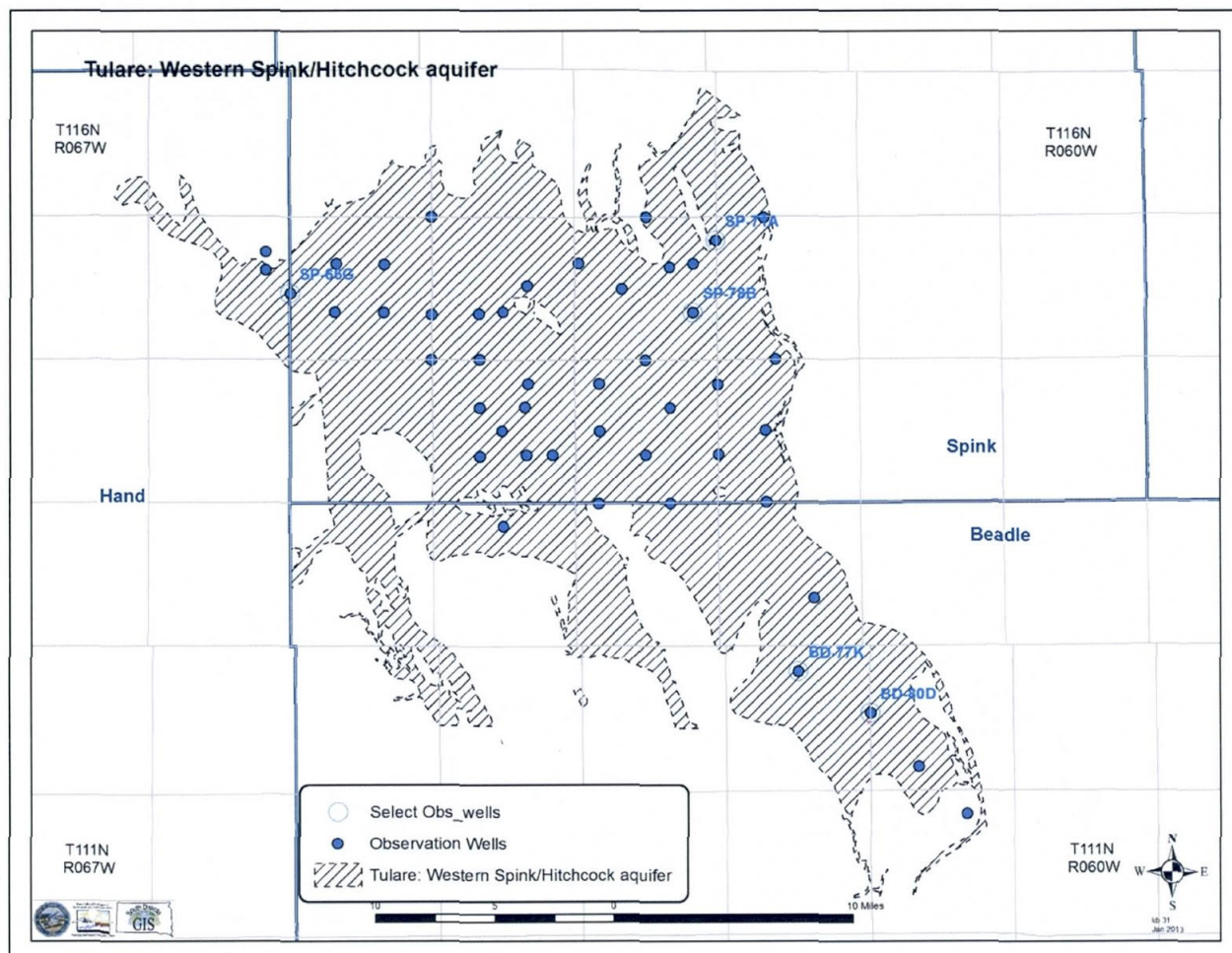


Figure 7. Location of DENR-Water Rights Program observation wells completed into the Tulare: Western Spink aquifer and wells shown in Figures 2-6.

Potentiometric Surface:

The potentiometric surface of the Tulare: Western Spink/Hitchcock aquifer was determined for two time periods based on the observation well measurements for October 1987 and for October 2012. A map showing the two potentiometric surfaces is shown in Figure 8. It is clear that although there are some nuances in the potentiometric surfaces, the surface is essentially unchanged; indicating that discharge is not exceeding recharge and unappropriated water is available from the aquifer.

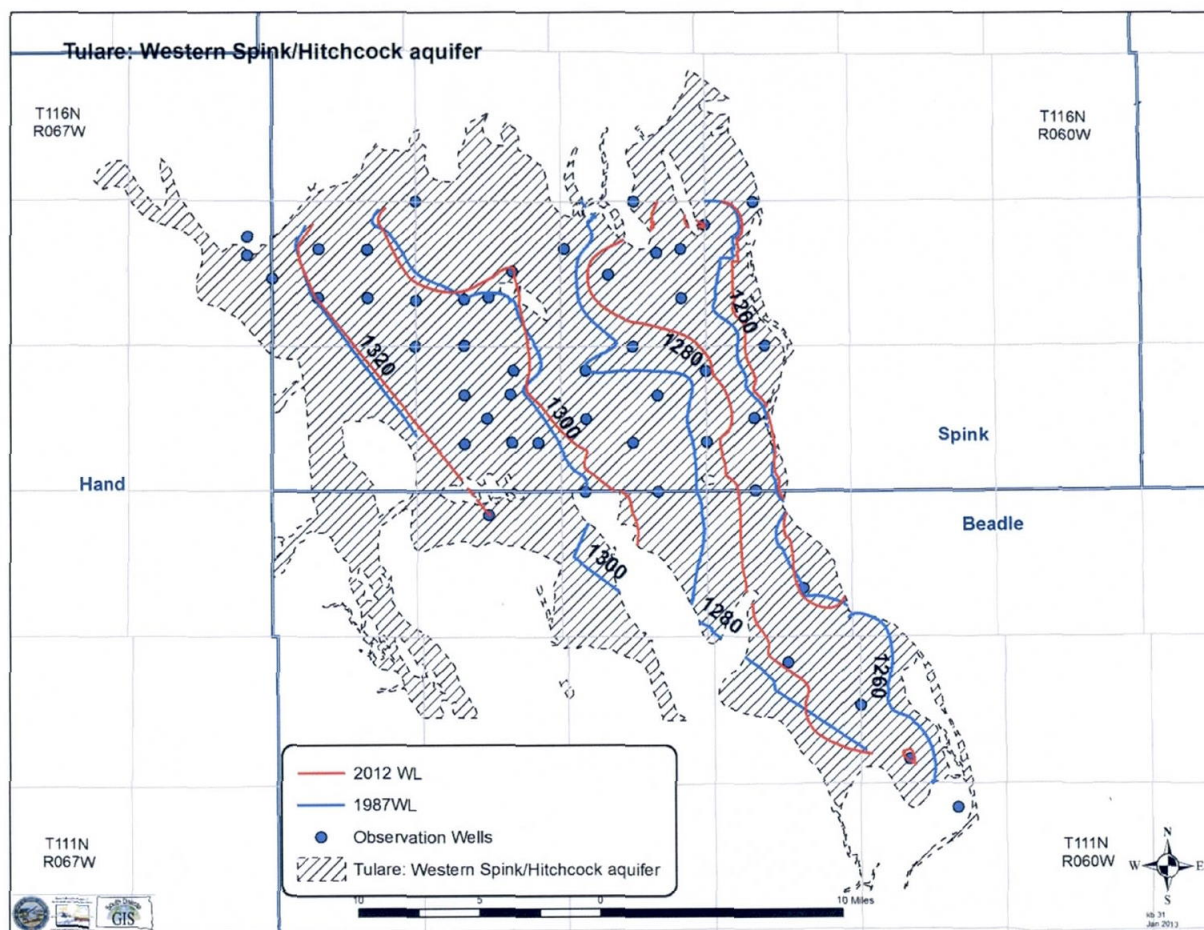


Figure 8. Comparison of the potentiometric surface of the Tulare: Western Spink/Hitchcock aquifer (October 1987 versus October 2012)

Regional flow net analysis using observation well data:

The recharge potential of the Tulare: Western Spink/Hitchcock aquifer was evaluated by interpreting a regional flow net analysis based on the September 2012 water level data from the DENR-Water Rights' Observation Well Network. A flow net analysis is a calculation of the amount of water flowing through the aquifer according to the equation:

$$Q = TIL$$

Where:

Q= flow in gallons per day

T= Transmissivity in gallons per day per foot

I= Hydraulic gradient in feet per mile

L= Cross sectional length in miles

The average hydraulic conductivity for the Tulare: Western Spink/Hitchcock aquifer was estimated based on the specific capacities of the 30 irrigation wells completed into the aquifer for which the data to allow these calculations was available (Water Rights, 2013b; Water Rights, 2013c). Transmissivity was calculated at each well using the wells' specific capacity ("Transmissivity from Specific Capacity"), and the transmissivity was divided by the aquifer

thickness at the well to determine an average hydraulic conductivity for the aquifer. The average hydraulic conductivity was calculated to be 1,982 gallons per day per square foot (gpd/ft²). The average transmissivity of the Tulare: Western Spink/Hitchcock aquifer of a cross section through which all of the flow of the aquifer must flow was determined by multiplying the average thickness of the cross section (36.3 feet) times the average hydraulic conductivity for the aquifer (1,982 gallons per day per square foot) to be 71,950 gallons per day per foot.

The hydraulic gradient for the Tulare: Western Spink/Hitchcock aquifer was estimated to average 4.26 feet per mile based on data from the DENR-Water Rights' Observation Well Network.

The cross section length of the Tulare: Western Spink/Hitchcock aquifer was determined to be approximately 25 miles based on the current aquifer delineation.

The amount of water moving through the Tulare: East James aquifer is estimated as follows:

$$\begin{aligned} Q &= ((71,950 \text{ gpd/ft}) \times (4.26 \text{ ft/mile}) \times (25 \text{ miles})) / (325,851 \text{ gallons/ac-ft}) \\ &= 23.5 \text{ ac-ft/day} \\ &= \underline{8,583 \text{ ac-ft/yr}} \end{aligned}$$

In order to sustain this estimated volume of groundwater moving through the aquifer, the recharge rate in inches per acre per year based on an area of the aquifer of approximately 263,000 acres would be 0.39 inches. This recharge rate cannot be considered "average annual recharge" since it used only 2012 data, and likely can be viewed as a minimum recharge rate; however the estimate does show the reasonableness of the average annual recharge estimate from Kuiper (1984).

HYDROLOGIC BUDGETS:

SDCL 46-6-3.1 and the availability of unappropriated water from the Tulare: Western Spink/Hitchcock aquifer can be evaluated by considering a hydrologic budget for the aquifer which compares the recharge to and discharge from the aquifer.

Recharge to the Tulare: Western Spink/Hitchcock aquifer occurs primarily through infiltration of precipitation where the outwash is at or near ground surface. The best information reasonably available to estimate the average annual recharge to the aquifer is from the groundwater flow model developed by Kuiper (1984). The model incorporated an average recharge rate throughout the aquifer although recharge generally occurs only in unconfined areas. The average annual recharge to the aquifer based on the groundwater flow model ranged from 0.41-1.66 inches per year with a "best fit" reflecting various simulations of 0.83 inches per year (Kuiper, 1984). Considering an areal extent of the Tulare: Western Spink/Hitchcock aquifer equal to 263,016 acres and applying a 0.83 inches per year recharge rate, the average annual recharge to the Tulare: Western Spink/Hitchcock aquifer is estimated to total 18,192 acre-feet per year.

Withdrawals from the Tulare: Western Spink/Hitchcock occurs through natural discharge, domestic use and uses from appropriative rights/permits. Essentially all of the well withdrawals from the aquifer are for irrigation use. For the period of 1979 through 2011, irrigation pumpage

from the aquifer is shown in Table 2, and the average irrigation application rate over this period was 9.32 inches per acre per year (Buhler, 2012a).

REPORTED IRRIGATION PUMPING (1979-2011)	ACRE-FEET PER YEAR
Maximum	19397.25
Minimum	2200.29
Average	9725.6

Table 2. Reported irrigation pumping from the Tulare: Western Spink/Hitchcock aquifer for 1979-2011 (Buhler, 2012a)

Since 1979-2012 was a time period that included new development from the aquifer, the average irrigation pumpage for this time period is likely low. However, the average application rate for this time period can be considered reflective of the irrigation practices in the aquifer.

The time period of 2003-2011 reflects fully developed conditions in the aquifer. Irrigation pumpage for this time period is shown in Table 3. The average application rate for the 2003-2011 time period was 8.71 inches per year. The application rate for 2003-2011 likely is more reflective of the climatic conditions over the relatively short (nine year) period than actual irrigation practices in the aquifer.

REPORTED IRRIGATION PUMPING (2003-2011)	ACRE-FEET PER YEAR
Maximum	19397.25
Minimum	3007.9
Average	12286.8

Table 3. Reported irrigation pumping from the Tulare: Western Spink/Hitchcock aquifer for 2003-2011 (Water Rights, 2004-2012)

Two methods were used to evaluate the availability of unappropriated water with separate hydrologic budgets: 1) comparing estimated average annual recharge to the aquifer with the average annual reported well withdrawals over the time period the aquifer was fully developed; and 2) comparing the number of acres that can be irrigated based on the estimated average annual recharge to the aquifer to the number of acres currently authorized for irrigation by water rights/permits.

Irrigation Questionnaire Method:

The amount of unappropriated water that is available from the Tulare: Western Spink/Hitchcock aquifer was estimated by comparing the estimated average annual recharge rate to the average annual well withdrawal from 2003-2011. Since average annual recharge is estimated to be 18,192 ac-ft/yr and the average annual pumping was reported to be 12,286.8 ac-ft/yr, an average of 5,905 acre-feet of unappropriated water is available from the Tulare: Western Spink/Hitchcock aquifer based on this methodology.

Recharge to Acres Method:

The amount of unappropriated water that is available from the Tulare: Western Spink/Hitchcock aquifer was also estimated by comparing the maximum number of acres that could be irrigated from the aquifer based on the estimated average annual recharge and the average irrigation application rate, to the number of acres that are currently authorized for irrigation. The volume of water associated with the potential additional irrigable acres was converted to acre-feet per year based on the average irrigation application rate.

The maximum average annual irrigation withdrawal based on a recharge of 18,192 acre-feet per year and an application rate of 9.32 inches per year would allow for the irrigation of 23,423 acres. There are currently 23,648.8 acres authorized for irrigation from the aquifer with water rights/permits. Since 2003, the average percentage of authorized acres that have been irrigated annually ranged from a maximum of 85.58% to a minimum of 31.17% with an average of 69.02%. This irrigated to authorized percentage agrees fairly well with the same percentages calculated for Tulare: East James aquifer (i.e. Maximum=88.41%, Minimum=39.49%, Average=65.34%) (Buhler, 2012b), for the fully developed time period for that aquifer (1979-2011). Since on average, only 69.02% of authorized acres are irrigated annually, the number of acres that can be expected to be irrigated under current authorization is 23,648.8 acres *69.02% or 16,322.4 acres. The difference between maximum allowable acres (23,423 acres) and expected irrigation acreage currently authorized (16,322.4 acres) shows that an additional 7,100 acres could be irrigated from the Tulare: Western Spink/Hitchcock aquifer. Assuming an average application rate of 9.32 inches per year applied to 7,100 acres equates to 5,514 ac-ft/yr.

In another format, the “recharge to acres method” compares the average acreage reported irrigated annually from 2003-2011 (15763.6 acres) plus 69.02% of the 810 acres added in 2012 (559.1 acres) with the maximum number that can be irrigated based on the recharge rate (23,423 acres) or 23,423 acres – (15763.6+559.1) = 7,100 acres.

WATER AVAILABILITY SUMMARY:

The DENR-Water Rights Program observation well data indicates that unappropriated water is available from the Tulare: Western Spink/Hitchcock aquifer. Analysis of the observation well data shows that from 2003-2012, recharge to the Tulare: Western Spink/Hitchcock aquifer has exceed discharge from the aquifer by an estimated 3,640 acre-feet per year. A comparison of the average annual pumpage reported from the aquifer from 2003-2011 with the estimated average annual recharge to the aquifer suggests that recharge exceeds pumping by 5,905 acre-feet. Comparing the number of acres that can be irrigated based on the average annual recharge rate suggests that recharge exceeds withdrawals from the aquifer by 5,514 ac-ft/yr.

The difference between the observation well method and budgeting methods for determining the amount of unappropriated water that is available from the aquifer is likely due to a number of factors. Budgeting methods resulted in greater amounts of unappropriated water available from the aquifer however: a) Irrigation questionnaire data is not available for 2012 at this time and it is likely that the 2012 data will increase the averages for the number of acres irrigated, amount of water pumped and the percentage of irrigated to permitted acres. Higher current use averages will reduce the amount of water available based on budgets; b) Budgeting methods are all dependent upon self-reporting by-way of annual irrigation questionnaires. Errors in the reporting

and/or interpretation of the irrigation questionnaires would influence the results; and c) the average annual growing season precipitation in this area for 2003-2011 was 21.19 inches per year, compared to the 20 year average growing season precipitation of 18.35 inches per year (Mathiowetz, 2012). The averages for the number of acres irrigated, amount of water pumped and the percentage of irrigated to permitted acres are likely low due to climatic conditions. Consequently, estimates based on budgets for the amount of water remaining available for appropriation and/or the number of additional acres that can be irrigated are likely too high. The observation well method: a) does reflect 2012 climatic conditions and b) is less influenced by short term trends, for example, the average water level fluctuation for observation wells was +0.315 feet per year for 2003-2012, compared with a +0.261 feet per year average for water years 1983-2012.

For the reasons listed above, and the fact that Administrative Rule of South Dakota Section 74:02:05:07 requires that “the Water Management Board shall rely upon the record of observation well measurements to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated average annual recharge to the aquifer” the amount of unappropriated water available from the Tulare: Western Spink Hitchcock aquifer is estimated to be 3,640 acre-feet per year. Based on the historic average annual irrigation application rate of 9.32 inches per year, on average an additional 4,686 acres can be irrigated from the Tulare: Western Spink/Hitchcock aquifer.

EXISTING WATER RIGHTS:

There have been 310 water permit applications to appropriate water from the Tulare: Western Spink/Hitchcock aquifer. The status of these applications is shown in table 4.

STATUS	NUMBER
CANCELLED	77
DENIED	37
INCORPORATED	46
LICENSED	129
PERMITTED	13
WITHDRAWN	8

Table 4. Status of Water Permit Applications filed from the Tulare: Western Spink/Hitchcock aquifer .

Where the aquifer is under unconfined conditions, drawdown created by pumping is not significant and does not extend very far from the individual production well (see figure 9). Where the aquifer is under confined conditions water level fluctuations are more pronounced (see figure 10). Well interference has never been a problem in this aquifer (Goodman, 2002).

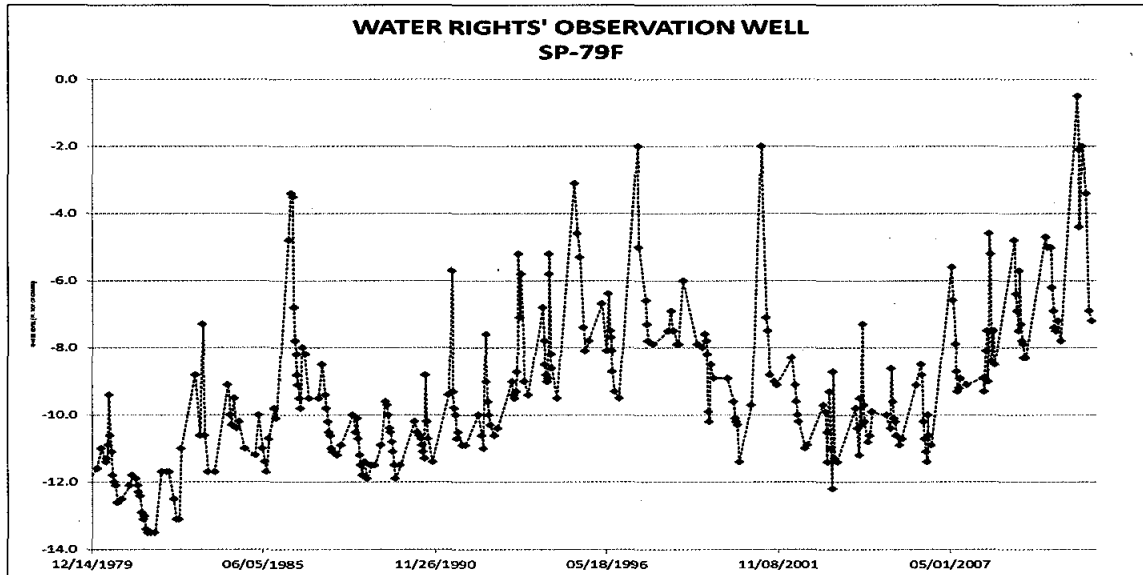


Figure 9. DENR-Water Rights' observation well completed into the unconfined portion of the Tulare:Western Spink/Hitchcock aquifer

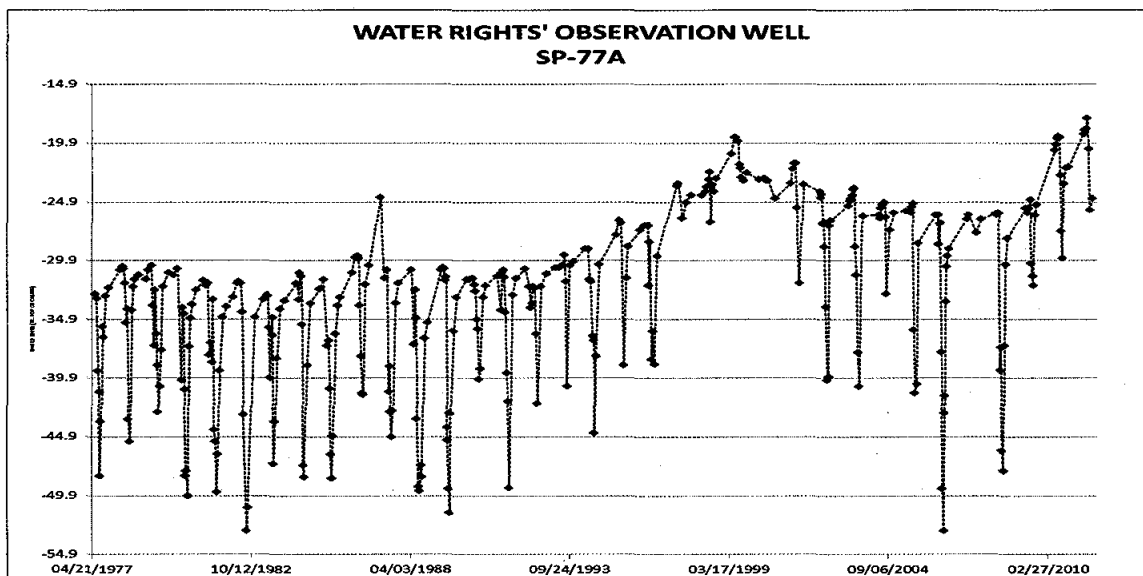


Figure 10. DENR-Water Rights' observation well completed into the confined portion of the Tulare:Western Spink/Hitchcock aquifer

Regardless, these permits, if approved should contain the standard permit qualification for most groundwater permits/rights which states:

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

CONCLUSIONS:

1. The best information currently available indicates the Tulare: Western Spink/Hitchcock aquifer underlies approximately 263,016 acres of Beadle, Spink, and Hand Counties.
2. The best information currently available identifies an average annual recharge rate to the Tulare: Western Spink/Hitchcock aquifer as 0.83 inches per year.
3. The volume of average annual recharge to the Tulare: Western Spink/Hitchcock aquifer based on an area of 263,016 acres and a recharge rate of 0.83 inches per year is approximately 18,192 acre-feet per year.
4. The average annual irrigation application rate for the Tulare: Western Spink/Hitchcock aquifer from 1979-2011 has been 9.32 inches per year.
5. The maximum **average** annual irrigation withdrawal based on a recharge of 18,192 acre-feet per year and an application rate of 9.32 inches per year would allow for the irrigation of 23,423 acres.
6. The best information available to determine the amount of unappropriated water available from the Tulare: Western Spink/Hitchcock aquifer is through analysis of observation well data.
7. The analysis of DENR-Water Rights' observation well data identifies that the over the period of record of 2003- 2011, average annual recharge to the aquifer has exceeded the average annual withdrawals from the aquifer by approximately 3,640 ac-ft/yr acre-feet per year.
8. The observation well data indicates that another 4,686 acres could have been irrigated over the time period of 2003- 2011, at an average application rate of 9.32 inches per year.
9. Since 810 additional acres were authorized in 2012, the actual number of additional acres that can be irrigated from the Tulare: Western Spink/Hitchcock aquifer is 3,877 acres.
10. The permit applications described on pages 1-3 of this report propose to irrigate a total of 2,131 acres.
11. Additional irrigation withdrawals are not expected to impair existing users.



Ken Buhler
SD DENR-Water Rights Program

REFERENCES:

- Buhler, K.A., 2012a, Report on Water Permit Application No. 7289-3, Bixler Farms; Nos. 7290-3 and 7291-3, Lee Gatzke; No. 7293-3, Jeffery Gatzke; and No. 7292-3, Allen Gatzke; April 25, 2012: SD DENR-Water Rights Program
- Buhler, K.A., 2012b, Report to the Chief Engineer on Water Permit Application No. 7295-3, William F. St. Clair; No. 7316-3, Van Buskirk Farms LLP; No. 7348-3, Michael Sentell; No. 7364-3, Wipf Acres LP; No. 7365-3, Huron Colony; No. 7366-3, Huron Colony; No. 7367-3, Huron Colony; No. 7368-3 Huron Colony; No. 7369-3 Huron Colony; and No. 7370-3 Huron Colony; August 23, 2012: SD DENR-Water Rights Program

Circuit Court of South Dakota, Sixth Judicial Circuit, 2005, April 29, 2005 Memorandum Decision
re: HU04-37 Hines v. SD Department of Environment and Natural Resources

Goodman, J.A., 2002, Report on Water Permit Nos 6330-3, 6331-3, 6332-3, 6336-3, 6337-3, 6338-3, 6339-3, 6340-3, 6343-3, 6344-3, 6345-3, 6346-3, 6348-3, 6353-3 for Water From the Tulare Hitchcock Aquifer and Water Permit Nos. 6333-3, 6334-3, 6347-3, 6351-3, 6352-3 for Water From the Tulare Western Spink Aquifer, September 10, 2002: SD DENR-Water Rights Program

Kuiper, L.K. 1984, Appraisal of the Water Resources of The Eastern Part of the Tulare Aquifer, Beadle, hand, and Spink Counties, South Dakota: U.S. Geological Survey Water-Resources Investigations Report 84-4078, 52 p.

Mathiowetz, A.W. 2012. Unpublished data. Pierre, SD.: South Dakota Department of Environment and Natural Resources Water Rights Programs.

“Transmissivity from Specific Capacity.” Aquifer Test Forum sponsored by HydroSOLVE, Inc.
28 January.2013< <http://www.aqtesolv.com/forum/transcap.asp>

Water Rights, 2004-2012, Irrigation Questionnaire Summaries 2003-2011, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2013a, Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2013b, Water Well Completion Reports, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2013c, Water Right/Permit Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

JUN 20 2013

Gary Marshall
Marshall Brothers
19032 388th Ave
Hitchcock SD 57348

Dear Mr. Marshall:

Enclosed are Water Permit Nos. 7570-3 thru 7575-3 and 7637-3 thru 7640-3 authorizing construction of your water diversion systems and beneficial use of the water, not exceeding the limits as specified in the Water Permits.

Form 10's, *Notice of Completion of Works and Application of Water to Beneficial Use*, are enclosed. Please return the completed forms after you have finished the systems and have put the water to beneficial use. An investigation can then be scheduled so the water licenses 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,

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

enclosures

Mail to: PMB 2020
DENR - Water Rights Program
523 E Capitol Ave
Pierre, SD 57501-3182

Water Right/Permit No. 7571-3Date: 2/26/15I/We request that Water Right/Permit No. 7571-3 formerly owned by:Gary Marshall-Marsall Bros. be transferred to:New Owner Name: Terry MarshallAddress: 38735 SD Hwy 28nCity, State, Zip Hitchcock ☒ SD ☒ 57348 Telephone No. ~~605-266-25~~605-350-3100

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

SE 1/4 sec 4 113-64

☒ I understand that the validity of Water Right/Permit No. 7571-3 has not been determined by this transfer action. If I have any questions on validity, I understand that only the Water Management Board has the authority to determine if a water right/permit is valid (see note below.)

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

A fee of Fifty Dollars (\$50.00) is included to cover the filing fee as required by SDCL 46-2-13.

I, Terry Marshall, the new owner, certify that the above information is true and correct.

Terry Marshall
(signed by new owner)

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

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

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 4/28, 20 15

RECEIVED OF Farm Credit Services (Gary Marshall) 2065 Campbell Br Huron SD 57350

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form <u>7571-3</u>		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____	50	00
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	

No. 07361

By

James Lockman
Chief Engineer



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

April 28, 2015

7571-3

Terry Marshall
38735 SD Hwy 28N
Hitchcock SD 57348

Dear Mr. Marshall:

I am writing to acknowledge receipt of the transfer form and filing fee submitted for changing ownership on Water Permit No. 7571-3. The permit authorizes irrigation of the SE ¼ Section 4, T113N, R64W.

The ownership change has been completed. Water Permit No. 7571-3 formerly held by Gary Marshall, Marshall Brothers is now listed in your name.

The filing fee of \$50 was paid by Farm Credit Services in Huron. Receipt No. 07361 is being forwarded to them under separate cover with a copy of this letter.

If you have any questions, please give us a call.

Sincerely,

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

c: Farm Credit Services w/Receipt No. 07361

**SOUTH DAKOTA
WATER PERMIT NO. 7571A-3**

Date of first receipt of application April 17, 2015.

Date of return to applicant for corrections, amendments or changes April 20, 2015.

Date of receipt of corrected application April 27, 2015.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7571A-3 to Terry Marshall, 38735 SD Hwy 28, Hitchcock SD 57348 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. 7571A-3 amends Water Permit No. 7571-3 by transferring the irrigated acreage and point of diversion to other land. Water Permit No. 7571-3 appropriates 1.78 cubic feet of water per second from two wells located near the center of the SE 1/4 Section 4 for irrigation of 160 acres located in the SE 1/4 Section 4; all in T113N-R64W. This permit authorizes moving the system one mile east to irrigate 160 acres located in the SE 1/4 Section 3 and utilizing the existing well authorized by Permit No. 7717-3 located in the SE 1/4 NE 1/4 Section 10; all in T113N-R64W. The water source for this irrigation system is the Tulare:Western Spink/Hitchcock Aquifer and no increase in the diversion rate or number of acres irrigated is authorized by this permit.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – September 30.
3. The date from which applicant may claim right is December 14, 2012.
4. The date of approval of Permit No. 7571A-3 is July 6, 2015.
5. One-fifth of the construction is to be completed on or before November 2, 2015.
6. All construction is to be completed on or before May 2, 2018.
7. Water is to be put to beneficial use on or before May 2, 2022.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under Permit Nos. 7571A-3 and 7717-3 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. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.
3. Water Permit No. 7571A-3 incorporates Water Permit No. 7571-3.

WATER MANAGEMENT BOARD

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

AUG 04 2015
date

