

WATER PERMIT NO. 6336-3

Name of Applicant: Lee Gatzke

Address: 18479 389th Ave, Tulare SD 57476

Phone: 605 266-2790

Amount of Water Claimed: 2.28 cfs

Total Acres: 160

Source of Water Supply: groundwater

Water to be used for: irrigation

County: Spink

Type of Waste Disposal System:

Location: 4 miles east of Tulare

PRIORITY

Date Received: 6-21-2002

Application/License Fee: \$300

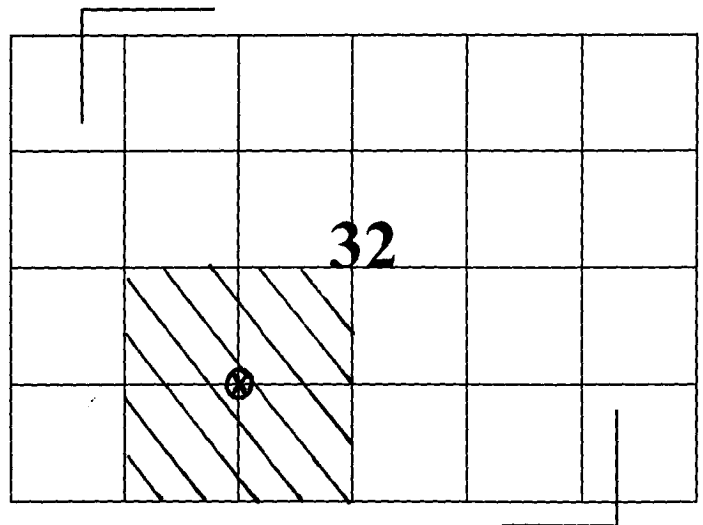
Corrected Application Received: 6-25-2002

Period of Annual Use: April 1 – October 31

Remarks:

Diversion Point: center SW ¼ Section 32-T115N-R63W

Land to be Irrigated: SW ¼ Sec 32-T115N-R63W



Depth of Well: 50

Well Driller: :

Remarks:

Type of Map: aerial

Prepared by: Eric Gronlund

Reviewed and the Number Assigned on: 6-27-2002

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

**REISSUED
SOUTH DAKOTA
WATER PERMIT NO. 6336-3 FOR IRRIGATION**

Water Permit No. 6336-3, for Lee Gatzke, 18479 389th Ave, Tulare SD 57576-7700, was issued by the Chief Engineer on behalf of the Water Management Board 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. 6336-3 appropriates 2.28 cubic feet of water per second (cfs) from one well (Tulare:Hitchcock Aquifer) approximately 50 feet deep located in the center of the SW ¼ Section 32 to irrigate 160 acres located in the SW ¼ Section 32; all in T115N-R63W.

On January 22, 2007, the Chief Engineer on behalf of the Water Management Board approved Water Permit No. 6764-3. Water Permit No. 6336-3 is being reissued to reflect the changes authorized by Water Permit No. 6764-3.

Water Permit No. 6764-3 authorizes severing 0.343 cfs and 24 acres located in the corners of the SW ¼ Section 32-T115N-R63W not developed using standard 136 acre center pivots and simultaneously transferring these amounts to other land.

Reissued Water Permit No. 6336-3 appropriates 1.937 cfs from one well (Tulare:Hitchcock Aquifer) approximately 50 feet deep located in the center of the SW ¼ Section 32 to irrigate 136 acres located in the SW ¼ Section 32; all in T115N-R63W.

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 June 21, 2002.
4. One-fifth of the construction is to be completed on or before June 4, 2005.
5. All construction is to be completed on or before December 4, 2007.
6. Water is to be put to beneficial use on or before December 4, 2011.
7. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

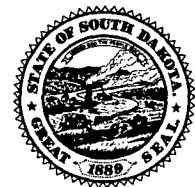
1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6336-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

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

MAY 10 2007

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

MAY 10 2007

6336-3
6337-3
6764-3

Lee Gatzke
18479 389th Ave
Tulare SD 57476

Dear Mr. Gatzke:

Enclosed is Water Permit No. 6764-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit. Also, enclosed are reissued Water Permit Nos. 6336-3 and 6337-3. These permits are being reissued to reflect the changes authorized by Water Permit No. 6764-3.

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

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

Sincerely,

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

c: Brian Gatzke

enclosures

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	(office use only)	
	No. <u>6336-3</u>	Hydrologic Unit <u>10160006</u>
	Basin <u>James River</u>	
	Newspaper <u>Redfield Press, Redfield</u>	

RECEIVED
JUN 21 2002
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

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

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

- Name of Applicant Lee Gatzke Phone 266-2790
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 18479 - 389th Ave Tulare State SD 57476-7700
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 2.28 *CFS or 1025 **GPM ***AF Total Acreage 160
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply Ground water
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) Approximate Center
of the SW1/4 section 32, T115N, R63W
Spink County
- County or counties where water will be used Spink
- Annual period during which water is to be used April 1 to October 31
- 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
<u>NE 1/4 SW 1/4 Sec 32 T115N, R63W</u>	<u>40</u>		
<u>NW 1/4 SW 1/4 Sec 32 T115N, R63W</u>	<u>40</u>		
<u>SE 1/4 SW 1/4 Sec 32 T115N, R63W</u>	<u>40</u>		
<u>SW 1/4 SW 1/4 Sec 32 T115N, R63W</u>	<u>40</u>		

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

Put up Center Pivot to Irrigate quarter.

STATE OF SOUTH DAKOTA) SS
County of Beadle

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

I, Lee Gatzke, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature [Signature]

Subscribed and sworn to before me this 19 day of June 20 02

[Signature]
Notary Public signature

Commission Expires Dec. 4, 2003

SOUTH DAKOTA
WATER PERMIT NO. 6336-3 FOR IRRIGATION

Date of first receipt of application June 21, 2002.

Date of return to applicant for corrections, amendments or changes June 21, 2002.

Date of receipt of corrected application June 25, 2002.

The Water Management Board approved Water Permit No. 6336-3 on December 4, 2002 for Lee Gatzke, 18479 389th Avenue, Tulare SD 57476-7700 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. 6336-3 appropriates 2.28 cubic feet of water per second from one well (Tulare:Hitchcock Aquifer) approximately 50 feet deep located in the center of the SW ¼ Section 32 to irrigate 160 acres located in the SW ¼ Section 32; all in T115N-R63W.
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 June 21, 2002.
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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 well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6336-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

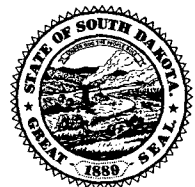
WATER MANAGEMENT BOARD

By: Garland Erbele

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

MAR 19 2003

date



(Complete applicable portions only)

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 24 in Depth 50 Ft
- b) Casing Type Plastic Diameter 16 in Thickness _____
- c) Screen Type Manufactured (pu) Diameter 16 in Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 18 Ft
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property 1 mile On property owned by others unknown

2. Wastewater Disposal System Information

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

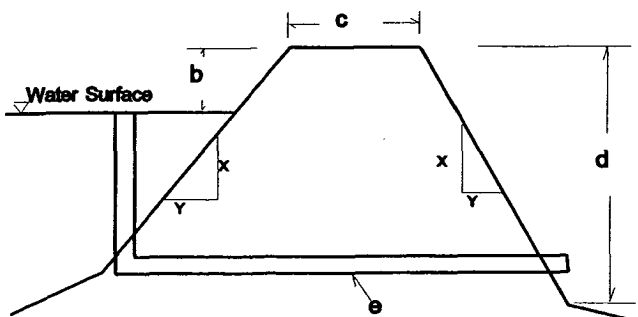
3. Dugout Information

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

4. Water Storage Dams

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

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



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

MAN DRILLING, INC. - DRILLER'S LOG

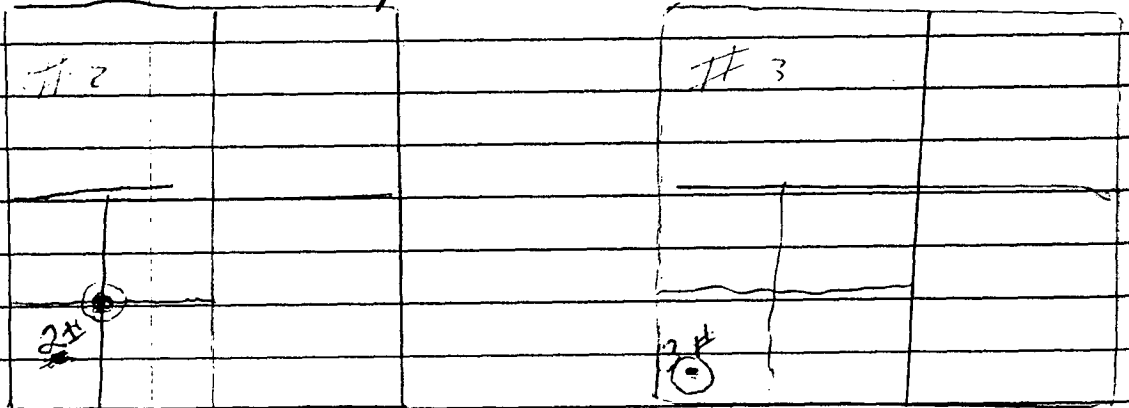
(605) 883-4532
1-800-451-4884

GatzKE

JOB NAME	LOCATION	DATE	RIG NO	FOREMAN
	Hitchcock	11-8-02		Paul Har

DEPTH	TIME	REMARKS
		# 2
20		0-15 Yellow clay 15-20 Yellow sand
40		20-25 Fine yellow sand 25-35 Fine gray sand 35-40 Med. sand
60		40-50 Med. gray sand w/coal 50-58 Med. to coarse sand w/coal
		58-60 Blue clay
		3" well
		T.D. 60'
		20' 025 slotted
		40' 3" blank

		# 3
20		0-15 Yellow clay 15-20 Yellow sand w/rock
40		20-30 Yellow sand 30-40 Fine to med. gray sand
60		40-45 Fine to med. sand w/coal 45-50 Med. sand 50-60 gray sand w/coal
80		60-80 Fine sand w/coal
100		80-100 Blue clay w/ little sand streaks



Sec 30-115-63

APP NO 1-336-3 NO 2 Test Hole

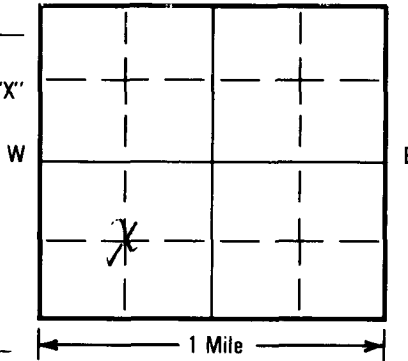
APP NO 1-336-3 NO 2 Test Hole

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location Sw 1/4 Sw 1/4 Sec 32 Twp 115 Rg 63
 County Spink

Please mark well location with an "X"



Well Completion Date

11/9/02

LOCATION:

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

PROPOSED USE:

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

METHOD OF DRILLING:

reverse

CASING DATA:

- ☐ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
_____ LB/FT	<u>16</u> IN	<u>0</u> FT	<u>42</u> FT	<u>25</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
_____	_____	_____ lb./gal	_____ ft.	_____ ft.
_____	_____	_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure _____

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 16 IN Length 15 FEET

Material stainless

Slot Size _____ Set From 42 Feet to 57 Feet

Other information _____

Drivel Backed

WAS A PACKER OR SEAL USED? ☐ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: pellets

_____ NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: Lee Gatzke

Business Name: _____

Address: 18479 389 av.
ulture SD.

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>yellow clay</u>	<u>0</u>	<u>15</u>
<u>yellow sand</u>	<u>15</u>	<u>25</u>
<u>fine sand</u>	<u>25</u>	<u>35</u>
<u>med sand</u>	<u>35</u>	<u>50</u>
<u>Course sand</u>	<u>50</u>	<u>58</u>

STATIC WATER LEVEL

14

Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped

Describe: _____

☐ Bailed

☐ Other

Pumping Level Below Land Surface

40-6 ft. After 7 Hrs. pumped 650 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

This well was drilled under license # 440

And this report is true and accurate.

Drilling firm Cullman Well Drilling

Signature of License Representative: R. E. Kuchel

Signature of Well Owner or Equitable Property Holder: _____

RECEIVED

JAN 06 2003

WATER RIGHTS PROGRAM

Date: _____

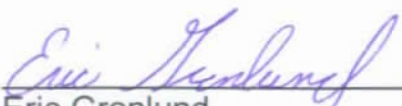
1-6-03

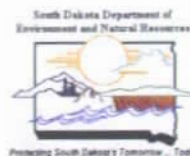
Lee Gatzke Water Right Permit Application



Planned Irrigation of the SW 1/4 Section 32, T115N, R63W




Eric Gronlund
Water Rights Program



6336-3

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

417194

Pierre, June 21, 20 02

RECEIVED OF Lee or Ulla Gatzke, 18479 389th Ave., Tulare, SD 57476-7700
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>6336-3</u> to Appropriate Water, to construct and to put water to beneficial use _____	250	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 _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	250 00

By

Darland Erbele
Chief Engineer

gm

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

NO 417204

Pierre, 6 JUNE 25, 2002

RECEIVED OF Lee Gatzke, 18479 389th Ave., Tulare, SD 57476-7700

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 _____

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. 6336-3

Fee for Filing Transfer Form _____

Fee for Filing Extension Request _____

Fee for _____

(Any Other Work Provided by Law)

Total

50 00

50 00

By

Darland Erbe
Chief Engineer

gmv



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

June 21, 2002

Lee Gatzke
18479 389th Ave
Tulare SD 57476-7700

Dear Mr. Gatzke:

Thank you for submitting the two *Applications for a Permit to Appropriate Water* for irrigation. Below is a breakdown of the additional application/license filing fees required.

160 acres – SW ¼ Sec 32-T115N-R63W	\$300 total fee
	- <u>250</u> check
	\$ 50

320 acres – E ½ Sec 35-TT114N-R63W	\$375 total fee
	- <u>350</u> check
	\$ 25

An additional \$75 is required. One check can be submitted for the total amount. Upon receipt of the additional fees, further processing of your applications will continue.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352

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

These applications are all for irrigation and propose to appropriate a total of 62.87 cfs for irrigation of 4,604.4 acres located in Beadle and Spink County. Specifically, these applications request 45.85 cfs for irrigation of 3,397 acres from the Tulare Hitchcock aquifer and 17.02 cfs for irrigation of 1,207.4 acres from the Tulare Western Spink aquifer.

AQUIFER – TULARE WESTERN SPINK (T-WS), TULARE HITCHCOCK (T-H)

The Tulare Western Spink is a mostly buried outwash (sand and gravel) which is under predominantly confined or artesian conditions. The Tulare Hitchcock is a predominantly surficial outwash (sand and gravel) which is under water table conditions. The Tulare Western Spink is hydraulically connected to the Tulare Hitchcock and ground water movement is from southwest to northeast and towards the James River (Hamilton, 1996). For practical purposes the two management units are the same aquifer system. The Hamilton report refers to the Tulare aquifer in general terms whereas the terms Tulare Hitchcock and Tulare Western Spink are management units of the Tulare aquifer as defined in an earlier report (Hedges, 1982). The boundary line between the two management units roughly follows a line from the town of Hitchcock to the town of Tulare. Everything east of that imaginary line is Tulare Hitchcock and everything west of the line is Tulare Western Spink. The Water Rights Program has continued to use the management units as described in the Hedges report for water use and water allocation purposes. However, because of the similarities between the aquifer management units and because of continuing irrigation development from both management units, the management units need to be combined to fully utilize the development potential of the aquifer. This report will consider the Tulare Western Spink and the Tulare Hitchcock management units as the same aquifer.

The Tulare Hitchcock underlies 96,000 acres and contains an estimated 360,000 acre-feet of recoverable water in Spink County and underlies 53,800 acres and contains an estimated 333,000 acre-feet of recoverable water in storage in Beadle County (Hedges, 1982). This totals to 149,800 acres and 693,000 acre-feet of recoverable water in storage for the entire aquifer. Recharge to the aquifer has been estimated to approximate 0.83 inches per year (Kuiper, 1984). This equates to an average recharge of 6,640 acre-feet per year for Spink County and 3,720 acre-feet per year for Beadle County. The total annual recharge for the Tulare Hitchcock is approximately 10,360 acre-feet.

The Tulare Western Spink aquifer underlies 57,000 acres and contains an estimated 162,000 acre-feet of recoverable water in storage in Beadle County, underlies 72,300 acres and contains an estimated 270,930 acre-feet of recoverable water in storage in

Spink County and underlies 9,600 acres and contains an estimated 86,400 acre-feet of recoverable water in storage in Hand County (Hedges, 1982). This totals to 138,900 acres and 519,330 acre-feet of recoverable water in storage for the entire Tulare Western Spink. Recharge to the aquifer has been estimated to approximate 0.83 inches per year (Kuiper, 1984). This equates to an average recharge of 3,940 acre-feet per year for Beadle County, 5,000 acre-feet per year for Spink County and 664 acre-feet per year for Hand County. The total annual recharge for the Tulare Western Spink management unit is approximately 9,600 acre-feet.

The combined aquifer statistics for the Tulare Western Spink and Tulare Hitchcock management units would include, 288,700 acres underlain by aquifer, 1.212 million acre-feet of recoverable water in storage, and 19,960 acre-feet of annual recharge to the entire aquifer system.

Water use from the Tulare Hitchcock aquifer in Beadle County has exceeded the estimated average annual recharge (3,720 acre-feet) to the aquifer five times in the last 23 years. Water use from the Tulare Hitchcock aquifer in Spink County has never exceeded the estimated average annual recharge (6,640 acre-feet) to the aquifer and has peaked at 4,813.5 acre-feet as reported in 2001. However, there are twelve recently approved water permits located in Spink and Beadle County that have either not reported irrigation or have not fully developed yet. If these permits develop completely and use water at a rate comparable to the existing users, then the water use from the Tulare Hitchcock would increase by about 1,600 acre-feet. This calculated volume added to the reported use of 4,813.5 acre-feet in 2001 would approach the average annual recharge estimate for Spink County. In all likelihood, pumping the Tulare Hitchcock management unit in Spink County would probably exceed average annual recharge during a drought.

The combined water use for Spink and Beadle Counties for the Tulare Hitchcock has never exceeded the combined estimated recharge (10,360 acre-feet) but a peak volume of 9,874 acre-feet was pumped in 1989. Adding in the estimated pumping volumes of 1,600 acre-feet (the newer permits) would mean that pumping from the Tulare Hitchcock would have exceeded the annual recharge estimate three times since 1979. Combining pumping volumes from the two counties in this manner indicates that the aquifer is probably fully appropriated based upon actual plus estimated potential water use.

Water use for the Tulare Western Spink peaked at just over 5,100 acre-feet in 1989. With a total recharge to the aquifer of about 9,600 acre-feet annually, there is water available for appropriation from this aquifer. There are no newer water permits from the Tulare Western Spink to account for. The only other major user of water from this aquifer is the small rural water system, Water Right No. 4774-3 that uses 70 to 80 acre-feet of water per year (personal communication with Scott Gross, operator of the rural water system on September 9, 2002). Also, this system will apparently begin using water from Mid Dakota RWS when that water is available in the next year or two and abandon the Tulare Western Spink as a water source.

Combining the two management units and considering them as a unit indicates a total recharge of 19,960 acre-feet annually. Also, a maximum water use of 14,981 acre-feet occurred in 1989. These estimates leave about 5,000 acre-feet available for appropriation from the entire combined aquifer minus 1,600 acre-feet to account for development of permits issued but not yet utilized. This would leave approximately 3,400 acre-feet of water use to be developed from the combined aquifer.

The Water Rights Program monitors 24 observation wells completed into the Tulare Hitchcock in Spink and Beadle Counties and 26 observation wells completed into the Tulare Western Spink in Beadle, Spink and Hand counties. Water levels for these wells indicate fluctuation due to climatic conditions, that recharge does occur and that the effects of pumping are generally not significant. Hydrographs for observation wells (SP-53A, SP-53B, BD-77A and BD-66A) are included with this report. These records are representative of the general water level trends for both management units. The historical water level record is excellent and accurately reflects the conditions of the aquifer in this area for the last 50 years.

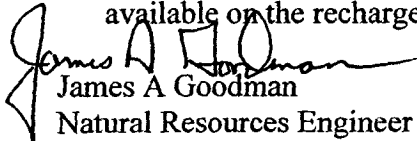
REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are 77 existing water permits/rights that obtain water from the Tulare Hitchcock in Spink and Beadle Counties. These permits/rights appropriate 156.07 cfs and potentially irrigate 12,990 acres in Spink and Beadle Counties. There are 50 water permits/rights that obtain water from the Tulare Western Spink aquifer in Hand, Beadle and Spink Counties. These permits/rights appropriate 91.604 cfs and potentially irrigate 7,691.9 acres in these three counties. Interference has never been a problem for either aquifer. The Tulare Hitchcock is under water table conditions and drawdown created by pumping does not extend very far from individual production well. This is shown by the hydrographs for SP-53A, SP-77A and BD-66A. The Tulare Western Spink is a confined aquifer and fluctuation due to pumping does occur. The drawdown has not been significant and has not created adverse impacts. This is shown by the hydrograph for SP-53B and by water level records for the other observation wells in the area (Water Rights, 2002).

SDCL 46-6-3.1 states 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. An application may be approved, however, for withdrawals of groundwater from any groundwater formation older than or stratigraphically lower than the Greenhorn formation in excess of the average estimated annual recharge for use by water distribution systems." Clearly the intent of this statute is to limit development of aquifers to a volume of water which approximates average annual recharge. The only exception to the statute would be for water distribution systems that obtain water from formations older than or stratigraphically lower than the Greenhorn Formation. All the applications in this report fail both of tests of the exception to the statute.

CONCLUSIONS

1. Water is available from the combined Tulare Western Spink and Tulare Hitchcock management units.
2. Based upon water use plus estimates for undeveloped permits there is approximately 3,400 acre-feet of water available for appropriation from the combined Tulare Hitchcock and Tulare Western Spink management units. Conservatively this volume would allow about 2,500 acres of additional irrigation.
3. The wells authorized by these applications, if approved, must be constructed in accordance with SD Well Construction Standards.
4. Interference is not expected to be a concern. The observation well data clearly shows that drawdown created by existing withdrawals does not seriously impact water levels over most of the aquifer especially the Tulare Hitchcock management unit.
5. Application Nos. 6330-3, 6331-3, 6332-3, 6333-3, 6334-3, 6336-3, 6337-3, 6338-3, 6339-3, 6340-3 and 6343-3 all obtain water from the Tulare Hitchcock or Tulare Western Spink management units and can be approved. These permits total about 2,554 acres of additional irrigation. The estimated water use for these permit applications should be about 3,400 acre-feet.
6. The Tulare Hitchcock and Tulare Western Spink management units of the Tulare aquifer should be declared fully appropriated and no additional permits from the aquifer will be considered until abandonment and/or forfeiture of existing rights non-development of a recently approved water permit, or additional information becomes available on the recharge rate to the aquifer.


James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

- Hamilton, L.J., L.W. Howells, 1996, Water Resources of Spink County, South Dakota, Water Resources Investigations Report No. 96-4056, USGS, Rapid City, SD, 57702.
- Hedges, L.S., 1982, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SDGS, Vermillion, SD, 57069.
- Kuiper, L.K., 1984, Appraisal of the Water Resources of the Eastern Part of the Tulare Aquifer, Beadle, Hand, and Spink Counties, South Dakota, WRI 84-4078, USGS, Huron, SD, 57350.
- Water Rights, 2002, Unpublished Observation Well Records for Beadle, Spink and Hand Counties, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

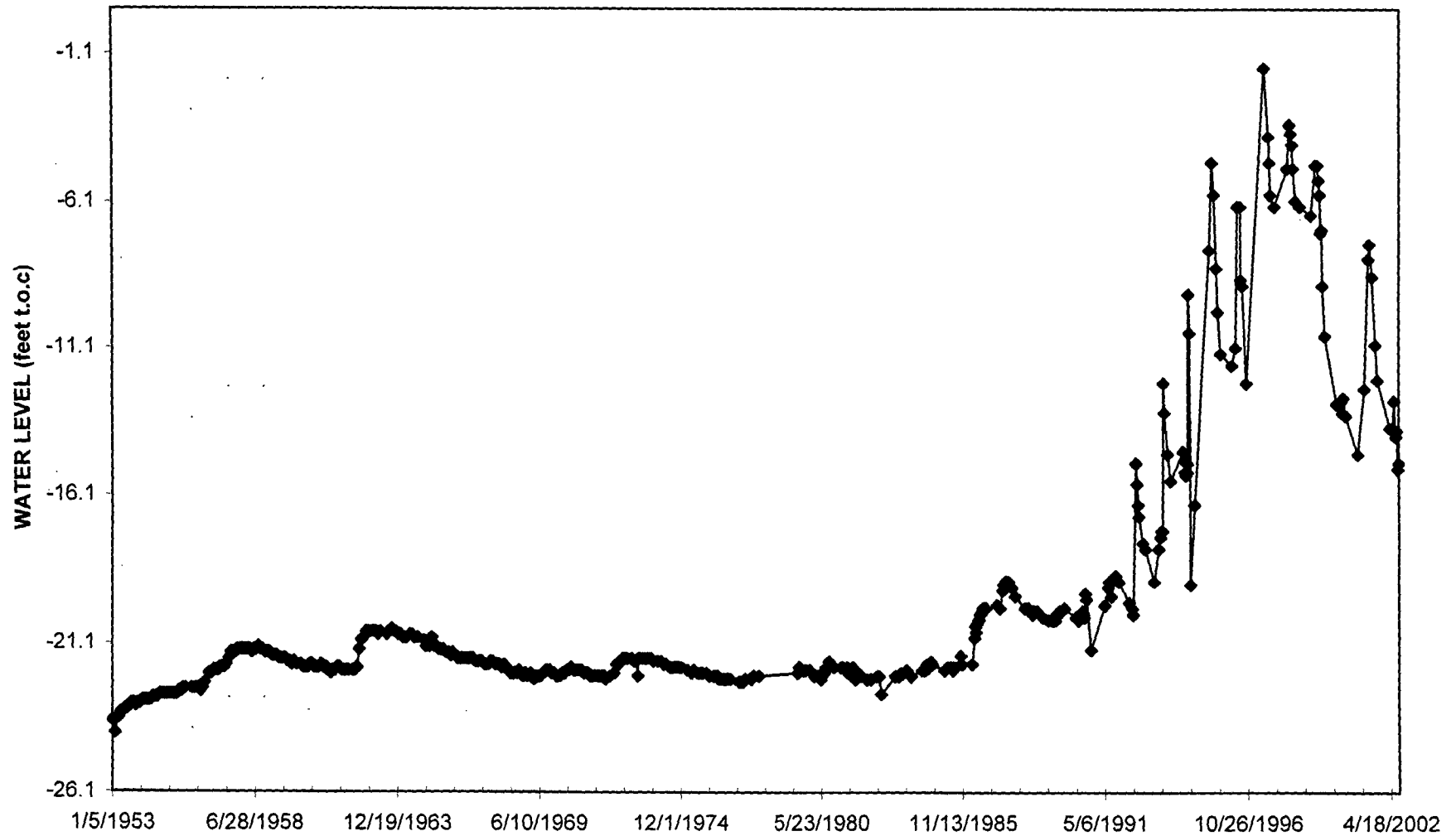
WATER USE (ACRE-FEET)
TULARE-WESTERN SPINK AQUIFER

	SPINK	BEADLE	HAND	TOTAL
2001	3,589 AF	336 AF	62 AF	3,986 AF
2000	3,693 AF	172 AF	218 AF	4,083 AF
1999	2,250 AF	78 AF	0 AF	2,328 AF
1998	1,284 AF	0 AF	0 AF	1,284AF
1997	475 AF	16 AF	0 AF	491 AF
1996	3,108 AF	310 AF	99 AF	3,517 AF
1995	1,672 AF	184 AF	0 AF	1,856 AF
1994	2,096 AF	96 AF	113 AF	2,305 AF
1993	644 AF	252 AF	0 AF	896 AF
1992	973 AF	122 AF	53 AF	1,148 AF
1991	3,819 AF	544 AF	147 AF	4,510 AF
1990	3,915 AF	502 AF	145 AF	4,562 AF
1989	4,456 AF	554 AF	97 AF	5,106 AF
1988	3,779 AF	633 AF	111 AF	4,523 AF
1987	2,399 AF	350 AF	41 AF	2,789 AF
1986	349 AF	82 AF	0 AF	431 AF
1985	2,689 AF	89 AF	191 AF	2,969 AF
1984	3,138 AF	241 AF	83 AF	3,462 AF
1983	2,447 AF	187 AF	90 AF	2,724 AF
1982	2,411 AF	65 AF	166 AF	2,641 AF
1981	3,790 AF	922 AF	32 AF	4,744 AF
1980	3,197 AF	130 AF	0 AF	3,327 AF
1979	2,432 AF	342 AF	0 AF	2,774 AF

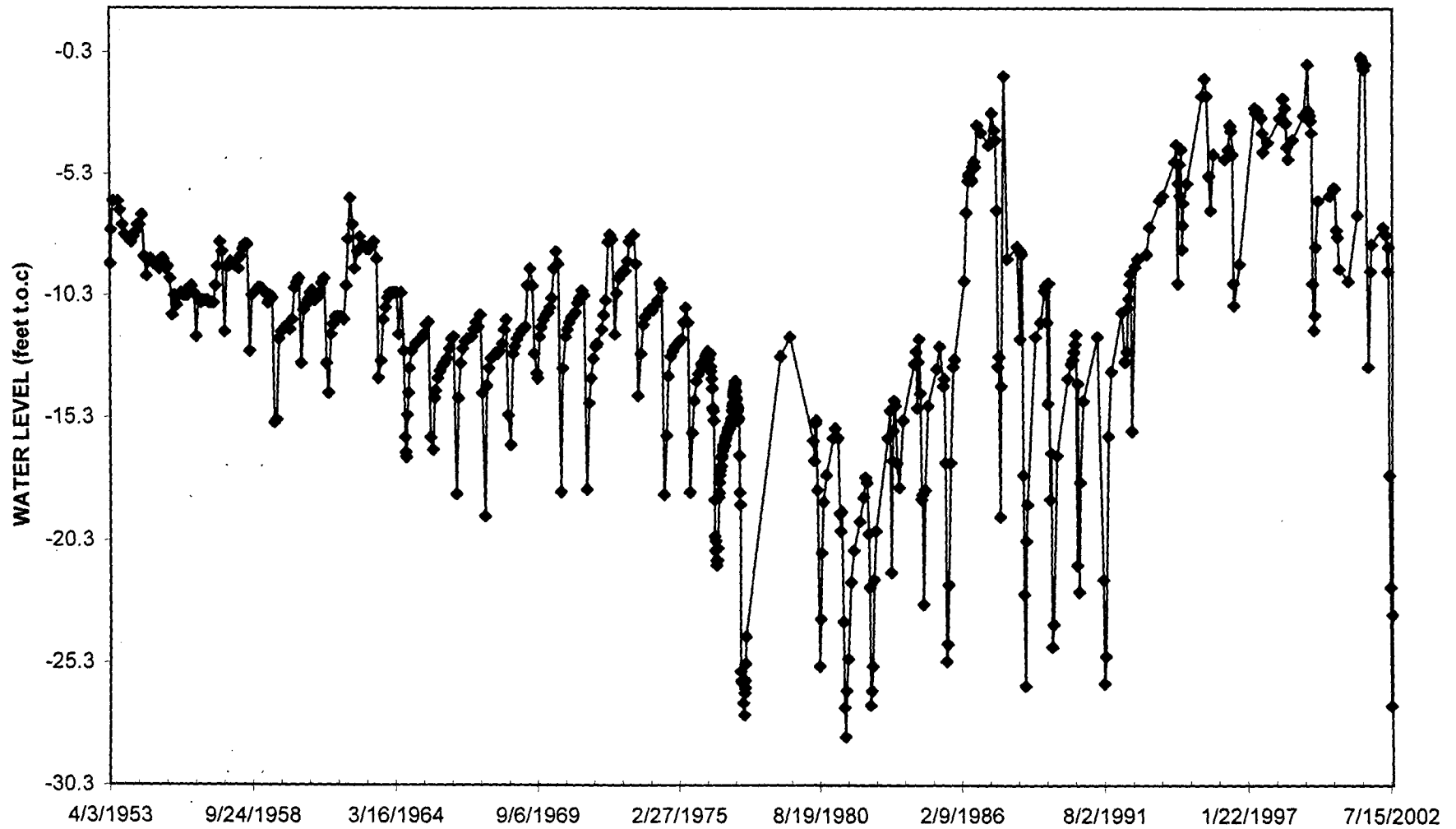
**WATER USE (ACRE-FEET)
TULARE-HITCHCOCK AQUIFER**

	SPINK	BEADLE	TOTAL
2001	4,814 AF	3,503 AF	8,316 AF
2000	4,081 AF	3,528 AF	7,610 AF
1999	3,229 AF	3,077 AF	6,306 AF
1998	1,536 AF	3,360 AF	4,896 AF
1997	1,169 AF	1,405 AF	2,574 AF
1996	4,350 AF	4,729 AF	9,079 AF
1995	2,956 AF	1,755 AF	4,711 AF
1994	2,266 AF	1,279 AF	3,545 AF
1993	1,122 AF	237 AF	1,359 AF
1992	1,939 AF	2,303 AF	4,242 AF
1991	4,307 AF	3,586 AF	7,894 AF
1990	3,020 AF	4,219 AF	7,239 AF
1989	3,736 AF	6,139 AF	9,875 AF
1988	3,596 AF	5,233 AF	8,829 AF
1987	3,333 AF	3,402 AF	6,735 AF
1986	1,622 AF	1,475 AF	3,097 AF
1985	2,356 AF	2,293 AF	4,649 AF
1984	2,193 AF	2,601 AF	4,794 AF
1983	1,442 AF	4,891 AF	6,333 AF
1982	1,624 AF	1,851 AF	3,475 AF
1981	2,872 AF	2,639 AF	5,511 AF
1980	1,607 AF	1,743 AF	3,349 AF
1979	1,192 AF	1,299 AF	2,491 AF

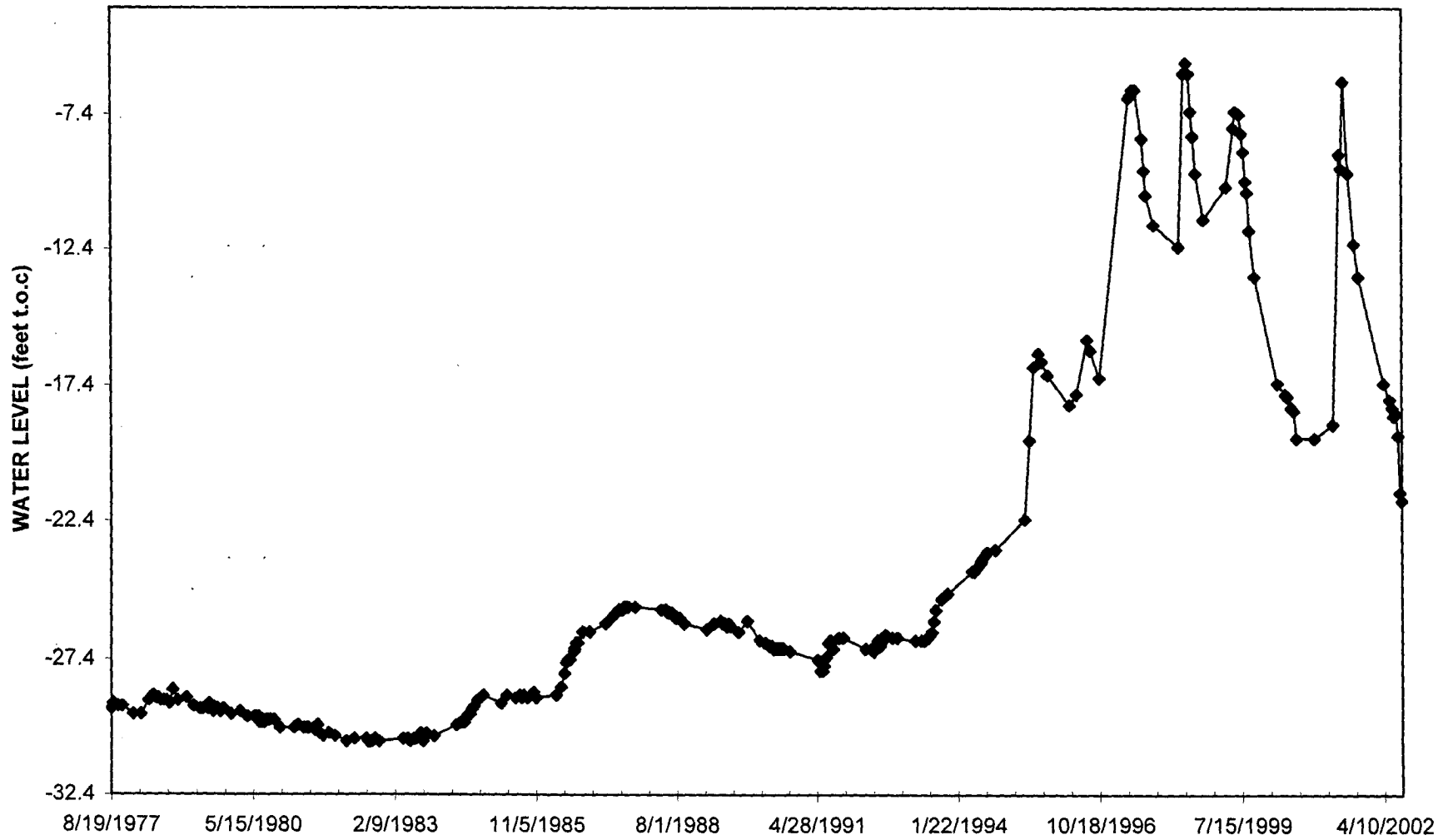
WATER RIGHTS' OBSERVATION WELL
SP-53A



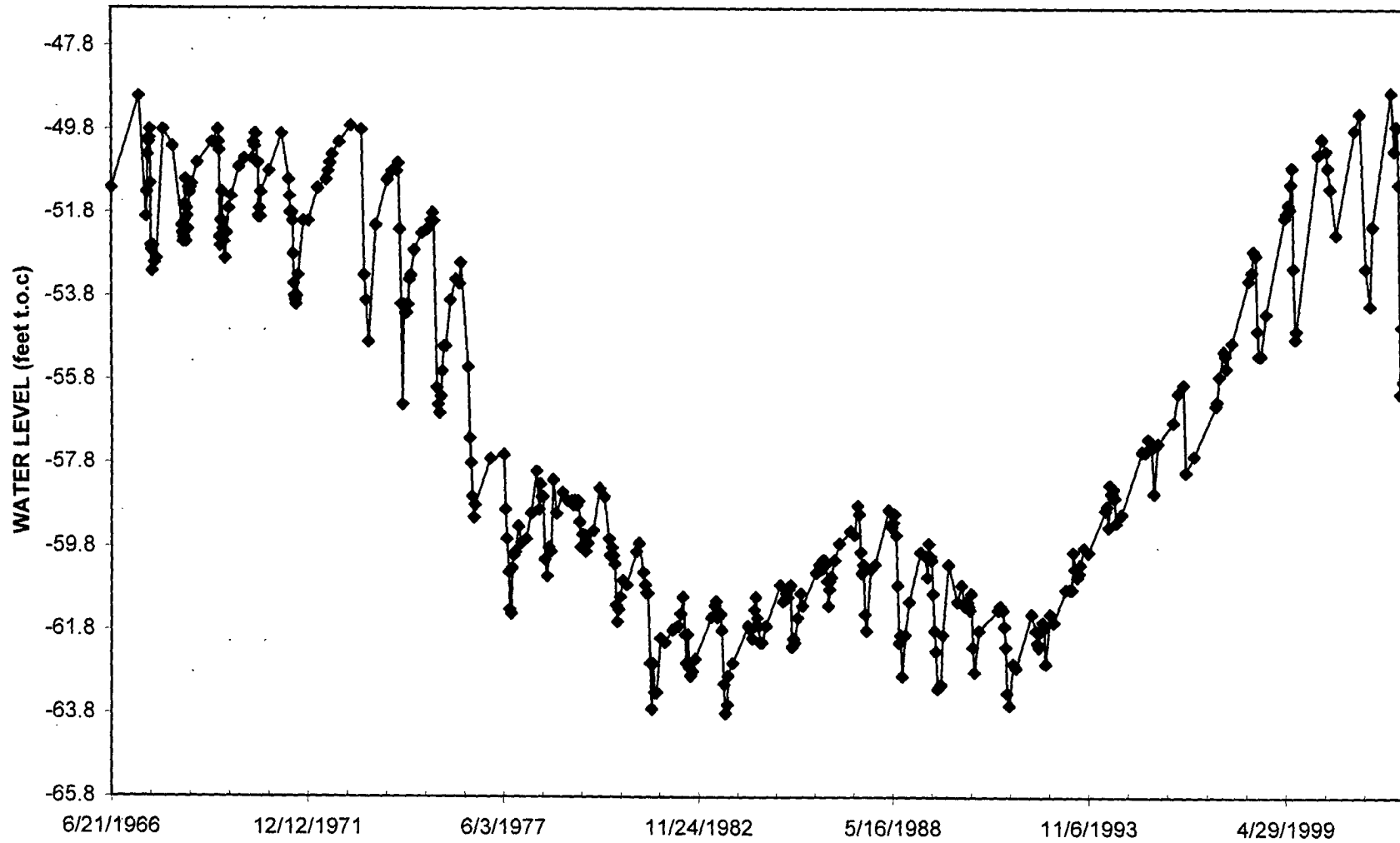
**WATER RIGHTS' OBSERVATION WELL
SP-53B**



WATER RIGHTS' OBSERVATION WELL
BD-77A



WATER RIGHTS' OBSERVATION WELL
BD-66A





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6336-3, Lee Gatzke**

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. 6336-3, Lee Gatzke, 18479 389th Avenue, Tulare SD 57476.

The Chief Engineer is recommending APPROVAL of Application No. 6336-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6336-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

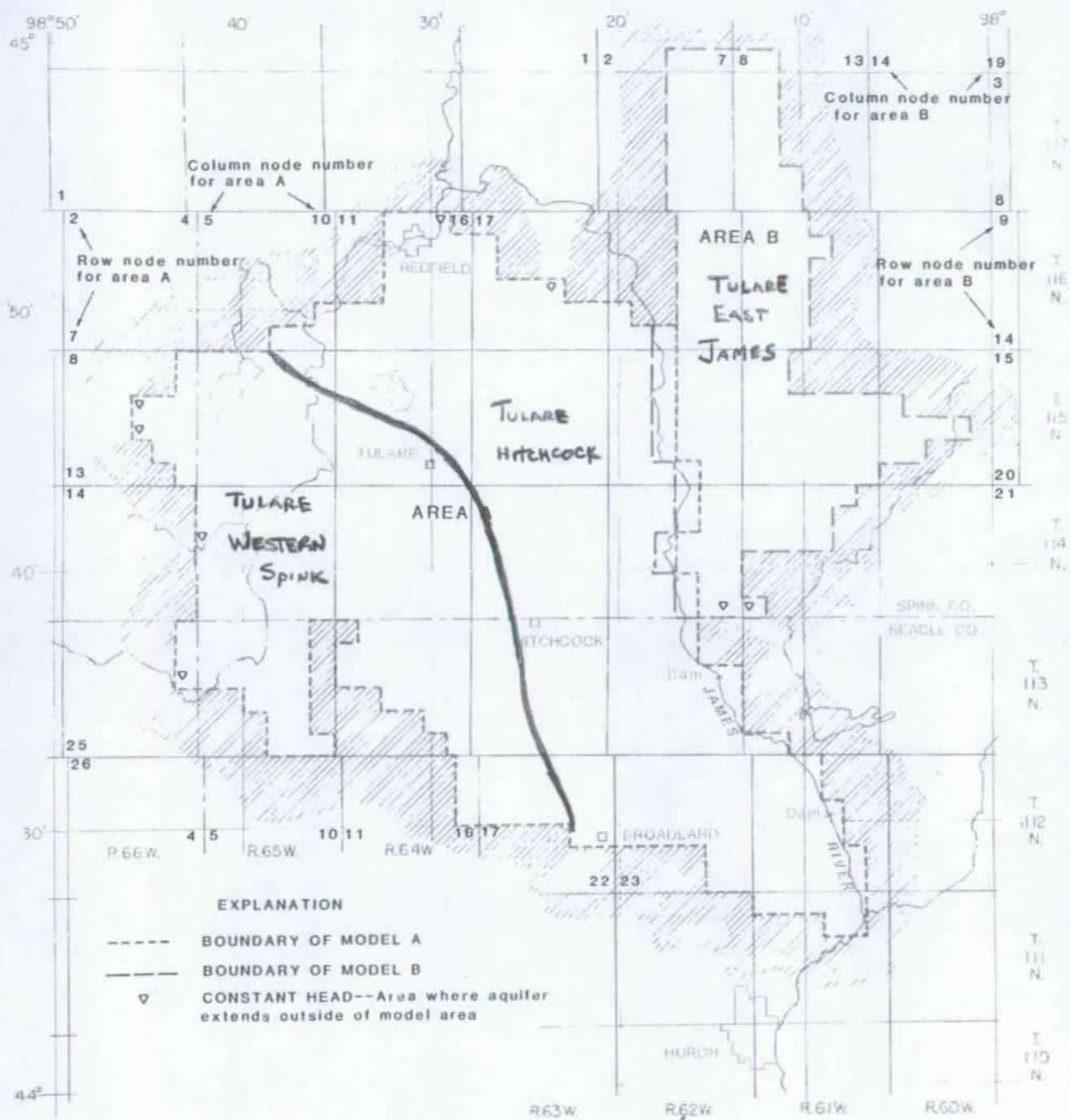
See report on application for additional information.

Garland Erbele, Chief Engineer
October 30, 2002

NOTE: The Water Rights Program received twenty two applications to appropriate water from the Tulare:Hitchcock and Tulare:Western Spink Aquifer. The Chief Engineer's recommendation is to approve eleven of these applications based upon priority. The Chief Engineer is recommending denial of eleven applications because the aquifer is fully appropriated. Please review the staff report carefully.

If the Board accepts the recommendation at their December 4th hearing, the aquifer will be considered fully appropriated. In that event, the Water Rights Program will recommend denial of new appropriations from this aquifer unless water becomes available by 1) abandonment and/or forfeiture of existing water rights, 2) non-development of a recently approved water permit, or 3) additional information becomes available on the recharge rate to the aquifer.

Applicants that obtain a water permit need to be aware that the works must be completed within 5 years of obtaining the permit and water put to beneficial use within an additional four years. Also, in accordance with state law, if one-fifth of work is not completed within 2½ years of obtaining the permit, the Board may accept and approve a new application for the use of all or any of the water included in the original permit and the right to use water under the original permit shall be forfeited.



(Kuiper, 1984)

Figure 2.--Location of aquifer model areas.

Pending Water Right Permit Applications from the Tulare:Western Spink and Tulare: Hitchcock Aquifer

Appl. No.	Applicant	Div. Rate (cfs)	Acres	Source	Approx. Legal Location	Date Filed	Recom
6330-3	Floyd Peterson	2.22	157	T:H	SW ¼ Sec 5, T115N, R62W	6/21/02	Approval
6331-3	Oscar, Inc.	2.23	157	T:H	SE ¼ Sect 5, T115N, R62W	6/21/02	Approval
6332-3	Oscar, Inc.	2.18	153	T:H	SE ¼ Sec. 26, T114N, R63W	6/21/02	Approval
6333-3	Peterson Farms	4.57	320	T:WS	NW ¼ & SE ¼ Sec 21, T113N, R63W	6/21/02	Approval
6334-3	Peterson Farms	3.82	267.4	T:WS	N ½ Sec 34, T115N, R64W	6/21/02	Approval
6336-3	Lee Gatzke	2.28	160	T:H	SW ¼ Sec 32, T115N, R63W	6/21/02	Approval
6337-3	Brian Gatzke	4.56	320	T:H	E ½ Sec 35, T114N, R63W	6/21/02	Approval
6338-3	Allen Gatzke	3.56	320	T:H	NE ¼ & SW ¼ Sec 10, T114, R63W	7/12/02	Approval
6339-3	Allen Gatzke	3.56	320	T:H	W ½ Sec 14, T114N, R63W	7/12/02	Approval
6340-3	Allen Gatzke	1.78	160	T:H	NE ¼ Sec 15, T114N, R63W	7/12/02	Approval
6343-3	Peterson Farms	4.57	320	T:H	SW ¼ Sec 2 & NW ¼ Sec. 11, T113N, R63W	7/26/02	Approval
6344-3	Oscar, Inc.	2.28	160	T:H	NE ¼ Sec 32, T115N, R63W	7/26/02	Denial
6345-3	Oscar, Inc.	3.42	240	T:H	SW ¼ & S ½ N ¼ Sec. 24, T115N, R64W	7/26/02	Denial
6346-3	Oscar, Inc.	4.57	320	T:H	S ½ Sec 25, T115N, R64W	7/26/02	Denial
6347-3	Oscar, Inc.	9.14	640	T:WS	S ½ Sec 19 & N ½ Sec 30, T114N, R63W	7/26/02	Denial
6348-3	Allen Gatzke	1.78	130	T:H	NW ¼ Sec 19, T114N, R62W	7/29/02	Denial
6351-3	Randy R Puffer	1.78	140	T:WS	NW ¼ & N ½ SW ¼ Sec 34, T113N, R63W	8/7/02	Denial
6352-3	Lee Gatzke	2.28	160	T:WS	NW ¼ Sec 18, T114N, R63W	8/8/02	Denial
6353-3	Lee Gatzke	2.28	160	T:H	NE ¼ Sec 6, T114N, R63W	8/8/02	Denial
6359-3	Darin, Brett & Chad Binger	2.0	160	T:WS	SW ¼ Sec 6, T114N, R64W	9/19/02	Denial
6360-3	Darin, Brett & Chad Binger	2.0	160	T:WS	NW ¼ Sec 5, T114N, R64W	9/19/02	Denial
6361-3	Darin, Brett & Chad Binger	2.0	160	T:WS	NE ¼ N ½ SE ¼ Sec 6, T114N, R64W	9/19/02	Denial
TOTAL		68.86	5,084.6	Recommended for Approval			
				35.33 cfs for 2,654.4 acres			

T:H
 - Tulare:Hitchcock Aquifer
 T:WS
 - Tulare:Western Spink Aquifer



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NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY IF
YOU WANT TO PROCEED.

October 30, 2002

Lee Gatzke
18479 389th Avenue
Tulare SD 57476

Dear Mr. Gatzke :

The water permit applications you filed for irrigation use have been examined and found to comply with the South Dakota Water Laws and applicable rules. The Chief Engineer's recommendation is for APPROVAL of Application No. 6336-3 and DENIAL of the Application Nos. 6352-3 and 6353-3. Enclosed for your information are, separate notices for the approval of Application No. 6336-3 and the denial of Application Nos. 6352-3 and 6353-3, the recommendations of the Chief Engineer and a staff report. Please review the notices prior to authorizing publication and notify this office, if you have any corrections or questions.

In the case of Application No. 6336-3, a notice of hearing has been sent to the publisher of the Redfield Press printed at Redfield (phone # 472-0822). Be sure to contact the newspaper immediately to authorize publication of your notice of hearing and to arrange for payment so this application is scheduled for the December 4th Board meeting. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting.

If you wish to proceed to hearing with Application Nos. 6352-3 and 6353-3 and schedule a December 4, 2002 hearing before the Water Management Board, you must also authorize publication of the notice on these applications by contacting the Redfield Press (ph# 472-0822) to publish. A copy of this notice was also sent to the newspaper with instructions to publish only if you authorize publication. Since we are on a tight scheduling timeframe for the upcoming meeting, you must contact the newspaper immediately if you want to proceed with a December 4th hearing.

If the notices are published on November 6 and 13, 2002, a hearing will then be scheduled at 1:30 PM, December 4, 2002 in the Matthew Training Center, Joe Foss Building, 523 E. Capitol Avenue in Pierre SD.

State law provides that if the Chief Engineer recommends denial of an application, the applicant has 20 days from the date the recommendation was mailed to state whether they intend to oppose the recommendation. Failure to submit a statement of intent to oppose the recommendation to deny constitutes withdrawal of the application. If you authorize the newspaper to publish the notice this will constitute your formal intent to oppose the recommendation and schedule a Board hearing on December 4, 2002. You may also choose to delay consideration of these applications until the March Board meeting. If you want to delay the hearing, do not authorize publication of the notice on Application Nos. 6352-3 and 6353-3 at this time. Contact me to state if your intent is to proceed with the application but wait until the March 5 - 6, 2003 meeting. Failure to: 1) authorize publication of the notice scheduling a December 4th hearing, 2) contact me by November 20th to delay consideration until the March meeting, or 3) submit a written statement of intent to oppose the recommendations to deny Application Nos. 6352-3 and 6353-3 by November 20, 2002, will constitute withdrawal of the application.

Mr. Gatzke, I realize this may be somewhat confusing, please contact Karen Schlaak or myself if you have any questions on the recommendation or the process of scheduling these applications for the December meeting.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605)773-3352

enclosure



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

October 30, 2002

Redfield Press
PO Box 440
Redfield SD 57469-0440

ATTENTION: Legal Public Notice

Enclosed are eleven Notice of Hearings on numerous water right permit applications to appropriate water to be published twice. Please publish the first notice on November 6, 2002 with the second publication 7 days later. Publication should only take place for those notices in which the applicant or a representative of the applicant contacts you to authorize publication and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT's are:

Notices	Applicant	Address	Phone
6330-3	Floyd Peterson	18892 390 th Avenue, Hitchcock SD 57348	605 266-2747
6331-3 & 6332-2	Oscar, Inc.	c/o Floyd Peterson, 18892 390 th Ave. Hitchcock SD 57348	605 266-2747
6334-3	Peterson Farms, Lenny Peterson	19111 Maple Avenue, Hitchcock SD 57348	605 266-2793
6336-3	Lee Gatzke	18479 389 th Avenue, Tulare SD 57476	605 266-2790
6337-3	Brian Gatzke	1521 Calumet Rd., Brookings SD	605 692-2119
6338-3, 6339-3 & 6340-3	Allen Gatzke	39351 187 th Street, Hitchcock SD 57348	605 226-2711
6341-3	Jeffery Gatzke	39334 187 th Avenue, Hitchcock SD 57348	605 266-2574
6344-3, 6345-3, 6346-3 6347-3	Oscar, Inc.	c/o Floyd Peterson, 18892 390 th Ave. Hitchcock SD 57348	605 266-2747
6348-3,	Allen Gatzke	39351 187 th Street, Hitchcock SD 57348	605 226-2711
6352-3 & 6353-3	Lee Gatzke	18479 389 th Avenue, Tulare SD 57476	605 266-2790
6359-3, 6360-3 & 6361-3	Darin, Brett, Chad Binger	18410 382 Avenue, Tulare SD 57476	605 596-4295

Please send the Water Rights Program the first publication immediately for notices that are published. The publications are checked for accuracy so any corrections can be made in the second publication. You may send to Water Rights Program at 523 E. Capitol Avenue, Pierre SD 57501 or fax to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, please send us an affidavit or use the enclosed Proof of Publication form for each published notice. 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,

A handwritten signature in cursive script, appearing to read "Eric Gronlund".

Eric Gronlund

Natural Resources Engineer

605 773-3352

enclosures

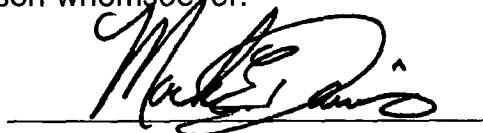
Affidavit of Publication

STATE OF SOUTH DAKOTA,
County of Spink: ss.

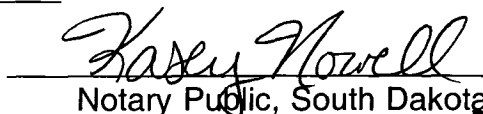
I, Mark E. Davis, of said County & State first duly sworn on oath, say that THE REDFIELD PRESS is a legal weekly newspaper as in Sec. 65.0508 South Dakota Code 1939, amended by Chapter 298 of the Session of 1939, printed and published in the language in the City of Redfield, in said County and State, 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 full knowledge of all the facts stated in this affidavit and that the legal or official notice entitled

#269 Notice of Hearing

A printed copy of which is hereto attached and printed and published in said newspaper successive issues, to wit: The first publication being made on November 6, 2002 and the last publication being made on November 13, 2002 that the full amount of the fee charged for publishing the same to-wit: the sum of Thirty-eight and 16/100 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 November, 2002.



Notary Public, South Dakota

My term expires 08/16/08

Notice of Hearing

No. 269

NOTICE OF HEARING

Notice of Hearing on Application No. 6336-3 to Appropriate Water

Notice is given that Lee Gatzke, 18479 389th Ave, Tulare SD 57476-7700 has filed an application for a water permit to appropriate 2.28 cubic feet of water per second from one well (Tulare: Hitchcock Aquifer) approximately 50 feet deep located in the center of the SW 1/4 Section 32 to irrigate 160 acres located in the SW 1/4 Section 32; all in T115N-R63W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6336-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 25, 2002. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

The Water Management Board will consider this application at 1:30 P.M. December 4, 2002 in the Matthew

Training Center, Foss Building, 523 E Capitol, Pierre SD. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. The December 4, 2002 hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by November 25, 2002.

Any hearing may be an adversarial proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact Eric Gronlund by November 25, 2002, at the above Water Rights Program address to request copies of information pertaining to this application, to assure access to the hearing by the handicapped or to obtain an interpreter for the hearing impaired.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11; 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15, 46-2A-20, 46-2A-21; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

(November 6, 13)

RECEIVED

NOV 14 2002

WATER RIGHTS
PROGRAM

Instruction to Newspaper - Publish first Notice on November 6, 2002 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 6336-3 to Appropriate Water

Notice is given that Lee Gatzke, 18479 389th Ave, Tulare SD 57476-7700 has filed an application for a water permit to appropriate 2.28 cubic feet of water per second from one well (Tulare: Hitchcock Aquifer) approximately 50 feet deep located in the center of the SW ¼ Section 32 to irrigate 160 acres located in the SW ¼ Section 32; all in T115N-R63W.

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The Water Management Board will consider this application at 1:30 P.M. December 4, 2002 in the Matthew Training Center, Foss Building, 523 E Capitol, Pierre SD. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. The December 4, 2002 hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by November 25, 2002.

Any hearing may be an adversarial proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact Eric Gronlund by November 25, 2002, at the above Water Rights Program address to request copies of information pertaining to this application, to assure access to the hearing by the handicapped or to obtain an interpreter for the hearing impaired.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15, 46-2A-20, 46-2A-21; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

October 31, 2002

Garrett Dykstra
Dakota Air Spray
PO Box 208
Turton SD 57477

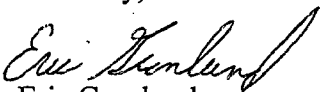
Dear Mr. Dykstra:

Please find enclosed a copy of the report, recommendations, notice of hearings for the applications filed by the Gatzke's. Also enclosed is a summary table of the twenty-two applications we processed from the Tulare:Hitchcock and Tulare:Western Spink aquifers.

The notices to schedule a December 4th hearing before the Water Management Board have been sent to the Redfield Press. Since we are on a tight timeframe to get these applications scheduled for the December 4th meeting, the applicants will need to contact the newspaper immediately to authorize publication of the notices. The newspaper has been instructed not to publish unless the applicant or a representative of the applicant calls and authorizes publication.

If you have any questions, please contact me.

Sincerely,


Eric Gronlund
Water Rights Program
605 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

MAR 19 2003

Lee Gatzke
18479 389th Avenue
Tulare SD 57476-7700

Dear Mr. Gatzke:

Enclosed is Water Permit No. 6336-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

A handwritten signature in black ink that reads 'Garland Erbele'.

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

enclosures

6336-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

October 22, 2003

Lee Gatzke
18479 389th Ave
Tulare SD 57476-7700

Dear Mr. Gatzke:

Thank you for the prompt return of your 2003 irrigation questionnaires.

I am unable to determine how many days you actually pumped on each field. As you know, we use the information on the forms to determine how much water was used from a particular aquifer.

Enclosed are the forms you sent in. Please include the number of days in each month that water was applied. Upon completion, please return the forms to us in the enclosed envelope. Thank you in advance for your help.

Sincerely,


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

enclosures

Permit No. 6336-3
James River - Water District

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

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

I have this day, 6/6/2006, made a thorough examination of the water use system constructed by Lee Gatzke of 18479 389th Ave holder of Permit No. 6336-3, bearing the priority of June 21, 2002 authorizing the diversion of 2.28 cu. ft. per second of the waters of the Tulare: Hitchcock Aquifer for irrigation purposes, in Spink County.

Inspection contact & relationship **Lee Gatzke**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: **Pullman Drilling**
- 2) No. of Wells **1**
- 3) Depth(s) **58** feet
- 4) Well log is available **Y**
- 5) Comment:

Casing:

- 1) Diameter **16** inches
- 2) Length **42** feet
- 3) Type **Plastic PVC**

Screen:

- 1) Type **Stainless Steel**
- 2) Length **15** feet
- 3) Static water level **14** feet

Pump:

- 1) Make: **WLR**
- 2) Model: **10CH**
- 3) Size: **3 Stage**
- 4) Capacity **600** GPM

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make: Growsmart
- 2) Overall length 910 feet
- 3) Number of towers: 7
- 4) Distance between towers 130 feet
- 5) End gun: Y
- 6) High or low pressure: Low

D. Compliance with Permit Requirements:

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

The system is in good condition with the point(s) of diversion located as follows: 1300 ft East and 1300 ft North of the SW ¼ corner of SEC. 32-T115N-R63W (N 44.72341 W -98.43775). The works are capable of diverting and conveying to the place of use 1.34 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

Section 32, T115N-R63W

NW¼ SW¼ - 34 acres

SW¼ SW¼ - 34 acres

SE¼ SW¼ - 34 acres

NE¼ SW¼ - 34 acres

comprising a total of 136 acres of land and the license should be issued for 1.34 cfs.

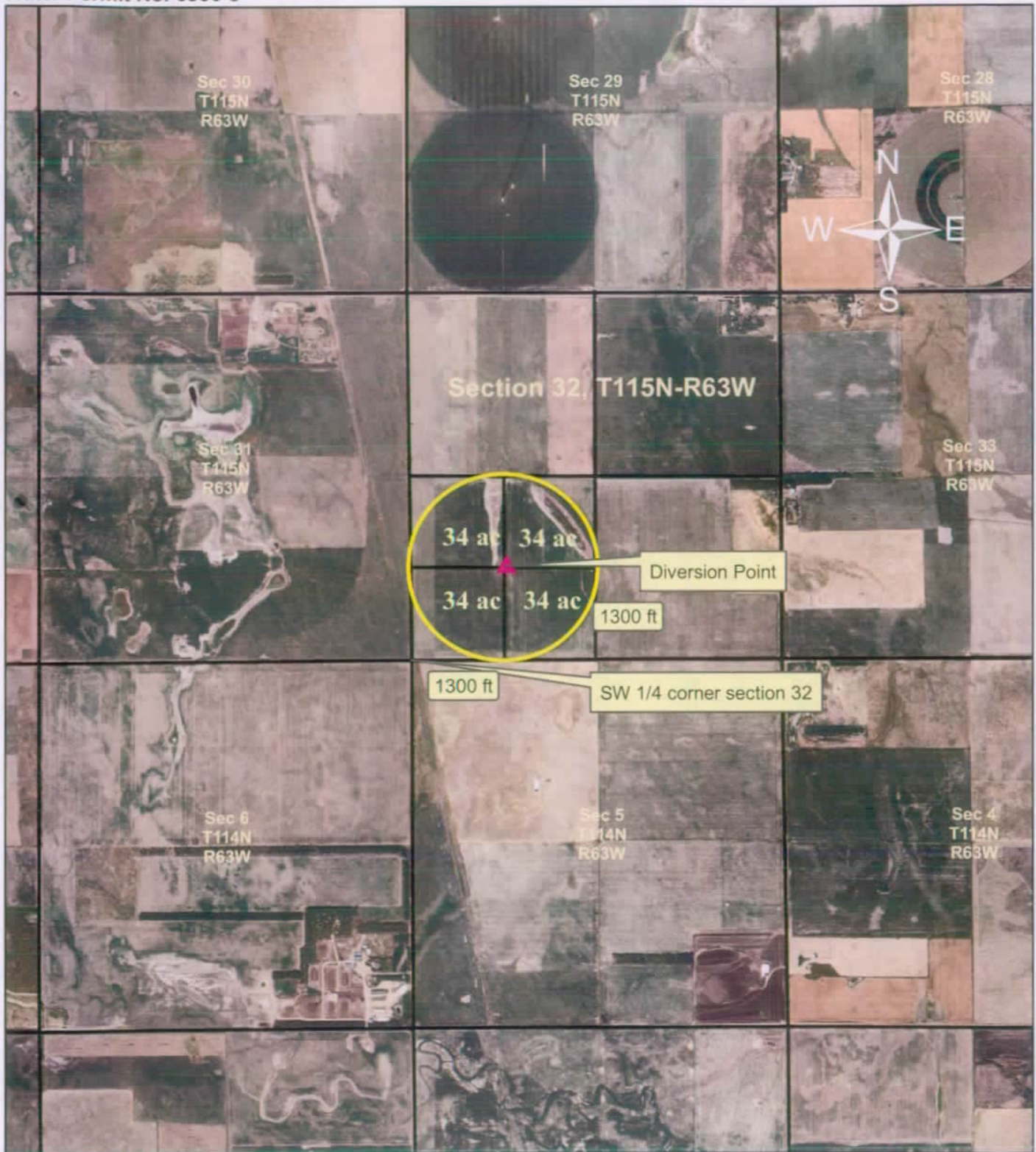
All structures, wells and lands on map Y

Aaron A. Tieman

Aaron Tieman
Natural Resources Engineer
DENR, Water Rights Program

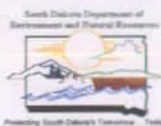
Date report completed: 8/8/2007

Lee Gatzke
18479 389th Ave
Tulare, SD - Spink County
Water Permit No. 6336-3



Aaron A. Tieman

Aaron Tieman
Natural Resources Engineer
DENR Water Rights Program
08/10/2007



0 0.125 0.25 0.5 0.75 1 Miles



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

September 25, 2007

6336-3

Lee Gatzke
18479 389th Ave
Tulare SD 57476

Dear Mr. Gatzke:

I am writing in regard to the licensing process for Water Permit No. 6336-3. The permit authorizes irrigation of 136 acres in the SW ¼ Section 32, T115N, R63W.

In June, 2006, Aaron Tieman with our program conducted a field investigation of the project for licensing purposes. Since Aaron completed the investigation prior to the time specified on the permit for completion of the water use system, we will need to have you submit a "*Notice of Completion of Works*" form. The form will serve as written verification that all development that you intended to do was completed and ready for inspection at the time Aaron was out there.

I have enclosed the partially completed "*Completion of Works*" form and a postage paid envelope for your convenience in mailing the information back to us. If I can answer any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Genny McMath".

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

enclosures

RECEIVED

OCT - 2 2007

WATER RIGHTS
PROGRAM**NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE**Date 9-27-09

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM: Lee Gatzke
(name)
18479 389th Ave
(address)
Tulare SD 57476
(city, state, zip)

605-266-2290
(phone)

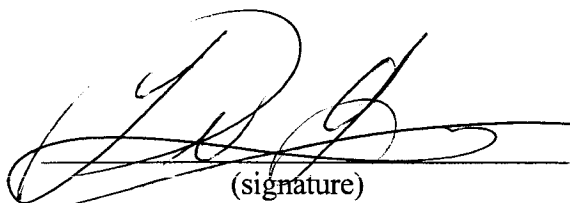
I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

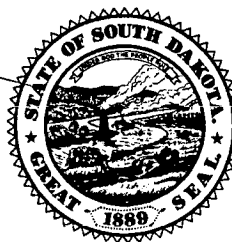
Water Permit No. 6336-3 states that the water use system is to be constructed by
December 4, 2007 , and water is to be put to beneficial use by December 4, 2011 .
(date) (date)

The water use system was completed on _____ .
(date)

Applying the water to beneficial use was completed on _____ .
(date)

You may schedule an investigation so that the water license may be issued.


(signature)



7-98

Note: No. 6336-3 authorizes irrigation of 136 acres in the SW ¼ Section 32, T115N, R63W



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

OCT 30 2007

6336-3

Lee Gatzke
18479 389th Ave
Tulare SD 57476

Dear Mr. Gatzke:

Enclosed is Water License No. 6336-3. This is the final water right document completing your process of obtaining a Water Right. Also included is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 6336-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,

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

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 6336-3**

(1) Lee Gatzke, 18479 389th Ave., Tulare SD 57476 made Application No. 6336-3, June 21, 2002 for a water permit to divert 2.28 cubic feet of water per second from ground water (one well – Tulare:Hitchcock Aquifer), Spink County, South Dakota for irrigation purposes. Permit No. 6336-3, with a priority date of June 21, 2002 was approved December 4, 2002 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 4, 2007 and for the application to beneficial use of said water on or before December 4, 2011.

On January 22, 2007, Water Permit No. 6764-3 was approved to authorize severing 0.343 cfs and 24 acres located in the corners of the SW $\frac{1}{4}$ Section 32, T115N, R63W from Water Permit No. 6336-3 and simultaneously transferring the amounts to other land. Water Permit No. 6336-3 was then reissued for the remaining diversion rate and acres.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.34 cubic feet of water per second for beneficial use. The location of the diversion point is 1,300 feet east and 1,300 feet north of the SW corner of Section 32, T115N, R63W (approximate center of the SW $\frac{1}{4}$).

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

Section 32, T115N, R63W	NW $\frac{1}{4}$ SW $\frac{1}{4}$	34 acres
	SW $\frac{1}{4}$ SW $\frac{1}{4}$	34 acres
	SE $\frac{1}{4}$ SW $\frac{1}{4}$	34 acres
	NE $\frac{1}{4}$ SW $\frac{1}{4}$	34 acres
	Total	136 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Lee Gatzke, 18479 389th Ave., Tulare SD 57476 the holder and/or owner of Water Right No. 6336-3 is issued a license to appropriate water, the right to use 1.34 cubic feet of water per second from ground water (one well – Tulare:Hitchcock Aquifer) with a priority date of June 21, 2002 from the location specified in (2) of this license. The water is to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 6336-3 and subject to the following qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well authorized by Permit No. 6336-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28 (***log on file with Water Rights Program***).
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

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

OCT 30 2007
date





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

October 23, 2025

2428A-3, 6336-3, 6764-3
7290-3, 7291-3, 6337-3

Lee Gatzke
2815 S Westlake Dr, Apt 439
Sioux Falls SD 57106

Dear Mr. Gatzke:

Enclosed is a "Notice" dated October 8, 2025, concerning the 2025 Irrigation Questionnaire.

The notice was originally mailed to you at 18479 389th Ave, Tulare SD 57476. The post office notified our office that your address has changed, and your records have been updated accordingly.

This is a time sensitive matter. Please complete and return the enclosed questionnaire or submit your report online at <https://danr.sd.gov/iq/> using this password **FSSUNL**.

If this change of address is in-correct, please contact our office immediately to update your contact information.

Sincerely,

Amanda Dewell
Permitting Administrator
Water Rights Program
605 773-3352
Amanda.Dewell@state.sd.us

enclosures

353 N/E 18CUE24C2218/18/25
RETURN TO SENDER
GATZKE
2815 S WESTLAKE DR APT 439
SIOUX FALLS SD 57106-8537
RETURN TO SENDER