

WATER PERMIT NO. 6293-3

Name of Applicant: Michael Haag

Address: 24470 420th Ave, Fulton SD 57340 Phone: 605 996-3204

Amount of Water Claimed: 2.22 Total Acres: 160 acres

Source of Water Supply: Groundwater (one well)

Water to be used for: irrigation County: Hanson

Type of Waste Disposal System:

Location: 12 miles north of Alexandria

PRIORITY Date Received: 1-22-02

Fee: \$250

Corrected Application Received: 1-28-02

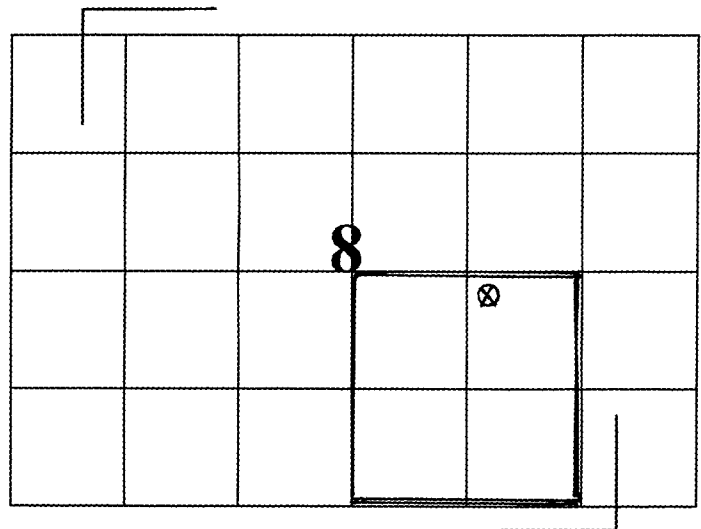
Period of Annual Use: April 1 – November 30

Remarks:

Diversion Point: approximate NE ¼ SE ¼

Sec 8-T104N-R58W

Land to be Irrigated: SE ¼ Sec 8-T104N-R58W



Depth of Well: 138 feet deep

Well Driller: :

Remarks:

Type of Map: aerial

Prepared by: Curtis ? Davison-Hanson FSA

Reviewed and the Number Assigned on: 1-28-02

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

SOUTH DAKOTA
WATER PERMIT NO. 6293-3

Date of first receipt of application January 22, 2002.

Date of return to applicant for corrections, amendments or changes January 22, 2002.

Date of receipt of corrected application January 28, 2002.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6293-3 to Michael Haag, 24470 420th Ave, Fulton SD 57340 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. 6293-3 appropriates 2.22 cubic feet of water per second from one well (Floyd East James Aquifer) 138 feet deep located in the NE ¼ SE ¼ Section 8 to irrigate 160 acres located in the SE ¼ Section 8; all in T104N-R58W.
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 – November 30.
3. The date from which applicant may claim right is January 22, 2002.
4. The date of approval of Permit No. 6293-3 is March 25, 2002.
5. One-fifth of the construction is to be completed on or before September 25, 2004.
6. All construction is to be completed on or before March 25, 2007.
7. Water is to be put to beneficial use on or before March 25, 2011.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6293-3 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

APR 09 2002

date



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

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	(office use only)	
	No. <u>6293-3</u>	Hydrologic Unit <u>10160011</u>
	Basin <u>James River</u>	
	Newspaper <u>Alexandria Herald, Alexandria</u>	



Application For Permit To Appropriate Water For Irrigation

Type of Application: X 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 Michael Haag Phone 605-996-3204
(check one) X Owner Tenant/lessee
- Mailing Address 24470 420TH AVE State S.Dak. 57340
(Street, RR, or Box and City) Fulton (Zip Code)
- Amount of water claimed 2.22 *CFS or 1000 **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 Well ①
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 1 well in
SE 1/4 section of 8 T-104-N R-58-W (NE 1/4 SE 1/4 approximately)
County Hanson
- County or counties where water will be used Hanson
- Annual period during which water is to be used Growing season + Fall April 1 - Nov 30
- List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
<u>Crop land - Alfalfa</u>	<u>160</u>		
<u>and Pasture</u>			
<u>SE 1/4 Sec 8 - T104N - R58W</u>			

8. Give a description of the project. (Attach sheet if more space is needed) The well location approx
around the location of the lot, toward the north middle end of quarter,
① irrigation well N-Eastmy Dads well.

STATE OF SOUTH DAKOTA) SS
County of Davison

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, Michael Haag, 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 Michael Haag Michael Haag

Subscribed and sworn to before me this 15th day of January 20 02

Diane Weitzman
Notary Public signature

My Commission Expires 12-14-05

Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 25" or 28" Depth 138' ft
- b) Casing Type Plastic Diameter 16" Thickness 1/2
- c) Screen Type Plastic or Stainless steel Diameter 16" Thickness 1/2
- d) Gravel Pack yes Length of Gravel Pack 20' ft
- e) Depth to Top of Water Bearing Material 110' ft
- f) Depth to Water (ground surface to water level) 38' ft
- g) Distance to nearest existing domestic well:
- On applicants property 1/2 mile On property owned by others neighbor 1W 1/4 S. 1W-3/4 N 1 3/4 W - 1/4 N

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 _____

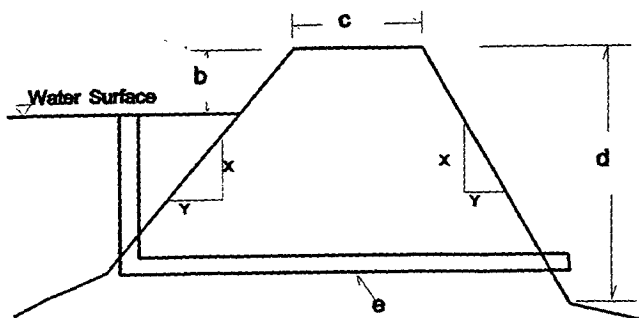
3. Dugout Information

- 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:



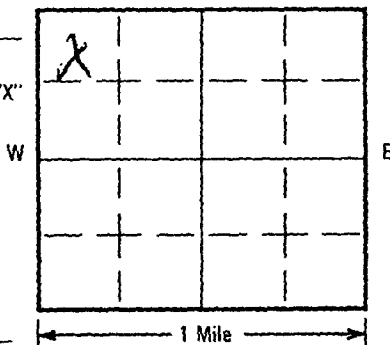
- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage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

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NW 1/4 NW 1/4 Sec 9 Twp 104 Rg 58
County Hanover North

Please mark well location with an "X"



Well Completion Date

11/8/99

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 150 ft. from feed yards (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
_____ LB/FT	<u>5</u> IN	<u>6</u> FT	<u>140</u> FT	<u>8 3/4</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement</u>	<u>4</u>	_____ lb./gal	<u>6</u> ft	<u>20</u> ft
<u>Vol clay</u>	<u>6</u>	_____ lb./gal	<u>20</u> ft	<u>120</u> ft

Describe grouting procedure _____

line to 120 ft.SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 5 IN Length 20 FEETMaterial GravelSlot Size 016 Set From 146 Feet to 160 Feet

Other information _____

Gravel BackedWAS 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: Mike Haug

Business Name: _____

Address: RT 1 Box 21
Fulton S.D. 57390

WELL LOG:

DEPTH

FORMATION	FROM	TO
<u>yellow clay</u>	<u>0</u>	<u>40</u>
<u>blue clay</u>	<u>40</u>	<u>145</u>
<u>med sand</u>	<u>145</u>	<u>165</u>
<u>shale</u>	<u>165</u>	

STATIC WATER LEVEL 70 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ PumpedDescribe: 30 gpm☐ Bailedair compressor☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped

_____ ft. After _____ Hrs. pumped

If pump installed, pump rate _____

REMARKS

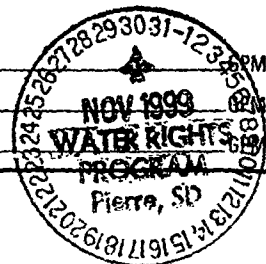
This well was drilled under license # 440

And this report is true and accurate.

Drilling firm Bullman Well DrillingSignature of License Representative: R. E. Puckel

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

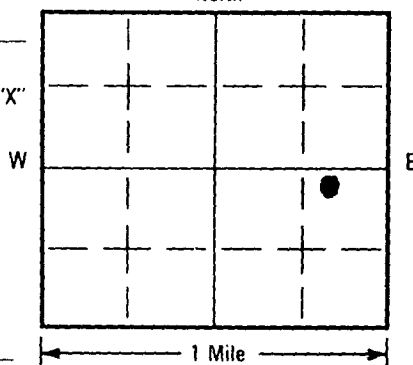


SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NE 1/4 SE 1/4 Sec 8 Twp T104N Rg R58W
County HANSON

Please mark well location with an "X"



Well Completion Date _____

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.) 200 ft. from FARM YARDS (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>5440 LB/FT</u>	<u>16 IN</u>	<u>+1 FT</u>	<u>122 FT</u>	<u>28 IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>BENTONITE</u>	<u>13</u>	<u>10 lb./gal</u>	<u>120 ft</u>	<u>20 ft</u>
<u>PORTLAND</u>	<u>65</u>	<u>15 lb./gal</u>	<u>20 ft</u>	<u>0 ft</u>

Describe grouting procedure _____

SCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 16 IN Length 30 FEETMaterial PVCSlot Size 050 Set From 122 Feet to 152 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: CHLORINE☒ NO, Why Not? IRRIGATION

Laboratory sent to for water quality analysis _____

Well Owner: Michael Haag

Business Name: _____

Address: 24470 420 Rd
Fulton, SD

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>top soil</u>	<u>0</u>	<u>2</u>
<u>rocks - brown clay</u>	<u>2</u>	<u>40</u>
<u>rocks - blue clay</u>	<u>40</u>	<u>70</u>
<u>blue clay</u>	<u>70</u>	<u>124</u>
<u>coarse sand</u>	<u>124</u>	<u>132</u>
<u>coarse gravel</u>	<u>132</u>	<u>152</u>

STATIC WATER LEVEL 55' Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ PumpedDescribe: TEST TURBINE☐ Bailed☐ Other

Pumping Level Below Land Surface

72 ft. After 2 Hrs. pumped 1200 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate 800 GPM

REMARKS

This well was drilled under license # 444

And this report is true and accurate.

Drilling firm Christensen Well & Irrigation Inc.Signature of License Representative: William J. ChristensenSignature of Well Owner or Equitable Property Holder: Michael HaagDate: 6/5/02

RECEIVED

JUN 14 2002

WATER RIGHTS PROGRAM

2002

DAVISON-HANSON COUNTY FSA OFFICE

MAP NOT TO SCALE

1820 North 1st St.
Mandan, ND 58501-1114

THIS IS NOT AN OFFICIAL WETLAND MAP



6293-3

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

417056

Pierre, January 22, 2002

RECEIVED OF Michael or Carolyn Haag, 24470 420th Ave., Fulton, SD 57340-8008
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>6293-3</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. <u>6293-3</u> _____	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	300 00

By

Darland Ebele
Chief Engineer
gme



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 22, 2002

Michael Haag
24470 420th Ave
Fulton SD 57340

Dear Mr. Haag:

Thank you for submitting the two *Applications for a Permit to Appropriate Water* for irrigation. Enclosed are the aerial photos submitted with the applications. Each map must be signed by one of the following: Registered Land Surveyor, Registered Professional Engineer or by any other government employee who normally prepares maps as a part of his assigned duties. Someone from the Davison-Hanson County FSA office will be qualified to sign the maps.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352

enclosures

REPORT ON WATER PERMIT APPLICATION NOS. 6292-3 AND 6293-3

For Michael Haag

February 15, 2002

Application No. 6292-3 proposes to appropriate 2.22 cfs (1000 gpm) from one well approximately 140 feet deep located in the approximate center of the SW $\frac{1}{4}$ of section 4 to irrigate 160 acres located in the SW $\frac{1}{4}$ of section 4; all in T104N R58W in Hanson County.

Application No. 6293-3 proposes to appropriate 2.22 cfs (1000 gpm) from one well 138 feet deep located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of section 8 to irrigate 160 acres located in the SE $\frac{1}{4}$ of section 8; all in T104N R58W in Hanson County.

AQUIFER – FLOYD EAST JAMES (F-EJ)

The Floyd East James aquifer is a buried outwash (sand and gravel) which is under confined or artesian conditions in this area. The aquifer underlies 84 square miles and contains an estimated 430,000 acre-feet of water in storage in Hanson County (Hansen, 1983). The aquifer extends into McCook County to the east, Miner County to the north and into Sanborn County to the northwest. The general direction of ground water movement is from southeast to northwest across the area where this application is located.

No test hole information was supplied with the application. However, there was a domestic well log and an existing irrigation well log filed with the application. Both of these logs are located within one mile of these applications. Also, there is sufficient information from the Hanson County and Miner County studies to evaluate this application.

The Water Rights Program monitors six observation wells within a three-mile radius of these applications. Hydrographs for four of these observation wells (HS-79A, MR-80B, MR-79F and HS-79C) are included with this report. In general, the water level record indicates that recharge does occur to the aquifer, pumping does cause fluctuation in the water levels and that the aquifer can sustain additional withdrawals (Water Rights, 2002). Observation well MR-79F does not show the pattern of the other observation well hydrographs. This means that MR-79F is not completed into the Floyd East James aquifer but into a deeper formation.

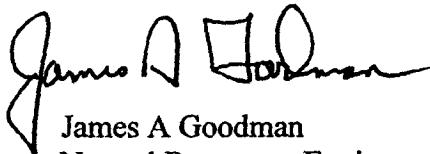
REVIEW OF EXISTING WATER PERMITS/RIGHTS

The only other existing water right in the area is No. 2774-3 issued to Cyril Haag for 1.55 cfs and irrigation of 216 acres. The wells for the proposed applications will be about one-half mile north (No. 6292-3) and one-half mile southwest (No. 6293-3) of the existing irrigation well. Pumping will create drawdown. This is shown by the observation well data. The existing well has created six to ten feet of drawdown at a distance of one to two miles. Adding two more wells in this area will increase the

amount of drawdown but this is not expected to adversely affect water availability from the aquifer. Interference is not expected to be a concern. Some pumps may need to be lowered especially during dry years when more irrigation water is needed.

CONCLUSIONS

1. Water is available from the Floyd East James aquifer.
2. The aquifer is confined and under artesian conditions. Pumping creates drawdown. This is shown by the observation well data, which reflects existing pumping conditions. Additional wells will create additional drawdown but this is not expected to adversely affect the water supply from the aquifer. Interference is not expected to be a problem, however, until the wells are drilled and tested, the actual effects can only be estimated. After a few years of pumping the irrigation wells and monitoring the observation wells the effects will be quantifiable.
3. The wells authorized by these applications, if approved, must be constructed in accordance with SD Well Construction Standards.



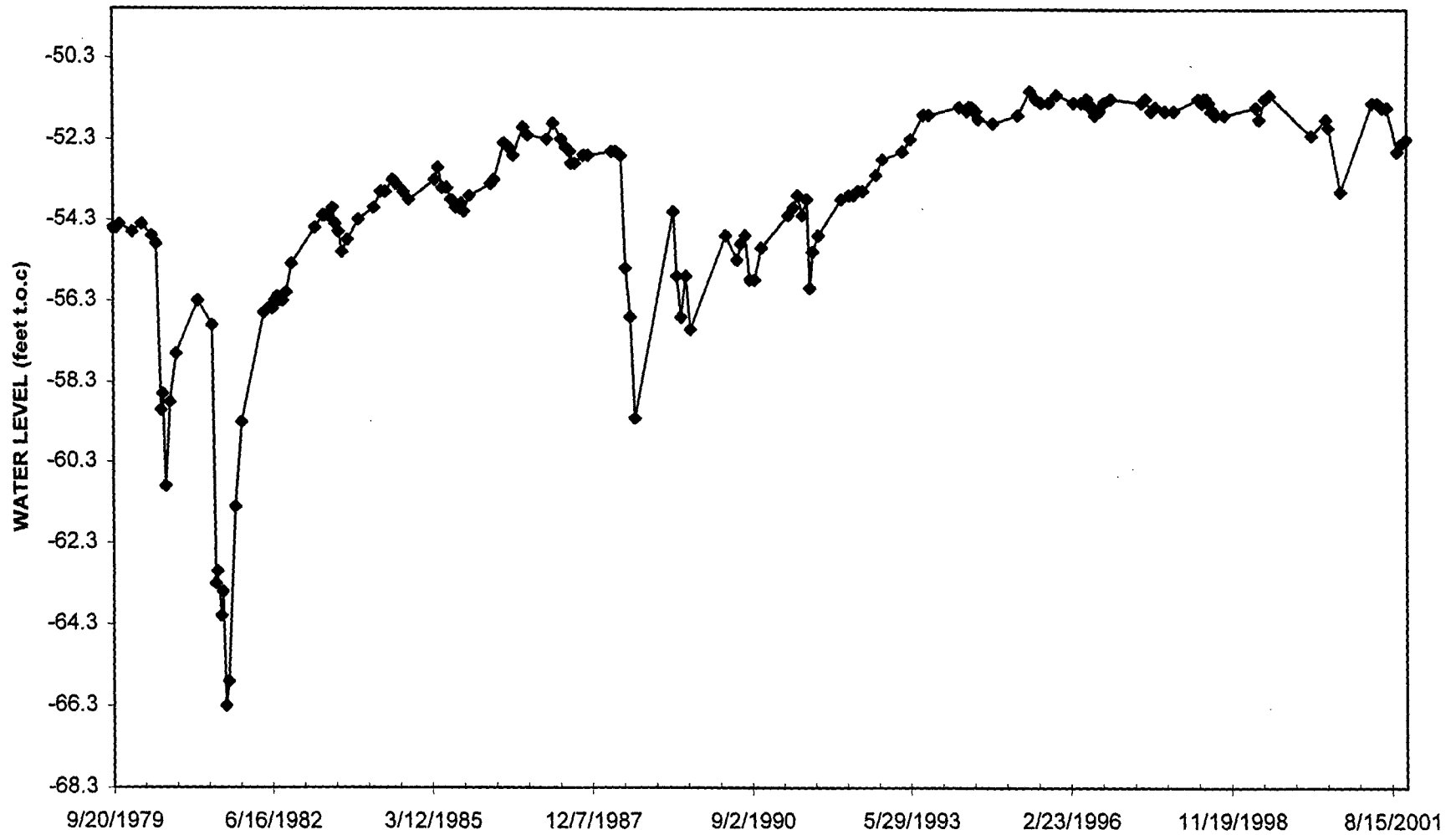
James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

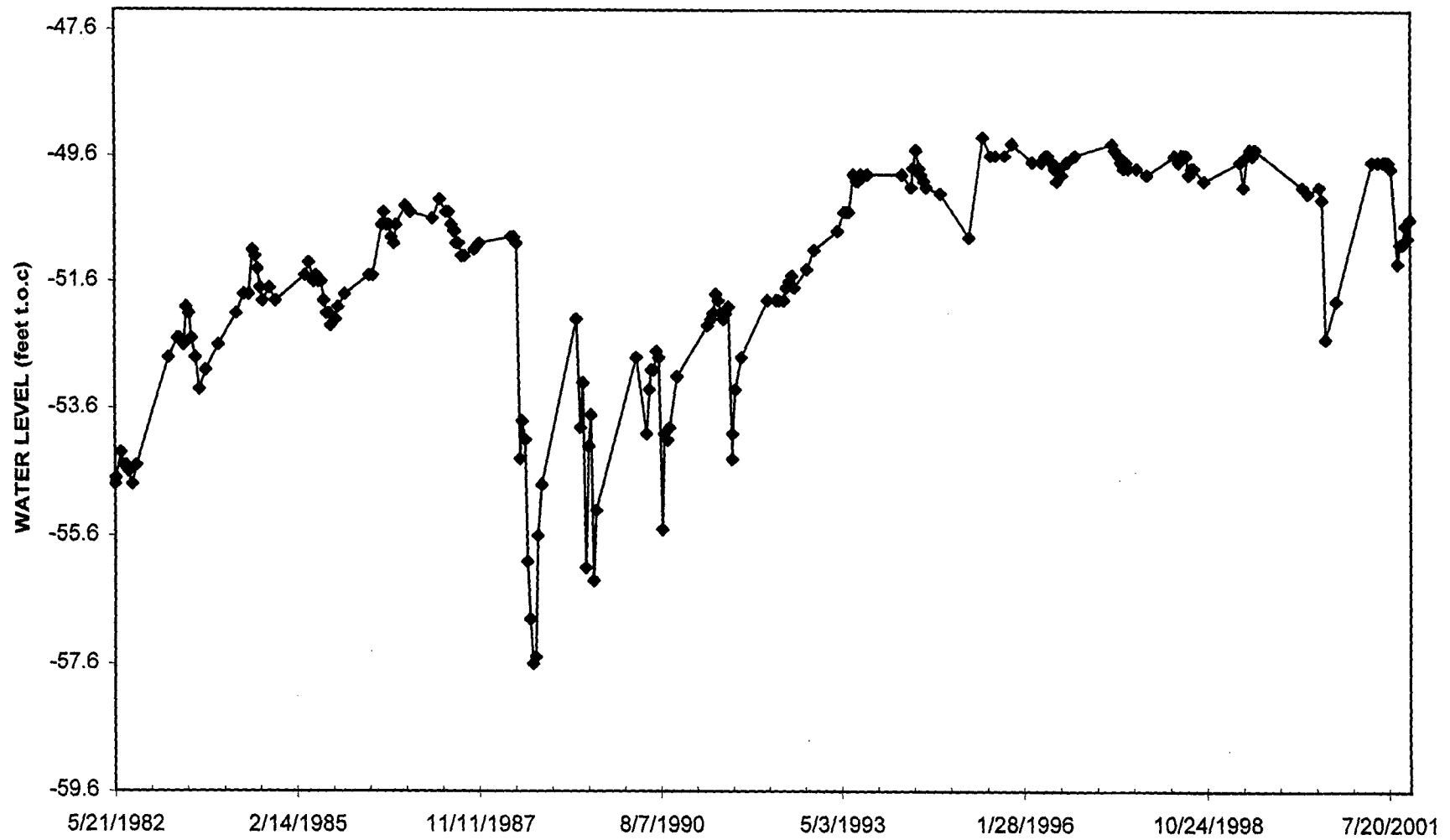
Hansen, D.S., 1983, Water Resources of Hanson and Davison Counties, South Dakota, Water Resources Investigations Report 83-4108, USGS, Huron, SD, 57350.

Water Rights, 2002, Unpublished Observation Well Data for Hanson and Miner Counties, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

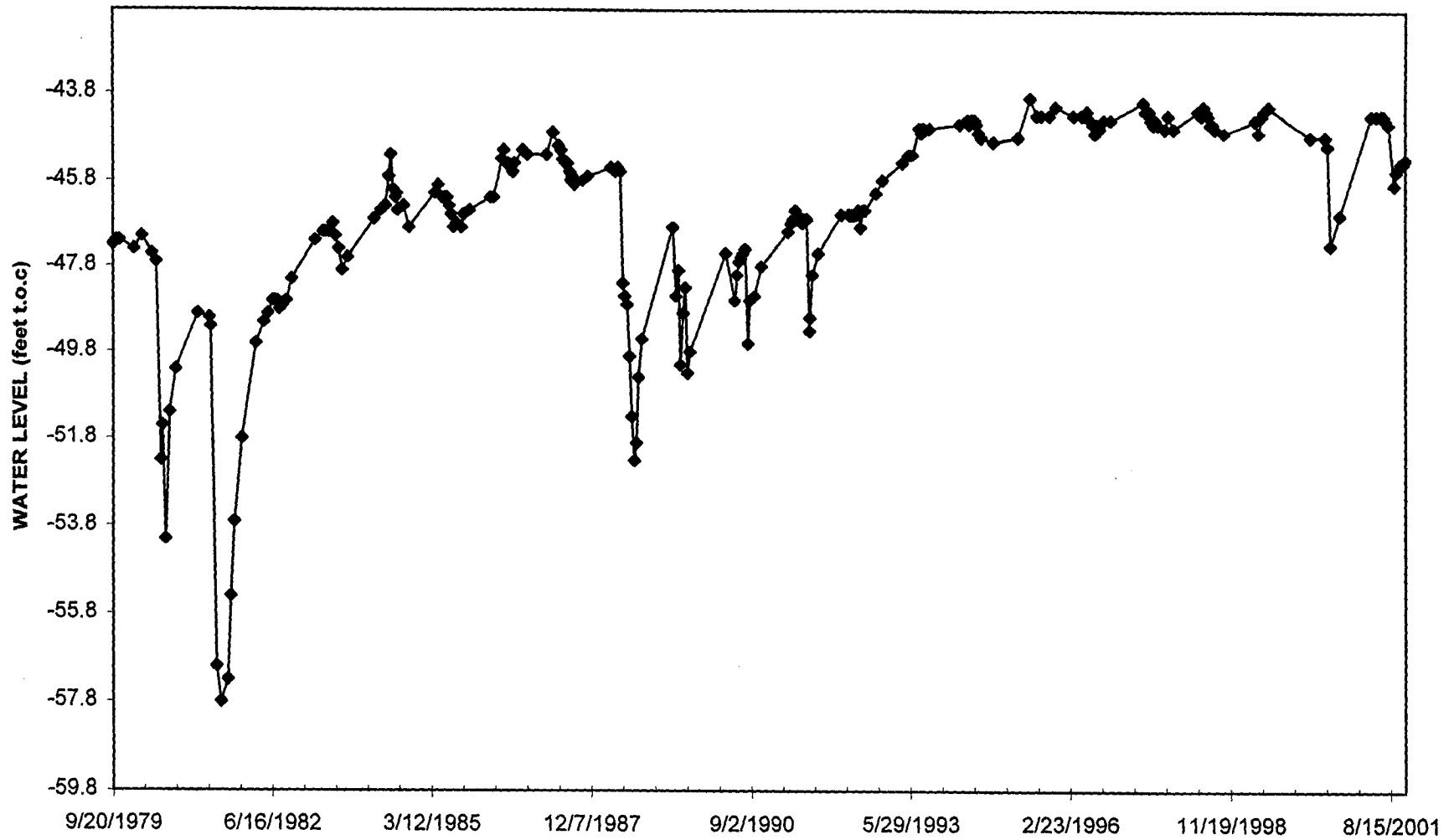
**WATER RIGHTS' OBSERVATION WELL
HS-79C**



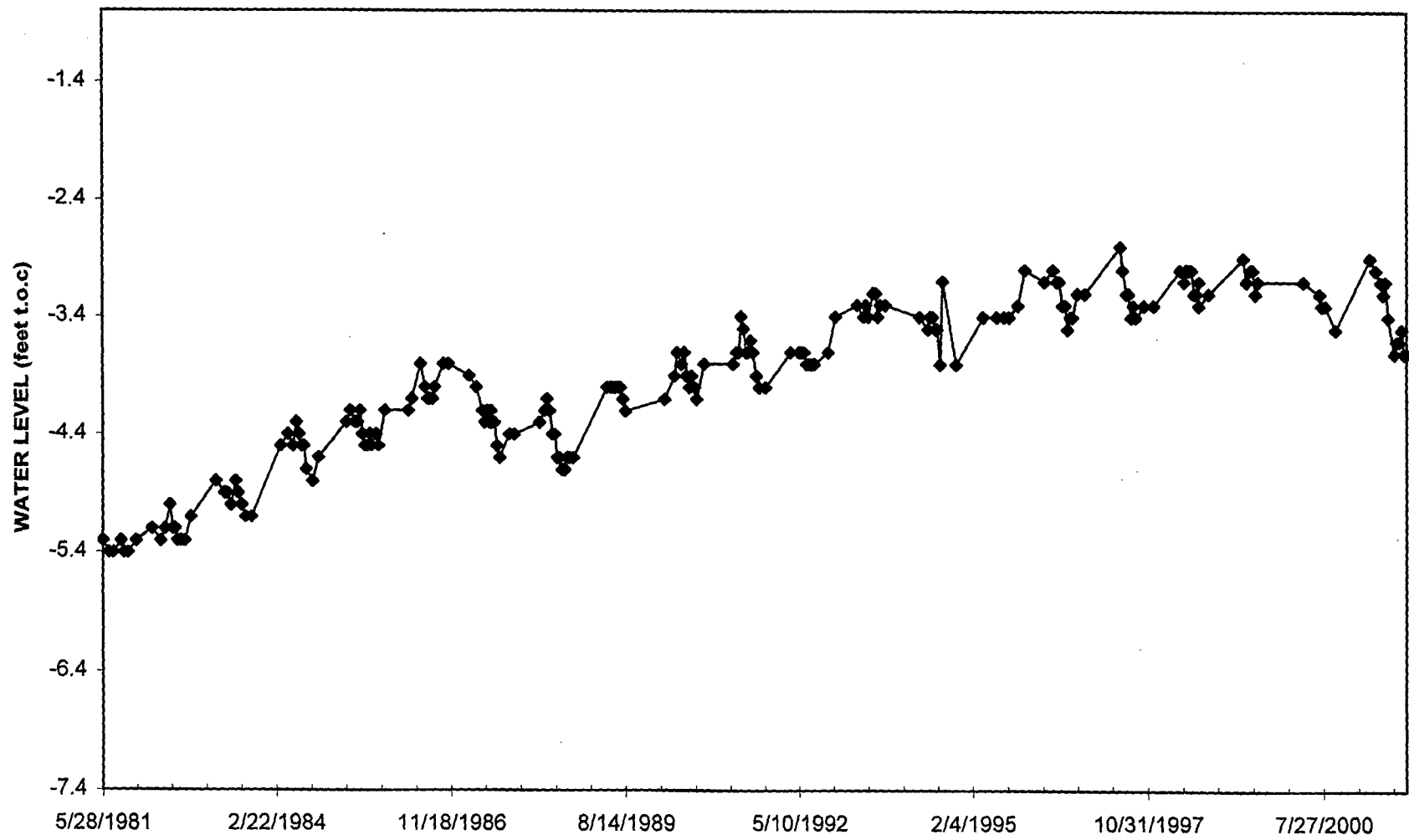
**WATER RIGHTS' OBSERVATION WELL
MR-80B**



**WATER RIGHTS' OBSERVATION WELL
HS-79A**



**WATER RIGHTS' OBSERVATION WELL
MR-79F**





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6293-3, Michael Haag**

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. 6293-3, Michael Haag, 24470 420th Avenue, Fulton SD 57340.

The Chief Engineer is recommending APPROVAL of Application No. 6293-3 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 wells authorized by Permit No. 6293-3 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
February 22, 2002

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Hanson) SS

I, Terry Janssen

certify that the attached printed Notice was taken

from the Alexandria Herald

printed and published in Hanson Alexandria

County of Hanson and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

3-7-02

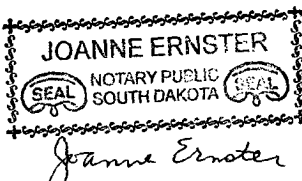
3-14-02

Cost of Printing \$ 72.80

Terry Janssen
(Signature)

Publisher
(Title)

3-15-02
(Date Signed)



NOTICE OF APPLICATION NOS. 6292-3 AND 6293-3 to Appropriate Water

Notice is given that Michael Haag, 24470 420th Ave, Fulton SD 57340 has filed the following applications for a water permit.

Application No. 6292-3 proposes to appropriate 2.22 cubic feet of water per second from one well (Floyd East James Aquifer) 140 feet deep located in the approximate center of the SW 1/4 Section 4 to irrigate 160 acres located in the SW 1/4 Section 4; all in T104N-R58W.

Application No. 6293-3 proposes to appropriate 2.22 cubic feet of water per second from one well (Floyd East James Aquifer) 138 feet deep located in the NE 1/4 SE 1/4 Section 8 to irrigate 160 acres located in the SE 1/4 Section 8; all in T104N-R58W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6292-3 and 6293-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on these applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing either application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting these applications or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by March 25, 2002.

The petition may be informal, but must include a statement describing the petitioner's interest in

RECEIVED
MAR 18 2002
WATER RIGHTS
PROGRAM



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

February 25, 2002

Michael Haag
24470 420th Ave
Fulton, SD 57340

Dear Mr. Haag:

Water Permit Application Nos. 6292-3 and 6293-3 for irrigation use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Alexandria Herald printed at Alexandria, SD (Ph # 605-239-4521). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the 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 to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the 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 application.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 25, 2002

Alexandria Herald
Box 450
Alexandria, SD 57311-0450

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application Nos. 6292-3 and 6293-3 to Appropriate Water to be published twice. Please publish the first notice on March 6, 2002 with the second publication 7 days later.

The applicant must verify to you that the notice is to be published, before you make the first publication **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Michael Haag, 24470 420th Ave, Fulton, SD 57340 (Ph # 605-996-3204).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, please send us an affidavit or use the enclosed Proof of Publication form. The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 6292-3 & 6293-3

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

Date _____

We are in receipt of your letter of February 25, 2002 enclosing Notice of Hearing to Appropriate Water by Application No. 6292-3 & 6293-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper

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

NOTICE OF APPLICATION NOS. 6292-3 and 6293-3 to Appropriate Water

Notice is given that Michael Haag, 24470 420th Ave, Fulton SD 57340 has filed the following applications for a water permit.

Application No. 6292-3 proposes to appropriate 2.22 cubic feet of water per second from one well (Floyd East James Aquifer) 140 feet deep located in the approximate center of the SW $\frac{1}{4}$ Section 4 to irrigate 160 acres located in the SW $\frac{1}{4}$ Section 4; all in T104N-R58W.

Application No. 6293-3 proposes to appropriate 2.22 cubic feet of water per second from one well (Floyd East James Aquifer) 138 feet deep located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 8 to irrigate 160 acres located in the SE $\frac{1}{4}$ Section 8; all in T104N-R58W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6292-3 and 6293-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on these applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing either application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting these applications or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by March 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 applications, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to these applications. 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

APR 09 2002

Michael Haag
24470 420th Ave.
Fulton, SD 57340

Dear Mr. Haag:

Enclosed are Water Permit Nos. 6292-3 and 6293-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permits.

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

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

Sincerely,

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

enclosures

**NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE**

Date 5-31-2002

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

FROM:

Michael Haag
(name)

24470 420TH Ave.
(address)

Fulton S. Dak. 57340
(city, state, zip)

RECEIVED

OCT 28 2002

WATER RIGHTS
PROGRAM

605-996-3204
(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. 6292-3 states that the water use system is to be constructed by

5-29 & 5-30-2002, and water is to be put to beneficial use by

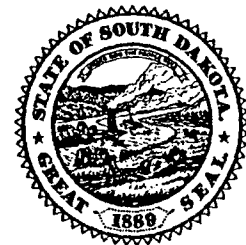
6-28-2003 (6293-3)

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.

Michael Haag
(signature)



Permit No. 6293-3
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, August 26, 2004, made a thorough examination of the water use system constructed by Michael Haag of 24470 420th Ave, Fulton SD 57340 holder of Permit No. 6293-3, bearing the priority of January 22, 2002 authorizing the diversion of 2.22 cu. ft. per second of the waters of ground water (Floyd East James aquifer) for irrigation purposes, in Hanson County.

Inspection contact & relationship to permit holder, if applicable: **Michael Haag**

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Christensen Drilling
- 2) No. of Wells 1
- 3) Depth(s) 152 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 16 inches
- 2) Length 122 feet
- 3) Type Plastic

Screen:

- 1) Type PVC
- 2) Length 30 feet
- 3) Static water level 55 feet

Pump:

- 1) Make Unknown

Motor:

- 1) Make GM diesel, 4 cyl
- 2) Serial No. 334757

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

- 1) Type PVC
- 2) Size 8 inches
- 3) Length 1,360 feet

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make T & L
- 2) Number of towers 9
- 3) End gun Y
- 4) Pressure 50 psi
- 5) Capacity 850 GPM

Gun:

- 1) Make Rainbow
- 2) Nozzle size 1.75 inches
- 3) Capacity 1,000 GPM
- 4) Hose size 4.5 inches

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 NA
- 3) Exceptions to compliance are: none

The system is in good condition with the point of diversion located as follows: Well: 1,000 feet W and 2,625 feet N from the SE corner section 8-T104N-R58W (NE $\frac{1}{4}$ SE $\frac{1}{4}$ -- Latitude 43.82580, Longitude -97.81209.) The works are capable of diverting and conveying to the place of use 2.22 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:

Report of Examination of Works

Permit No. 6293-3

All in section 8-T104N-R58W

NE $\frac{1}{4}$ SE $\frac{1}{4}$ 40 acres
NW $\frac{1}{4}$ SE $\frac{1}{4}$ 40 acres

SW $\frac{1}{4}$ SE $\frac{1}{4}$ 37 acres
SE $\frac{1}{4}$ SE $\frac{1}{4}$ 28 acres

comprising a total of 145 acres of land and the license should be issued for 2.07 cfs.

All structures, wells and lands on map Y | Comments or other permit(s) associated with the project: **none**



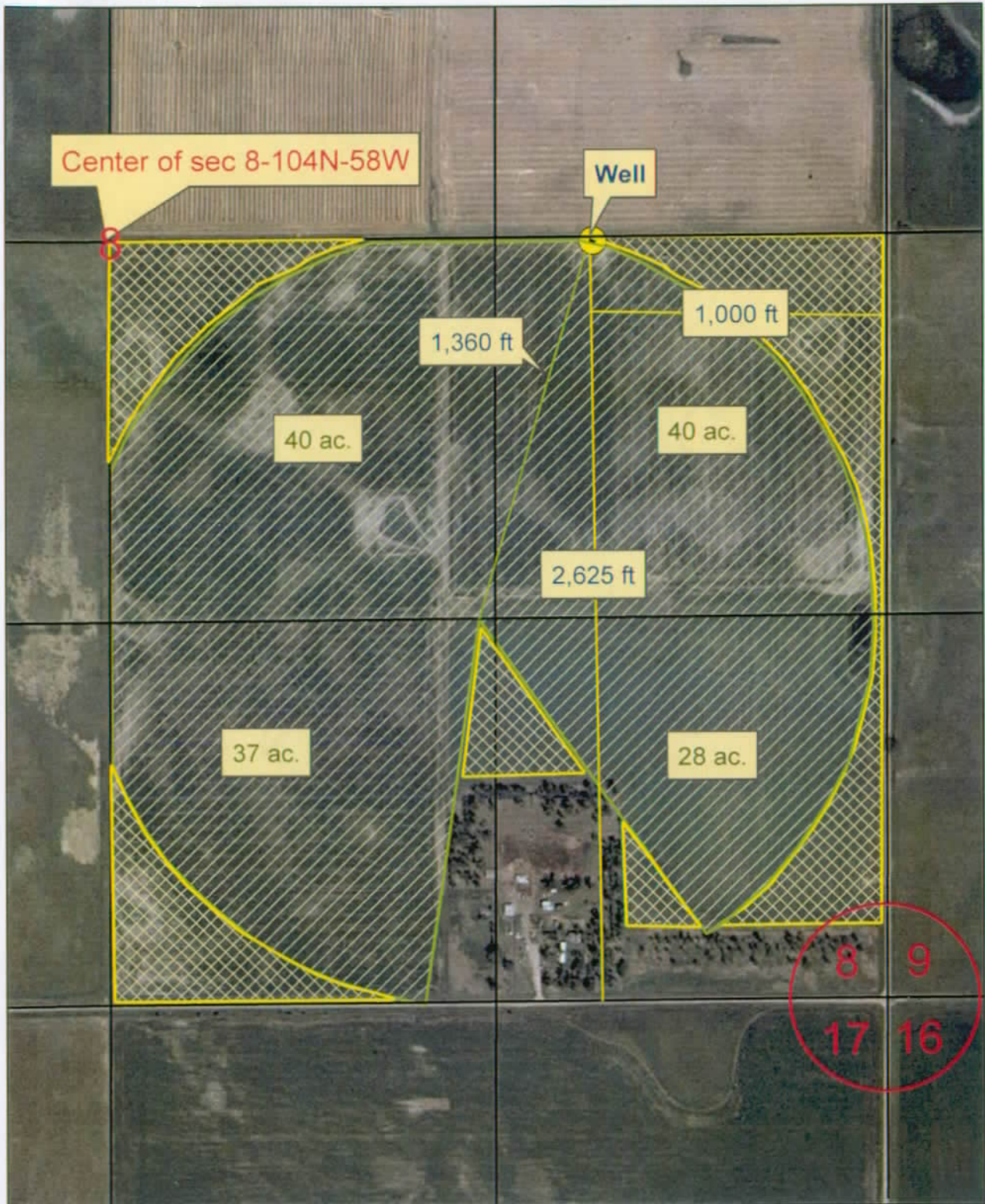
Ron Duvall
Natural Resources Engineer
DENR, Water Rights Program

Date report completed: February 9, 2005

Scale: 1 inch equals 511 feet

720

Feet



South Dakota
Department of Environment
& Natural Resources
Water Rights

Completed by:

Ron Duvall

Ron Duvall, Natural Resources Engineer
Water Rights Program

Diversion point(s) located using GeoExplorer II GPS

Date: Dec 8, 2004

Water Right No. 6293-3

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6293-3

(1) Michael Haag, 24470 420th Ave, Fulton SD 57340 made Application No. 6293-3, January 22, 2002 for a water permit to divert 2.22 cubic feet of water per second from groundwater (one well), Hanson County, South Dakota for irrigation purposes. Permit No. 6293-3, with a priority date of January 22, 2002 was approved March 25, 2002 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before March 25, 2007 and for the application to beneficial use of water on or before March 25, 2011.

The permit holder submitted a *Notice of Completion of Works and Application of Water to Beneficial Use* on October 28, 2002. The *Notice* stated the diversion system was completed on May 29, 2002 and the water placed to beneficial use on July 7, 2002.

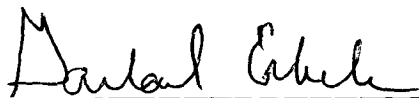
(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 6293-3 is issued a license, bearing a priority date of January 22, 2002 to appropriate 2.07 cubic feet of water per second from groundwater (one well) to irrigate 145 acres.

The diversion point is located: 1,000 feet west and 2,625 feet north from the southeast corner Section 8-T104N-R58W (NE ¼ SE ¼). The acres authorized for irrigation are as follows:

Section 8-T104N-R58W	NE ¼ SE ¼	40 acres
	NW ¼ SE ¼	40 acres
	SW ¼ SE ¼	37 acres
	SE ¼ SE ¼	28 acres
Total 145 acres		

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6293-3 including the following now applicable 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. 6293-3 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) pursuant to Section 74:02:04:28.
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



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

APR 19 2005

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

APR 19 2005

6292-3
6293-3

Michael Haag
24470 420th Ave
Fulton SD 57340

Dear Mr. Haag:

Enclosed are Water License Nos. 6292-3 & 6293-3. These are the final water right document completing your process of obtaining a Water Right.

As long as you use the water beneficially, as stated in the Water Licenses, State Water Laws provide that you have a continuing right to use the water.

Sincerely,

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

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