

WATER PERMIT NO. 7305-3

Name of Applicant: Tim Grabow

Address: 15689 456th Ave, South Shore SD 57263 Phone: 605 880-1487

Amount of Water Claimed: 1.57 cfs Total Acres: 110

Source of Water Supply: groundwater (2 existing wells)

Water to be used for: irrigation County: Codington

Type of Waste Disposal System:

Location: 11 miles west of South Shore

PRIORITY Date Received: 1-5-12 Application/License Fee: \$ 950

Corrected Application Received: 1-10-12 Period of Annual Use: May 1 – September 30

Remarks: Utilitizing wells authorized by Water Permit No. 6907-3

Diversion Point: center NE ¼ Sec 34-T120N-
R52W

Land to be Irrigated: SE ¼ Sec 34-T120N-R52W

Depth of Well: 138 feet deep

Well Driller: Kaiser Well Drilling

Remarks:

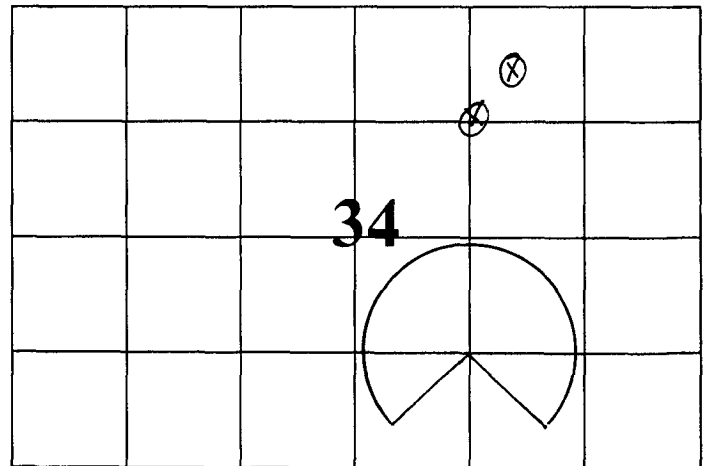
Type of Map: aerial

Prepared by: Sarah Wanner, Codington Co FSA

Reviewed and the Number Assigned on: 1-10-12

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



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

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>7305-3</u> (office use only) Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>
	Newspaper <u>South Shore Gazette P.O. Box 96</u>
	<u>605-756-4247</u> <u>57263</u>

RECEIVED

JAN - 5 2012

WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

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

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

1. Name of Applicant Tim Grabow Phone 605-880-1487
 (check one) ☒ Owner ☐ Tenant/lessee
 Mailing Address 15689 456th Ave South Shore SD 57263
 (Address) (City) (State) (Zip Code)
2. Amount of water claimed 1.57 *CFS or **GPM ***AF Total Acreage 110
 (*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply well
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Codington
2 wells in Prairie Coteau Aquifer (approx 140' deep) located
center NE1/4 34-120-52 to irrigate 110 acres wells owned by
Jeff Grabow under permit 6907-3
5. County or counties where water will be used Codington
6. Annual period during which water is to be used May 1 Sept 30
7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
 (Attach sheet if more space is needed)

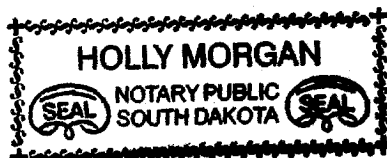
Land Description	Acres	Land Description	Acres
NW1/4 of SE1/4 34-120-52	33		
NE1/4 of SE1/4 34-120-52	33		
SW1/4 of SE1/4 34-120-52	22		
SE1/4 of SE1/4 34-120-52	22		

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

I am using wells under permit #6907-3 owned by Jeff Grabow to irrigate these acres.

 STATE OF SOUTH DAKOTA)
 County of Codington) SS

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

 I, Tim Grabow, 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 Tim GrabowSubscribed and sworn to before me this 3 day of January 20 12
Holly Morgan
 Notary Public signature

SOUTH DAKOTA
WATER PERMIT NO. 7305-3

Date of first receipt of application January 5, 2012.

Date of return to applicant for corrections, amendments or changes January 5, 2012.

Date of receipt of corrected application January 10, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7305-3 to Tim Grabow, 15689 456th Ave, South Shore SD 57263 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. 7305-3 appropriates 1.57 cubic feet of water per second from two wells completed into the Prairie Coteau Aquifer (138 feet deep) located in NE ¼ NE ¼ and the approximate center of the NE ¼ Section 34 for irrigation of 110 acres located in the SE ¼ Section 34; all in T120N-R52W within the former boundaries of the Sisseton Wahpeton Indian Reservation.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – September 30.
3. The date from which applicant may claim right is January 5, 2012.
4. The date of approval of Permit No. 7305-3 is March 26, 2012.
5. One-fifth of the construction is to be completed on or before September 26, 2014.
6. All construction is to be completed on or before March 26, 2017.
7. Water is to be put to beneficial use on or before March 26, 2021.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The wells approved under Permit No. 7305-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: Garland Erbele

Garland Erbele, Chief Engineer

Water Rights Program

Department of Environment and Natural Resources

APR 30 2012

date



(type or print in ink)

a) Drill Hole Diameter 18 3/4" Depth 138'

b) Casing Type plastic Diameter 12" Thickness Schedule 40

c) Screen Type stainless steel Diameter 12" Thickness

d) Gravel Pack yes Length of Gravel Pack 20'

e) Depth to Top of Water Bearing Material see well info under

f) Depth to Water (ground surface to water level) permit 6907-3

g) Distance to nearest existing domestic well:

On applicant's property 3/4 mile On property owned by others 1/2 mile

a) Type of System (i.e. septic tank, drain field) _____

b) System Capacity (gallons) _____ Year Constructed _____

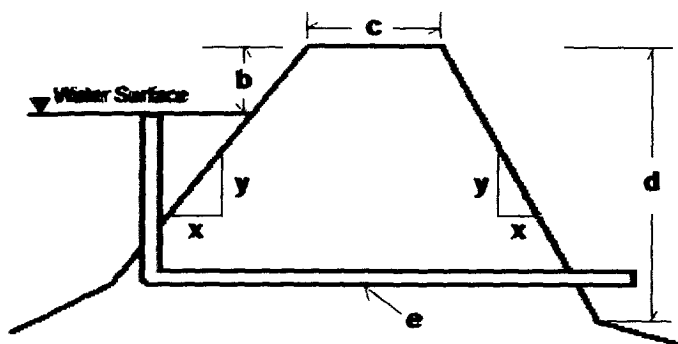
c) Connected to the City of _____ Sanitary System _____

a) Surface Dimensions _____ Depth _____

b) Depth to water (ground surface to water level) _____

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.

- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope (e.g. 3 to 1 is a typical slope)
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres



X where water will come from

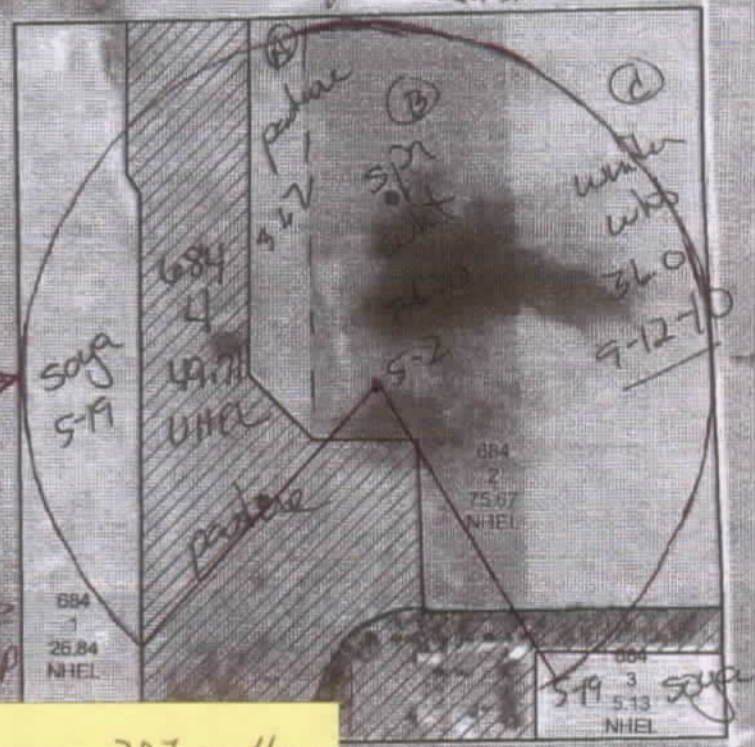
This is the 2011 map report for Tim Grabow.

Sarah Wanner
PT for Codrington FSA
Jan 3, 2012

Tim = All

This is the 110 Area to irrigate in the circle

Pasture in circle will be broke up



1.57 cts or 707 gallons per minute will be right for my water needs, so disregard the other amount.



United States Farm Service

PLSS: 34_120R_52R
Farm: 4390

Co

February 03, 2011

Disclaimer: Wetland identifiers do not represent the original determination (CPA) boundaries and determinations, or con

Wetland Determination Identifiers
 ● Restricted Use
 ▲ Limited Restrictions
 □ Exempt from Conservation Compliance Provisions

Common Land Units
 Non Cropland

Red Jan. 10, 2012 W Rights

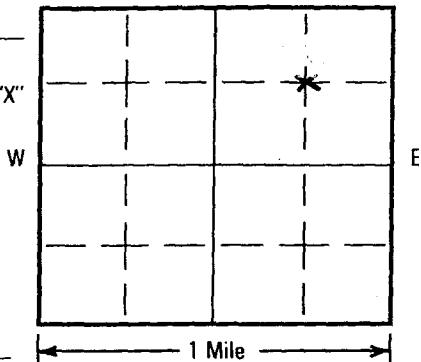
SOUTH DAKOTA WATER WELL COMPLETION REPORT

6907-3

7305-3

07-92

Location NE $\frac{1}{4}$ Sec 34 Twp 120 Rg 52
County Coddington
Please mark well location with an "X"



Well Completion Date

6-4-09

LOCATION:

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

PROPOSED USE:

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

METHOD OF DRILLING:

Forward Mud Rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>49.56</u> LB/FT	<u>12</u> IN	<u>12</u> FT	<u>117</u> FT	<u>17 1/2</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Bentonite</u>	<u>10</u>	_____ lb./gal	_____ ft.	_____ ft.
		_____ lb./gal	<u>6.6</u> ft.	<u>30</u> ft.

Describe grouting procedure Pumped in

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 12 IN Length 14 FEET
Material 5.5
Slot Size 60 Set From 117 Feet to 131 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:

HTH

_____ NO, Why Not?

Laboratory sent to for water quality analysis

Well Owner:

Jeff Graybow

Business Name:

45451 157th St.

Address:

South Shore, SD 57263

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Top Soil</u>	<u>6.6</u>	<u>1</u>
<u>Sand + Gravel</u>	<u>1</u>	<u>40</u>
<u>Clay</u>	<u>40</u>	<u>103</u>
<u>Hard Clay</u>	<u>103</u>	<u>117</u>
<u>Sand drilled good</u>	<u>117</u>	<u>131</u>
<u>Sandy clay</u>	<u>131</u>	<u>142</u>

STATIC WATER LEVEL

7.6

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? Yes

WELL TEST DATA:

☒ Pumped

Describe: _____

☐ Bailed

☐ Other

Pumping Level Below Land Surface

98.10 ft.

After 5 1/2 Hrs. pumped

979 GPM

_____ ft. After _____ Hrs. pumped

_____ Hrs. pumped

_____ GPM

If pump installed, pump rate _____ GPM

REMARKS

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FEB 23 2012

WATER RIGHTS PROGRAM

This well was drilled under license # 381

And this report is true and accurate.

Drilling firm

L.T.P. Enterprises, Inc.

Signature of License Representative:

Randy Pullar

Signature of Well Owner or Equitable Property Holder:

Date:

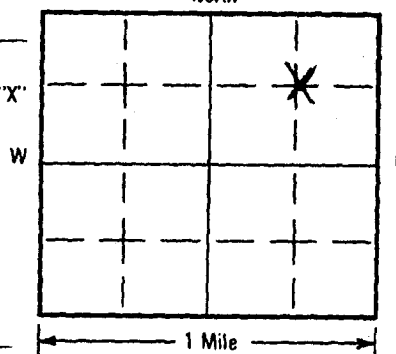
2-14-12

SOUTH DAKOTA WATER WELL COMPLETION REPORT

6907-3
07-92

Location 1/4 NE 1/4 Sec 34 Twp 119N Rg 53W
County Codington

Please mark well location with an "X"



Well Completion Date

7-18-08

LOCATION:

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

PROPOSED USE:

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

METHOD OF DRILLING:

Direct Rotary

CASING DATA: ☐ Steel ☐ Plastic ☒ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>5.4 LB/FT</u>	<u>12 IN</u>	<u>2961 FT</u>	<u>118 FT</u>	<u>18 3/4 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>Packard Cement</u>	<u>75</u>	<u>944 lb./gal</u>	<u>0 ft</u>	<u>100 ft</u>
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure Pressure pull method
2" galv

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 12 IN Length 20 FEET

Material Stainless Steel

Slot Size 10/100 Set From 118 Feet to 138 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:

17TH Table

NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: Jeff Grabow

Business Name: _____

Address: 45451 157th St
South Shore SD 57263

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	2
Sandy clay	2	12
yellow sand dry	12	36
yellow clay	36	126
fine to med gravel	126	138

STATIC WATER LEVEL 2 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: Sub

☐ Bailed

☐ Other

Pumping Level Below Land Surface

90 ft. After 12 Hrs. pumped 500 GPM

100 ft. After 24 Hrs. pumped 500 GPM

If pump installed, pump rate _____ GPM

REMARKS

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MAR - 9 2009
WATER RIGHTS PROGRAM

This well was drilled under license # 1689

And this report is true and accurate.

Drilling firm Kaiser Well Drilling Inc

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder:

Jeff Grabow

Date: 3-6-09

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 1/5, 2012

RECEIVED OF Tim Grabow 15689 456th Ave South Shore SD 57263

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

Fee for Application for Permit No. <u>7305-3</u> to Appropriate Water, to construct and to put water to beneficial use	750	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>7305-3</u>	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	950 00

No. **00216**

By

Shirley D. Erbe
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 5, 2012

Tim Grabow
15689 456th Ave
South Shore SD 57263

Dear Mr. Grabow:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation. In order to complete the application the following is required.

- Enclosed is the aerial photo map submitted with the application. Please outline the 110 acres you are proposing to irrigate.
- Regarding the amount of water claimed, State Statutes limit diversions to 1 cubic feet of water per second (cfs) for each 70 acres irrigated. This would mean that you are allowed approximately 1.57 cfs or 707 gallons per minute to irrigate 110 acres. We understand that in order to accommodate certain irrigation methods, a greater diversion rate is required. Please justify in writing your request for a diversion rate greater than the statutory limit (please explain diversion rate requirement for the project).

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

enclosure



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7305-3, Tim Grabow**

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. 7305-3, Tim Grabow, 15689 456th Avenue, South Shore SD 57263.

The Chief Engineer is recommending APPROVAL of Application No. 7305-3 because 1) there is reasonable probability that there is unappropriated water available, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The wells approved under Permit Ns. 7305-3 will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
February 27, 2012

NOTE: These wells have static water levels very near land surface. There is the potential during wet years for the wells to free flow. In the event of such an occurrence, the wells must be controlled to prevent the waste of water.

REPORT ON WATER PERMIT APPLICATION NO. 7305-3

For Tim Grabow

February 13, 2012

Application No. 7305-3 proposes to appropriate 1.57 cfs (707 gpm) from two existing wells approximately 138 feet deep located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ and the approximately center of the NE $\frac{1}{4}$ of section 34 for irrigation of 110 acres located in the SE $\frac{1}{4}$ of section 34; all in T120N R52W in Codington County and within the former boundaries of the Sisseton Wahpeton Indian Reservation. This application also requests authorization of an additional well (131 feet deep) located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of section 34, T119N R52W to be used for irrigation of the existing lands on Water Permit No. 6907-3 and this application.

AQUIFER – PRAIRIE COTEAU (PCO)

The Prairie Coteau is buried outwash (sand and gravel) that is under artesian conditions at this site. The aquifer is relatively thin in this area and significant drawdown will occur during pumping but the aquifer is prolific and yields over 500 gpm are common. The fluctuation is shown by the observation well hydrographs that will be included with this report. The aquifer underlies 760 square miles and contains an estimated 1.5 million acre-feet of water in storage in Grant and Codington Counties (Hansen, 1990). There are free flowing domestic and some irrigation wells in this area. Care must be taken not to allow these irrigation wells to free flow and waste water especially during wet years when pumping is less and recharge to the system is greater.

The two existing irrigation wells were drilled by Kaiser and LTP Enterprises. The log for the Kaiser well indicates fine sand and medium gravel from 126 feet to 138 feet (12 feet) with a static water level of 2 feet below land surface. The well was pumped at a rate of 500 gpm with a drawdown of about 98 feet. The LTP well was drilled to a total depth of 131 feet and indicated gravel from 117 feet to 131 feet (14 feet) with a static water level of 0.6 feet below land surface. No production data for this well is available at this time. The information on the LTP well was obtained by a phone call on February 13, 2012 and the driller indicated he would send in the well completion report. The LTP drilled well is the well not covered by Water Permit No. 6907-3. The Kaiser well was completed in accordance with SD Well Construction Standards.

The Water Rights Program monitors three observation wells completed into the Prairie Coteau aquifer within three miles of this site. GT-76B is located about two miles north of this application, CD-76D is located about one-half mile northwest of this application and CD-76A is located about two and one-half miles southeast of this application. Water levels for these wells show good response to pumping and also recharge to the aquifer. The seasonal pumping for irrigation causes water level in CD-76D to fluctuate over 55 feet. This is the nearest observation well to the wells used for this application. Additional pumping will cause slightly more fluctuation in the water levels. Even though there is considerable water level fluctuation overall the ground water level has remained relatively stable since 1976 indicating that recharge has been sufficient to maintain withdrawals. Hydrographs for these three observation wells are included with this report (Water Rights, 2012).

This area was very controversial during the late 1970's and early 1980's. There were many complaints concerning water availability for domestic wells. The reason is readily apparent when you look at the hydrographs. Some of the domestic wells were free flowing at the land surface (especially from the area of this permit and extending south). During irrigation these free flowing wells would diminish flow or even cease to flow. Many wells needed a pump to be lowered or placed into the well in order to maintain use. At one time the Water Management Board denied a Water Permit No. 5407-3 for public interest reason in July of 1995. That application would have been located about two miles north of this application.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are three existing irrigation wells within one mile of the wells for this application. Interference will occur and this is shown by the observation well hydrographs. All of these wells have been used for many years and the addition of this permit should not affect the water availability from the aquifer. There may be more drawdown during very dry years because of additional pumping demand but this is not expected to be significantly more than what has occurred in the past. Interference will occur but historically the aquifer has been able to sustain this development without adverse effects.

CONCLUSIONS

1. Water is available from the Prairie Coteau aquifer.
2. The aquifer is under artesian conditions at this site. Drawdown will occur and interference is expected however based upon years of water level record this is not expected to adversely affect the water availability from the aquifer.
3. These are both existing wells. The Kaiser well is covered by Water Permit No. 6907-3 but the LTP well is not. The LTP well needs to be added to this application and existing Water Permit No. 6907-3.
4. Both of these wells may flow during wet years and care should be taken to prevent the waste of water from a free flowing well during the non-irrigation season.
5. Irrigation development in this area was controversial in the past. This mostly concerned domestic wells and the water levels declines created by pumping during the irrigation season. For the last 15 years or so there have been no complaints concerning domestic or irrigation water availability.



James A Goodman

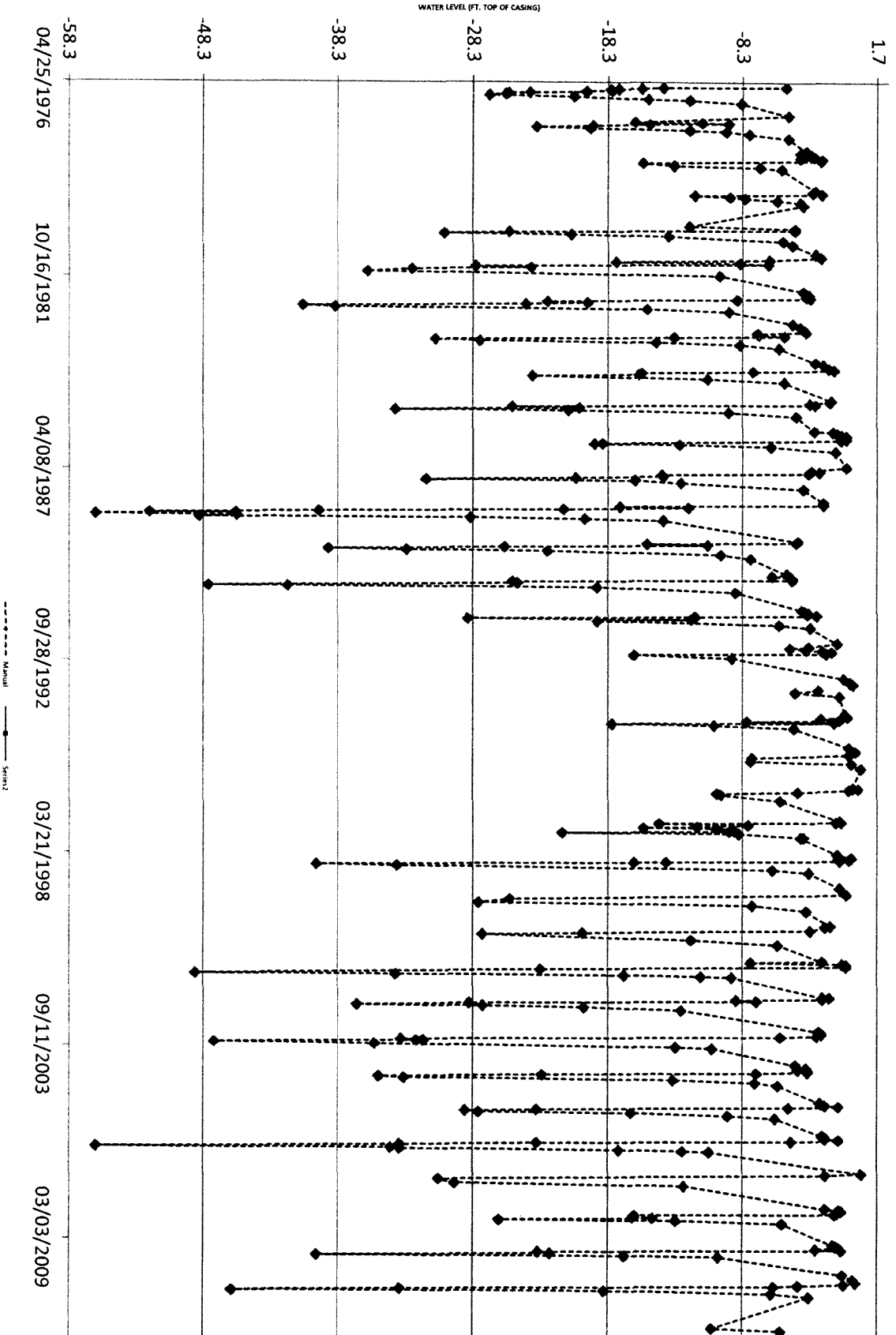
Natural Resources Engineer

BIBLIOGRAPHY

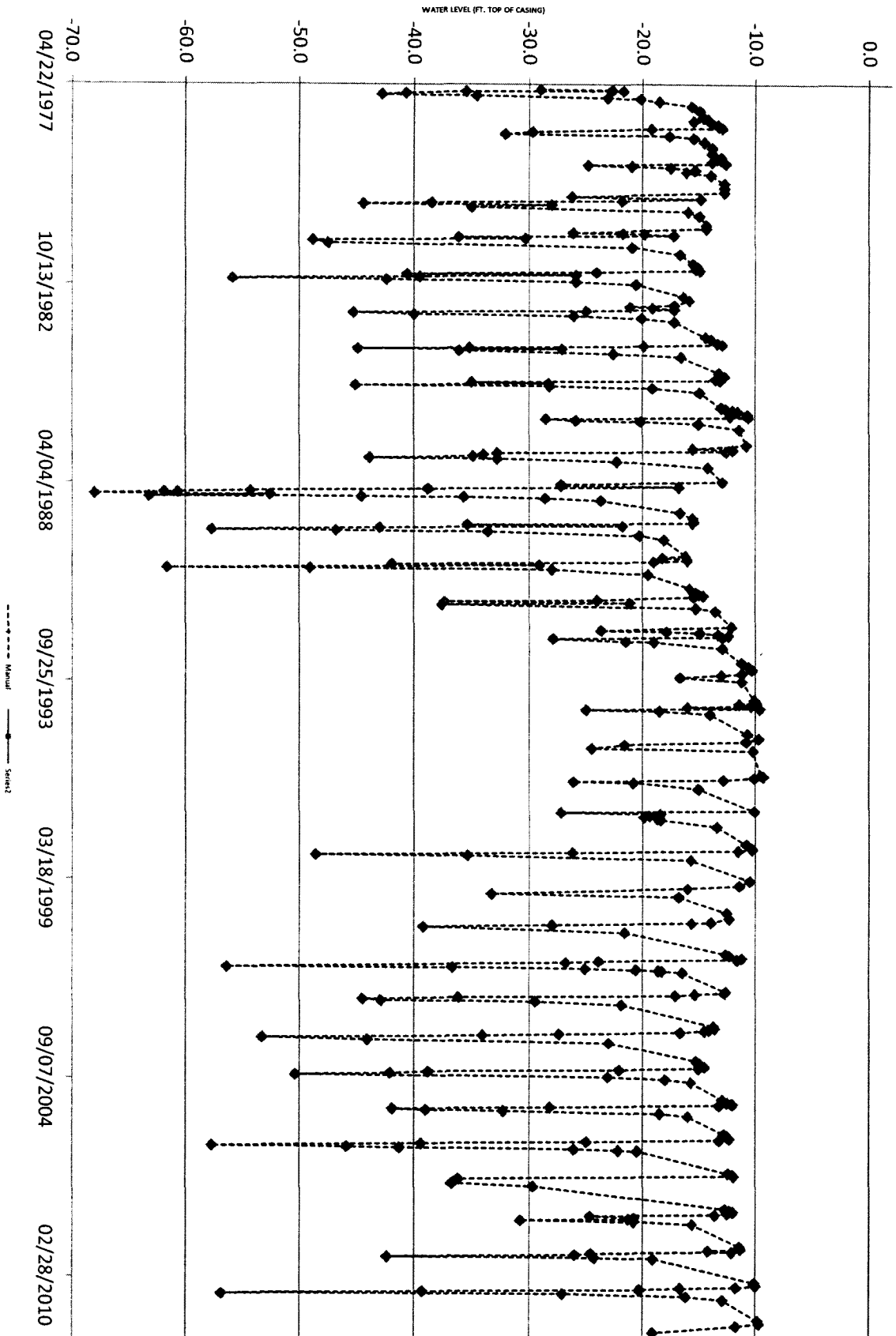
Hansen, D.S., 1990, Water Resources of Codington and Grant Counties, South Dakota, Water Resources Investigations Report 89-4147, USGS, Huron, SD, 57350.

Water Rights, 2012, Unpublished Observation Well Data for the Prairie Coteau Aquifer in Codington and Grant Counties, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

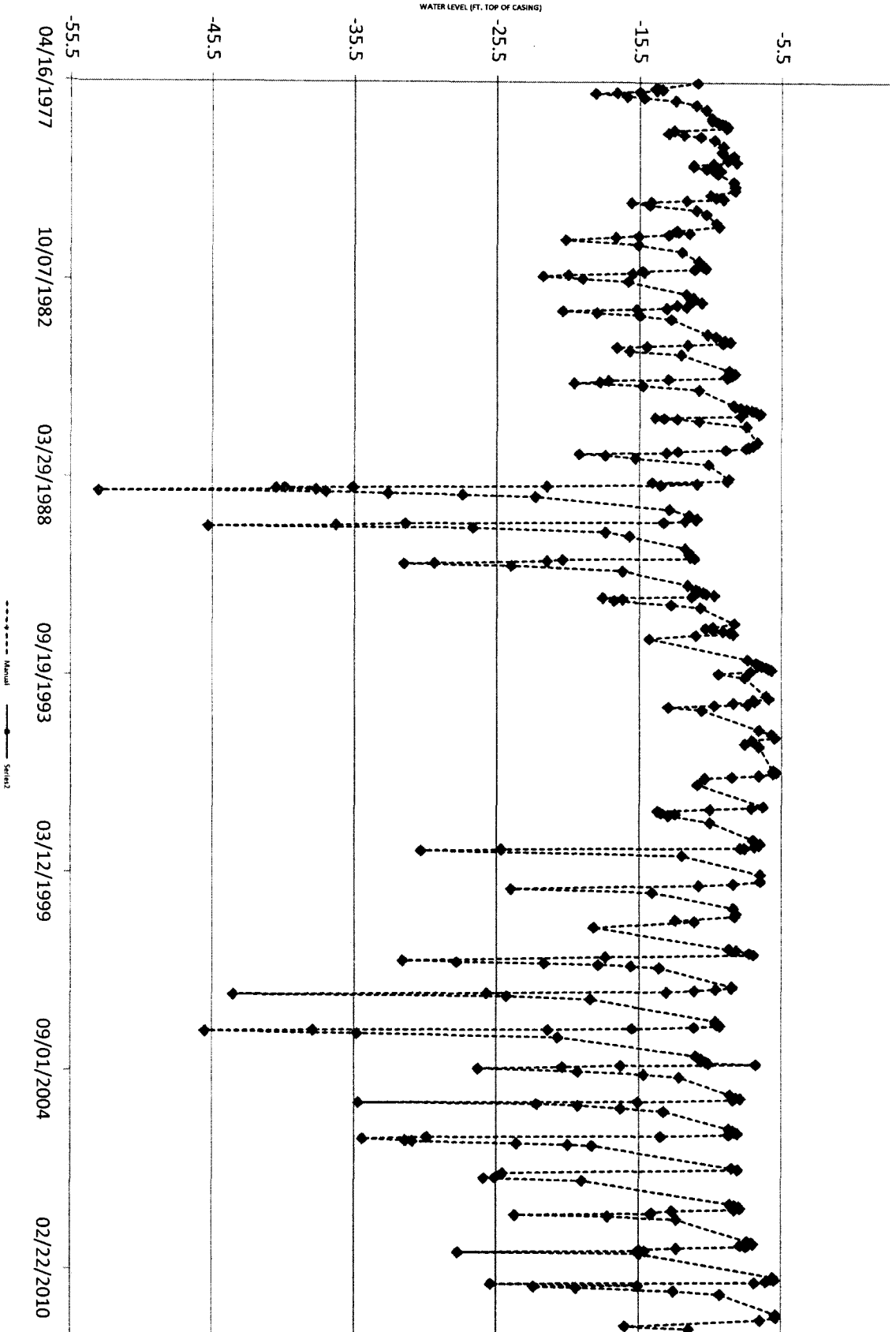
WATER RIGHTS' OBSERVATION WELL CD-76D



WATER RIGHTS' OBSERVATION WELL GT-76B



WATER RIGHTS' OBSERVATION WELL CD-76A



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MAR 21 2012

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Codington) SS

I, Glenn Elmore

certify that the attached printed Notice was
taken

from the Dept. of Environment
and Natural Causes

printed and published in South Shore Gazette
Codington

County of Codington and

state of South Dakota. The notice was
published

in the newspaper on the following two dates:

Mar 8, 2012

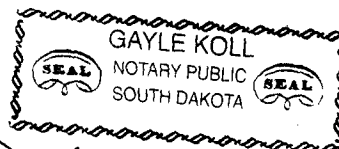
Mar 15, 2012

Cost of Printing \$96.97

Glenn Elmore
(Signature)

Publisher
(Title)

Mar. 20, 2012
(Date Signed)



Gayle Koll

11-12-15

**NOTICE OF APPLICATION NO. 7305-3
to Appropriate Water**

Notice is given that Tim Grabow, 15689 456th Ave, South Shore SD 57263 has filed an application for a water permit to appropriate 1.57 cubic feet of water per second from two wells completed into the Prairie Coteau Aquifer (138 feet deep) located in NE ¼ NE ¼ and the approximate center of the NE ¼ Section 34 for irrigation of 110 acres located in the SE ¼ Section 34; all in T120N-R52W within the former boundaries of the Sisseton Wahpeton Indian Reservation.

The well located near the center of the NE ¼ Section 34 is currently authorized by Water Permit No. 6907-3 held by Jeff Grabow for irrigation of the NE ¼ Section 34 and the NE ½ Section 35, T120N, R52W within the former boundaries of the Sisseton Wahpeton Indian Reservation. This notice also serves to authorize the additional well located in the NE ¼ NE ¼ Section 34 to also irrigate the existing lands for Water Permit No. 6907-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7305-3 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 this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and the 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 26, 2012.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources. Published twice at the total approximate cost of \$96.97. (Publish March 8 & March 15, 2012)



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 28, 2012

South Shore Gazette
PO Box 96
South Shore SD 57263

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7305-3 to Appropriate Water to be published twice. Please publish the first notice on March 8, 2012 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Tim Grabow, 15689 456th St., South Shore SD 57263 (Ph # 605-880-1487).

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. 7305-3

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

Date _____

We are in receipt of your letter of February 28, 2012 enclosing Notice to Appropriate Water by Application No. 7305-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

February 28, 2012

Tim Grabow
15689 456th Ave
South Shore SD 57263

Dear Mr. Grabow:

Water Permit Application No. 7305-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the South Shore Gazette printed at South Shore SD (Ph # 605-756-4247). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendations of the Chief Engineer and reports on the applications are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notices and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the applications.

Sincerely,


Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

cc: Jeff Grabow, 45451 157th St., South Shore SD 57263

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

Instruction to Newspaper - Publish first Notice on March 8, 2012 with the second publication 7 days later. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 7305-3 to Appropriate Water

Notice is given that Tim Grabow, 15689 456th Ave, South Shore SD 57263 has filed an application for a water permit to appropriate 1.57 cubic feet of water per second from two wells completed into the Prairie Coteau Aquifer (138 feet deep) located in NE ¼ NE ¼ and the approximate center of the NE ¼ Section 34 for irrigation of 110 acres located in the SE ¼ Section 34; all in T120N-R52W within the former boundaries of the Sisseton Wahpeton Indian Reservation.

The well located near the center of the NE ¼ Section 34 is currently authorized by Water Permit No. 6907-3 held by Jeff Grabow for irrigation of the NE ¼ Section 34 and the N ½ Section 35, T120N, R52W within the former boundaries of the Sisseton Wahpeton Indian Reservation. This notice also serves to authorize the additional well located in the NE ¼ NE ¼ Section 34 to also irrigate the existing lands for Water Permit No. 6907-3.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7305-3 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 this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief 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 26, 2012.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published twice at the total approximate cost of _____.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

APR 30 2012

Tim Grabow
15689 456th Ave
South Shore SD 57263

Dear Mr. Grabow:

Enclosed is Water Permit No. 7305-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

RECEIVED

OCT - 5 2012

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 10-4-12TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181FROM: Tim Grabow

(name)

15689 456th Ave

(address)

South Shore SD 57263

(city, state, zip)

605-884-8654

(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. 7305-3 states that the water use system is to be constructed by3-26-2017

(date)

, and water is to be put to beneficial use by 3-26-2021

(date)

The water use system was completed on 7-15-2012

(date)

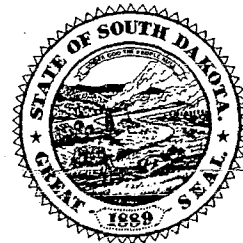
Applying the water to beneficial use was completed on 7-15-2012

(date)

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

Tim Grabow

(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

October 9, 2012

7305-3

Tim Grabow
15689 456th Ave
South Shore SD 57263

Dear Mr. Grabow:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with your irrigation system.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of your project and the staff inspection has no bearing on your water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath". The signature is written in a cursive, flowing style.

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



7305-3

**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

JUN 28 2023

Tim Grabow
15689 456th Ave
South Shore SD 57263

6906-3
7305-3
8076-3

Dear Mr. Grabow:

Enclosed are Water License Nos. 6906-3, 7305-3, & 8076-3. These are the final water right documents completing your process of obtaining Water Rights. Included with your licenses is a map prepared by the staff engineer who conducted the field investigation.

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

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

Sincerely,

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

NOTE: The investigation into Water Right No. 8076-3 found your irrigation system is capable of diverting 1.56 cubic feet of water per second (cfs) (equivalent to 700 gpm). Water Right No. 8076-3 authorizes 0.52 cfs while the remaining 1.04 cfs is authorized by Water Right No. 8077-3.

enclosures

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 7305-3

(1) Tim Grabow; 15689 456th Ave, South Shore SD 57263, made Application No. 7305-3, January 5, 2012, for a water permit to divert 1.56 cubic feet of water per second from ground water, two wells (Prairie Coteau Aquifer), Codington County, South Dakota for irrigation purposes. Permit No. 7305-3, with a priority date of January 5, 2012, was approved March 26, 2012, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before March 26, 2017, and for the application to beneficial use of water on or before March 21, 2021.

The wells authorized for diversion under this Water Right are owned by Jeff Grabow. The construction of the two wells was authorized under Water Permit No. 6907-3.

(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 1.57 cubic feet of water per second for beneficial use. The locations of the diversion points are: *(within former boundaries of the Sisseton Wahpeton Indian Reservation)*

- Well #1: 740 ft S & 1,320 ft W of the NE corner of Section 14, T120N, R52W (NE $\frac{1}{4}$ NE $\frac{1}{4}$)
(Latitude 45.13517 Longitude -97.9889)
- Well #2: 1,325 ft S & 1,320 ft W of the NE corner of Section 14, T120N, R52W (SE $\frac{1}{4}$ NE $\frac{1}{4}$)
(Latitude 45.133421 Longitude -97.14938)

(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 34, T120N, R52W
(within former boundaries of the Sisseton Wahpeton Indian Reservation)
NW $\frac{1}{4}$ SE $\frac{1}{4}$ 32.5 acres
NE $\frac{1}{4}$ SE $\frac{1}{4}$ 33.0 acres
SE $\frac{1}{4}$ SE $\frac{1}{4}$ 18.5 acres
SW $\frac{1}{4}$ SE $\frac{1}{4}$ 26.0 acres
TOTAL: 110.0 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Tim Grabow, the holder and/or owner of Water Right No. 7305-3 is issued a license to appropriate water, the right to use 1.57 cubic feet of water per second from ground water, two wells (Prairie Coteau Aquifer), with priority a priority date of January 5, 2012, from the locations specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7305-3 and subject to the following qualifications:

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

continued

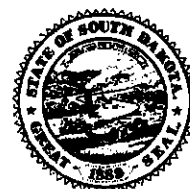
2. This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.

Eric Gronlund

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

JUN 28 2023

date



Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7305-3

I have these days, May 8 and 10, 2023, made a thorough examination of the water use system constructed by Tim Grabow 15689 456th Ave, South Shore, SD 57263 of Permit No. 7305-3, bearing the priority of January 5, 2012, authorizing the diversion of 1.57 cu. ft. per of the waters of Prairie Coteau Aquifer for irrigation purposes, in Codington County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: L. T. P. Enterprises, Inc
- 2) No. of Wells 2 (wells #1 #2)
- 3) Depth(s) 131 & 138 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 12 inches
- 2) Length 117 & 118 feet
- 3) Type steel & PVC

Screen:

- 1) Type Stainless steel
- 2) Length 14 & 20 feet
- 3) Static water level 2 feet

Pump:

- 1) Make Submersibles
- 2) Model Unknown
- 3) Size Unknown
- 4) Capacity 400 (pumping from well #2) GPM

Motor:

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

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

- 1) Type Buried PVC pipe 2) Size 8 inches 3) Length 2,650 feet

Comments: Source WELL #2

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Zimmatic
 2) Overall length 1300 feet
 3) Number of towers 7
 4) End gun Y
 5) Capacity 400 (well#2) GPM

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

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

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: WELL LOCATIONS
From the NE corner Sec 34 T120N R52W, WELL #1: 740 ft S & 1320 ft W, Lat 45.13517, Long -
97.9889 (NE ¼ NE ¼) WELL #2: 1,325 ft S & 1,320 ft W, Lat 45.13342 Long -97.14938 (SE ¼ NE ¼)
2. The works are capable of diverting and conveying to the place of use 1.57 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:
legal description/acreage
 All and in Sec 34 T120N R52W
 NW ¼ SE ¼ – 32.5 acres
 NE ¼ SE ¼ – 33.0 acres
 SE ¼ SE ¼ – 18.5 acres
 SW ¼ SE ¼ – 26.0 acres
 comprising a total of 110.0 acres of land and the license should be issued for 1.57 cfs
3. All structures, wells and lands on map Y

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

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

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

There are two (2) wells in the NE ¼ providing water to two (2) pivots in Section 34 and the pivot in the NW quarter of Section 35.

The mailing address and the telephone number in the permit materials are current.

I talked to Tim (son) during a field visit and with Jeff (Dad) via telephone.



Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: May 11, 2023

NOTE: While the current configuration of the irrigation system only utilizes one well (Well #2) set at 400gps, there is a second well in place (Well #1) that is also authorized was Water Right No. 7305-3 that could be connected. Therefore, the license is to be issued for 1.57 cfs (705gpm). – Eric Gronlund



0 0.15 0.3 0.6 0.9 1.2 Miles

