

Considered: _____

WATER PERMIT NO. 5433-3

Ph # 794-4201

MAP No. _____

Name of Applicant Brookings Deuel RWS

Post Office Address R.R. 2 Box 84 Toronto SD

Amount of Water Claimed 0.44 cfs Total Acres

Source of Water Supply groundwater

Water to be used for rural water system County Brookings

About 4 miles NW of Elkton

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

F.F. & C.L. Adopted _____ Not Approved _____ Deferred _____

PRIORITY _____ Date Received 3/27/90 Fee 250⁰⁰ Remarks third well

in Brookings Deuel RWS well field for additional capacity to provide water
for connection of the City of Elkton

Corrected Application Received _____ Period of Annual Use _____

WATER QUALITY APPROVAL RECEIVED NA APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as Application YES _____ NO _____ REMARKS _____

Diversion Point SE¹/₄ SE¹/₄ - Section 35 - T110N - R48W

Land to be Irrigated NA

		35			

Well Log: Driller Lacey Licensed YES _____ NO _____

Depth of Well 50' REMARKS _____

Type of Map Topo PREPARED BY Bruce Jennings Reviewed and the Number

assigned on 4/4/90 By Eric Hurland

No. 5433-3 Hydrologic Unit 10170202
 Map No. _____ Basin Big Sioux
 Newspaper Bkgs Daily Register Box 177 57006

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use of water: Industrial ☐ Commercial ☐ Municipal ☐ Other Common Distribution System ☐
 Rural Water System ☒ Suburban Housing ☐ Geothermal Heat ☐ Institutional ☐ Recreational ☐
 Domestic ☐ (above 18gpm) Other ☐

Type of Application: Check one or more of the following

New ☒ Vested Right ☐ Future Use ☐ Change Use ☐☐ Amend Permit No. _____ with old priority date retainedChange diversion point(s) ☐ Add diversion point(s) ☐ Other ☐ _____☐ Application to: Change diversion point(s) ☐ Add diversion point(s) ☐ on Permit No. _____☐ Construction to use water reserved by Future Use Permit No. _____1. Name of Applicant Brookings Deuel Rural Water System, Inc. Phone No. 794-4201Post Office Address R.R. 2, Box 84 Toronto State SD 57268
(Street, RR or Box) (City) Zip Code2. Amount of water claimed (c.f.s.) 0.443. Source of water supply Ground water4. Location of point of diversion SE 1/4 SE 1/4, Sec. 35, T110N, R48WCounty Brookings5. Counties where water will be used Brookings, Deuel, Moody6. Annual period during which water is to be used 12-months January 1 - December 31

7. Give a brief description of proposed project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Add a third well to the existing Brookings Deuel Rural Water System well field to provide added capacity. Added capacity is needed to provide water for connection of the City of Elkton.

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (see instruction)

STATE OF SOUTH DAKOTA)
 County of Deuel)^{ss}

I, Douglas Feten, Chairman, Brookings-Deuel Rural Water System 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.

Signed

Subscribed and sworn to before me this 20 day of March 1990

Notary Public

**SOUTH DAKOTA
WATER PERMIT No. 5433-3**

Date of first receipt of application March 27, 1990.

The Water Management Board approved Water Permit Application No. 5433-3 on May 23, 1990 for Brookings-Deuel Rural Water System, Inc., RR. 2, Box 84, Toronto, SD 57268 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. 5433-3 appropriates 0.44 cubic feet of water per second from one well (Big Sioux - Aurora Aquifer) 50 feet deep, located in the SE1/4 SE1/4 Section 35 T110N-R48W. Water is to be used to supply Brookings Deuel Rural Water System. This Permit also adds the City of Elkton to the distribution system of the Brookings Deuel Rural Water System.
2. The water appropriated shall be used for the purpose of adding capacity to enable the system to connect the City of Elkton and may not exceed the amount of water needed for beneficial use for rural water system purposes.
3. The water is to be used during the following described annual period: January 1 - December 31.
4. The date from which applicant may claim right is March 27, 1990.
5. One-fifth of the construction is to be completed on or before November 23, 1992.
6. All construction is to be completed on or before May 23, 1995.
7. Water is to be put to beneficial use on or before May 23, 1999.
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 authorized by Permit No. 5433-3 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 with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.
2. 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.

WATER MANAGEMENT BOARD

By: _____

John B. H. [Signature]
Chief Engineer, Water Rights Division
Department of Water and Natural Resources

SEP 12 1990

(date)

Signature of Applicant

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

Pierre, March 27, 1990

412174

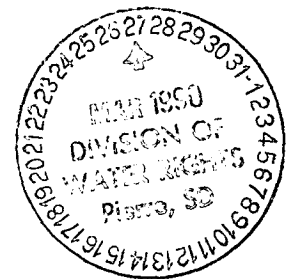
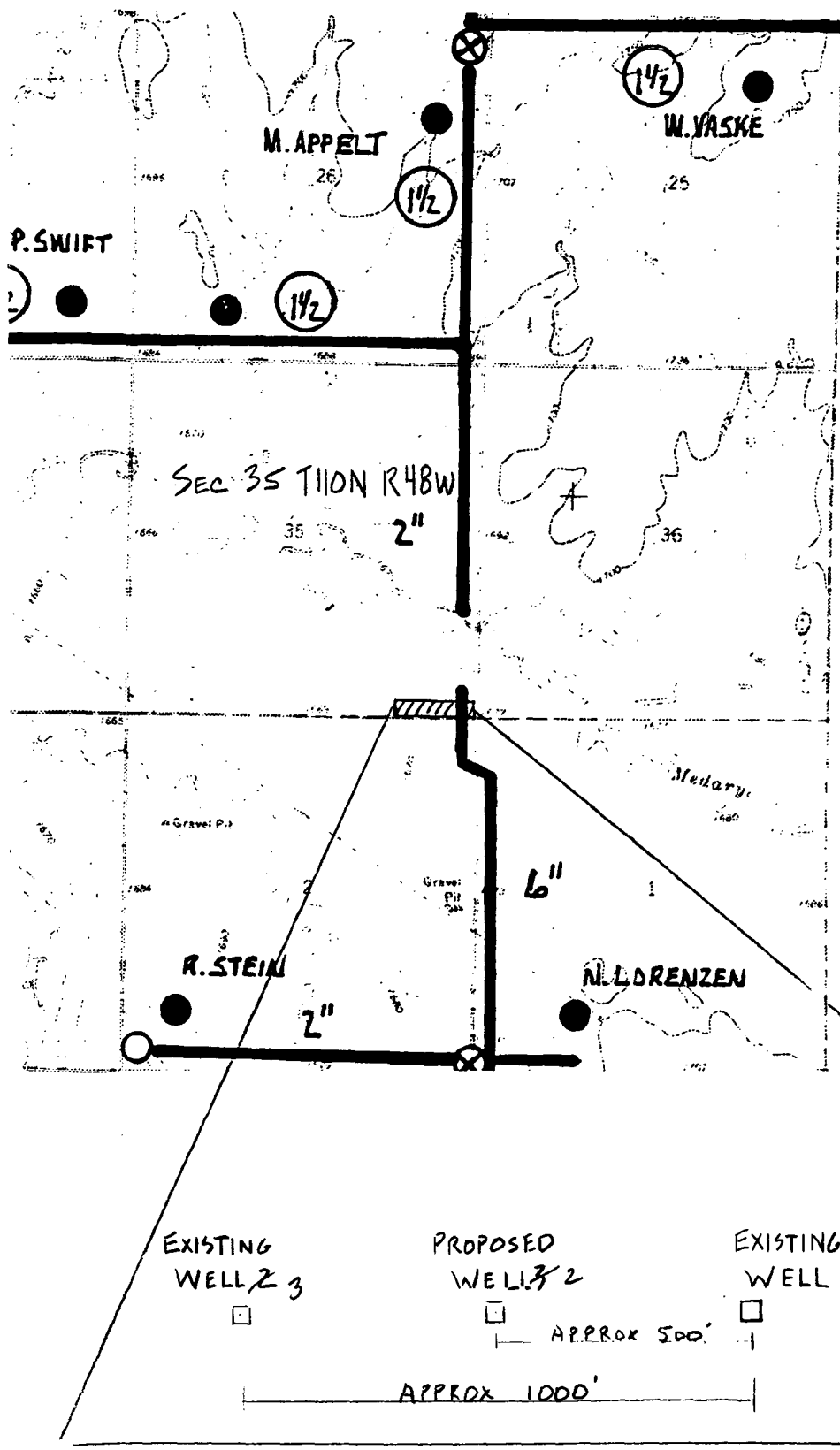
RECEIVED OF Brookings - Deuel Rural Water System, Box 84, Toronto, SD 57268

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

Fee for Application for Permit No. <u>5433-3</u> to Appropriate Water, to construct works 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 Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	250 00

By

John Hatch (inv)
Chief Engineer



I hereby certify that this plan, specification, or report was prepared by me or under my direct personal supervision, and that I am a duly Registered Professional Engineer under the laws of the

State of SOUTH DAKOTA Registration No. 3812

By Bance Jennings Date 3-15-90

SE COR. SEC 35
T11N R48W



DeWild Grant Reckert & Associates Co.
Denver, Colorado
Rock Rapids, Iowa
Sioux City, Iowa
Sioux Falls, South Dakota

Date
Drawn By
Approved
Revised

**BROOKINGS DEUEL
RURAL WATER
ELKTON WELL FIELD**

STATE OF SOUTH DAKOTA
George S. Mickelson, Governor

DEPARTMENT OF WATER AND NATURAL RESOURCES
John J. Smith, Secretary

DIVISION OF GEOLOGICAL SURVEY
Merlin J. Tipton, State Geologist

Open-File Report 46-UR

GROUND-WATER STUDY IN THE ELKTON AREA FOR THE
BROOKINGS-DEUEL RURAL WATER SYSTEM

by

Dennis W. Tomhave

Science Center
University of South Dakota
Vermillion, South Dakota

1988



DRILLING COMPANY: SDGS
DRILLER: M. THOMPSON
GEOLOGIST: D. TOMHAVE
DATE DRILLED: 08-30-1983
GROUND SURFACE ELEVATION: 1715.00 T
TOTAL DRILL HOLE DEPTH: 63.0
WATER RIGHTS WELL:
OTHER WELL NAME:
BASIN: BIG SIOUX
MANAGEMENT UNIT: AURORA
SCREEN TYPE: PVC, MFG.
CASING TYPE: PVC
CASING TOP ELEVATION: 1717.00 T
CASING STICK-UP: 2.00
WELL MAINTENANCE DATE:
USGS HYDROLOGICAL UNIT CODE: 10170202
ELECTRIC LOG INFORMATION:
SPONTANEOUS POTENTIAL:
NATURAL GAMMA:
SAMPLES:

DRILLER'S LOG:
GEOLOGIST'S LOG: X
DRILLING METHOD: ROTARY
TEST HOLE NUMBER: R2-83-123
SDGS WELL NAME: R2-83-123
AQUIFER: BIG SIOUX
SCREEN LENGTH: 5.0
CASING DIAMETER: 2.0
TOTAL CASING AND SCREEN: 45.0
SINGLE POINT RESISTIVITY:
EXTRA:

0	-	2.0	CLAY, BLACK (TOPSOIL)
2.0	-	9.0	GRAVEL, BROWN, MEDIUM; OXIDIZED
9.0	-	28.0	CLAY, GRAY, VERY SILTY, VERY GRAVELLY; UNOXIDIZED (ALLUVIUM)
28.0	-	63.0	GRAVEL, BROWN, COARSE TO VERY COARSE; OXIDIZED, ABANDONED HOLE

* * * *

COUNTY: BROOKINGS
MAP LOCATION: 12
LEGAL LOCATION: SW NW NW SW SEC. 35, T. 111 N., R. 48 W.
LATITUDE: 44.2232
LAND OWNER:
PROJECT: ELKTON/BROOKINGS-DEUEL
DRILLING COMPANY: SDGS
DRILLER: M. THOMPSON
GEOLOGIST: D. TOMHAVE
DATE DRILLED: 08-30-1983
GROUND SURFACE ELEVATION: 1690.00 T
TOTAL DRILL HOLE DEPTH: 65.0
WATER RIGHTS WELL:
OTHER WELL NAME:
BASIN: BIG SIOUX
MANAGEMENT UNIT: AURORA
SCREEN TYPE: PVC, MFG.
CASING TYPE: PVC
CASING TOP ELEVATION: 1692.00 T
CASING STICK-UP: 2.00
WELL MAINTENANCE DATE:
USGS HYDROLOGICAL UNIT CODE: 10170202
ELECTRIC LOG INFORMATION:
SPONTANEOUS POTENTIAL:

LOCATION: 111N-48W-35CBBC
LONGITUDE: 96.3358
DRILLER'S LOG:
GEOLOGIST'S LOG: X
DRILLING METHOD: ROTARY
TEST HOLE NUMBER: R2-83-122
SDGS WELL NAME: R2-83-122
AQUIFER: BIG SIOUX
SCREEN LENGTH: 5.0
CASING DIAMETER: 2.0
TOTAL CASING AND SCREEN: 45.0
SINGLE POINT RESISTIVITY:

USGS HYDROLOGICAL UNIT CODE: 10170202

ELECTRIC LOG INFORMATION:

SPONTANEOUS POTENTIAL:

SINGLE POINT RESISTIVITY:

NATURAL GAMMA:

EXTRA:

SAMPLES:

0	-	29.0	SAND AND GRAVEL, BROWN; GRADES FROM A MEDIUM SAND TO A COARSE GRAVEL
29.0	-	35.0	CLAY, GRAY, SILTY, SANDY, PEBBLY; UNOXIDIZED (TILL)

* * * *

COUNTY: BROOKINGS

LOCATION: 110N-48W-36CCCC

MAP LOCATION: 10

LEGAL LOCATION: SW SW SW SW SEC. 36, T. 110 N., R. 48 W.

LATITUDE: 44.1657

LONGITUDE: 96.3247

LAND OWNER:

PROJECT: ELKTON/BROOKINGS-DEUEL

DRILLING COMPANY: SDGS

DRILLER: C. SCHMIG

DRILLER'S LOG:

GEOLOGIST: D. TOMHAVE

GEOLOGIST'S LOG: X

DATE DRILLED: 08-24-1983

DRILLING METHOD: ROTARY

GROUND SURFACE ELEVATION: 1674.00 T

TOTAL DRILL HOLE DEPTH: 35.0

TEST HOLE NUMBER: R2-83-112

WATER RIGHTS WELL:

SDGS WELL NAME: R2-83-112

OTHER WELL NAME:

BASIN: BIG SIOUX

AQUIFER: BIG SIOUX

MANAGEMENT UNIT: AURORA

SCREEN TYPE: PVC, MFG.

SCREEN LENGTH: 5.0

CASING TYPE: PVC

CASING DIAMETER: 2.0

CASING TOP ELEVATION: 1675.20 T

CASING STICK-UP: 1.20

TOTAL CASING AND SCREEN: 26.5

WELL MAINTENANCE DATE: 08-31-1983

USGS HYDROLOGICAL UNIT CODE: 10170202

ELECTRIC LOG INFORMATION:

SPONTANEOUS POTENTIAL:

SINGLE POINT RESISTIVITY:

NATURAL GAMMA:

EXTRA:

SAMPLES:

0	-	1.0	CLAY, BLACK (TOPSOIL)
1.0	-	30.0	SAND AND GRAVEL, BROWN; GRADES FROM A MEDIUM SAND TO A COARSE GRAVEL
30.0	-	35.0	CLAY, GRAY, SILTY, SANDY, PEBBLY; UNOXIDIZED (TILL)

* * * *

COUNTY: BROOKINGS

LOCATION: 111N-47W-31BBBB

MAP LOCATION: 11

LEGAL LOCATION: NW NW NW SW SEC. 31, T. 111 N., R. 47 W.

LATITUDE: 44.2236

LONGITUDE: 96.3134

LAND OWNER:

PROJECT: ELKTON/BROOKINGS-DEUEL

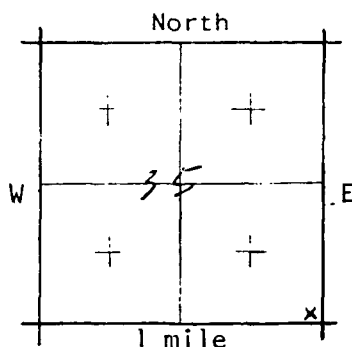
STATE OF SOUTH DAKOTA WELL DRILLERS REPORT

Location SE 1/4 SE 1/4 Sec 35 Twp 110N Rg 48W

County

Brookings

Please mark well location with an "X"

Well Completion Date 11-14-83

PROPOSED USE:

☒ Domestic ☒ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock
Method of Drilling: Hydraulically Driven Casing

WELL CONSTRUCTION:

Diameter of hole 12 inches Depth 31 feetCasing: ☒ Steel ☐ Plastic ☐ Other
Specify _____
 Pipe Weight 50 lb/ft _____ inches _____ feet 23 feet
 _____ lb/ft _____ inches _____ feet _____ feet
Was a well screen used? ☒ Yes ☐ No

If Not Specify _____

Screen Type SS Hi-Q Slot Size 080Length 8' Diameter 12"Was Casing left open end? ☐ Yes ☒ NoWas a Packer or seal used? ☐ Yes ☒ No

If so what material? _____

Was well gravel packed? ☒ Yes ☐ NoWas well grouted? ☒ Yes ☐ NoDescribe grouting procedure filled tosurface from water levelTo what depth? 0-6 FeetWhat was grouting material? CEMENT

If cement, how many sacks? _____

Location of packer(s) and screen or perforated pipe _____

Well Owner:

Name Brookings Vegel PWSAddress Box 810 Brookings SD 57001

Well Log:

Depth

Formation

From

To

<u>Topsoil (Black)</u>	<u>0</u>	<u>1</u>
<u>Yellow Clay</u>	<u>1</u>	<u>4</u>
<u>Sand</u>	<u>4</u>	<u>8</u>
<u>Silty Gravel</u>	<u>8</u>	<u>28</u>
<u>Coarse Gravel</u>	<u>28</u>	<u>31</u>

STATIC WATER LEVEL 6 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other; specify _____

Can well be completely shut off? _____

WELL TEST DATA:

☒ Pumped☐ Bailed

Describe: _____

☐ Other _____

Pumping Level Below Land Surface

22 ft. After 24 Hrs. pumped 200 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

Remarks:

This well was drilled under license # 111

and this report is true and accurate.

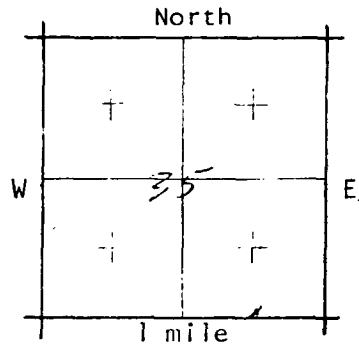
Lacey Well Drilling James J. Lacey
 Drilling Firm Signed by

1-27-84
 Date

STATE OF SOUTH DAKOTA WELL DRILLERS REPORT

Location SE 1/4 Sec 35 Twp 110N Rg 48W

County

BrookingsPlease mark well
location with
an "X"Well Completion Date 1-28-84

PROPOSED USE:

☒ Domestic ☒ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock
Method of Drilling: Hydraulically
Driven False Casing

WELL CONSTRUCTION:

Diameter of hole 20 inches Depth 316 feetCasing: ☒ Steel ☐ Plastic ☐ Other
Specify _____
 Pipe Weight Diameter From To
50 lb/ft 12 inches 0 feet 23 feet
 _____ lb/ft _____ inches _____ feet _____ feet
Was a well screen used? ☒ Yes ☐ No

If Not Specify _____

Screen Type SS Hi Q Slot Size 120
Length 8' Diameter 12"Was Casing left open end? ☐ Yes ☒ NoWas a Packer or seal used? ☐ Yes ☒ No

If so what material? _____

Was well gravel packed? ☒ Yes ☐ NoWas well grouted? ☒ Yes ☐ No

Describe grouting procedure _____

To what depth? _____ Feet

What was grouting material? _____

If cement, how many sacks? _____

Location of packer(s) and screen or perforated
pipe _____WAS WELL PLUGGED OR ABANDONED ☐ Yes ☐ No

If so how and with what material? _____

Well Owner:

Name Brookings Rental RVSAddress Box 810 Brookings SD 57006

Well Log:

Depth

Formation

From

To

Topsoil (Black)01Yellow Clay14Silty Yellow Gravel418Clear " "18316ClaySTATIC WATER LEVEL 6 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other; specify _____

Can well be completely shut off? _____

WELL TEST DATA:

☒ Pumped☐ Bailed

Describe: _____

☐ Other

Pumping Level Below Land Surface

30 ft. After 24 Hrs. pumped 270 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

Remarks:

This well was drilled under license # 111

and this report is true and accurate.

LACEY Well Drilling

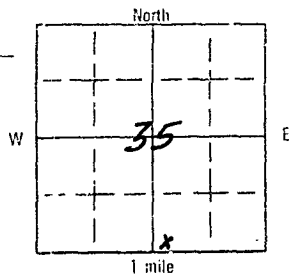
Drilling Firm

Signed by James A. Lacey1-28-84

Date

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

Location SW 1/4 Sec 35 Twp 110N Rg 48WCounty
BrookingsPlease mark well
location with
an "X"Well Completion Date 2-18-91

PROPOSED USE:

- ☒ Domestic ☐ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

FALSE CASING

CASING DATA:

- ☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>50</u> LB/FT	<u>12"</u> IN	<u>+3</u> FT	<u>236"</u> FT	<u>20"</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUT:

Was the well grouted? ☐ YES ☐ NO

To what depth? _____ FEET

What is grouting material? _____

If cement, number of sacks? _____

Describe grouting procedure

VARIANCE
granted. As no place
for grout, top will be sealed
with clay bentonite

What was grout weight? _____ LB/GAL

SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 12 IN Length 7 FEETMaterial SSSlot Size 100" Set From 24 Feet To 31 Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Other information _____

Was a packer or seal used? ☐ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? _____

Was well disinfected upon completion? ☒ YES ☐ NOExplain Chlorinated well packBacteriological analysis ☐ YES ☐ NOLaboratory sent to SDSU

Well Owner:

Name Brookings Devel RWSAddress Box 84, Toronto, SD 57268

Well Log

Depth

Formation

	From	To
<u>SANDY Topsoil</u>	<u>0</u>	<u>2</u>
<u>Y. Clay</u>	<u>2</u>	<u>3</u>
<u>YELLOW GRAVEL</u>	<u>3</u>	<u>16</u>
<u>BROWN GRAVEL</u>	<u>16</u>	<u>26</u>
<u>ROCKS & GRAVEL</u>	<u>26</u>	<u>31</u>

STATIC WATER LEVEL 5'6" Feet

If flowing, closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify _____

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped☐ Bailed

Describe: _____

☐ Other

Pumping Level Below Land Surface

20 ft. After 24 Hrs. pumped 250 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

This well was drilled under license # 111

And this report is true and accurate.

Drilling firm

LACEY Well Drilling

Signature of License Representative:

Signature of Well Owner:

Date

2-27-916/14/91

REPORT ON APPLICATION NO. 5433-3
FOR BROOKINGS DEUEL RURAL WATER SYSTEM
April 13, 1990

This application proposes to appropriate 0.44 cfs from one well approximately 50 feet deep located in the SE 1/4 SE 1/4 of section 35, T110N R48W in Brookings County. The water is to be used to supply the Brookings Deuel Rural Water System. This application also proposes to connect the City of Elkton to the rural water system.

AQUIFER - BIG SIOUX AURORA (BS-A)

The Big Sioux Aurora (BS-A) is a Pliestocene outwash (sand and gravel) which averages 20 - 25 feet in saturated thickness in this area and is under water table conditions (Tomhave, 1988). The BS-A aquifer underlies 39,300 acres and contains an estimated 165,060 acre feet of recoverable water in Brookings County (Hedges, 1982).

The entire Big Sioux aquifer underlies 470 square miles and contains an estimated 1.9 million acre feet of water in Brookings County (Hamilton, 1988). The direction of ground water flow is from east to west in this area (Hamilton, 1989).

The Division of Water Rights monitors an observation well BG-57G which is located about 2 miles down gradient from this site and also BG-80J which is located about 4 miles up gradient from this site. Both wells are completed into the BS-A aquifer. Water levels in this wells show good correlation with climatic conditions, that is rising during wet weather and gradually declining during dry periods. These wells normally fluctuate 1-3 feet per year with a total maximum change of 8 to 12 feet between the highest and lowest readings ever recorded (Water Rights, 1990).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There is one irrigation Right No. 2735-3 with a diversion point approximately 3/4 mile northwest of this application. Interference will not be a problem. Significant drawdowns do not occur in aquifers like the BS-A aquifer. There are two existing rural water system wells in this area. Apparently the new well will be approximately 500 feet from the existing wells. The aquifer is relatively thin in this area and ground water levels can change as much as 10 feet naturally due to climatic effect. During extended drought periods these wells might not produce the amount of water needed. Information in the Tomhave report indicates a 24 hour test was conducted on one of the rural water system wells. The rural water system needs to consider this test data and the historical trends when spacing the production wells.

CONCLUSIONS

1. Water is available from the BS-A aquifer.
2. The BS-A aquifer is under water table conditions in this area and interference with other existing users is not expected to be a problem.
3. The rural water system should consider spacing requirements in order to minimize potential effects upon their own wells. The application indicates there will be 500 feet between wells. This spacing should be adequate; however, during extended drought periods well production may be affected because of the general decline of the water table and the relatively thin saturated thickness.
4. This well must be constructed in accordance with SD Well Construction Standards.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

- Hamilton, L.J., 1988, MAJOR AQUIFERS IN BROOKINGS COUNTY, SD, Inf. Pamphlet No. 40, SD DWR, SDGS, Vermillion, SD, 57069.
- Hamilton, L.J., 1989, WATER RESOURCES OF BROOKINGS AND KINGSBURY COUNTIES, SD, WRI 88-4185, USGS, Huron, SD.
- Hedges, L.S., 1982, EVALUATION OF GROUND WATER RESOURCES EASTERN SD AND UPPER BIG SIOUX RIVER, SD AND IOWA, for US Army Corps of Engineers, SD DWR, SDGS, Vermillion, SD, 57069.
- Tomhave, D.W., 1988, GROUND WATER STUDY IN THE ELKTON AREA FOR THE BROOKINGS-DEUEL RURAL WATER SYSTEM, UR-46, SD DWR, SDGS, Vermillion, SD, 57069.
- Water Rights, 1990, OBSERVATION WELL RECORDS FOR THE BS-A AQUIFER IN BROOKINGS COUNTY, SD DWR, Div. of Water Rights, Pierre, SD, 57501.

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5433-3, Brookings Deuel Rural Water System, Inc.

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 5433-3, Brookings Deuel Rural Water System, Inc., RR 2, Box 84, Toronto SD.

The Chief Engineer is recommending APPROVAL of Application No. 5433-3 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) in the public interest with the following qualifications:

1. The well authorized by Permit No. 5433-3 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 with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.
2. 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.

See the attached report for additional information.



JOHN HATCH, Chief Engineer
April 13, 1990

 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 19, 1990

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

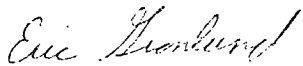
Douglas Feten, Chairman
Brookings Deuel Rural Water System
RR #2 Box 84
Toronto, SD 57268

Dear Mr. Feten:

Water Permit Application No. 5433-3 for rural water system use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publishers of the Daily Register, Moody Co. Enterprise, Clear Lake Courier, Hamlin Co. Herald Enterprise and the Lake Preston Times printed at Brookings, Flandreau, Clear Lake, Hayti and Lake Preston SD respectively. For your information, a copy of the notice is enclosed. Copies of the report and the Chief Engineer's recommendation will be sent to you at a later date. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspapers to authorize publication of your Notice of Intent to Appropriate Water and to arrange for payment. Early contact with the papers can eliminate delays. The publishers have 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. We must receive Proof of Publication before the application can be considered by the Water Management Board.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

Instruction to Newspaper - Publish first Notice on or before April 26, 1990 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5433-3 to Appropriate Water

Notice is given that Brookings Deuel Rural Water System, Inc., RR #2 Box 84, Toronto, SD 57268 has filed an application for a water permit to appropriate 0.44 cubic feet of water per second from one well 50 feet deep located in the SE1/4 SE1/4 Section 35-T110N-R48W. Water is to be used to supply Brookings Deuel Rural Water System. This application also proposes to connect the City of Elkton to the distribution system of the Brookings Deuel Rural Water System.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5433-3 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. This application will be considered by the Water Management Board in the Pelican Room, Ramkota Inn, Hwy 212, Watertown, SD on May 23, 1990 at 10:00 am. 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.

Any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by May 11, 1990. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)". 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 legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. 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. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by May 11, 1990.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 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; 46-5-1 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; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 19, 1990

Moody Co. Enterprise
Box 71
Flandreau, SD 57790-0071

ATTN: Legal Publications:

Enclosed is a Notice of Hearing on Application No. 5433-3 to be published twice. Please publish the first notice on or before April 26, 1990 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 Brookings Deuel Rural Water System, Inc., RR #2 Box 84, Toronto, SD 57268.

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

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Sincerely,

Eric Gronlund

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

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

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Notice of Hearing to Appropriate Water by Application No. _____ which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
 County Moody) ss.

I, Angela Nibbelink

certify that the attached printed Notice was taken
 from the Moody County Enterprise

A newspaper which during the whole time of publication of
 said notice herein after stated, has been and is printed and
 published in the city of Flandreau

_____ of _____

County of Moody and State of South Dakota;
 that the said notice was published in said newspaper on the
 following two dates:

April 25, 1990

May 2, 1990

Angela Nibbelink
 (Signature)

Bookkeeper
 (Title)

May 3, 1990
 (Date Signed)

This application is made pursuant
 to SDCL 46-1-1 thru 46-1-9, 46-1-12
 thru 46-1-15; 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; 46-5-1
 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; and Board Rules AR-
 SD 74:02:01:01 thru 74:02:01:15.
 (April 25 & May 2, 1990)

Cost of Printing: 36.00

NOTICE OF HEARING **On Application No. 5433-3** **to Appropriate Water**

Notice is given that Brookings Deuel Rural Water System, Inc. RR No. 2 Box 84, Toronto, SD 57268 has filed an application for a water permit to appropriate 0.44 cubic feet of water per second from one well 50 feet deep located in the SE¼ SE¼ Section 35-T110N-R48W. Water is to be used to supply Brookings Deuel Rural Water System. This application also proposes to connect the City of Elkton to the distribution system of the Brookings Deuel Rural Water System.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5433-3 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. This application will be considered by the Water Management Board in the Pelican Room, Ramkota Inn, Hwy 212, Watertown, SD on May 23, 1990 at 10:00 a.m. 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.

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Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 19, 1990

Daily Register
Box 177
Brookings, SD 57006-0177

ATTN: Legal Publications:

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Sincerely,

Eric Gronlund

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

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

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Notice of Hearing to
Appropriate Water by Application No. _____ which was first published in our issue
of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper

Affidavit of Publication

State of South Dakota

County of Brookings

ss

Rob James

of said county, being first duly sworn, on oath, says: That he is one of the editors of THE BROOKINGS REGISTER, a daily newspaper, printed and published in the City of Brookings, in said County of Brookings, and State of South Dakota; that he has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper and has a bona fide circulation of at least two hundred copies of each issue daily; that said newspaper has been published within the said County of Brookings and State of South Dakota, for more than one year next prior to the first publication of Exhibit "A," hereto attached and herein mentioned, and was and is printed in the office maintained at said place of publication; and that the

Legal #214

91 lines @ .425

a printed copy of which, taken from the paper in which the same was published, is hereto attached marked Exhibit "A," and is made a part

of this affidavit, was published in said newspaper for two

successive week. S., to-wit:

April 26 19. 90 19.
May 3 19. 90 19.
..... 19. 19.
..... 19. 19.

That the full amount of the fee charged for the publication of said Exhibit "A" inures to the sole benefit of the publishers of said newspaper; 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; that the fees charged for the publication thereof are:

Thirty eight dollars and sixty eight cents Dollars

Subscribed and sworn to before me this 3rd day of

May 19. 90

Jennifer Klingbale

Notary Public in and for the County of Brookings, South Dakota.

My Commission expires 19.

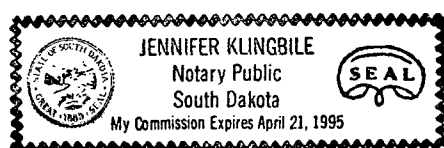


Exhibit "A"

Legal 214, 2x, April 26, May 3
NOTICE OF HEARING on
Application No. 5433-3 to
Appropriate Water

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PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
 County Deuel) ss.

I, Gary DeJong



certify that the attached printed Notice was filed
 from the Clear Lake Courier

A newspaper which during the whole time of publication of
 said notice herein after stated, has been and is printed and
 published in the _____

city _____ of Clear Lake

County of Deuel and State of South Dakota;
 that the said notice was published in said newspaper on the
 following two dates:

April 25 1990

May 2 1990

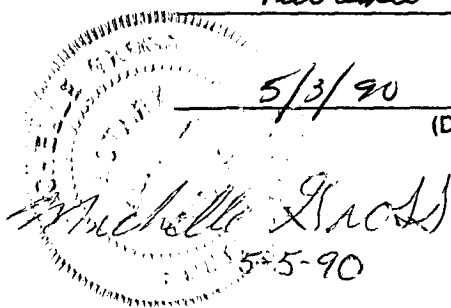
Gary DeJong
 (Signature)

Publication

(Title)

5/3/90

(Date Signed)



My Commission Expires
 January 29, 1998

Cost of Printing: 35.96

NOTICE OF HEARING
 ON APPLICATION NO. 5433-3
 TO APPROPRIATE WATER

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Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 19, 1990

Clear Lake Courier
Box 277
Clear Lake, SD 57226

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Sincerely,

Eric Gronlund

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

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

No. _____

Date _____

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Appropriate Water by Application No. _____ which was first published in our issue
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Name

Newspaper



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 19, 1990

Lake Preston Times
Box 368
Lake Preston, SD 57249

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Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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Newspaper



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

April 19, 1990

Hamlin Co. Herald Enterprise
Box 207
Hayti, SD 57241-0207

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enclosures

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

Name

Newspaper



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

May 9, 1990

Douglas Feten, Chairman
Brookings Deuel Rural Water System
RR 2, Box 84
Toronto SD 57268

Dear Mr. Feten:

Enclosed is the Report and Recommendation of the Chief Engineer
for Water Permit Application No. 5433-3.

Sincerely,

A handwritten signature in cursive script that reads "Karen Schlaak".

KAREN SCHLAAK
Senior Secretary
Water Rights Division
605 773-3352

enclosures



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

5433-3

SEP 12 1990

Douglas Feten, Chairman
Brookings-Deuel Rural Water System, Inc.
RR #2 Box 84
Toronto, SD 57268

Dear Mr. Feten:

Enclosed is Water Permit No. 5433-3 as approved by the Water Management Board authorizing you to construct your water diversion system and put the water to beneficial use, not exceeding the limits as specified in the Water Permit.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,

A handwritten signature in dark ink, appearing to read "John Hatch". The signature is written in a cursive, flowing style.

JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

enclosures

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period - i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.



BROOKINGS-DEUEL

Rural Water System, Inc.

R.R. 2 Box 84

Toronto, South Dakota 57268

(605)794-4201

June 24, 1991



Department of Environment and
Natural Resources
Water Rights Division
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3181

Dear Ken:

Enclosed is the notice of completion for 5433-3. Also enclosed is water analysis done at the time the well was drilled.

Site work and control connections have just been completed.

If you have any questions, feel free to contact me.

For the Brookings-Deuel Rural Water System,

Pat Gilligan
JST

Pat Gilligan, Manager

PG:lt

Enclosure

Deutscher

DEC 18. 1990
90-1504

WATER ANALYSIS

Calcium (Ca)	72	ppm*	3.59	me/l**
Magnesium (Mg)	22	ppm	2.63	me/l
Sodium (Na)	6	ppm	0.35	me/l
Potassium (K)	2	ppm	0.05	me/l
Sulfate (SO ₄)	69	ppm	0.81	me/l
Nitrate (as N)	0.50	ppm***	0.47	me/l
Chloride (Cl)	1	ppm	0.05	me/l
Bicarbonate (HCO ₃)	307	ppm	3.04	me/l
Carbonate (CO ₃)	0	ppm	0.00	me/l
Iron (Fe)	0.09	ppm	0.00	me/l
Fluoride (F)		ppm		me/l
Manganese (Mn)	0.00	ppm		
Boron (B)		ppm		
Hardness (ELTA as CaCO ₃)	311	ppm	12.19	g.p.p.g.**
Total Solids		ppm		
Total Cations			6.62	me/l
Total Anions			6.35	me/l
Alkalinity (Methyl Orange)	252	ppm(as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm(as CaCO ₃)		
Electrical Conductivity	570	micromhos per cm at 25 C		
Sodium Adsorption Ratio	0.20	Adjusted SAR	0.46	
Sodium	5.25	% of Cations		
Residual Sodium Carbonate	0.00	me/l		
pH	7.87			

*ppm=parts per million

***6 p.p., grains per gallon

*mg/l=millequivalents per liter

CURRENTS

#3 Ekaterina

Analysis By: Shirley Kitten

***Recommended Maximum Contaminant Level of 10 ppm for Human Consumption.

Service Performed:

Total Cost: \$ 27.50

Amount Received: 0.00

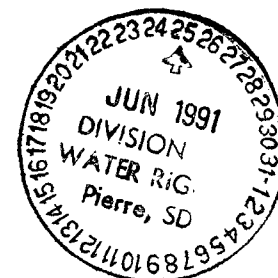
Analyses Requested

Balance Due,	27.50
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Make checks payable to: SDG&U Water Quality Lab

Please write lab number on your check!

Lab No. 90-1804



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

Date June 24, 1991

TO: Water Rights Division, DWR
Joe Foss Building
Pierre, SD 57501-3181

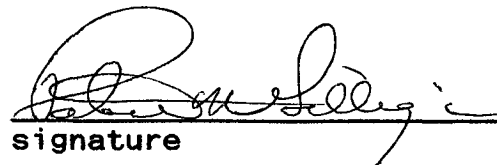
FROM: Brookings-Deuel Rural Water System, RR2 Box 84, Toronto, SD 57268
name address city

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 5433-3.

Water Permit No. 5433-3 states that the diversion system is to be constructed by _____, and that the water is put to beneficial use by _____.

The diversion system was completed on June 20, 1991
Applying the water to beneficial use was completed on June 20, 1991.

You may schedule an inspection so that the Water License may be issued.


signature

BmCB #5

NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate May 20 1991TO: Water Rights Division, DWNR
Joe Foss Building
Pierre SD 57501-3181FROM: Brookings - Devel RWS Box 44 Toronto S.D. 57268
name address city

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 5433-3.

Water Permit No. 5433-3 states that the diversion system is to be constructed by May 23 1995, and that the water it put to beneficial use by May 23 1999.

The diversion system was completed on May 20 1991.
Applying the water to beneficial use was completed on May 20 1991.

You may schedule an inspection so that the Water License may be issued.

B. J. Leeg Mgr
signature

Permit No. 5433-3
X 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, 8 May 1996, made a thorough examination of the water use system constructed by Brookings Deuel Rural Water System Inc. of RR2 Box 84 Toronto, SD holder of Permit No. 5433-3, bearing the priority of 27 March 1990 authorizing the diversion of 0.44 cu. ft. per second of the waters of Big Sioux Aurora Aquifer for rural water system purposes, in the rural water system service area and Brookings County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

One 31 foot well drilled by Lacey Drilling with 7 feet of stainless steel screen. Mr. Gilligan, manager , reports that the present system will produce 0.44 cfs of water.

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

C. Works used to apply water to beneficial use:
rural water system mains of various sizes

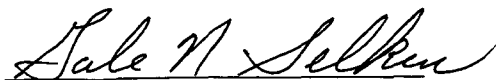
The system is in the following condition **good**. The point of diversion is located SE1/4SE1/4 section 35 T110N R48W or approximately 100 feet north and 1100 feet west of the southeast corner of section 35 T110N R48W. Distances are approximate. The works are capable of diverting and conveying to the place of use 0.44 cu. ft. per second of water which is to be used for rural water system use. Water has been put to beneficial use to the maximum extent as follows:

Water is pumped and utilized at 0.44 cfs for rural water system use. This permit also provides water for the City of Elkton.

the license should be issued for 0.44 cfs.

Applicable permit qualifications have been complied with: Yes **X**

Date Report Completed: 8 May 1996



Gale N. Selken, P.E.
Natural Resources Engineer
DENR, Water Rights Program

REPORT ON INSPECTION OF PERMIT NO. 5433-3

Other permit(s) associated with the project: XXXX

DATE OF INSPECTION: 8 May 1996

NAME & ADDRESS OF INSPECTION CONTACT/ Pat Gilligan

RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE: manager

NAME & ADDRESS OF PERMIT HOLDER: Brookings Deuel Rural Water System Inc. RR2 Box 84
Toronto, SD 57268

DIVERSION POINT LEGAL LOCATION: SE1/4SE1/4 section 35 T110N R48W or approximately
100 feet north and 1100 feet west of the southeast corner of section 35 T110N R48W. Distances
are approximate as the legal section corner was not physically located and the distances were
measured from a not to scale map.

WELL INFORMATION:

- 1) Well Drilling Firm: Lacey Well Drilling
- 2) No. of Wells one
- 3) Depth(s) 31 feet
- 4) Well log is available yes
- 5) Comment: Well was not grouted but was granted a variance as the aquifer starts at the
surface. The top of the hole was sealed with clay and bentonite grout.

Casing:

- 1) Diameter 12 inches
- 2) Length 24 feet
- 3) Type steel

Screen:

- 1) Type stainless steel
- 2) Length 7 feet
- 3) Static water level not measured feet

Pump:

- 1) Make Jacuzzi (reported)
- 2) Model XXXX
- 3) Size XXX

- 4) Capacity 198 gpm or 0.44 cfs

Motor:

- 1) Make Johnson
- 2) Model No. XXX
- 3) Horsepower rating 10 hp

DISTRIBUTION LINES OR CANALS:

Rural water system mains and distribution lines of various sizes

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Soil and water permit lands agree with lands being irrigated and lands listed on permit na
- 2) Special qualifications to permit being abided by yes
- 3) All structures, wells and lands on map yes
- 4) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period na

Sal N. Selken



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

April 4, 1997

5433-3
5434-3
5602-3

Patrick Gilligan, Manager
Brookings-Deuel RWS
RR 2, Box 84
Toronto, SD 57268

Dear Mr. Gilligan:

The investigation of your water use system, including the extent of application of water to beneficial use, as developed under Water Permit Nos. 5433-3, 5434-3 and 5602-3, has been completed. Your final water right documents, the Water Licenses, can now be issued.

Statutes require that we charge a \$50.00 fee per license for the investigation and issuance of the Water License. Upon receipt of the \$50.00 fee per license (\$150.00 total) from you, we will begin processing your Water Licenses.

**Please remit fee to:
Department of Environment & Natural Resources
Water Rights Program
523 E. Capitol
Pierre, SD 57501-3181**

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Program
(605) 773-3352

NOTE: On check or money order, please specify your permit numbers. This will insure proper handling of the fee.

RECEIPT

415310

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, April 11, 19 97

RECEIVED OF Brookings-Deuel Rural Water System, RR 2, Box 84, Toronto SD 57268

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. <u>5433-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	

By

John Hatch
Chief Engineer

JOHN HATCH

(ks)

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5433-3

(1) The Brookings-Deuel Rural Water System, Inc., RR 2 Box 84, Toronto, SD 57268 made Application No. 5433-3, March 27, 1990 for a water permit to divert 0.44 cubic feet of water per second from ground water (one well - Big Sioux Aurora aquifer), Brookings County, South Dakota for rural water system purposes. Permit No. 5433-3, with a priority date of March 27, 1990 was approved May 23, 1990 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 23, 1995 and for the application to beneficial use of said water on or before May 23, 1999.

The permit holder submitted a "Notice of Completion of Works and Application of Water to Beneficial Use" on May 22, 1991. The "Notice" stated the diversion system was completed and the water applied to beneficial use on May 20, 1991.

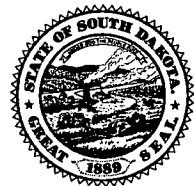
(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.44 cubic feet of water per second for beneficial use. The location of the diversion point is approximately 100'N and 1100'W of the SE corner of Section 35, T110N, R48W (SE¼ SE¼).

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use in supplying the Brookings Deuel Rural Water System and the addition of the City of Elkton to the distribution system.

(4) Pursuant to South Dakota Water Law 46-5-30.1 the Brookings-Deuel Rural Water System, RR 2 Box 84, Toronto, SD 57268 the holder and/or owner of Water Permit No. 5433-3 is issued a license to appropriate water, the right to use 0.44 cubic feet of water per second from ground water (one well) with a priority date of March 27, 1990 from the location specified in (2) of this license, for rural water system purposes. This license is subject to any limitations or qualifications listed in Water Permit No. 5433-3 and subject to South Dakota State Law.


JOHN HATCH, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JUN 12 1997
date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

JUN 12 1997

5433-3
5434-3
5602-3

Pat Gilligan, Manager
Brookings-Deuel Rural Water System
RR 2, Box 84
Toronto, SD 57268

Dear Mr. Gilligan:

Enclosed are Water License Nos. 5433-3, 5434-3 and 5602-3. These are the final water right documents completing your process of obtaining a Water Right. Enclosed are Receipt Nos. 415310, 415311 and 415312 in the amount of \$50.00 each which you paid for the investigation and issuance of the Water Licenses.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the wells authorized by Water Right Nos. 5433-3, 5434-3 and 5602-3, 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 Licenses, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Program
(605) 773-3352

gm
enclosures

NOTE: The applicable portions of Water Permit No. 2612-3 and Water Right No. 2612A-3 are incorporated into this Water License No. 5434-3.