

WATER PERMIT NO. 7279-3

Name of Applicant: H.T. Albrecht & Sons, Inc.

Address: 43314 215th St, DeSmet SD 57231 Phone: 605 860-1616

Amount of Water Claimed: 1.92 cfs Total Acres: 135 acres

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation County: Kingsbury

Type of Waste Disposal System: na

Location: 6 miles south of DeSmet

PRIORITY Date Received: 11-17-11 Application/License Fee: \$1,050

Corrected Application Received: Period of Annual Use: May 1 – October 1

Remarks:

Diversion Point: center of NE ¼ Sec 35-T110N-
R56W

Land to be Irrigated: NE ¼ Sec 35-T110N-R56W

Depth of Well: 60

Well Driller: Pullman Well Drilling

Remarks:

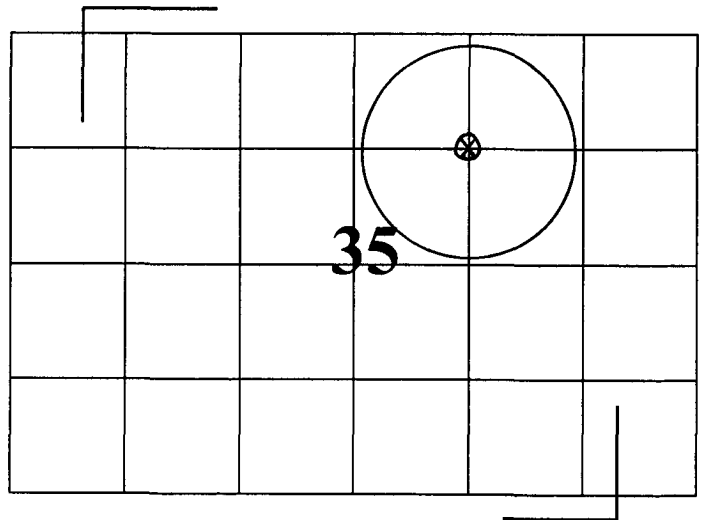
Type of Map: aerial

Prepared by: Rochelle Stout, Kingsbury Co FSA

Reviewed and the Number Assigned on: 11-17-11

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



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

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	(office use only)	
	No. <u>7279-3</u>	Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>	
	Newspaper <u>De Smet News PO Box 69</u> <u>605-854-3331</u> <u>57231</u>	

RECEIVED
NOV 17 2011
 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 H. T. Albrecht & Sons, Inc. Phone 605 860-1616

 (check one) ☒ Owner ☐ Tenant/lessee

 Mailing Address 43314 215th St De Smet SD 57231
 (Address) (City) (State) (Zip Code)

 2. Amount of water claimed 1.92*CFS or 860 **GPM ***AF Total Acreage 135
 (*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 Kingsbury

1 Well in NE1/4 section 35- T110N-R56W (approximate center)

 5. County or counties where water will be used Kingsbury

 6. Annual period during which water is to be used May 1 thru Oct 1

 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
NE 1/4 35-110N-56W	135		

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

This will be a new irrigation system for the purpose of growing farm commodities

STATE OF SOUTH DAKOTA)

 County of Kingsbury)

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, H.T. Albrecht & Sons, Inc., 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 Bill Albrecht, Sec.

 Subscribed and sworn to before me this 16th day of November 20 11

 My Commission Expires
 9-29-2017

Ann Buckmiller
 Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 7279-3**

Date of first receipt of application November 17, 2011.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7279-3 to H.T. Albrecht & Sons, Inc., 43314 215th St, DeSmet SD 57231 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. 7279-3 appropriates 1.92 cubic feet of water per second from one well completed into the Vermillion:East Fork Aquifer (60 feet deep) located in center of the NE ¼ Section 35 for irrigation of 135 acres located in the NE ¼ Section 35; all in T110N-R56W.
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 – October 1.
3. The date from which applicant may claim right is November 17, 2011.
4. The date of approval of Permit No. 7279-3 is January 2, 2012.
5. One-fifth of the construction is to be completed on or before July 2, 2014.
6. All construction is to be completed on or before January 2, 2017.
7. Water is to be put to beneficial use on or before January 2, 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 well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7279-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

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

JAN 18 2012
date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth 60'
- b) Casing Type _____ Diameter 16" Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:

On applicant's property None

On property owned by others 2840' / 2400'

2. Wastewater Disposal System Information

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

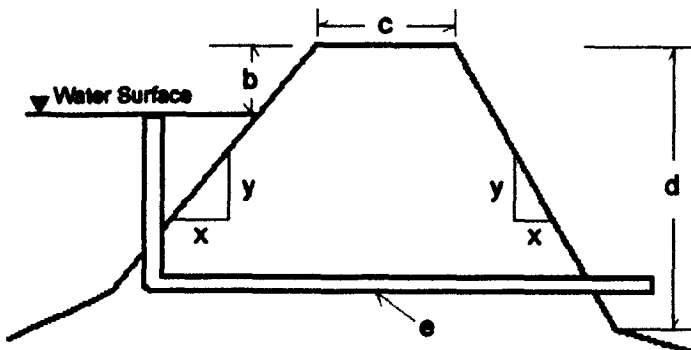
3. Dugout Information

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

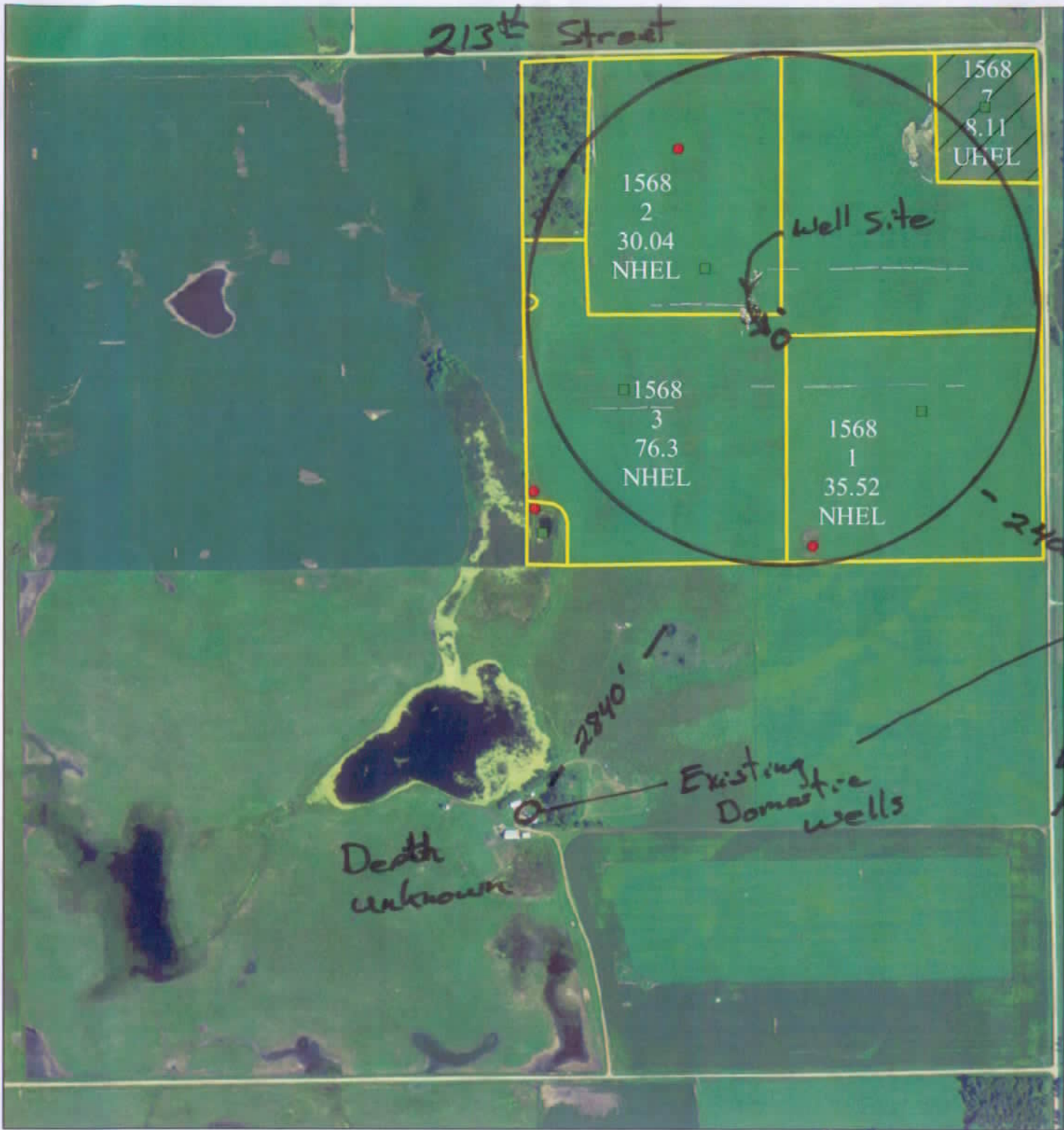
4. Water Storage Dams

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

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



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



United States Department of Agriculture
Farm Service Agency

PLSS: 35_110N_56W
Farm: 5521

Kingsbury County, SD
1:8,333

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NOV 17 2011

WATER RESOURCES
PROGRAM

2008 Ortho-Photography - Not to Scale

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

Common Land Units
 Non Cropland

Rockwell Street
 April 01, 2011
PT for Kingsbury Co.

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the wetland. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 35 Twp 110 Rg 56

County

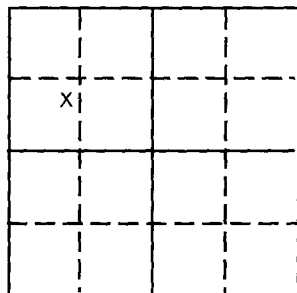
Kingsbury

North

Please mark well location with an "X"

W

E



Well Completion Date

11/18/2011

Distance to 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 Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	3.00 IN	0.0 FT	40.0 FT	5.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Vol Clay	3	Lb/gal	0.0 Ft	40.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure _____

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 3.00 Inches Length 20.0 FeetMaterial Sch 80 3" PvcSlot Size 0.057 Set From 40.0 Feet to 60.0 Feet

Other information _____

WAS A PACKER OR SEAL USED?

☒ Yes ☐ No
If so, what material? Pearock

Describe packer(s) and location

40-60ft

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How? _____

☐ No, Why Not? _____

Lab sample sent to for water quality analysis

Well Owner: Henry AlbrechtBusiness Name: H.T Albrecht & SonsAddress: 43314 215th StCity, State, Zip: DeSmet SD 57231

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	6
Yellow Gravel	6	15
Yellow Clay	15	20
Blue Clay	20	22
Sandy Yellow Clay	22	40
Course Sand and PeaRock	40	60
Blue Clay	60	80

STATIC WATER LEVEL 19.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped Describe: _____
☐ Bailed
☐ Other _____

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

This well was drilled under license # 440

And this report is true and accurate.

Drilling firm: Pullman Well Drilling Inc

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

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NOV 29 2011

WATER RIGHTS PROGRAM

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 11/17, 20 11

RECEIVED OF H T Albrecht & Sons Inc 43314 215th St DeSmet SD 57231

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

Fee for Application for Permit No. <u>7279-3</u> to Appropriate Water, to construct and to put water to beneficial use	850	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>7279-3</u>	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	1050 00

No. **05075**

By Laurel 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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7279-3, H. T. Albrecht & Sons, Inc.**

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. 7279-3, H. T. Albrecht & Sons, Inc., 43314 215th Street, DeSmet SD 57231.

The Chief Engineer is recommending APPROVAL of Application No. 7279-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7279-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
December 2, 2011

REPORT ON WATER PERMIT APPLICATION NO. 7279-3

For H.T. Albrecht & Sons, Inc.

November 28, 2011

Application No. 7279-3 proposes to appropriate 1.92 cfs (860 gpm) from one well approximately 60 feet deep located near the center of the NE ¼ of section 35 for irrigation of 135 acres located in the NE ¼ of section 35; all in T110N R56W in Kingsbury County.

AQUIFER – VERMILLION EAST FORK (VEF)

The Vermillion East Fork aquifer is a predominantly surficial outwash (sand and gravel) that is probably under artesian conditions at this site. The aquifer underlies 94 square miles and contains an estimated 300,000 acre-feet of water in storage in Kingsbury County (Hamilton, 1988). Recharge is through leakage directly into the aquifer from rainfall and snowmelt. A recharge rate of about 4 inches per year (20,000 acre-feet for the entire Kingsbury County area) has been estimated for the Vermillion East Fork aquifer (Hedges, 1983). The aquifer is also hydraulically connected to area lakes and sloughs with these surface bodies of water generally behaving as discharge areas for ground water from the aquifer. The aquifer extends into Clark County to the north and into Miner and Lake Counties to the south. The direction of ground water movement in the area of this application is probably from the west to east however over most of the aquifer the general direction is northwest to southeast (Hedges, 1982). Historical water use data for the aquifer (irrigation, rural water and municipal uses) indicates that the aquifer is capable of sustaining additional withdrawals.

Test well information is available. Pullman Drilling indicates gravel from six to 15 feet, yellow clay from 15 to 20 feet, blue clay from 20 to 22 feet, sandy yellow clay from 22 to 40 feet and coarse gravel from 40 to 60 feet all below land surface. The test well had a static water level of 19 feet below land surface. Depending upon how the formation reacts to pumping this site could react as if under water table conditions but technically appears to be confined or artesian. No pumping information is available at this time. The aquifer in this area appears to be extremely variable. That is the thickness and depth of the sand and gravel can change significantly over the area. One well may not be able to produce the amount of water requested especially during times of drought. According to the observation wells in the area the water level at this time is about 12 feet higher than during the late 1970's early 1980's. When drought occurs again a single well may not be able to produce the amount of water requested. At this site this would mean a potential water level of 31 feet below land surface and with 20 feet of aquifer material available there is 29 feet of water to draw on. Unless the well is prolific (specific capacity of 50 gpm/foot of drawdown or larger) the pumping level in the well will drawdown into the aquifer. For instance at this site with the 50 gpm/ft specific capacity, the pumping level during a drought could be about 48 feet below land surface. This would leave about 12 feet of water in the well and be in the well screen. This would not be a reliable situation but until a well is drilled and tested this is merely speculation.

The Water Rights Program monitors two observation wells within three miles of the application and also completed into the Vermillion East Fork aquifer. Observation well KG-77F is located about three miles north and observation well KG-83C is located about one mile northeast both from this application. Water levels for these wells show good response to climatic conditions. Water levels rise during wet years and gradually decline during dry years. In general the water level record indicates water is

available from the aquifer for appropriation (Water Rights, 2011). Hydrographs for these two wells are included with this report. Note that observation well KG-83C has a long period of record going back to 1957. That particular well was replaced in 1983 and the previous records assimilated into the historical record. Also note that the record for KG-83C indicates some periods of missing data. The reason for this is the water level rise in Lake Thompson actually inundated the well for a period of time.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

The nearest existing water right is located about three miles northwest of this application. At this distance interference is not a concern. Drawdown created by pumping would not be significant at this distance.

CONCLUSIONS

1. Water is available from the Vermillion East Fork aquifer.
2. The aquifer is probably under artesian conditions in this area but more than likely will behave like a water table situation. That is because in general the aquifer appears to be under water table conditions. Drawdown is not expected to be significant at distances very far from a production well in this aquifer. Interference is not a concern.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

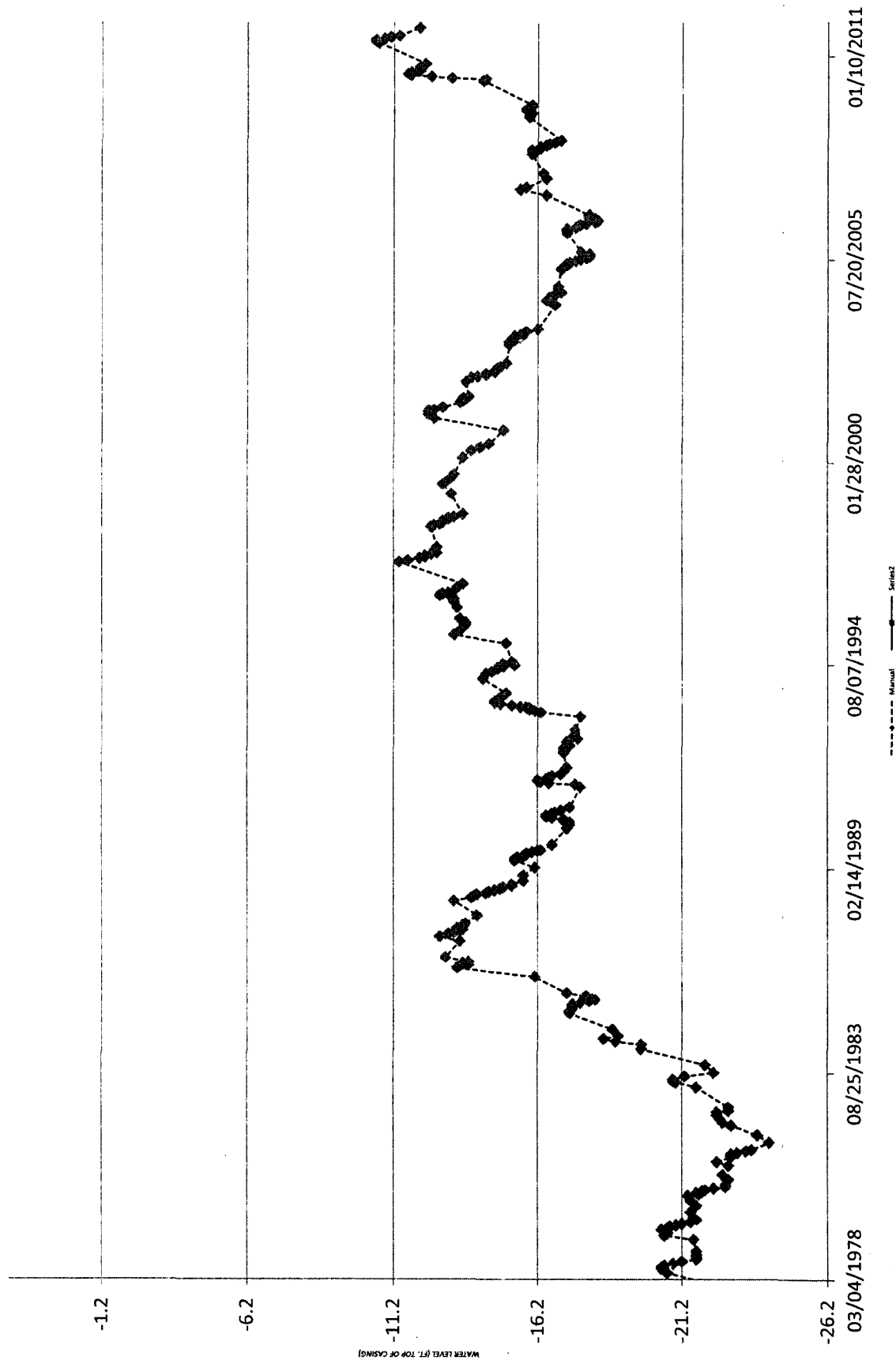
Hamilton, L.J., 1989, Water Resources of Brookings and Kingsbury Counties, South Dakota, USGS Water Resources Investigations Report No. 88-4185, USGS, Huron, SD, 57350.

Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

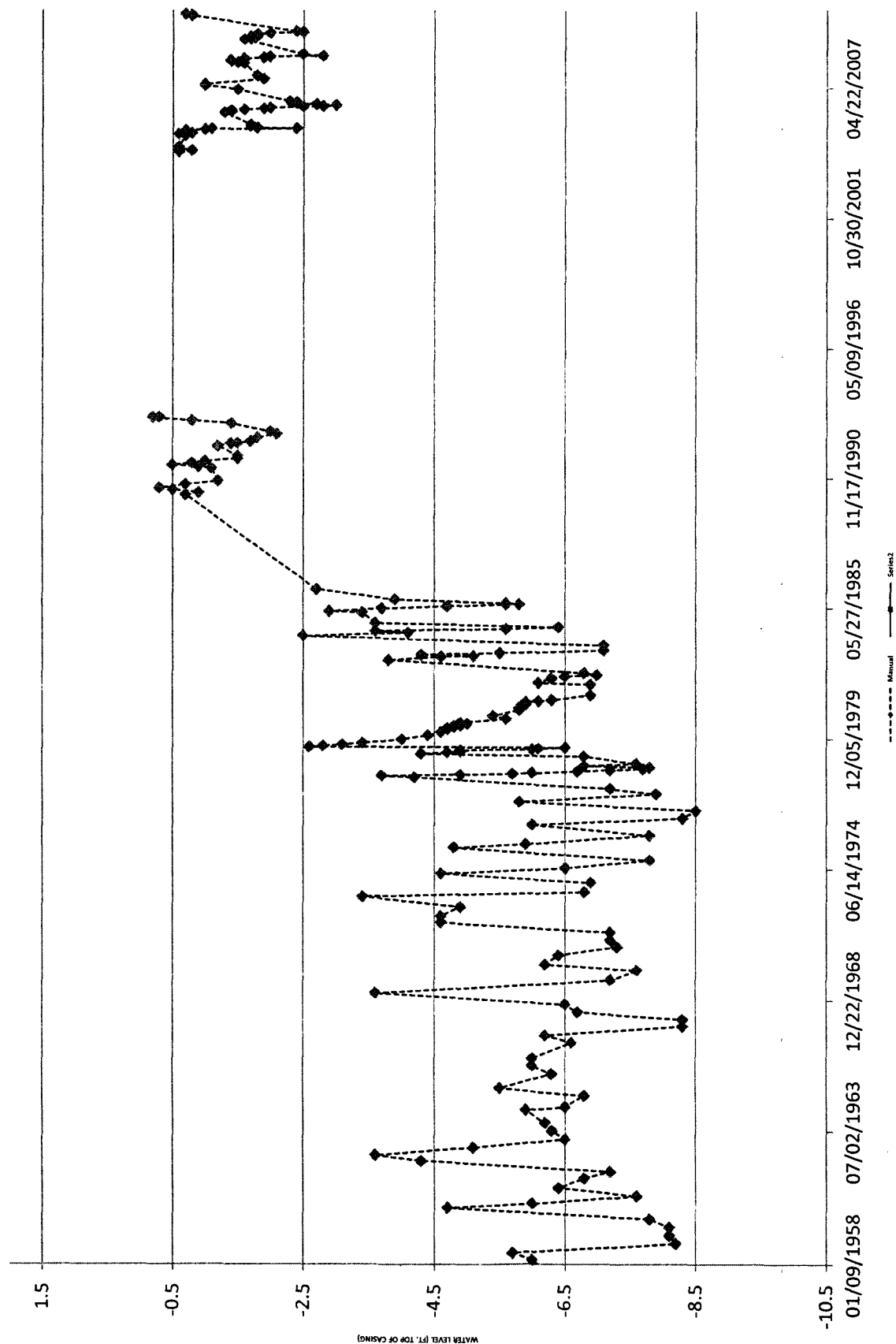
Hedges, L.S., and others, 1983, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, Task 7 : Ground Water Recharge, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 2011, Unpublished Observation Well Data for Kingsbury County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL KG-77F



WATER RIGHTS' OBSERVATION WELL KG-83C



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DEC 23 2011

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Kingsbury) SS

I, Kary Humphrey

certify that the attached printed Notice was taken

from the De Smet News

printed and published in De

County of Kingsbury and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

December 14, 2011

December 21, 2011

Cost of Printing 46.87

Kary Humphrey
(Signature)

Editor

(Title)

December 12-22-11

(Date Signed)

NOTICE OF APPLICATION NO. 7279-3 TO APPROPRIATE WATER

Notice is given that H.T. Albrecht & Sons, Inc., 43314 215th St., De Smet, SD 57231, has filed an application for a water permit to appropriate 1.92 cubic feet of water per second from one well completed into the Vermillion: East Fork Aquifer (60 feet deep) located in center of the NE ¼ Section 35 for irrigation of 135 acres located in the NE ¼ Section 35; all in T110N-R56-W.

Pursuant to SDCL 46-2A-2, the chief engineer recommends Approval of Application No. 7279-3 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 or supporting this application must file a 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 Jan. 2, 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
& Natural Resources

Published twice at the total
approximate cost of \$46.87.
12-14-2wc-12-21

$$70 \text{ li} \times 37.2 = 26.04$$

$$\times 80 \% \text{ wk} 2 = \underline{20.83}$$

$$46.87$$



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

December 5, 2011

DeSmet News
PO Box 69
DeSmet SD 57231

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7279-3 to Appropriate Water to be published twice. Please publish the first notice on December 14, 2011 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 H T Albrecht & Sons, Inc. 43314 215th St., DeSmet SD 57231 (Ph # 605-860-1616).

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. 7279-3

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

Date _____

We are in receipt of your letter of December 5, 2011 enclosing Notice to Appropriate Water by Application No. 7279-3 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
www.state.sd.us/denr

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

December 5, 2011

H T Albrecht & Sons Inc.
43314 215th St
DeSmet SD 57231

Dear Mr. Albrecht:

Water Permit Application No. 7279-3 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 DeSmet News printed at DeSmet SD (Ph # 605-854-3331). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice 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 application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352
eric.gronlund@state.sd.us

enclosures

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

Instruction to Newspaper - Publish first Notice on December 14, 2011 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.

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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 January 2, 2012.

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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

JAN 18 2012

H T Albrecht & Sons Inc
43314 215th St
DeSmet SD 57231

Dear Mr. Albrecht:

Enclosed is Water Permit No. 7279-3 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

7279-3

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 35 Twp 110 Rg 56

County

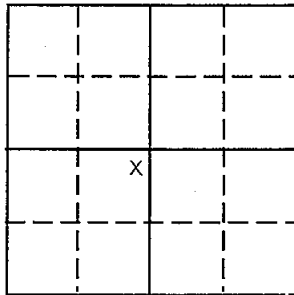
Kingbury

North

Please mark well location with an "X"

W

E



Well Completion Date

7/12/2012

1 Mile

Distance to 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:

Reverse Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
	16.00	0.0	46.0	24.00

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Vol Clay		Lb/gal	0.0 Ft	42.0 Ft
	28			

Describe grouting procedure _____

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 Inches Length 15.0 FeetMaterial Stainless SteelSlot Size 0.057 Set From 46.0 Feet to 61.0 Feet

Other information _____

WAS A PACKER OR SEAL USED?

☒ Yes ☐ No
If so, what material? Pearock

Describe packer(s) and location

42-61'

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? Pellets
☐ No, Why Not? _____

Lab sample sent to for water quality analysis

Well Owner: Bill & Henry AlbrechtBusiness Name: H.T Albrecht & SonsAddress: 43314 215th StCity, State, Zip: DeSmet SD 57231

WELL LOG:

DEPTH

FORMATION	FROM	TO
Yellow Clay	0	5
Yellow Gravel	5	15
Yellow Clay	15	23
Sandy Yellow Clay	23	39
Sandy Blue Clay	39	43
Gravel	43	48
Fine Gray Sand w/ Coal	48	53
Gravel	53	57
Fine Sand w/ Coal	57	61

STATIC WATER LEVEL

FEET

If flowing: closed in pressure _____

PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped Describe: _____
☐ Bailed
☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

MAR - 4 2013

WATER RIGHTS
PROGRAM
440

This well was drilled under license # _____

And this report is true and accurate.

Drilling firm: Pullman Well Drilling Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: _____

5-13-12

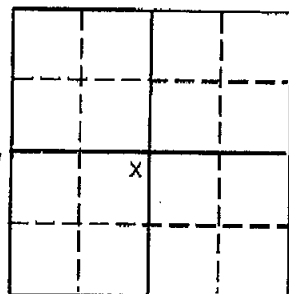
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

 Location NE 1/4 SW 1/4 Sec 35 Twp 110 Rg 56

 County Kingsbury

Please mark well location with an "X"



Well Completion Date

4/11/2012

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? _____ ft from _____ (Identify source)

PROPOSED USE:
☐ Domestic/Stock Irrigation ☐ Municipal Industrial ☐ Business Institutional ☐ Test Holes Monitoring well

METHOD OF DRILLING:
Reverse Rotary
CASING DATA:
☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
	16.00	0.0	49.0	25.00
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Vol Clay	23	Lb/gal	0.0 Ft	34.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

SCREEN:
☐ Perforated pipe ☒ Manufactured

 Diameter _____ Inches Length 7.0 Feet

 Material PVC

 Slot Size 0.057 Set From 49.0 Feet to 56.0 Feet

Other information

WAS A PACKER OR SEAL USED?
☒ Yes ☐ No

 If so, what material? PeaRock

Describe packer(s) and location

34-56'
DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?

☐ No, Why Not?

Lab sample sent to for water quality analysis

 Well Owner: Bill & Henry Albrecht

 Business Name: H.T Albrecht & Sons

 Address: 43314 215th ST

 City, State, Zip: Desmet SD 57231
WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	3
Yellow Gravel	3	10
Yellow Clay	10	18
Blue Vlay	18	20
Yellow Clay	20	23
Fine Yellow Sand w/ Clay Breaks	23	33
Yellow Clay Sand & Coal	33	39
Blue Clay	39	43
Gravel	43	48

STATIC WATER LEVEL
20' FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

 Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:
☒ Pumped Describe: w/ Turbine
☐ Bailed

☐ Other

Pumping Level Below Land Surface

 _____ Ft. After _____ Hrs. pumped 900.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS
Fine Sand 48-52
PeaRock 52-53
Coarse Sand w/ PeaRock 53-56
RECEIVED
NOV - 2 2016
VERMILLION EAST FORK KR WATER RIGHTS

 This well was drilled under license # 440 PROGRAM

And this report is true and accurate.

 Drilling firm: Pullman Well Drilling Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:

FORM 2: Application for irrigation in South Dakota

(type or print)

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	(office use only) No. _____ Hydrologic Unit _____
	Basin _____
	Newspaper _____

RECEIVED
NOV 30 2016
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☐ New ☐ Vested Right ☒ Amendment/Correction to Permit No. 7279-3
(Use predates Mar 2, 1955)

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

Add diversion points1. Name to Appear on Irrigation Permit H.T. Albrecht + Sons, Inc.

Note: The "Name to Appear on Irrigation Permit" must be the name in which the property to be irrigated is held in.

Mailing Address 43314 215th St DeSmet SD 57281
(Address) (City) (State) (Zip Code)Phone _____ Mobile (605) 860-1616 Email 269pilot@gmail.com2. Amount of water claimed _____ *CFS or _____ **GPM _____ ***AF Total Acreage _____
(*Cubic Feet per Second) (**Gallons per Minute) (***) Acre Feet - storage capacity of dam/dugout or annual use if applicable)3. Source of water supply Ground water4. Location of point of diversion NE 1/4 35-110N-56W 3 wells

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

County Kingsbury5. County or counties where water will be used Kingsbury

6. Annual period during which water is to be used _____

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

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

After finding a problem with the 1st well a second well was drilled approx 15' to the east. When the 2nd well was found to be insufficient pumps were placed in both wells. As both wells combined produce 300 to 500 gpm a 3rd well is being considered.

I, Bird Albrecht Sec, the applicant, certify under
Name of Person Title (if applicable)

penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable) ☒ Drilling new well(s) ☒ Using existing well(s)a) If new wells, how many 2 Have test holes been drilled ☐ Yes ☒ No Drilled by _____
(if yes, please provide copies of logs)

b) If existing wells, how many _____ Provide copy of log(s), if available. Drilled by _____

For either Existing or Proposed Wells:

c) Well Depth (required) 60' Depth to Top of Water Bearing Material _____ Depth to Water from Surface _____d) Distance to nearest domestic well on applicant's property _____ Property owned by others _____
*1st + 2nd well are within 20' of test well drilled 11-18-2011. Test well has yet to be drilled for well #3***2. Wastewater Disposal System Information**

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

b) System Capacity (gallons) _____ Year Constructed _____

c) Connected to the City of _____ Sanitary System

3. Dugout Information

a) Surface Dimensions _____ Depth _____

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

4. Water Storage Dams

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

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

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____

If pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway Width _____

g) X & Y Slope (e.g. 3 to 1 is a typical slope)

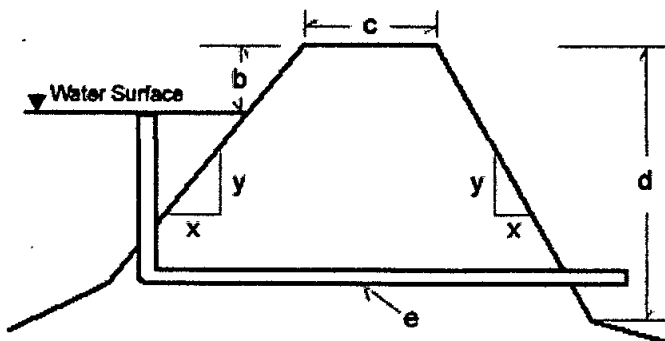
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



RECEIVED

NOV 30 2016

Date: 7/23/2013

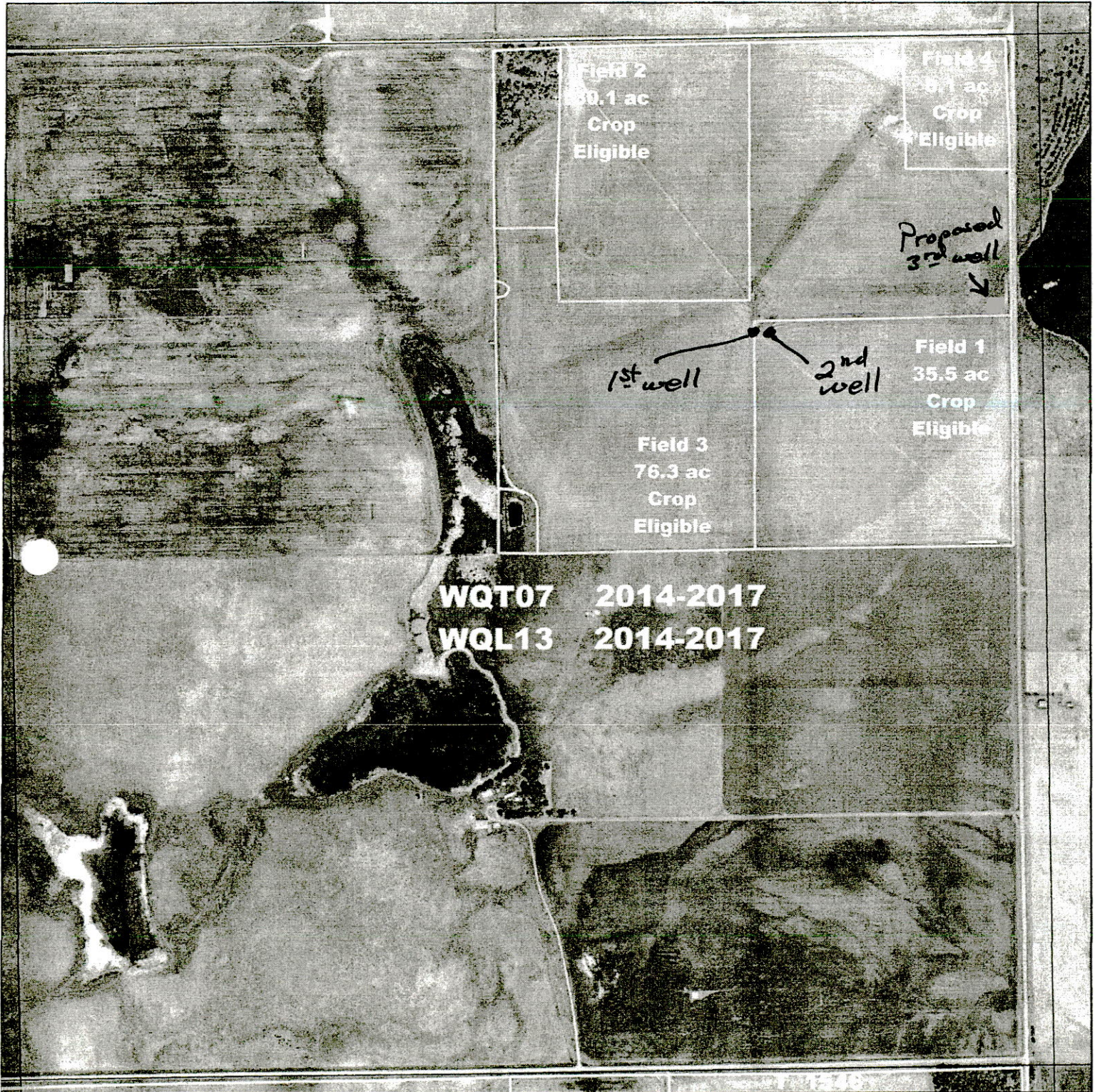
WATER RIGHTS
PROGRAM
Customer(s): H T ALBRECHT & SONS INC
District: Kingsbury Conservation District

Plan Map

Field Office: De Smet

Agency: USDA-NRCS

Assisted By: CORRIE HOLT



NE 35-110-56

Tract 1568

Legend

CSP Plan

Sections

390 0 390 780 1,170 1,560 Feet



SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW 1/4 NW 1/4 Sec 35 Twp 110 Rg 56

County

Kingsbury

North

Please mark well
location with an "X"

W

E

Well Completion Date

11/18/2011

1 Mile

Distance to 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 Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
	3.00	0.0	40.0	5.00

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
		Lb/gal	0.0 Ft	40.0 Ft
Vol Clay	3			

Describe grouting procedure _____

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 3.00 Inches Length 20.0 FeetMaterial Sch 80 3" PvcSlot Size 0.057 Set From 40.0 Feet to 60.0 Feet

Other information _____

WAS A PACKER OR SEAL USED?

☒ Yes ☐ No
If so, what material? Pearock

Describe packer(s) and location

40-60ft

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How? _____

☐ No, Why Not? _____
Lab sample sent to for
water quality analysis

RECEIVED

NOV 30 2016

WATER RIGHTS
PROGRAMWell Owner: Henry AlbrechtBusiness Name: H.T Albrecht & SonsAddress: 43314 215th StCity, State, Zip: DeSmet SD 57231

WELL LOG:

DEPTH

FORMATION	FROM	TO
Top Soil	0	6
Yellow Gravel	6	15
Yellow Clay	15	20
Blue Clay	20	22
Sandy Yellow Clay	22	40
Course Sand and PeaRock	40	60
Blue Clay	60	80

STATIC WATER LEVEL 19.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe: _____

☐ Bailed

☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

This well was

And this report

Drilling firm:

Signature of L

Signature of W

Date: _____

*Paid \$918.00 for
this well.
12-1-11*

Additional Diversion Point Request

NAME: Water Permit No. 7279-3, H T Albrecht & Sons, Inc

ADDRESS: 43314 215th Street, DeSmet SD 57231

DATE: December 8, 2016 **COUNTY:** Kingsbury **TELEPHONE:**

BACKGROUND:

Water Permit No. 7279-3 appropriated 1.92 cubic feet of water per second from one well completed into the Vermillion East Fork Aquifer (60 feet deep) located in the center of the NE ¼ Section 35 for irrigation of 135 acres located in the NE ¼ Section 35; all in T110N, R56W.

Bill Albrecht, on behalf of H T Albrecht & Sons, Inc. filed a request for additional wells. A second well currently exists approximately 15 feet east of the original well and a third well is contemplated since the production from the two wells in place is less than desired. This third well would be constructed about 1,300 to the east along the easterly edge of the SE ¼ NE ¼ Section 35. The request states "After finding a problem with the first well, a second well was drilled approximately 15 feet to the east. When the second well was found to be insufficient pumps were placed in both wells. As both wells combined produce 300 to 500 gpm a third well is being considered".

DENR became aware of the second well being constructed to supply water for No. 7279-3 when H T Albrecht & Sons filed a petition in response to the public notice for Application No. 8226-3, Jeffrey Albrecht. A site visit on the irrigation system found two wells in place. Further discussion with Bill Albrecht found that he desired a third well to bring the diversion rate capability closer to the permitted amount so that system runs more efficiently.

The time to complete construction of works under Water Permit No. 7279-3 is January 2, 2017 with water placed to beneficial use on or before January 2, 2021. The question arose whether an additional well can be drilled after January 2, 2017. The system has been completed consisting of two wells supplying irrigation water to a center pivot. Therefore a determination is reached that construction has been completed. Since the production from the wells is not adequate, H T Albrecht & Sons has until the January 2, 2021 to put water to beneficial use by working towards getting the production to the permitted level. Processing of a second and third well under SDCL 46-5-13.1 is an acceptable process to accomplish this and should not be restricted by the January 2, 2017 completion date.

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased.

Developed water source same as permitted source and no additional water appropriated

The water source authorized by Water Permit No. 7279-3 is the Vermillion East Fork aquifer. The existing second well and third proposed well are 60 feet deep. Based on this information, the water source is the Vermillion East Fork aquifer.

No additional appropriation of water is requested. The water permit is limited to a diversion rate of 1.92 cfs which equates to 862 gallons per minute. The request for the additional well locations does not request greater diversion rate authority. Currently, the two wells in place produce only 300 to 500 gpm and the permit holders intent is to bring the production up to a standard pump rate for a quarter section pivot which is about 800 gpm.

Review of Existing Diversions

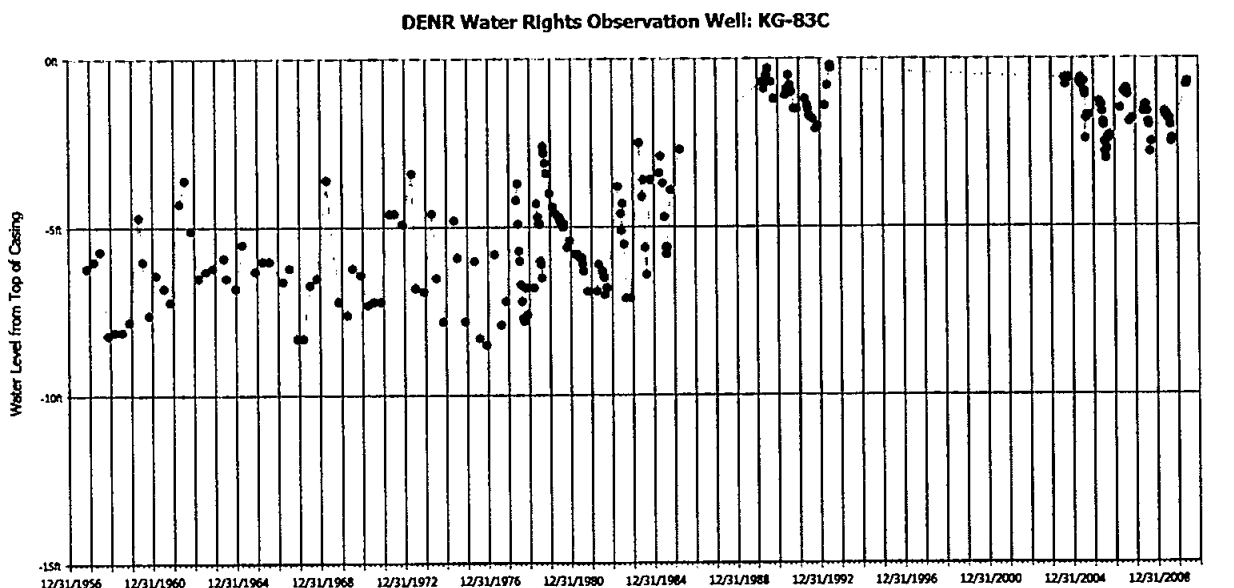
DENR's water rights databases were reviewed for the nearest domestic wells and water rights on file.

There are two domestic wells completed into the Vermillion East Fork aquifer on file located in Section 35, T110N, R56W. Both these domestic wells are located in the SW $\frac{1}{4}$ and are about 0.5 mile southwest of the second well and 0.7 mile southwest of where the proposed third well is to be constructed. The next closest domestic well to the proposed wells is over two miles to the north.

The nearest existing water right for wells completed into the Vermillion East Fork aquifer is a little more than 2 $\frac{1}{2}$ miles to the north of Water Permit No. 7279-3. However, a new permit was obtained at the December 1, 2016, Water Management Board meeting for irrigation of the SE $\frac{1}{4}$ of Section 35. Permit No. 8226-3 will authorize completion of two wells to be located in the S $\frac{1}{2}$ SE $\frac{1}{4}$ of Section 35. This is about 3,300 feet south of the wells to be in place under No. 7279-3.

H T Albrecht & Sons contested Application No. 8226-3 at the hearing before the Water Management Board citing there is not enough water for more irrigation wells and the problems they are having with their existing wells to supply the pivot authorized by Permit No. 7279-3. The staff report on Application No. 8226-3 prepared by Ken Buhler concluded there is a reasonable probability unappropriated water is available and Application No. 8226-3 can be developed without adverse impact to existing users. This was based on the Vermillion East Fork aquifer being under unconfined conditions and therefore drawdown does not extent very far from individual production wells. Also area observation wells completed in this aquifer and located within $\frac{1}{2}$ mile of high production wells do not show significant effects on water levels due to pumping.

The nearest observation well completed in the Vermillion East Fork aquifer is located about 1.4 miles northeast of site of the wells authorized by Water Permit No. 7279-3. Below is a hydrograph for Observation Well KG-83C.



The hydrograph for this observation well shows primarily effects of climatic conditions and minor fluctuations due to pumping. Over the period of record the aquifer has an upward trend line. Note that during the period of record from 1993 through 2004 and from 2010 to the present this observation well has been inaccessible for readings to be taken.

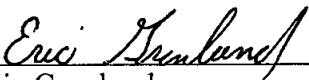
This additional wells requested by HT Albrecht & Sons do not move the diversion closer to any of the domestic wells or existing water rights. Interference with existing water rights or domestic wells is not anticipated.

CONCLUSION

- The additional well locations do not seek to appropriate additional water.
- The well will be completed into the Vermillion East Fork aquifer.
- No additional acres are requested to be irrigated
- Given the distance from domestic wells and water rights, the additional wells do not increase the potential for adverse interference with existing diversions.

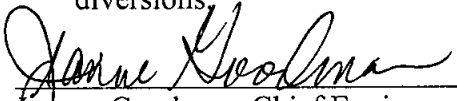
RECOMMENDED ACTION

Based on the above criteria, it is recommended that the additional diversion point locations be authorized under Water Permit No. 7279-3.


Eric Gronlund
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

The additional diversion points do not increase the potential for adverse effects to existing diversions.


Jeanne Goodman, Chief Engineer
Water Rights Program



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

December 13, 2016

Bill Albrecht
H T Albrecht & Sons Inc
43314 215th Street
DeSmet SD 57231

Dear Mr. Albrecht:

Water Permit No. 7279-3 appropriates 1.92 cubic feet of water per second from one well completed into the Vermillion East Fork Aquifer (60 feet deep) located in the center of the NE ¼ Section 35 for irrigation of 135 acres located in the NE ¼ Section 35; all in T110N, R56W.

H T Albrecht & Sons filed a request for authorization for two additional wells to Water Permit No. 7279-3. Besides the authorized well, one well is already constructed within 15 feet of the original well and a third well is proposed about 1,300 feet to the east of the existing two wells. The request is to bring production to the permitted amount which was not achieved with one well.

Upon review of the request and pursuant to SDCL 46-5-13.1, the additional well locations are authorized without application or publication of a notice of hearing pursuant to SDCL 46-2A-4.

If any of the wells are abandoned they must be plugged in accordance with South Dakota well construction standards. If an existing well is removed from service and not permanently abandoned it may be temporarily abandoned by sealing the top with a watertight cap.

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

Sincerely,


Jeanne Goodman, Chief Engineer
Water Rights Program

7279-3

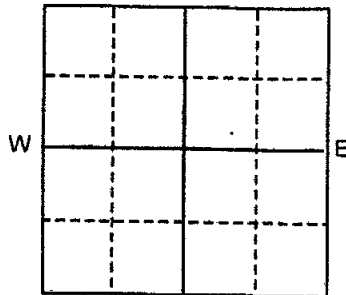
SDEForm - 1621LD V1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 NE 1/4 Sec 35 Twp 110 Rg 56County KINGSBURY

North

Please mark well
location with an "X"

Well Completion Date

November 14, 2018

1 Mile

Distance to 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:

mud rotary

CASING DATA:

☐ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
HS BENT	6	Lb/gal	0.0 Ft	100.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
Tremmy

SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter _____ Inches Length _____ Feet

Material _____

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 _____

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How? _____

☐ No, Why Not? _____
 Lab to which water
 quality sample sent for analysis
Well Owner: BILL ALBRECHTBusiness Name: HT Albrecht & Sons IncAddress: 43314 215TH STCity, State, Zip: DE SMET SD 57231

WELL LOG:

			DEPTH	
FORMATION			FROM	TO
TOP SOIL	BLK	M	0	1
GRAVEL	TAN	30SLT	1	9
CLAY	BLU	M	9	30
SANDY CLAY	BLU	M	30	66
CLAY	BLU	M	66	100

STATIC WATER LEVEL

FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe:☐ Bailed☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

TEST HOLE #1 GPS: 44 17 32.90N
97 30 58.70WThis well was drilled under license # 463 and this report is true and accurate.Drilling firm: Steffl Drilling & Pump Inc

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

* Bill AlbrechtDate: 11-28-18

RECEIVED

DEC 18 2018

WATER RIGHTS
PROGRAM

7279-3

SD EForm - 1621LD V1

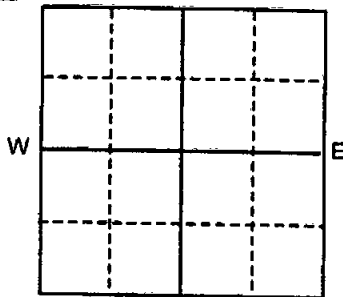
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE ¼ NE ¼ Sec 35 Twp 110 Rg 56

County KINGSBURY

North

Please mark well
location with an "X"

Well Completion Date

November 14, 2018

1 Mile

Distance to 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:

mud rotary

CASING DATA:

☐ Steel ☐ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
HS BENT	4	Lb/gal	0.0 Ft	76.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
Tremmy

SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter _____ Inches Length _____ Feet

Material _____

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

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?

☐ No, Why Not?
 Lab to which water
 quality sample sent for analysis

Well Owner: BILL ALBRECHT

Business Name: HT ALBRECHT & SONS INC

Address: 43314 215TH ST

City, State, Zip: DE SMET SD 57231

WELL LOG:

			DEPTH	
FORMATION			FROM	TO
TOP SOIL	BLK	M	0	1
CLAY	TAN	M	1	3
GRAVEL	TAN	COARSE	3	14
CLAY	BLU	M	14	30
SANDY CLAY	BLU	M	30	76

STATIC WATER LEVEL

FEET

If flowing: closed in pressure

PSI

GPM flow _____ through _____

Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate

GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe:☐ Bailed☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

TEST HOLE #4

GPS: 44 17 35.70N

97 30 42.10W

This well was drilled under license # 463 and this report is true and accurate.

Drilling firm: Steffi Drilling & Pump Inc

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 11-28-18

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WATER RIGHTS
PROGRAM

7279-3

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

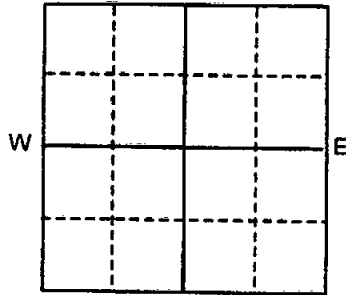
Location NW 1/4 NE 1/4 Sec 35 Twp 110 Rg 56

12/1/18

County KINGSBURY

North

Please mark well location with an "X"



Well Completion Date

November 14, 2018

1 Mile

Distance to 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:

mud rotary

CASING DATA:

If other describe ☐ Steel ☐ Plastic ☐ Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
HS BENT	6	Lb/gal	0.0 Ft	100.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
Tremmy

SCREEN:

☐ Perforated pipe ☐ Manufactured
Diameter _____ Inches Length _____ Feet
Material _____
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 _____

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How? _____
☐ No, Why Not? _____
Lab to which water quality sample sent for analysis _____

Well Owner: BILL ALBRECHT

Business Name: HT ALBRECHT & SONS INC

Address: 43314 215TH ST

City, State, Zip: DE SMET SD 57231

WELL LOG:

FORMATION			DEPTH	
			FROM	TO
TOP SOIL	BLK	M	0	2
GRAVEL	TAN	COARSE	2	9
CLAY	BLU	M	9	46
SAND	GRY	7-9SLT	46	64
CLAY	BLU	M	64	100

STATIC WATER LEVEL

FEET
If flowing: closed in pressure _____ PSI
GPM flow _____ through _____ Inch pipe
Controlled by ☐ Valve ☐ Reducers ☐ Other _____
Reduced flow rate _____ GPM
Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe:
☐ Bailed
☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM
_____ Ft. After _____ Hrs. pumped _____ GPM
If pump installed, pump rate: _____ GPM

REMARKS

TEST HOLE #2 GPS: 44 17 33.00N
97 31 00.70W

This well was drilled under license # 463 and this report is true and accurate.

Drilling firm: Steffl Drilling & Pump Inc

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

* Bill Albrecht

Date: 11-28-18

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WATER RIGHTS PROGRAM

7279-3

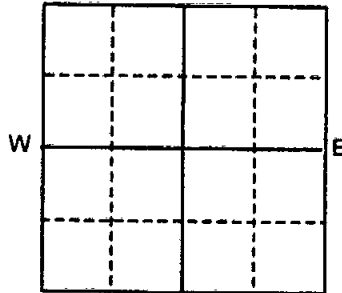
SD EForm - 1621LD V1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW ¼ NE ¼ Sec 35 Twp 110 Rg 56

County KINGSBURY

North
12/19/18Please mark well
location with an "X"

Well Completion Date

November 14, 2018

1 Mile

Distance to 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:

mud rotary

CASING DATA:

☐ Steel ☐ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
HS BENT	4	Lb/gal	0.0 Ft	80.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
Tremmy

SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter _____ Inches Length _____ Feet

Material _____

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

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?☐ No, Why Not?Lab to which water
quality sample sent for analysis

Well Owner: BILL ALBRECHT

Business Name: HT ALBRECHT & SONS INC

Address: 43314 215TH ST

City, State, Zip: DE SMET SD 57231

WELL LOG:

FORMATION			DEPTH	
			FROM	TO
TOP SOIL	BLK	M	0	1
CLAY	TAN	M	1	3
GRAVEL	TAN	M	3	7
CLAY	BLU	M	7	42
SAND	GRY	9-10SLT	42	56
CLAY	BLU	M	56	80

STATIC WATER LEVEL

FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe:☐ Bailed☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

TEST HOLE #3

GPS: 44 17 35.60N

97 31 00.10W

This well was drilled under license # 463 and this report is true and accurate.

Drilling firm: Steffi Drilling & Pump Inc

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

*

Date:

11-28-18

RECEIVED

DEC 18 2018

WATER RIGHTS
PROGRAM

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7279-3

I have this day, October 26, 2021, made a thorough examination of the water use system constructed by H. T. Albrecht & Sons, Inc., 43314 215th St., DeSmet, SD 57231 of Permit No. 7279-3, bearing the priority of November 17, 2011 authorizing the diversion of 1.92 cu. ft. per second of the waters of the Vermillion: East Fork Aquifer for irrigation purposes, in Kingsbury County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Pullman Well Drilling
- 2) No. of Wells 2
- 3) Depth(s) 61 & 48 feet
- 4) Well logs are available Y

Casing: (61 ft deep well)

- 1) Diameter 16 inches
- 2) Length 46 feet
- 3) Type PVC

Screen:

- 1) Type stainless steel
- 2) Length 15 feet
- 3) Static water level unknown

Pump:

- 1) Make unknown
- 2) Model 2 - submersibles
- 3) Size unknown
- 4) Capacity 400 GPM

Motor:

- 1) Make unknown
- 2) Model No. unknown
- 3) Horsepower rating 20 each hp

Casing: (48 ft deep well)

- 1) Diameter 16 inches
- 2) Length 49 feet
- 3) Type PVC

Screen:

- 1) Type PVC
- 2) Length 7 feet
- 3) Static water level 20 feet

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

- 1) Type Aluminum
- 2) Size 8 inches
- 3) Length 200 feet

C. Works used to apply water to beneficial use:**Center pivot:**

- 1) Make T & L
- 2) Overall length 1300 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) Capacity 400 GPM

Chemigation Equipment: none**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: (Two wells are in place, approximately 20 feet apart)

1. The system is in good condition with the point(s) of diversion located as follows: From the NE corner of Sec 35 T110N R56W, 1510 ft S & 1320 ft W, Lat 44.29230 Long -97.51656 (SW ¼ NE ¼ Sec 35).
2. The works are capable of diverting and conveying to the place of use 0.89 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:

All land in Sec 35 T110N R56W

NW ¼ NE ¼	34 acres
NE ¼ NE ¼	33 acres
SE ¼ NE ¼	34 acres
SW ¼ NE ¼	34 acres

comprising a total of <u>135</u> acres of land and the license should be issued for <u>0.89</u> cfs (developed rate)
--

F. Comments associated with the project:

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

The mailing address and the telephone number in the permit materials for Mr. Bill Albrecht (contact person) are current.

Some of the well details are incomplete as Mr. Albrecht shared that the well driller had a caving problem with one well so a second parallel well only 20 feet away from the problem well was also drilled. That is probably the reason for the shallower 48 foot well. Both wells supply water to the pivot but are still short of water.

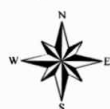
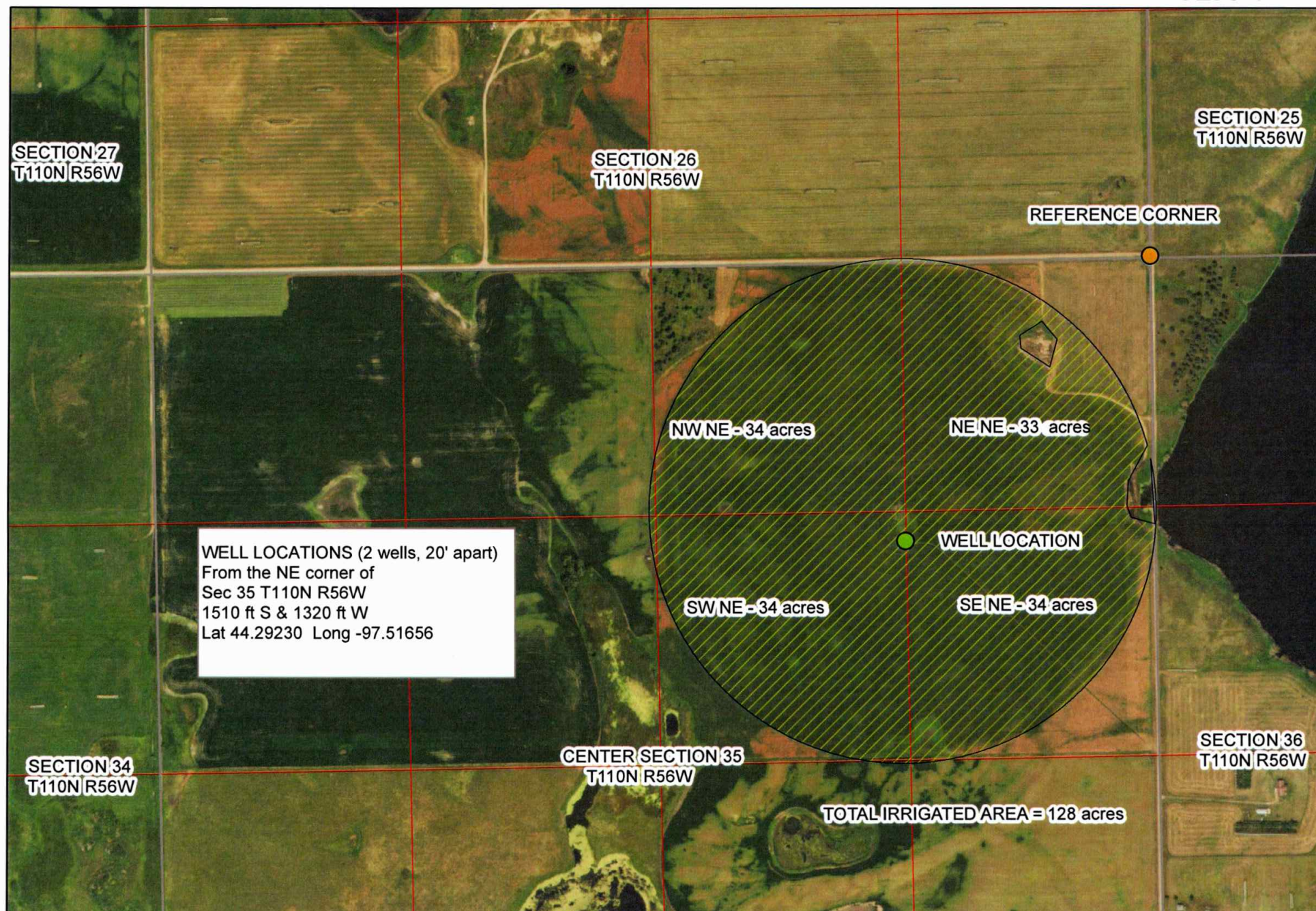


Darrell W DeBoer

Water Rights Inspector, DANR, Water Rights Program

Date report completed: November 1, 2021

Note: Authorization was granted in December 2016 for two additional wells. A second well had already been drilled. On March 8, 2022, I contacted Bill Albrecht to find out if a third well was put in. He said they could not find adequate water for a third well. He doubted it would be put in, but he may need to in the future if his current two wells decline in production. Genny McMath



0 0.075 0.15 0.3 0.45 0.6 Miles



Darrell DeBoer
Water Right Inspector
DANR-Water Rights Program



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

7279-3

MAR 14 2022

Bill Albrecht
H T Albrecht & Sons Inc
43314 215th St
DeSmet SD 57231

Dear Mr. Albrecht:

Enclosed is Water License No. 7279-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license 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 License, 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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 7279-3

(1) H T Albrecht & Sons Inc., 43314 215th St., DeSmet SD 57231 made Application No. 7279-3, November 17, 2011 for a water permit to divert 1.92 cubic feet of water per second from ground water, one well (Vermillion East Fork Aquifer), Kingsbury County, South Dakota for irrigation purposes. Permit No. 7279-3, with a priority date of November 17, 2011, was approved January 2, 2012, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before January 2, 2017, and for the application to beneficial use of water on or before January 2, 2021.

In December 2016, authorization was granted for two additional wells to bring production up to the permitted amount. One of the additional wells was already in place. The permit holder did not construct the third well.

(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 0.89 cubic feet of water per second for beneficial use. The two wells are located within 20 feet of each other and described as follows:

- 1510'S & 1320'W from the NE corner of Section 35, T110N, R56W (SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 35)
Latitude 44.29230, Longitude -97.51656

(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 35, T110N, R56W	NW $\frac{1}{4}$ NE $\frac{1}{4}$	34 acres	
	NE $\frac{1}{4}$ NE $\frac{1}{4}$	33 acres	
	SE $\frac{1}{4}$ NE $\frac{1}{4}$	34 acres	Total 135 acres
	SW $\frac{1}{4}$ NE $\frac{1}{4}$	34 acres	

(4) Pursuant to South Dakota Water Law 46-5-30.1 H T Albrecht & Sons Inc., 43314 215th St, DeSmet SD 57231 the holder and/or owner of Water Right No. 7279-3 is issued a license to appropriate water, the right to use 0.89 cubic feet of water per second from ground water, two wells (Vermillion East Fork Aquifer) with a priority date of November 17, 2011, from the location 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. 7279-3 and subject to the following qualifications:

- The wells approved under this water right 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 his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

continued

- The wells authorized by Permit No. 7279-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. ***Both wells were drilled by Pullman Well Drilling Inc. Copies of the well completion reports are on file with the Water Rights Program.***
- 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

MAR 14 2022

date

