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July 2000
DNR Form 613

STATE OF NEBRASKA DEPARTMENT OF NATURAL RESOURCES

APPLICATION FOR A PERMIT TO TRANSFER GROUND WATER TO ADJOINING STATE

INSTRUCTIONS

For Department Use Only

This form must be completed in full. An incomplete or defective form will be returned. Failure to resubmit a corrected application within the time limit specified will cause dismissal of the application. Complete items 1-8 by printing in ink or typing the appropriate information. The following information is also required (see Department rules, Title 456, Chapter 6 for requirements):

Filed at 8:15 October 25, 2006 11:30 a.m./p.m. on

- A map submitted on 8 1/2" x 11" paper or paper folded to such a size showing the location of the well(s); the pipeline(s) or other means of transporting water; the location of use.
- Information on the possible negative effects of the proposed withdrawal on ground water and surface water supplies in the area.

Application No. TA -38

Natural Resources District South Platte

A non-refundable filing fee of \$10 (payable to the Department of Natural Resources) must accompany this application. Forward this application, fee and map to: Department of Natural Resources, P.O. Box 94676, Lincoln, Nebraska 68509-4676. The telephone number is (402) 471-2363.

Receipt No. G100 Amount \$10.00

Name of applicant: Bruce Nienhueser Telephone Number (308) 254-5034
 Address 11943 RD 2
 City Sidney State NE Zip Code 69162 +

If applicable: Well Registration Number(s) G-094357-A G-094357-B
 Management or Control Area Permit/Number(s) 148142 109991

Identify the location and capacity of well(s):

<u>SW</u> 1/4 of the <u>SW</u> 1/4 of Section <u>15</u> , Township <u>12</u> North, Range <u>49</u> E <input type="checkbox"/> W <input checked="" type="checkbox"/> Y	<u>cheyenne</u>	County, <u>110</u>	gpm
<u>SE</u> 1/4 of the <u>SW</u> 1/4 of Section <u>22</u> , Township <u>12</u> North, Range <u>49</u> E <input type="checkbox"/> W <input type="checkbox"/>	<u>cheyenne</u>	County, <u>400</u>	gpm
____ 1/4 of the ____ 1/4 of Section _____, Township _____ North, Range _____ E <input type="checkbox"/> W <input type="checkbox"/>	_____	County, _____	gpm
____ 1/4 of the ____ 1/4 of Section _____, Township _____ North, Range _____ E <input type="checkbox"/> W <input type="checkbox"/>	_____	County, _____	gpm
____ 1/4 of the ____ 1/4 of Section _____, Township _____ North, Range _____ E <input type="checkbox"/> W <input type="checkbox"/>	_____	County, _____	gpm

Identify the location of use:
Commercial use for building wind towers in Logan County
Co. from County Rd 48 to County Rd 85 along County
Rd 28 East to West

Maximum annual quantity of ground water requested for use in adjoining state: 38 acre-feet per annum

Maximum daily withdrawal requested: 72,000 gallons per day

(over)

977

7. Ground water is proposed to be used for:

Irrigation

Public Water Supply

Commercial/Industrial

Domestic

Livestock

Other (explain) _____

8. Projected date water will first be pumped or date water was first pumped 1-1-07

9. State all alternative sources of water that are available and why applicant chooses not to use them:

There is no Irrigation wells in Northern Logan County where wind towers are going to be built

We will plant a crop that would take less water like Hay millet or Proso Millet.

It would take $\frac{1}{3}$ of the water that corn takes.

I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete and accurate.

Bruce Thompson
Signature of Applicant

9-18-06

Date

Nienhueser Farms

11945 Rd 2
Sidney NE 69162
308-254-5034

October 9, 2006

Dear Tracy Zayae

The economic impact on Cheyenne county and Logan County Co. would be a greater sale tax increase because of the construction employee's using the local restaurants, Hotels and other local business in the Sidney area. The income off the wind tower in the future will be spent in Cheyenne County as the local Logan County farmers do business in Sidney. Around 20% of the landowners in Logan County are a Cheyenne County resident. There is a need for renewable resource like the wind towers with no pollution left behind. The income we receive from the water sales will be spent in the State of NE by paying the NE income tax.

As for a Crop income or loss from switching from Corn to Millet on our irrigated land. If we use the price of corn vs. millet. In the year of 2006 an irrigated corn crop cost is 300.00 an acre to grow. The value of the crop is 416.00 an acre with a profit of 116.00 an acre. In the year 2006 an irrigated millet cost to raise is 118.00 an acre. The value of the millet crop is 280.00 and Acre, with a profit of 162.00 an acre. I would say that there would be a slight increase of profit in the state of Nebraska by switching crops.

Thanks for you time.

Bruce Nienhueser

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October 9, 2006

Bruce Nienhueser
11943 RD 2
SIDNEY NE 69162
308-254-5034
308-249-0002

Dear Tracy

Concerning the water use in the year 2006. We have 56.85 Acres of corn, 28.82 acres of rye, 29.41 acres of grass for a total of 115.05 acres of irrigated crops. We used a total of 79.3079 acre feet of water for the total crops usage, with corn using 56.8497, rye used 11.1153 and the grass 11.3429 an acre feet.

Concerning the water use for the year 2007. The projected use for the wind towers is 4 million gallons, which is 12.28-acre foot. If you would accept this proposal I would not plant corn for the 2007 crop. I would plant millet on 56.85 acres, using 1/3 of the water that the corn would have used. That would mean that we would have about 38 acre feet we could let the wind tower project to use they would not use any more then the 2006 crop. The wind tower project would use only 12.28 acre-feet, they could use up to 38 acre-feet and still not use any more than the crop we planted in 2006.

Evaluation of the geologic and hydrologic conditions for the well site and area with in a one-mile radius.

The well site is located in the Ogallala group which is a major source of water for the South Platte NRD, except those areas where the Brule Formation is exposed or the Ogallala is above the water table. The Ogallala is a good source of water, when saturated the wells produce an average of 900 gallons per minute. The reported range for irrigation wells of 90 to 1,600 per minute. Because of the depth to water in the Ogallala, the recharge to the aquifer is not as rapid.

Thanks for you time

Bruce Nienhueser

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Red Dots - domes & wells
Green Dots - Irr. wells

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A-31.4
NC

12 A-3.0
CRP NHEL

6
A-3.8
NHEL

4 A-4.4
NHEL

10 A-19.8 CRP NHEL

2501
T-9912
A-20.2
NC

11 A-4.1 CRP HEL

2014
T-9911
1
A-157.3
NHEL

12 A-4.1 CRP HEL

1
A-23.9
HEL

A-12.6
NC

13
A-2.7
HEL

2501
T-9912
9
A-64.7
NHEL

5
A-7.0
CRP
NHEL

well ID 148142
↓

well ID 109991
↓

2 A-10.3 CRP NHEL

2501
T-9912
6
A-37.8
NHEL

8
A-1.8
CRP
NHEL
15
A-0.4
NHEL

2501
T-9913
1
A-32.1
NHEL

7
A-3.2
CRP
NHEL

2501
T-1698
1
A-94.2
NHEL

3 A-34.7 CRP NHEL

state
line

3581
T-2438
A-10.9
NC

1
A-3.3
HEL

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T-12-N R-49-W
Section 22

United States Department of Agriculture
Farm Service Agency

Cheyenne County

May 09, 2005

