

WATER PERMIT NO. 6091-3

Name of Applicant: Brentwood Colony

Address: 15442 343rd Ave, Faulkton SD 57438

Phone: 605 598-4589

Amount of Water Claimed: 0.1 cfs(45 gpm)

Total Acres: NA

Source of Water Supply: groundwater (2 wells)

Water to be used for: commercial (swine facility)

County: Faulk

Type of Waste Disposal System:

Location: 12 miles northwest of Faulkton

PRIORITY Date Received: 7-13-1998

Fee: \$50.00

Corrected Application Received:

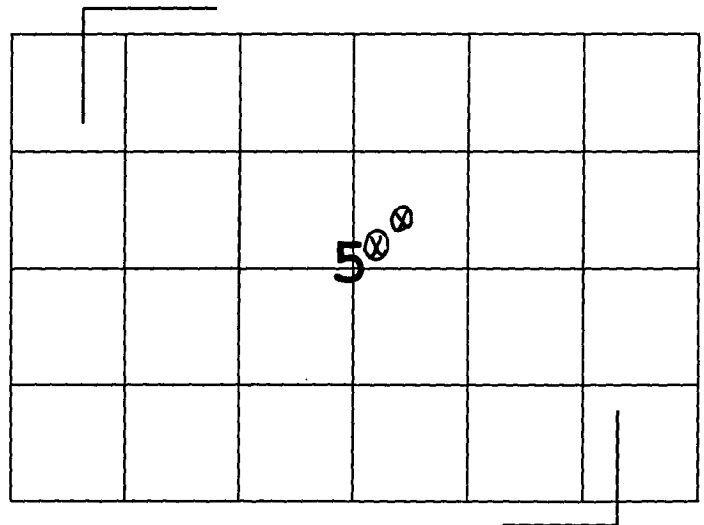
Period of Annual Use: January 1 – December 31

Remarks:

Diversion Point: SW ¼ NE 1/4

Sec 5-T119N-R70W

Land to be Irrigated:



Depth of Wells: 1930' & 1460'

Well Driller: Huron Drilling

Remarks: both existing wells

Type of Map: topo

Prepared by: James Hodgens, P.E.

Reviewed and the Number Assigned on: 7-17-1998

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

SOUTH DAKOTA
WATER PERMIT NO. 6091-3

Date of first receipt of application July 13, 1998.

Date of return to applicant for corrections, amendments or changes July 14, 1998.

Date of receipt of corrected application July 17, 1998.

The Water Management Board approved Water Permit Application No. 6091-3 on October 1, 1998 for Brentwood Colony, 15442 343rd Ave, Faulkton SD 57438 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. 6091-3 appropriates 0.1 cubic feet of water per second (45 gallons per minute) from two existing wells, a Dakota Formation well 1460 feet deep and an Inyan Kara Formation well 1930 feet deep located in the SW ¼ NE ¼ Section 5-T119N-R70W.
2. The water appropriated shall be used for the purpose of supplying water for commercial use in a swine confinement facility and other livestock facilities at the colony and may not exceed the amount of water needed for beneficial use.
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 July 13, 1998.
5. One-fifth of the construction is to be completed on or before March 1, 2001.
6. All construction is to be completed on or before October 1, 2003.
7. Water is to be put to beneficial use on or before October 1, 2007.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The wells approved under 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. Permit No. 6091-3 is subject to compliance with requirements of the General Water Pollution Control Permit for concentrated swine feeding operation.
3. The Inyan Kara well approved under this Permit shall be valved and the flow reduced to the amount needed or to a minimum when not being used (directly or for storage purposes). If this well is abandoned or the Permit cancelled, the well must be plugged in accordance with Water Management Board Rules, Chapter 74:02:04.

(continued)

4. Permit No. 6091-3 is subject to compliance with the existing and applicable Water Management Rules:
- a) Chapter 74:54:01 Ground Water Quality Standards,
 - b) Chapter 74:54:02 Ground Water Discharge Permit,
 - c) Chapter 74:51:01 Surface Water Quality Standards,
 - d) Chapter 74:51:02 Uses Assigned to Lakes,
 - e) Chapter 74:51:03 Uses Assigned to Streams, and
 - f) Chapter 74:52:01 through 74:52:11 Surface Water Discharge Provisions.

WATER MANAGEMENT BOARD

By: 
John Hatch, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

NOV 10 1998

date



FORM 2: Application for uses other than irrigation
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6091-3</u>	(office use only) Hydrologic Unit <u>10160607</u>
	Basin <u>DAMES RIVER</u>	
	Newspaper <u>FAULK CO. RECORD, FAULKTON, SD</u>	



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

Check use(s) of water:

☒ Municipal ☐ Suburban Housing ☐ Recreational ☐ Institutional
☐ Rural Water System ☒ Commercial ☐ Fish & Wildlife ☐ Geothermal Heat
☐ Domestic (over 18 gpm) ☐ Industrial ☒ Other CONFINED SWINE FACILITY

Type of Application: ☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
(check one) ☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☐ Amendment/Correction to Permit No. _____

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

1. Name of Applicant BRENTWOOD COLONY Phone (605) 598-4589
(check one) ☐ Owner ☐ Tenant/lessee
Mailing Address 15442 343RD AVENUE FAULKTON State SD 57438
(Street, RR, or Box and City) (Zip Code)

2. Amount of water claimed 0.1 *CFS or 45 **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply GROUNDWATER

4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 2 WELLS IN
SW 1/4, SECTION 5, T 119N, R 70W
County FAULK

5. County or counties where water will be used FAULK

6. Annual period during which water is to be used YEAR ROUND January 1 - Dec. 31

7. Give a description of the 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)

CONSTRUCTION OF NEW HOG BARNES WILL INCREASE THE ESTIMATED PEAK FLOW ABOVE ALLOWABLE LIMITS.

STATE OF SOUTH DAKOTA)
County of _____ SS

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

I, _____, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Michael J. [Signature]

Subscribed and sworn to before me this 10th day of July, 19 98

TERM: TENURE OF OFFICE
REGISTER OF DEEDS

[Signature]
Notary Public signature

Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth 1930'
- b) Casing Type BLACK Diameter 5" Thickness _____
- c) Screen Type PERFORATED COPPER Diameter 2 1/2" Thickness 200'
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 1705
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
On applicants property 2 1/4 MILE On property owned by others > 1 MILE

2. Wastewater Disposal System Information

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

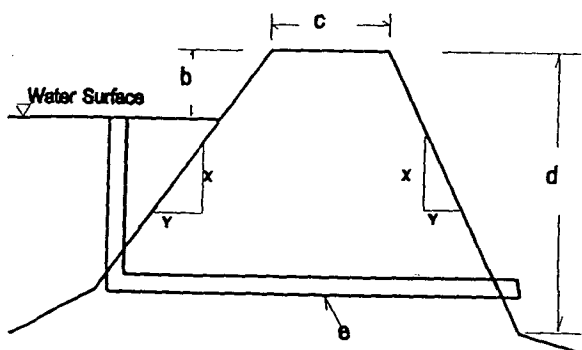
3. Dugout Information

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

4. Water Storage Dams

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

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



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

Supplemental Information

(type or print in ink)



1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth 1460'
- b) Casing Type COPPER PIPE Diameter 2 1/2" Thickness _____
- c) Screen Type STAINLESS Diameter JOHNSON .304 Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 1280'
- f) Depth to Water (ground surface to water level) 1280'
- g) Distance to nearest existing domestic well:
On applicants property ≈ 1/4 MILE On property owned by others > 1 MILE

2. Wastewater Disposal System Information

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

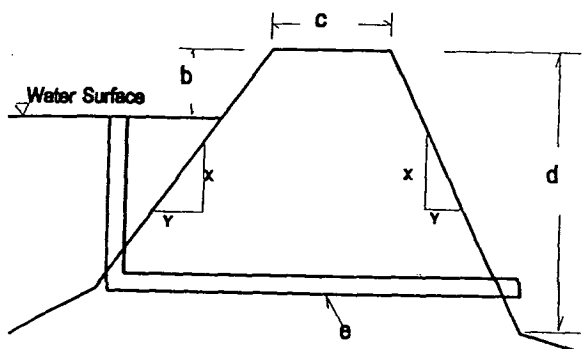
3. Dugout Information

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

4. Water Storage Dams

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

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



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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

June 22, 1998

Michael Wurtz
Brentwood Colony
15442 343rd Avenue
Faulkton, SD 57438

Dear Mr. Wurtz:

I am writing to ensure that you are aware of water right permit requirements in South Dakota for your proposed swine facility. Brentwood Colony's proposed facility was brought to my attention when plans were submitted for coverage under the general water pollution permit for a concentrated swine feeding operation.

I believe the submitted plan for the swine facility indicates water usage of 34,000 gallons per day with a peak diversion rate of 34 gallons per minute. State law requires that a water right permit be obtained to supply a livestock confinement feeding operation if the amount of water for **all** uses from wells at the site exceeds 25,920 gallons per day or if the **maximum** pump rate is greater than 25 gallons per minute. It certainly appears that water usage at the colony's proposed facility will require a water right permit. The exception to this is if the Colony is provided its water supply from a rural water system having existing water rights.

I believe in submitting plans you acknowledged that you would need to obtain a water right permit. Since we have not yet received an water right permit application for the facility I decided to send you this letter reminding you of the water right permitting requirement. I am enclosing a water right permit application form and instruction sheet.

The water right permitting process can take up to six months to complete or even longer if the application is contested and appealed to the court system. I want you to be aware of these time frames for planning purposes. Construction of the facility may be delay until the necessary water right permit is secured.

If you have questions about the water right permitting process or do not believe a water right permit is necessary for the proposed use, please feel free to contact me.

Sincerely,

Eric Gronlund
Water Rights Program
(605) 773-3352

enclosure

c: Jay Hodgens, Hodgens Engineering, 160 Dakota Ave. South, Huron SD

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

NE 415819

Pierre, July 13, 1998

RECEIVED OF Brentwood Hutterian Brethren, Inc. 15442 343rd Ave, Faulkton SD 57438-5900
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>6691-3</u> to Appropriate Water, to construct and to put water to beneficial use _____	50	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 _____		

(Any Other Work Provided by Law)	Total	50 00

By John Hatch
Chief Engineer
JOHN HATCH (JH)

Wecota, So. Dak.

WELL REPORT

HURON
DRILLING CO.
Huron, S. D.

5300

Faulk County

December 13, 1979

Thunderbird Colony

WM-5-119-70

OWNER

DESCRIPTION

DATE

CASING LOG

Depth	1460	ft.	300	ft. 1" M Hard Copper	pipe to	300	ft.
Flows		gpm					
Pumps	20	gpm	1060	ft. 2 1/2" L Hard	pipe to	1360	ft.
Head	132	ft.	100	2" Copper			
100 Ft. Stainless Steel Screen				ft. Johnson .304	pipe to	1460	ft.
Perforations				Stainless Steel Screen			
				ft. 25 Slot	pipe to		ft.

Pressure

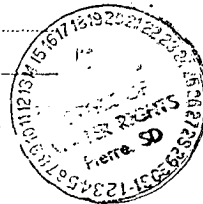
REMARKS

Drilling Time

Rig No. 9

Tom Rathjen

DM Foreman

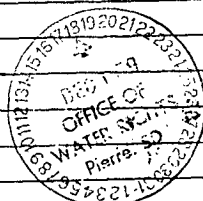


HURON DRILLING INC. DRILLERS LOG

PAGE NO. 1

Thunderbird Colony JOB NAME	5-119-70-Faulk County LOCATION	10/12/79 DATE	9 RIG NO.	Tom Rathjen FOREMAN
--------------------------------	--------------------------------------	------------------	--------------	------------------------

J# no.	DEPTH	TIME	REMARKS
1	20	11:00	0-20 Yellow clay
2	40	11:10	30 Blue clay
3	60	11:20	
4	80	12:20	
5	100	12:30	
6	120	12:35	
7	140	12:40	
8	160	12:47	
9	180	12:55	
10	200	1:00	
11	220	1:05	
12	240	1:15	
13	260	1:25	
14	280	1:35	
15	300	1:45	
16	320	1:50	
17	340	2:00	335-350 Sand and gravel
18	360	3:50	350-360 Sand and gravel streaks
19	380	4:30	360 Shale
20	400	4:50	7" Reamer to 400 Ft. 10/16/79
21	420	5:05	8 3/4" Hole to 400 Ft.
22	440	5:20	
23	460	5:35	
24	480	5:50	
25	500	8:45	10/17/79
26	520	9:10	
27	540	9:30	
28	560	9:50	
29	580	10:00	
30	600	10:12	
31	620	10:25	
32	640	10:35	
33	660	11:00	Put reamer on 11/27/79
34	680	4:00 PM	
35	700	4:15	
36	720	4:25	
37	740	4:30	
38	760	4:40	
39	780	4:55	
40	800	5:15	



DM

PAGE NO. 2

DM

HURON DRILLING INC. DRILLERS LOG

Wecota, SD

PAGE NO.

Thunderbird Colony
Brantwood Colony

Center of 5-119-70
Faulk County
LOCATION

March 11, 1983
DATE

24
RIG NO.

Tom Rathjen
FOREMAN

NO.	DEPTH	TIME	REMARKS
1	20		0-25 Yellow clay
2	40		25- Blue clay
3	60		
4	80		
5	100		
6	120		
7	140	10:15	
8	160	10:20	
9	180	10:30	
10	200	11:35	205- Rock at 205 ft.
11	220		220- Shale
12	240		
13	260		
14	280		
15	300		
16	320		Cemented 304' - 5" Blk. Pipe 60 bags cement
17	340		350-400 Hard shale 2-Drags bits
18	360		
19	380		
20	400		
21	420		
22	440		
23	460		
24	480		
25	500		
26	520		
27	540		
28	560		
29	580		
30	600		
31	620		
32	640		
33	660		
34	680		
35	700		
36	720		
37	740		
38	760		
39	780		
40	800		



HURON DRILLING INC. DRILLERS LOG

Wecota, SD

PAGE NO.

Thunderbird Colony
Brentwood Colony
JOB NAME

Center of 5-119-70
Faulk County
LOCATION

March 16, 1983
DATE

24
RIG NO.

Tom Rathjen
FOREMAN

Jt No.	DEPTH	TIME	REMARKS	
41	820			
42	840			
43	860			
44	880			
45	900			
46	920		920-	Greenhorn
47	940			
48	960			
49	980			
50	1000			
51	1020			
52	1040			
53	1060			
54	1080			
55	1100			
56	1120			
57	1140			
58	1160			
59	1180			
60	1200			
61	1220			
62	1240			
63	1260			
64	1280			
65	1300			
66	1320			
67	1340			
68	1360	2:45	1365-	Smith & Gruner Gear Bit #1
69	1380	3:07	1365-1380	Good Streaks
70	1400	3:50	1380-1400	Shale
71	1420	4:21	1400-1430	Streaked
72	1440	5:00	1430-1485	Shale
73	1460	5:40	1485-	V3S 4 1/2" Gear Bit #2
74	1480	12:30	1485-1495	Shale
75	1500	11:56	1495-1510	Streaked
76	1520	12:34	1510-1520	Good Streaks
77	1540	1:09	1520-1570	Poor streaks
78	1560	1:41	1570-1580	Good sand
79	1580	2:18	1580-1600	Shale, morrison
80	1600	3:27		

3-17-83

3-18-83

3-21-83

HURON DRILLING INC. DRILLERS LOG Wecota, SD

PAGE NO.

Thunderbird Colony Brentwood Colony JOB NAME		Center of 5-119-70 Faulk County LOCATION		March 21, 1983 DATE	24 RIG NO.	Tom Rathjen FOREMAN
Jt. No.	DEPTH	TIME	REMARKS			
81	1620	4:42	1600-1640	Shale, tuff morrison		
82	1640	6:30	1640-	V3S 4 1/2" Gear Bit #3		
83	1660	10:56	1640-1680	Shale Tuff morrison		3-22-83
84	1680	12:32	1680-1705	Shale and hard shale		
85	1700	1:36	1705-	Top of sundance		
86	1720	2:21	1705-1715	Hard streaks		
87	1740	2:50	1715-1730	Some good streaks		
88	1760	3:31	1730-1745	Good sand		
89	1780	4:19	1745-1755	Shale		
90	1800	9:30	1755-1775	Good sand		3-23-83
91	1820	9:45	1775-1790	Shale		
92	1840	12:52	1790-	V3S 4 1/2" Gear Bit #4		
93	1860	3:03	1790-1795	Shale		
94	1880	3:58	1795-1820	Good open sand		
95	1900	4:26	1820-1860	Shale		
96	1920	4:54	1860-1875	Good sand with shale breaks		
97	1930	TD	1875-1920	Good sand		
			1920-1930	Hard sand		

5722
Thunderbird Colony
Brentwood Colony
OWNER

Wecota, SD
WELL REPORT
Faulk County
Center of 5-119-70
DESCRIPTION

HURON
DRILLING CO.
Huron, S.D.
March 11, 1983
DATE

CASING LOG

Depth 1930 ft.
Flows 150 gpm 304 ft. 5" Blk. pipe to 304 ft.
Pumps 1930 gpm 2 1/2" K Copper pipe to 1930 ft.
Head ft. ft. pipe to ft.
200' 2 1/2" K Copper Perf. @Bottom ft. pipe to ft.
Perforations

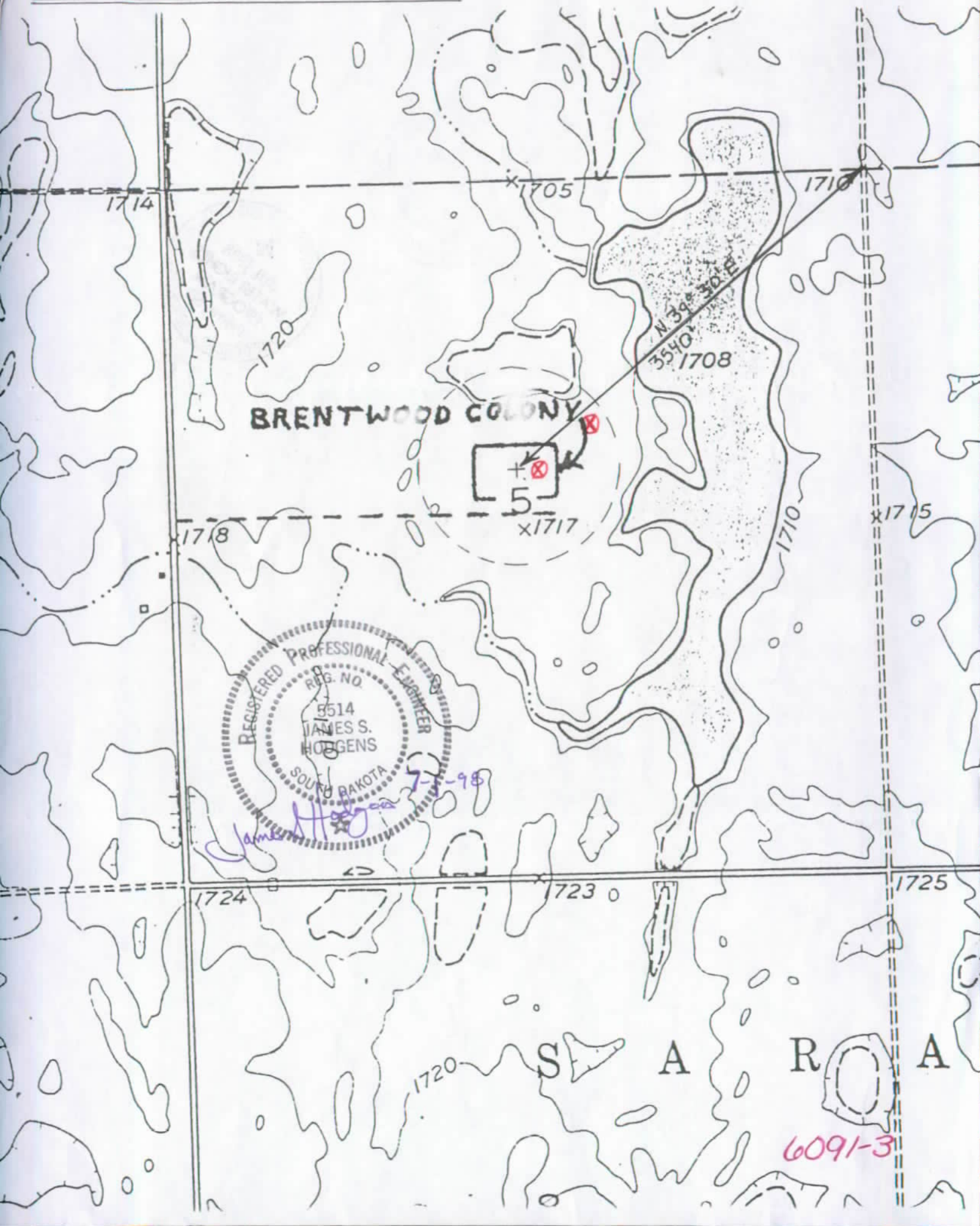
Pressure 1730-1930
9 days 304 ft. 5" Blk. cemented in place
Drilling Time

Rig No. 24 55 bags of cement
Tom Rathjen 3-5" Drag Bits, 4-4 1/2" Gear Bits
Foreman
jk 304 ft. of lap

REMARKS



N 39° 30' E @ 3540' FROM SECTION CORNER



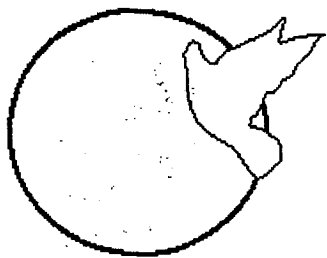
BRENTWOOD COLONY

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 5514
JAMES S. HODGENS
SOUTH DAKOTA

James Hodgens 7-7-98

SAROA

6091-3



HODGENS ENGINEERING

“Working to Protect our Valued Resources”

July 1, 1998

Attn: Eric Gronlund
South Dakota DENR, Water Rights Program
Joe Foss Building, 523 East Capitol
Pierre, South Dakota 57501-3181



RE: Brentwood Colony Water Rights Permit

Dear Eric,

Enclosed is the application for Brentwood Colony's water right permit to accompany their application for a concentrated swine facility. I filled out the application with as much information as I could find. If you have any concerns or questions, please feel free to contact me.

Thank you for your consideration in this matter.

Sincerely,

Chad E. Hanson, EIT
Staff Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

July 14, 1998

Chad E Hanson, Staff Engineer
Hodgens Engineering
160 Dakota Ave
Huron SD 57350

Dear Mr. Hanson:

Thank you for submitting the *Application for a Permit to Appropriate Water* on behalf of Brentwood Colony.

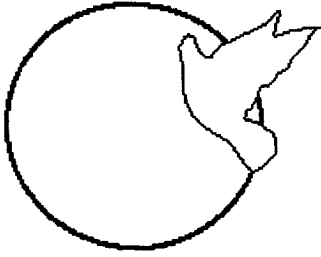
Enclosed is the map submitted with the application. Please indicate the location of each of the wells on the map with an "X" and return the map to us. Upon receipt of the map, further processing of the application will continue.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352

enclosure



HODGENS ENGINEERING

“Working to Protect our Valued Resources”

July 15, 1998

Karen Schlaak, Water Rights Program
South Dakota DENR
Joe Foss Building, 523 East Capitol
Pierre, SD 57501-3181



RE: Brentwood Colony Water Appropriation Application

Dear Karen,

In regards to you letter dated July 14, 1998, I place two red “X’s” on the enclosed map to indicate the well locations relative to the colony complex. Please don’t hesitate to contact me if you have any further concerns.

Thank you for your expediency in this matter.

Sincerely,

Chad E. Hanson, EIT
Staff Engineer

enclosure

Water Rights Program - File Documentation

NAME: Brentwood Colony

ADDRESS: Faulkton

DATE: 7-17-98 **COUNTY:** FA **TELEPHONE:**

RE: Diversion point location

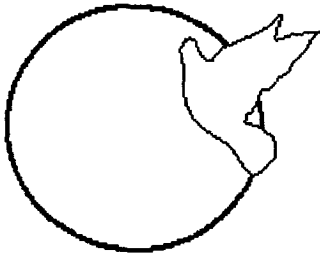
COMMENTS:

I called Chad Hanson, with Hodgens Engineering regarding the location the wells. The application stated the wells were located in SW $\frac{1}{4}$ Sec 5. The map indicated the wells were located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 5. Mr. Hanson stated the **location of the diversion points** should be changed on the application to the **SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 5**. Mr. Hanson further stated the swine facility is located in the SW $\frac{1}{4}$ Sec 5.

Mr. Hanson also stated he would like copies of all the information regarding public notice, etc. sent to him also.



Karen Schlaak
Environmental Scientist



HODGENS ENGINEERING

"Working to Protect our Valued Resources"

July 22, 1998

Attn: Ken Buhler
South Dakota DENR
523 East Capitol
Pierre, South Dakota 57501-3181



RE: Brentwood Colony Map Revision

Dear Ken,

Enclosed is the revised bearing direction in which originally was found false.

Sincerely,

Tony J. Hulst
Senior Technician

**Water Rights Program
File Documentation**

NAME OF PERSON OR FILE: Jim (Jay) Hodgens

ADDRESS: 160 Dakota Ave., Huron, SD COUNTY: Beadle

DATE: July 22, 1998 TELEPHONE: (605)352-4367

RE: Map for Water Permit Application No. 6091-3 (Brentwood Colony

COMMENTS:

I called Mr. Hodgens to discuss the map he signed for the Brentwood Colony application. I informed him that it appears the vector identified as 3540' N 39° 30' E on the map should actually be 3450' S 50° 46' W.

He was going to check on it and either call me back or submit a corrected map.

A handwritten signature in black ink, appearing to read 'Ken Buhler', with a long horizontal flourish extending to the right.

Ken Buhler
Natural Resources Engineer

WATER PERMIT APPLICATION NO. 6091-3
BRENTWOOD COLONY
JULY 29, 1998

Water Permit Application No. 6091-3 proposes to appropriate 0.1 cubic feet of water per second (45 gallons per minute) from two existing wells 1,930 and 1,460 feet deep located in the SW¼ NE¼ Section 5, T119N-R70W. The water is for commercial use in a swine confinement facility.

AQUIFERS: Dakota (DKOT) and Inyan Kara (INKR)

AQUIFER CHARACTERISTICS:

Dakota Aquifer:

The Dakota Formation consists of interbedded sand, sandstone, clay and sandy clay, approximately 300 feet thick in this area (Schoon, 1971). The variable lithology of the Dakota, both laterally and vertically, suggests that it was deposited in a fluvial environment. The Dakota underlies all of Faulk County as well as most of eastern and central South Dakota. The aquifer contains an estimated 14.659 million acre-feet of recoverable water in storage in Faulk County (Hedges, 1982). The driller's log provided with this application, reports the top of the Dakota is 1,280 feet below grade at this well. The Dakota aquifer is confined (under artesian conditions) in this area and the static water level of this existing well was reported to be 132 feet below grade.

The nearest Water Rights Program observation well completed into the Dakota Aquifer, (ED-85A), is approximately 34 miles north east of the well proposed for use by this application.

Since the first wells were completed into the Dakota Aquifer in the 1880's there has been a pronounced decline in the artesian head (water level). Several authors have discussed this decline. For example, in 1937 the South Dakota State Planning Board estimated that there were 418 wells completed into the Dakota Aquifer in Faulk County. The Board reported 38.8% of the Dakota wells had decreasing flow and 42.8 % had stopped flowing (South Dakota State Planning Board, 1937). Another example of the decline of water levels in the Dakota is at the Town of Ipswich, (approximately 25 miles north east of this site) where the USGS (Hamilton, 1982) reported "the decline in water levels of wells ... during 1885-1915 was more than 250 feet". Initially the rate of decline was 6 feet or more per year.

Hamilton, (1982) goes on to report:

"however, this rapid drop in pressure was slowed as yields of wells declined. Many wells failed by silting in or by collapse of iron casings which were rapidly corroded by the salty water. Other factors that may have reduced the rate of decline include: compaction of the aquifer and completion of wells in deeper beds in which the water is under higher pressure. ... As a result, the water level for the Dakota Formation at Ipswich was approximately the same in 1970 as in 1913." (Hamilton, 1982).

The decline in water level can also be observed by comparing the "Piezometric map of Dakota Formation in 1909 (after Darton)", "Piezometric map of Dakota Formation in 1914-15", "Piezometric map of Dakota Formation during 1936-53" published by Schoon, (1971); and the data

obtained from Water Rights' Observation well ED-85B. In the vicinity of this observation well, the potentiometric surface apparently has declined about 290 feet between 1909 and 1998. This water level decline has not been uniform with time. In the five years between 1909 and 1915 the potentiometric surface apparently declined 200 feet or at the average rate of 40 feet per year. Between 1915 and 1953 the water level appears to have declined approximately 100 feet or at an average of 2.6 feet per year. The water level measured in 1985 was essentially the same as that estimated for 1953 map. Actual water level measurements taken from the observation well indicate the water level rose 2.6 feet from 1985 to 1998 (figure 1).

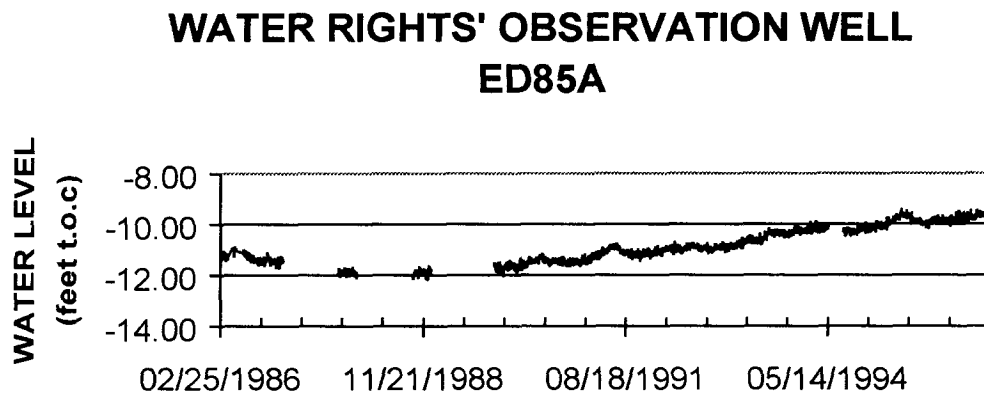


Figure 1

The Dakota Formation head pressure appears to have been stabilizing relative to withdrawals and discharges in recent years. In fact, since about 1987 the water level has risen in the observation well, possibly with the advent of WEB Rural Water System replacing Dakota Aquifer wells for a fairly significant population in the area.

The Dakota Aquifer is widely used as a source of domestic water in this area. There are only three water permits/rights appropriating water from the Dakota Aquifer in Faulk County (The towns of Cresbard, Orient and Rockham). Cresbard and Rockham are now on WEB RWS. The nearest appropriation from the Dakota is over 20 miles from this well. Interference should not be a concern.

Inyan Kara Aquifer:

The Inyan Kara aquifer (locally referred to as the "Sundance" Aquifer) consists of the sandstone and siltstone of the Inyan Kara Group. The Inyan Kara underlies 882 square miles of Faulk County and contains an estimated 3.175 million acre feet of recoverable water in storage in the county (Hedges, 1982). The driller's log reports the top of the aquifer is 1,705 feet below grade. The log reports intermittent sand and shale to the total depth of the well (1,930 feet). The Inyan Kara aquifer is confined (under artesian conditions) in this area and this existing well reportedly flowed 150 gpm when it was completed in 1983.

The nearest Water Rights Program observation well completed into the Inyan Kara Aquifer, (ED-85B), is approximately 34 miles north east of the diversion point proposed by this application.

The exploitation of the Inyan Kara has not been as extensive as the Dakota and historic data is sparser. Hamilton, (1982) reports that the water levels in the Inyan Kara Aquifer have declined and

“probably are declining because of increased discharge.” Data from Water Right’s Observation Well ED-85B (see figure 2) appears to contradict Hamilton’s report.

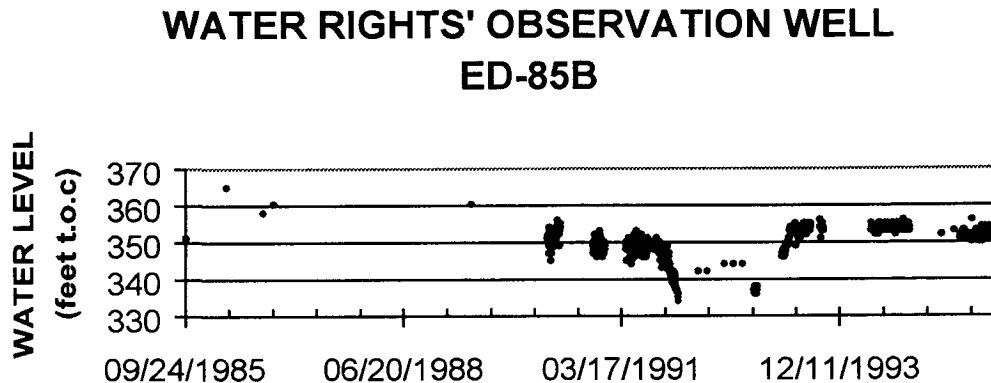


Figure 2

There are existing domestic wells completed into the Inyan Kara in Faulk County, The nearest one on file with the Water Rights Program is over two miles from this well. The nearest Inyan Kara Permit No. 5890-3 (Evergreen Colony) is located approximately 12 miles east. Interference should not be a problem.

DISCUSSION:

SDCL 46-6-3.1 requires that an application to appropriate groundwater may not be approved if, “according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of the water to the groundwater source”. Average annual recharge has not been quantified for either the Dakota Aquifer or the Inyan Kara Aquifer. These estimates are not expected to be ascertained in the near future. The best information available to evaluate development as it relates to recharge, are historical records and data from observation wells. The difference between withdrawal from an aquifer and recharge is reflected by the water levels of the aquifer. If the water level of an aquifer continues to decline, it may suggest that withdrawals exceed recharge. However, withdrawals from a confined aquifers such as the Dakota and the Inyan Kara, affect water levels over a relatively large area. Water levels will continue to decline as the result of withdrawals until a dynamic equilibrium is established and water levels stabilize.

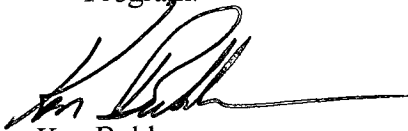
Although South Dakota Water Law (SDCL 46-6-3.1) does not allow “mining” of an aquifer, which could be evidenced by a decline of water levels; Water Law (SDCL 46-6-6.1) does not require the artesian head pressure to be protected. However, the Courts have determined that the Board must consider the effect of a limitation or a loss of artesian head pressure as one of the factors under the public interest determination.

The wells to be used to supply this permit were constructed in 1979 and 1983. The completion report filed for this Inyan Kara well indicates that 304 feet of the well’s 1,930 feet of casing was cement-grouted. None of the casing in this Dakota well was grouted. This type of construction “slim hole construction” is less expensive than cement-grouted the entire casing length but more likely to fail. The annular seal, and ultimately the well success, in this type of construction depend

on the shale above the production aquifer sloughing off, filling and sealing the annulus. In 1992, in an effort to limit this type of well construction, the Water Management Board restricted this type of construction to private domestic use wells only (ARSD 74:02:04:35 & 74:02:04:36). This type of construction would not be allowed under the current Well Construction Standards for this well use.

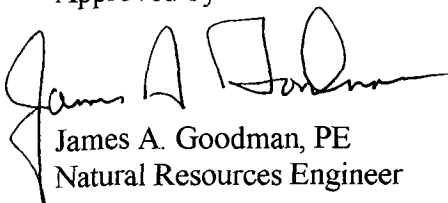
CONCLUSIONS:

1. The Dakota and Inyan Kara are viable aquifers in this area.
2. Average annual recharge for either the Dakota Aquifer or the Inyan Kara Aquifer has not been quantified and it is not expected to be ascertained in the near future. The best information available to determine the availability of unappropriated water is historical data and observation well records. Unappropriated water is available in the aquifer to sustain additional withdrawals.
3. Water Levels (head pressures) have declined in the Dakota and Inyan Kara Aquifers since the first wells were completed into the aquifers. However, whether withdrawals exceed the average estimated annual recharge can not be determined based solely upon a decline in head pressure.
4. In theory, the artesian head pressures of the Dakota and Inyan Kara Aquifers is at least stabilizing relative to withdrawals and recharge, and may in fact be increasing as water use from the aquifers decreases.
5. Each new diversion from the Dakota or Inyan Kara Aquifers will theoretically cause an additional effect of the head pressure of the aquifer. The withdrawals proposed by this application upon the Dakota Aquifer and Inyan Kara Aquifer will not have significant affects upon the decline or stabilization of the head pressure in the aquifers.
6. The water management Board is not required to protect artesian head pressure as a means of diversion. However, the board must consider the effect of a limitation or a loss of artesian head pressure as one of the factors under the public interest determination.
7. Plans and Specifications for waste handling for a swine confinement facility have been reviewed and approved by the Department of Environment and Natural Resources, Surface Water Quality Program.



Ken Buhler
Natural Resources Engineer

Approved by



James A. Goodman, PE
Natural Resources Engineer

REFERENCES:

Hamilton, L.J., 1982, Geology and Water Resources of McPherson, Edmunds, and Faulk Counties, South Dakota, Bulletin 26, SD DENR, Geological Survey, Vermillion, SD

Hedges, L.S., etal, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army corps of Engineers, SD DENR, Geological Survey, Vermillion, SD

Schoon, R.A., 1971, Geology and Hydrology of the Dakota Formation in South Dakota, Report of Investigations No 104, SD DENR, Geological Survey, Vermillion, SD

SD State Planning Board, 1937, Artesian Well Flow in South Dakota, a Preliminary Report of the Agricultural Resources Committee, Brookings, SD

Water Rights, 1998, Unpublished Observation Well Data for Dakota Aquifer and Inyan Kara Aquifer, SD DENR, SD DENR, Water Rights Program, Pierre, SD

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6091-3, Brentwood Colony**

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. 6091-3, Brentwood Colony, c/o Michael Wurtz, 15442 343rd Avenue, Faulkton SD 57438.

The Chief Engineer is recommending APPROVAL of Application No. 6091-3 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 wells 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. Permit No. 6091-3 is subject to compliance with requirements of the General Water Pollution Control Permit for concentrated swine feeding operation.
3. The Inyan Kara well approved under this Permit shall be valved and the flow reduced to the amount needed or to a minimum of 5 gallons per minute when not being used. Such records shall be available to the Chief Engineer upon request. If this well is abandoned or the Permit cancelled, the well must be plugged in accordance with Water Management Board Rules, Chapter 74:02:04.
4. Permit No. 6091-3 is subject to compliance with the existing and applicable Water Management Rules:
 - a) Chapter 74:54:01 Ground Water Quality Standards,
 - b) Chapter 74:54:02 Ground Water Discharge Permit,
 - c) Chapter 74:51:01 Surface Water Quality Standards,
 - d) Chapter 74:51:02 Uses Assigned to Lakes,
 - e) Chapter 74:51:03 Uses Assigned to Streams, and
 - f) Chapter 74:52:01 through 74:52:11 Surface Water Discharge Provisions.

See report on application for additional information.



JOHN HATCH, Chief Engineer
August 24, 1998

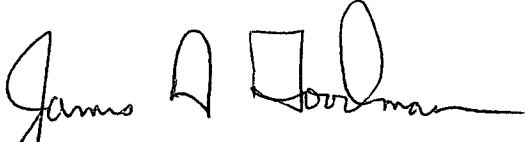
**REVISED RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6091-3, Brentwood Colony**

Pursuant to SDCL 46-2A-2, the following is the revised recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 6091-3, Brentwood Colony, c/o Michael Wurtz, 15442 343rd Avenue, Faulkton SD 57438.

The Chief Engineer is recommending APPROVAL of Application No. 6091-3 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 wells 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. Permit No. 6091-3 is subject to compliance with requirements of the General Water Pollution Control Permit for concentrated swine feeding operation.
3. The Inyan Kara well approved under this Permit shall be valved and the flow reduced to the amount needed or to a minimum of 5 gallons per minute when not being used. If this well is abandoned or the Permit cancelled, the well must be plugged in accordance with Water Management Board Rules, Chapter 74:02:04.
4. Permit No. 6091-3 is subject to compliance with the existing and applicable Water Management Rules:
 - a) Chapter 74:54:01 Ground Water Quality Standards,
 - b) Chapter 74:54:02 Ground Water Discharge Permit,
 - c) Chapter 74:51:01 Surface Water Quality Standards,
 - d) Chapter 74:51:02 Uses Assigned to Lakes,
 - e) Chapter 74:51:03 Uses Assigned to Streams, and
 - f) Chapter 74:52:01 through 74:52:11 Surface Water Discharge Provisions.

See report on application for additional information.


for JOHN HATCH, Chief Engineer
September 29, 1998



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

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

August 26, 1998

Brentwood Colony
%Michael Wurtz
15442 343rd Ave.
Faulkton, SD 57438

Dear Mr. Wurtz:

Water Permit Application No. 6091-3 for commercial use (swine facility) 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 Publisher of the Faulk Co. Record printed at Faulkton, SD (Ph # (605) 598-6525). For your information, a copy of the notice, the recommendation of the Chief Engineer and a 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 of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has 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

enclosures

c: Chad Hanson, Hodgens Engineering, 160 Dakota Ave. South, Huron, SD 57350

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

August 26, 1998

Faulk Co. Record
Box 68
Faulkton, SD 57438-0068

ATTENTION: Legal Department

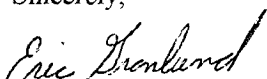
Enclosed is a Notice of Hearing on Application No. 6091-3 to Appropriate Water to be published twice. Please publish the first notice on September 2, 1998, with the second publication 7 days later.

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 Brentwood Colony, %Michael Wurtz, 15442 343rd Ave., Faulkton, SD 57438 (Ph # (605) 598-4589).

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. 6091-3

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

Date _____

We are in receipt of your letter of August 26, 1998, enclosing Notice of Hearing to Appropriate Water by Application No. 6091-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper

Instruction to Newspaper - Publish first Notice on September 2, 1998, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6091-3 to Appropriate Water

Notice is given that Brentwood Colony, Michael Wurtz, 15442 343rd Ave, Faulkton SD 57438 has filed an application for a water permit to appropriate 0.1 cubic feet of water per second (45 gallons per minute) from two existing wells, a Dakota Formation well 1460 feet deep and an Inyan Kara Formation well 1930 feet deep located in the SW ¼ NE ¼ Section 5-T119N-R70W. The water is for commercial use in a new swine confinement facility and other livestock facilities at the colony.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6091-3 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.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to 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 September 21, 1998. 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.

The Water Management Board will consider this application at 10:00 a.m., October 1, 1998, Floyd Matthew Training Center, Joe Foss Building, 523 East Capitol, Pierre, SD. 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. The October 1, 1998, hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by September 21, 1998.

Any hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. 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. Contact Eric Gronlund by September 21, 1998, at the above Water Rights Program address to request copies of information pertaining to this application, to assure access to the hearing by the handicapped or to obtain an interpreter for the hearing impaired.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 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, 46-2A-20, 46-2A-21; 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, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.

Form 8



PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
County of Faulk)

I, James B. Moritz

certify that the attached printed Notice was taken
from the Faulk County Record

printed and published in Faulkton

County of Faulk and

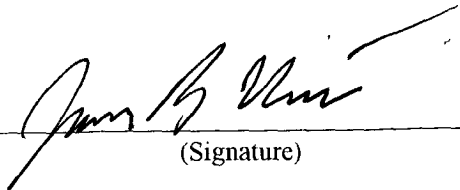
state of South Dakota. The notice was published

in the newspaper on the following two dates:

Wednesday, September 2, 1998

Wednesday, September 9, 1998

Cost of Printing \$54.52


(Signature)

Editor

(Title)

9-11-1998

(Date Signed)

No. 219, Sept. 2 & 9, 1998

Notice of Application

No. 6091-3 to Appropriate Water

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Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6091-3 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.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to 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 September 21, 1998. 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.

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Any hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. 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. Contact Eric Gronlund by September 21, 1998, at the above Water Rights Program address to request copies of information pertaining to this application, to assure access to the hearing by the handicapped or to obtain an interpreter for the hearing impaired.

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**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

NOV 10 1998

Brentwood Colony
%Michael Wurtz
15442 343rd Ave.
Faulkton, SD 57438

Dear Mr. Wurtz:

Enclosed is Water Permit No. 6091-3 authorizing construction of your water diversion system and beneficial use of the water, 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,

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

enclosures

PLEASE NOTE: Certain changes may be made to your water permit usually without affecting the priority date. The location of a point of diversion may be changed or additional points of diversion may be approved if the water source remains unchanged; no additional water is appropriated; and, if irrigating, no additional land is irrigated. The change may be allowed without application or publication, if the Water Rights Program is contacted and the chief engineer makes a finding that the change does not increase the potential for interference with existing diversions.

A new water permit application is required to change water sources, increase the permitted diversion rate, or increase the irrigated acreage. If the application is approved, the water permit will receive a new priority date.



6091-3
**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

denr.sd.gov

January 24, 2018

Brentwood Colony
15442 343rd Ave
Faulkton SD 57438

Dear Sir:

A well completion report filed by Stretch's Well Service Inc. shows that they recently completed a new well for Brentwood Colony. A review of our files indicates Water Permit No. 6091-3 was issued 45 gallons per minute (gpm) from two wells, approximately 1460 and 1930 feet deep located in the SW 1/4 NE 1/4 Section 5-T119N-R70W for use in a swine confinement facility and other livestock facilities at the colony.

Is this a replacement well or an additional well which does not increase the total appropriation of 45 gpm? If the authorized diversion rate is increased, a new water permit will need to be obtained. Once we know this information, we can determine what additional action, if any, needs to be taken to ensure the water permit accurately reflects the colony's use.

Please contact Eric Gronlund or me regarding the status of this well or if you have any questions.

Sincerely,

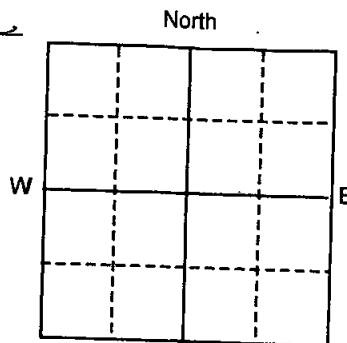
Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW 1/4 NE 1/4 Sec 5 Twp 19N Rg 70WCounty Faulk

Please mark well location with an "X"



Well Completion Date

11/1/2017

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 Stainless Steel

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
250 LB/FT	5 IN	0 FT	1335 FT	7 7/8 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Portland	200	15 Lb/gal	0 Ft	1335 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
Pumped through 5" pipe

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 2 Inches Length 60 Feet
Material Stainless SteelSlot Size .025 Set From 1340 Feet to 1400 Feet

Other information

WAS A PACKER OR SEAL USED?

☒ Yes ☐ NoIf so, what material? CementDescribe packer(s) and location
1335'

DISINFECTION:

Was well disinfected upon completion?

☒ Yes, How? Chlorine☐ No, Why Not?Lab to which water
quality sample sent for analysisWell Owner: Brentwood Colony

Business Name:

Address: 15442 343rd AveCity, State, Zip: Faulton SD 57438

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	5
Yellow Clay	5	20
Sand	20	40
Shale	40	260
Slate Hard	260	400
Shale	400	1340
Dakota	1340	1400

STATIC WATER LEVEL

250 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: Air
☐ Bailed
☐ Other

Pumping Level Below Land Surface

250 Ft. After 14 Hrs. pumped 20 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

Dakota NRThis well was drilled under license # 722 and this report is true and accurate.Drilling firm: Stretch's Well Service Inc.

Signature of License Representative:

Tom Flatjen

Signature of Well Owner or Equitable Property Holder:

Date:

RECEIVED

DEC 29 2017

WATER RIGHTS PROGRAM