

WATER PERMIT NO. 6516-3

Name of Applicant: John Rasmussen

Address: 37021 270th St, Platte SD 57369

Phone: 605 337-3090

Amount of Water Claimed: 0.067 cfs

Total Acres: NA

Source of Water Supply: groundwater (two wells)

Water to be used for: commercial – cattle feedlot

County: Charles Mix

Type of Waste Disposal System:

Location: 5 miles northeast of Platte

PRIORITY

Date Received: 6-1-04

Application/License Fee: \$200

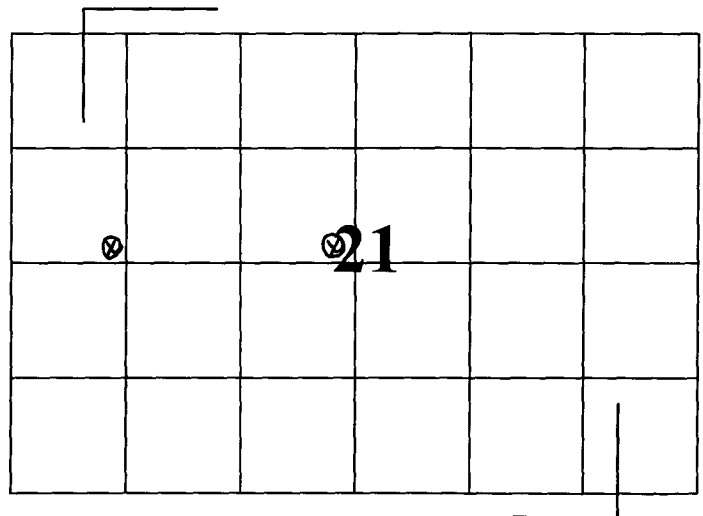
Corrected Application Received: 6-16-04

Period of Annual Use: Jan – Dec 31

Remarks:

Diversion Point: SE ¼ NE ¼ Sec 20 and SE ¼ NW ¼ Sec 21; all in T100N-R67W

Land to be Irrigated: NA



Depth of Well: 900 and 55 feet deep

Well Driller:

Remarks:

Type of Map: topo

Prepared by: Gregory G Grabs, PE

Reviewed and the Number Assigned on: 6-16-04

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

originally
received 6/1/04

RECEIVED

JUN 16 2004

WATER RIGHTS
PROGRAM

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6516-3</u>	(office use only) Hydrologic Unit <u>10140101</u>
	Basin <u>Missouri River</u>	
	Newspaper <u>Platte Enterprise, Platte</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 <u>Beef Livestock</u> | |

Type of Application: (check one)

- ☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
☐ 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 John Rasmussen Phone (605) 337-3090
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address P.O. Box 382 37021 270th St State SD 57369-6106
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 0.067 *CFS or 30 **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 1 Artesian Well/22.5 GPM, & 1 Shallow Well/7.5 GPM
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Charles Mix
Artesian Well in SE 1/4 of NE 1/4, Section 20, T 100 N, R 67 W, Shallow Well in SE 1/4 of NW 1/4, Section 21, T 100 N, R 67 W
5. County or counties where water will be used Charles Mix
6. Annual period during which water is to be used Year Around Jan 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)

Application for two existing wells to serve a 920 head beef feedlot with the possibility to expand to 2,000 head.

STATE OF SOUTH DAKOTA)

County of Charles Mix 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, John Rasmussen, 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

John Rasmussen

Subscribed and sworn to before me this 14th day of June 20 04

Ronald E. Miller

Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 6516-3**

Date of first receipt of application June 16, 2004.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6516-3 to John Rasmussen, 37021 270th St, Platte SD 57369 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. 6516-3 appropriates 0.067 cubic feet of water per second (30 gallons per minute) from two existing wells, 900 feet deep (Dakota Formation) and 55 feet deep (Pleistocene Unknown Aquifer) located in the SE ¼ NE ¼ Section 20 and SE ¼ NW ¼ Section 21; all in T100N-R67W. The deeper well produces 22.5 gpm and the shallow well produces 7.5 gpm.
2. The water appropriated shall be used for the purpose of commercial use in a cattle feedlot operation 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 of approval of Permit No. 6516-3 is September 13, 2004.
5. The date from which applicant may claim right is June 16, 2004.
6. One-fifth of the construction is to be completed on or before March 13, 2007.
7. All construction is to be completed on or before September 13, 2009.
8. Water is to be put to beneficial use on or before September 13, 2013.
9. 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. 6516-3 is subject to compliance with requirements of the Department's Water Pollution Control Permit issued pursuant to SDCL 34A-2-36 or 34A-2-112 for concentrated animal feeding operations.
3. Permit No. 6516-3 is subject to compliance with all existing and applicable Water Management Board Rules including but not limited to:
 - 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: Garland Erbele

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

NOV 19 2004

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter Unavail. Depth 900', 55'
- b) Casing Type Steel Diameter 21-6", 20-5" & 2" Thickness _____
- c) Screen Type Unknown Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____ Well Logs were not found
- 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 applicants property 2,627 feet On property owned by others 7,700 feet

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

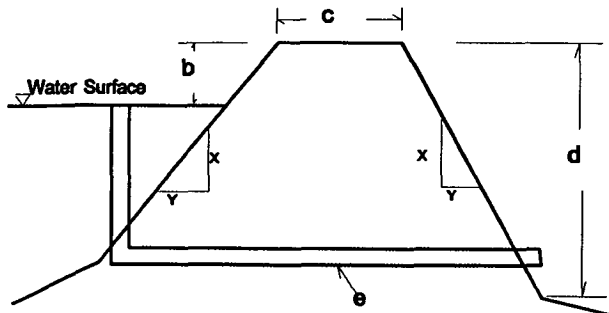
3. Dugout Information

- 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

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date June 1, 20 04

RECEIVED OF John R. Rasmussen Cattle Co., Box 382, Platte SD 55369

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

Fee for Application for Permit No. <u>16516-3</u> to Appropriate Water, to construct and to put water to beneficial use	150	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>16516-3</u>	50	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	200.00

No.

001143

By

Darlene E. White

Chief Engineer

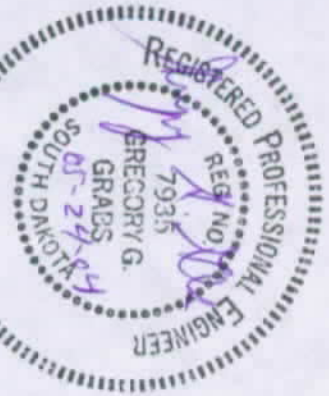
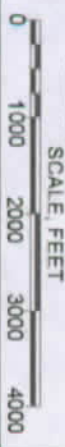
gm



GENERAL NOTES

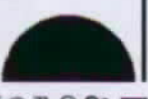
- Legend
- Registered Wells
 - Unregistered Wells

USGS Quadrangle Maps:
Platte
Joubert



DeHaan, Grabs & Associates, LLC
Registration Number: C-1341

No.	Revision/Issue	Date

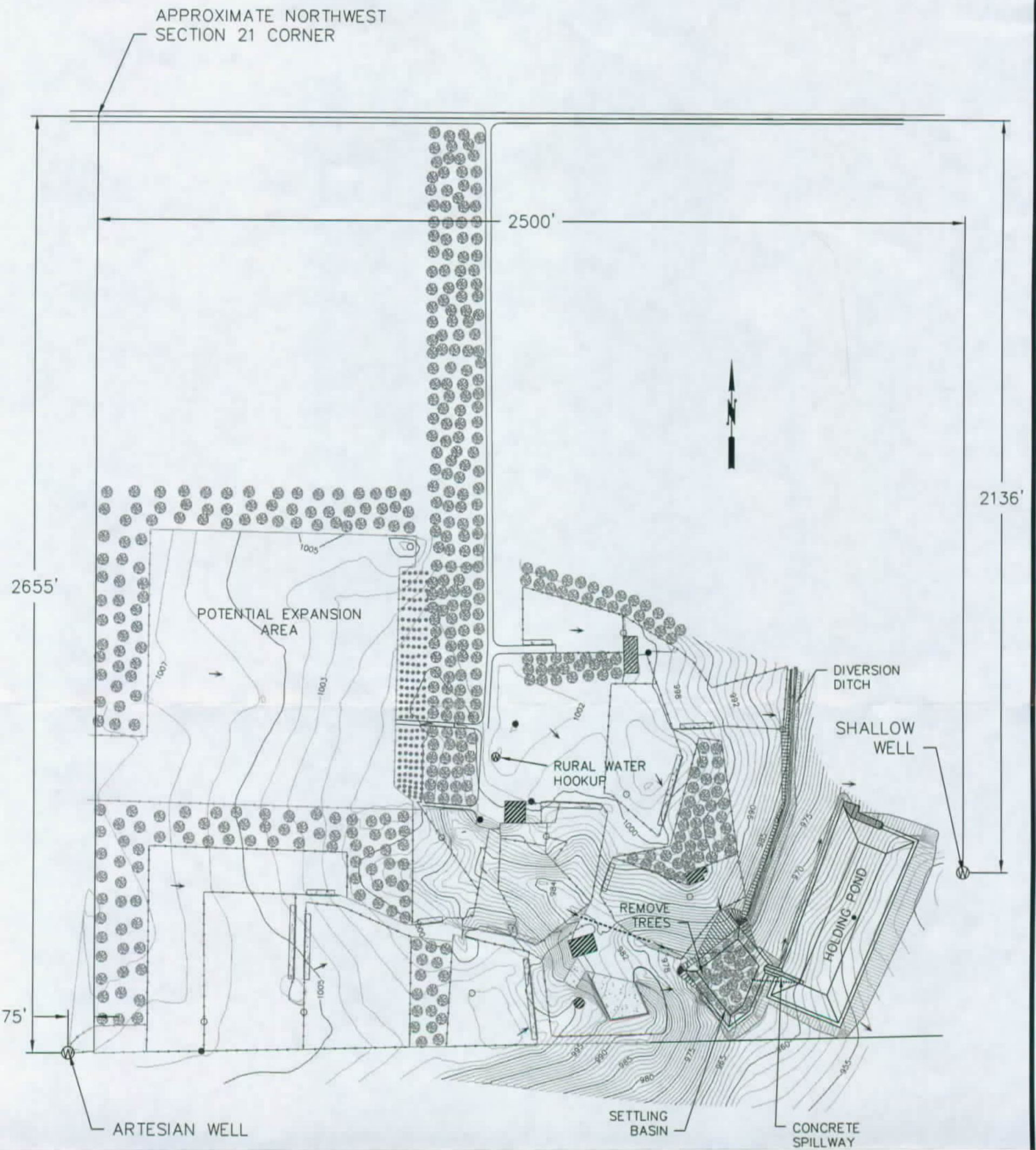
**DeHaan, Grabs
& Associates, LLC**
Consulting Engineers
PO Box 522, Mandan, ND 58554
(701) 663-1116, FAX: (701) 667-1356
www.dgaengineering.com

**JOHN RASMUSSEN
CATTLE COMPANY INC.**

NW ¼, SECTION 21, T 100 N, R 67 W
CHARLES MIX COUNTY, SD

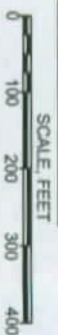
USGS SITE LOCATION MAP

DATE: APRIL 15, 2004	SHEET: 2
SCALE: 1" = 2000'	
DRAWN BY: NAP	
CHECKED BY: DLD	



GENERAL NOTES

LEGEND



DeHaan, Grabs & Associates, LLC
Registration Number: C-1341

No.	Revision/Issue	Date
1	RURAL WATER DESC.	06/09/04

DeHaan, Grabs & Associates, LLC
Consulting Engineers
PO Box 522, Mondak, ND 58554
(701) 663-1116, FAX: (701) 667-1356
www.dgaengineering.com

JOHN RASMUSSEN
CATTLE COMPANY INC.

NW 1/4, SECTION 21, T 100 N, R 67 W
CHARLES MIX COUNTY, SD
**WELL LOCATION OF
PROPOSED SITE PLAN**

DATE:
05/06/2004

SHEET:

SCALE:
1" = 300'

DRAWN BY:
NAP

CHECKED BY:
DLD

1

Table 1. Records of wells and test holes in Charles Mix County--Continued

Local number	Owner	Principal aquifer	Depth of well or test hole (feet)	Casing diameter (inches)	Date completed	Use of water	Water level (feet)	Date water level measured	Altitude of land surface (feet)
100N67W10BCBD	Sly, Allen	211DKOT	950	2.0	1930	H,S	--	--	1,538
100N67W10CCDD	Foxley, Whit	211DKOT	750	2.0	1964	H,S	--	--	1,525
100N67W12AAAAA	Van Driesen, John	112PLSC	20	2.0	--	H,S	--	--	1,550
100N67W12ABAA	SDGS	112PLSC	195	--	10-01-1968	U	--	--	1,562
100N67W12BBBD	Tegethoff, Harry	112PLSC	13	48.0	1965	H,S	7	1967	1,526
100N67W12CDDD	SDGS	112PLSC	44	--	08-12-1969	T	--	--	1,530
100N67W13ACCC	SDGS	112PLSC	19	--	08-12-1969	U	10	08-12-1969	1,603
100N67W13BCCB	USGS	112PLSC	113	--	07-12-1967	U	--	--	1,533
100N67W14BAAA	Foxley, Wendell	211DKOT	850	3.0	1922	S	--	--	1,575
100N67W17DDDD	Syl, Earl	211DKOT	750	3.0	1921	S	40	1969	1,588
100N67W18BAAA	Brink, Bernard	211DKOT	850	3.0	1945	H,S	--	--	1,624
100N67W18DD	Hoffman, Melvin	112PLSC	30	30.0	01-14-1974	H	--	--	1,605
100N67W19AAAA	Delire, John	211DKOT	946	3.0	1959	--	--	--	1,605
100N67W19AADC	Delire, John	211DKOT	946	3.0	1959	S	--	--	1,600
100N67W19BAAC	Postman, Donald	211DKOT	800	2.0	1942	S	12	1969	1,602
100N67W20CDDD	Sly, Gerald	211DKOT	850	2.0	1960	U	9	10-17-1967	1,550
100N67W21BDCC	Sly, Gerald	211DKOT	850	3.0	1951	S	--	--	1,560
100N67W21CCCC	SDGS	112PLSC	125	--	09-30-1968	U	--	--	1,508
100N67W21DDCC	Sly, Gerald	211DKOT	850	--	1952	S	--	--	1,575
100N67W23BAAB	Voetberg, Ralph	211DKOT	850	--	--	H,S	--	--	1,515
100N67W24ADDA	SDGS	112PLSC	245	--	10-02-1968	U	--	--	1,547
100N67W24BCC	Vanderheiden, E.	211DKOT	780	4.0	06-26-1967	S	--	--	1,525
100N67W24BD	Vanderheiden, R.	211DKOT	860	2.0	09-25-1987	U	--	--	1,524
100N67W25ADDD	VanZee, Lloyd	211CDLL	450	--	--	H,S	--	--	1,554
100N67W26ABBB	Ringling, Virgil	211CDLL	450	2.5	1959	H,S	--	--	1,523
100N67W28ACDC	Hiemstra, Harry	211DKOT	850	3.0	1945	H,S	--	--	1,589
100N67W30DAAD	Knoll, Garrett	211DKOT	630	4.0	1945	H,S	--	--	1,550
100N67W31DDAA	Burma, John	211DKOT	835	3.0	1945	H,S	--	--	1,585
100N67W32BCCD	Burma, John	211DKOT	855	3.0	1952	S	27	10- -1967	1,570
100N67W32DDDD	Burma, John	211DKOT	835	3.0	1920	S	--	--	1,586

$$\begin{array}{r}
 13 \\
 21 \\
 \hline
 13 \\
 26 \\
 \hline
 293
 \end{array}$$

273-5"

$$\begin{array}{r}
 29 \\
 21 \\
 \hline
 29 \\
 58 \\
 \hline
 609 \\
 273 \\
 \hline
 882 \\
 21 \\
 \hline
 861
 \end{array}$$

$$\begin{array}{r}
 39 \\
 27 \\
 \hline
 12
 \end{array}$$

$$\begin{array}{r}
 28 \\
 21 \\
 \hline
 28 \\
 56 \\
 \hline
 544 \\
 273 \\
 \hline
 861 \\
 21 \\
 \hline
 840
 \end{array}$$

$$\begin{array}{r}
 27 \\
 21 \\
 \hline
 27 \\
 54 \\
 \hline
 567 \\
 273 \\
 \hline
 840 \\
 21 \\
 \hline
 860
 \end{array}$$

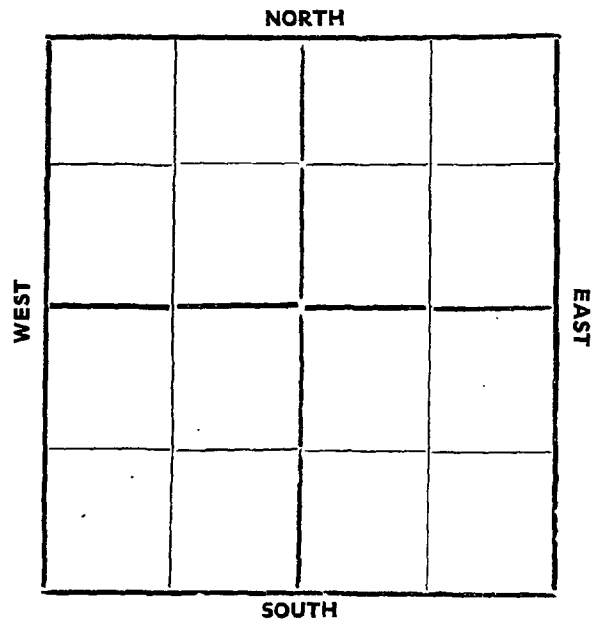
Well Log

FOR Gerald Sly

ADDRESS Platte
So. Dak.

Carl Meier & Sons
White Lake, S. Dak.

[illegible]



(Surv.) (Blk.) (Sec.)
(Sec.) (Twp.) (Rge.)

Location Made _____ **19** _____

By _____

Drilling Commenced Dec 18 1972

Drilling Completed Dec 19 1972

Contractor Arlyn Meier

P. O. Address Platte S. Dak.

Casing, Tubing and Rods				
Size	Wt.	Kind	Cased At	Kind Packer or Shoe
270				
5	Std	BLK	270	
3	"	"	570	
			860	
		72' 1/4 pumping		
		3/4 pump		
		Pitless Unit		
		Water level -20'		
		82 gal Tank		

CONTRACTOR'S STATEMENT

feet drilling at	\$
feet drilling at	\$
days cleaning out at	\$
days pulling pipe at	\$
days pulling at	\$
	\$
	\$
	\$
TOTAL	\$
Deductions	\$
BALANCE	\$

FUEL AND WATER

Gas - Gasoline
 Days Cleaning Out
 Days Drilling
 Water
 Days Cleaning Out
 Days Drilling

REMARKS

535
160
740

Thickness of Strata	Formation	TOTAL
520	Canlike Shale	
540	Canlike Shale	
560	Canlike Shale	
580	Canlike Shale	
600	Green horn	600' 620'
620	Granerous Shale	
640	Granerous Shale	
660	Newcastle -	
680	Granerous Shale	
700	Granerous Shale	
720	Granerous Shale	
740	Granerous Shale	
760	Granerous Shale	
780	Granerous Shale	
800	Granerous Shale	
820	Sandy Shale	
840	Sand Rock	Dakota
860	Sand Rock	

CLEANING OUT RECORD

Date Commenced Cleaning Out

Depth Commenced Cleaning Out

Date Cleaning Out Completed

Depth Cleaning Out Completed

Drilled Deeper No. of Feet

Production Prior to Cleaning

Production after Cleaning

Ft. Casing Put In

Ft. Casing Put In

Ft. Liner Put in

Ft. Liner Pulled

Bottom of Liner Set at Ft.

REMARKS:

210 feet 5"

$$\begin{array}{r} 800 \\ 215 \\ \hline 585 \\ 800 \end{array}$$

$$\begin{array}{r} 33 \\ 21 \\ \hline 33 \\ 66 \\ \hline 693 \end{array}$$

$$\begin{array}{r} 27 \\ 21 \\ \hline 27 \\ 54 \\ \hline 567 \\ 210 \\ \hline 777 \end{array}$$

$$\begin{array}{r} 1 \\ 25 \\ 21 \\ \hline 25 \\ 60 \\ \hline 525 \\ 210 \\ \hline 735 \\ 22 \\ \hline 757 \\ 21 \\ \hline 778 \end{array}$$

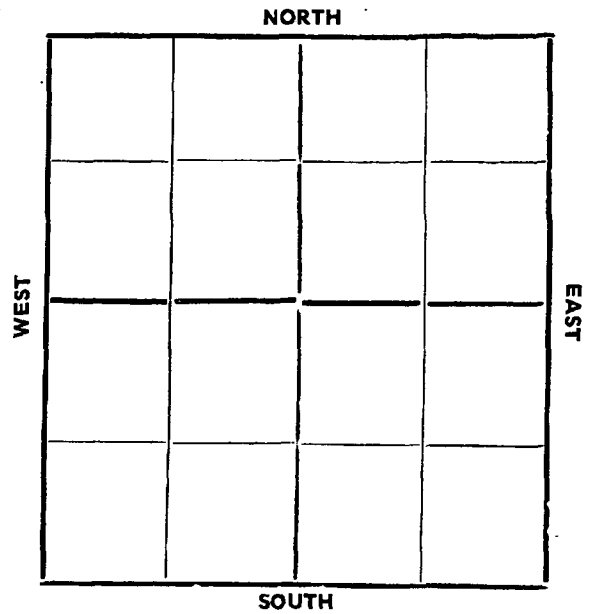
Well Log

FOR Harold Sly

ADDRESS Platte
So Dak

Carl Meier & Sons
White Lake, S. Dak.

[illegible]



(Surv.) (Blk.) (Sec.)
(Sec.) (Twp.) (Rge.)

Location Made **19**

By _____

Drilling Commenced Sept 19 1973

Drilling Completed Sept 22 1973

Contractor Christy / Kever

P. O. Address Watts

REMARKS

Green horn - 570'

$$\begin{array}{r}
 21 \\
 8 \\
 \hline
 168
 \end{array}
 \begin{array}{r}
 8-168-5'' \\
 29-609-3'' \\
 \hline
 777 \\
 28 \\
 \hline
 800
 \end{array}$$

$$\begin{array}{r}
 168 \\
 23 \\
 \hline
 191 \\
 609 \\
 \hline
 800
 \end{array}$$

$$\begin{array}{r}
 788 \\
 168 \\
 \hline
 612
 \end{array}$$

$$\begin{array}{r}
 29 \\
 21 \\
 \hline
 29 \\
 58 \\
 \hline
 609 \\
 168 \\
 \hline
 777
 \end{array}$$

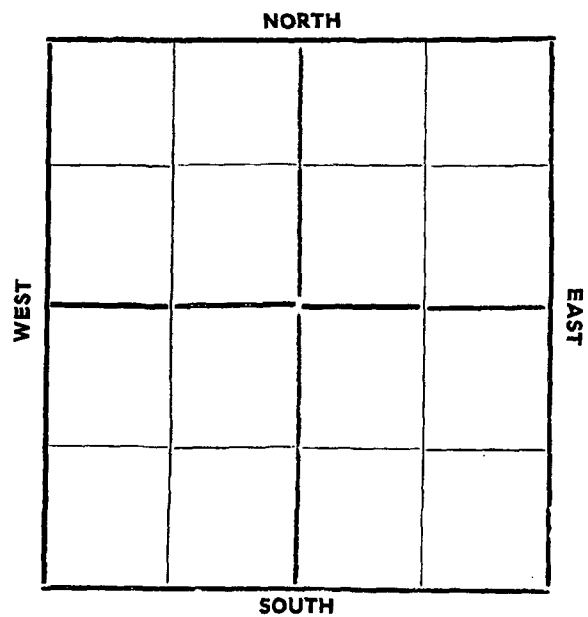
Well Log

FOR Harold Sly

ADDRESS Platte S. Dak.

Carl Meier & Sons
White Lake, S. Dak.

[illegible]



(Surv.) (Blk.) (Sec.)
(Sec.) (Twp.) (Rge.)

Location Made _____ **19** _____

By

Drilling Commenced *July 2* 19*74*
Drilling Completed *July 5* 19*74*
Contractor *Arlyn Meier*
P. O. Address *Blatte So Dak*

Casing, Tubing and Rods				
Size	Wt.	Kind	Cased At	Kind Packer or Shoe
5	std	Blk	191	
3	std	Blk	609	
1 1/2 hp Pump				
36 feet 1 1/4				
Pitless Unit				
100 gal Tank				

CONTRACTOR'S STATEMENT

feet drilling at	\$
feet drilling at	\$
days cleaning out at	\$
days pulling pipe at	\$
days pulling at	\$
	\$
	\$
	\$
TOTAL	\$
Deductions	\$
BALANCE	\$

FUEL AND WATER

Gas - Gasoline
 Days Cleaning Out
 Days Drilling
 Water
 Days Cleaning Out
 Days Drilling

REMARKS



**DeHaan, Grabs
& Associates, LLC**

Consulting Engineers

PO Box 522, Mandan, ND 58554
(701) 663-1116, Fax: (701) 667-1356
www.dgaengineering.com

Eric Gronlund
Water Rights Program
Joe Foss Building
523 E Capital
Pierre, SD 57501-3181

May 25, 2004

Dear Eric,

Enclosed you will find an *Application For Permit To Appropriate Water Within The State of South Dakota* for John Rasmussen near Platte in Charles Mix County.

Please let me know if you need any additional information to process this application.

Sincerely,

Greg Grabs, PE
Vice-President

RECEIVED

JUN 01 2004

WATER RIGHTS
PROGRAM



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

June 1, 2004

John Rasmussen
PO Box 382
Platte SD 57369

Dear Mr. Rasmussen:

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

- The application states the total amount of water claimed is 30 gallons per minute. Since the two wells are in different water formations, please indicate how much water is diverted from each well.
- We realize well logs are not available for the wells, but an estimation of the approximate well depths is required.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352

c: Greg Grabs, DeHaan, Grabs & Associates, LLC



**DeHaan, Grabs
& Associates, LLC**

Consulting Engineers

PO Box 522, Mandan, ND 58554
(701) 663-1116, Fax: (701) 667-1356
www.dgaengineering.com

RECEIVED

JUN 16 2004

WATER RIGHTS
PROGRAM

Karen Schlaak
Water Rights Program
SD DENR
523 East Capitol
Pierre, SD 57501-3182

June 10, 2004
RE: John Rasmussen Permit
Application

Dear Ms. Schlaak;

Enclosed please find a revised Permit Application and a revised plan sheet for the referenced facility.

Per your letter to John Rasmussen dated June 1, 2004, the Permit Application has been revised to show how much water is diverted from each well and also gives approximate well depths for each well. In addition, the revised plan sheet labels the rural water hookup near the center of the facility.

Please let me know if you need any additional information to process this application.

Respectfully,

Greg Grabs, PE
Vice-President

cc: John Rasmussen

REPORT ON WATER PERMIT NO. 6516-3

For John Rasmussen

August 3, 2004

Application No. 6516-3 proposes to appropriate 0.067 cfs (30 gpm) from two existing wells, one 900 feet deep and the other 55 feet deep both located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of section 20 and the SE $\frac{1}{4}$ NW $\frac{1}{4}$ of section 21; all in T100N R67W in Charles Mix County. The deep well uses 22.5 gpm and the shallow well uses 7.5 gpm. The water is for commercial use in a cattle feedlot operation.

AQUIFER – DAKOTA FORMATION (DKOT), PLEISTOCENE UNKNOWN (PSU)

The Dakota Formation is a buried sand, sandstone and shale under artesian conditions in this area. The Dakota aquifer underlies 1,134 acres and contains an estimated 14.15 million acre-feet of recoverable water in storage in Charles Mix County (Hedges, 1982). The aquifer extends into Brule and Aurora Counties to the north, Lyman and Gregory Counties to the west, Douglas County to the east and into Nebraska to the south. The general direction of ground water movement is from northwest to southeast across the area of this application (Kume, 1977). Discharge from the Dakota Formation has occurred mainly from flowing wells many of which have been allowed to flow to waste through improperly abandoned or simply uncontrolled wells. Because the water level in the aquifer is below land surface in this area, at this site a Dakota Formation well must be pumped.

The size and extent of the Pleistocene unknown aquifer is not well known. Kume mapped an alluvium and valley fill in this area but considered it a minor aquifer (Kume, 1977). No estimate for areal extent or water in storage is available.

No well log was provided with this application for either the Dakota Formation or the Pleistocene unknown. However, there is some well information available for section 21, T100N R67W listed for Gerald Sly who was apparently the owner before John Rasmussen. Information in USGS Open-File Report 95-153 indicates three Dakota Formation wells for Gerald Sly in section 21 and 20 (Neitzert, 1995). This information combined with driller's log for Gerald Sly (three logs in data base) indicate this request is reasonable. The data indicate the possibility of four or five abandoned or unused Dakota Formation wells at this area. These wells should be located and properly plugged. The only data for the Pleistocene Unknown aquifer is from an SDGS test hole and a domestic well located about one mile to the northeast. No construction information was provided for this well either.

Water levels for the Dakota Formation have been declining for many years. The water Rights Program does monitor an observation well AU-89A located about 16 miles northeast of this application. A hydrograph for this observation well is included with this report. Water levels for this well have declined about six feet since it was drilled or about four to five inches per year (Water Rights, 2004). No ground water level monitoring data is available for the Pleistocene Unknown aquifer. However, this aquifer would be

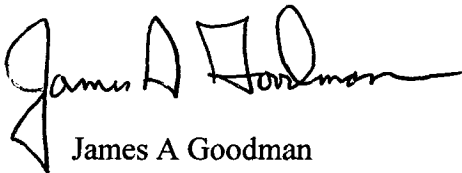
expected to respond to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are no other nearby water permits/rights that obtain water from the Dakota Formation. The nearest permitted Dakota Formation well is located about three miles northwest of this application. At this distance and with the requested diversion rates interference should not be a concern.

CONCLUSIONS

1. Water is available from either the Pleistocene Unknown or the Dakota Formation.
2. The Dakota aquifer is under confined or artesian conditions at this site. The well at this site is a pumped well. Interference is not a concern. The requested pumping rate is relatively small and the distance to the nearest permitted well is about three miles away. The Pleistocene Unknown aquifer is probably under water table conditions, at this site, but with such a small diversion rate it does not matter. This well is also located very close to the holding pond and by well construction rules must be 150 feet from the pond.
3. These are existing wells and the construction is not known. However, it is likely that the Dakota well was completed in a manner similar to the "slim hole" construction (74:02:04:35). This type of construction would not be allowed for a new well or replacement well for this facility. The shallow well construction is not known.
4. Plans and specifications for this facility have been submitted to and approved by the department.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

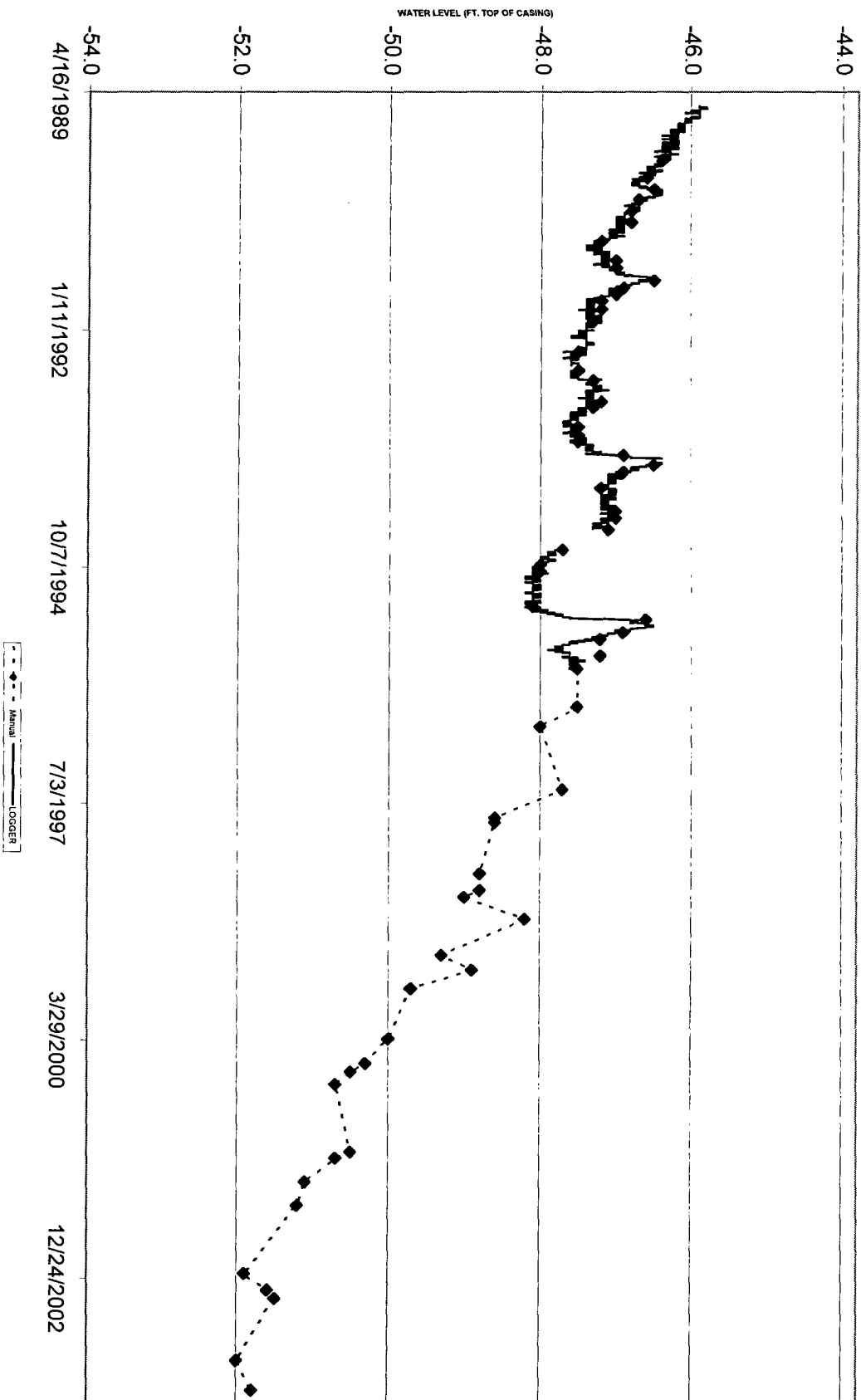
Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Kume, J., 1977, Geology and Water Resources of Charles Mix and Douglas Counties, South Dakota, Part II : Water Resources, Bulletin 22, SD DENR, SDGS, Vermillion, SD, 57069.

Nietzert, K.M., 1995, Records of Wells and Chemical Analyses of Ground Water in Charles Mix and Douglas Counties, South Dakota, Open-File Report 95-153, USGS, Rapid City, SD, 57702.

Water Rights, 2004, Unpublished Observation Well Data for South Dakota, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
AU-89A





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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. 6516-3, John Rasmussen**

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. 6521-3, John Rasmussen, 37021 270th Street, Platte SD 57369.

The Chief Engineer is recommending APPROVAL of Application No. 6516-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion has been 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. 6516-3 is subject to compliance with requirements of the Department's Water Pollution Control Permit issued pursuant to SDCL 34A-2-36 or 34A-2-112 for concentrated animal feeding operations.
3. Permit No. 6516-3 is subject to compliance with all existing and applicable Water Management Board Rules including but not limited to:
 - 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.

Garland Erbe, Chief Engineer
August 18, 2004

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Charles Mix) SS

I, Sharon Huizenga

certify that the attached printed Notice was taken

from the Platte
Enterprise

printed and published in Platte

County of Charles Mix and
state of South Dakota. The notice was published

in the newspaper on the following two dates:

8-26-04
9-2-04

Cost of Printing \$38.65

Sharon Huizenga
(Signature)

Owner/Publisher
(Title)

9-2-04
(Date Signed)

**NOTICE OF APPLICATION NO. 6516-3
TO APPROPRIATE WATER**

Notice is given that John Rasmussen, 37021 270th St., Platte, SD 57369 has filed an application for a water permit to appropriate 0.067 cubic feet of water per second (30 gallons per minute) from two existing wells, 900 feet deep (Dakota Formation) and 55 feet deep (Pleistocene Unknown Aquifer) located in the SE1/4 NE1/4, Section 20 and SE1/4 NW1/4, Section 21; all in T100N-R67W. The deeper well produces 22.5 gpm and the shallow well produces 7.5 gpm. The water is for commercial use in a cattle feedlot operation.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6516-3 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 the 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 the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol, Pierre, SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by September 13, 2004.

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

(Aug. 26, Sept. 2)

RECEIVED

SEP - 3 2004

**WATER RIGHTS
PROGRAM**



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

August 19, 2004

Platte Enterprise
PO Box 546
Platte SD 57369-0546

ATTENTION: Legal Public Notice

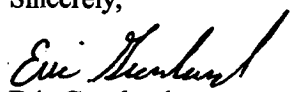
Enclosed is a Notice on Application No. 6516-3 to Appropriate Water to be published twice. Please publish the first notice on August 26, 2004 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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 John Rasmussen, 37021 270th St., Platte SD (Ph # 605-337-3090).

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. 6516-3

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

Date _____

We are in receipt of your letter of August 19, 2004 enclosing Notice to Appropriate Water by Application No. 65156-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name _____

Newspaper _____



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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.

August 19, 2004

John Rasmussen
37021 270th St
Platte SD 57369

Dear Mr. Rasmussen:

Water Permit Application No. 6516-3 for commercial – cattle feedlot 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 Platte Enterprise printed at Platte, SD (Ph # 605-337-3101). 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 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 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

enclosures

cc: Greg Grabs, DeHaan, Grabs & Associates, PO Box 522, Manadan ND 58554

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 August 26, 2004 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6516-3 to Appropriate Water

Notice is given that John Rasmussen, 37021 270th St, Platte SD 57369 has filed an application for a water permit to appropriate 0.067 cubic feet of water per second (30 gallons per minute) from two existing wells, 900 feet deep (Dakota Formation) and 55 feet deep (Pleistocene Unknown Aquifer) located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 20 and SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 21; all in T100N-R67W. The deeper well produces 22.5 gpm and the shallow well produces 7.5 gpm. The water is for commercial use in a cattle feedlot operation.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6516-3 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 the 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 the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by September 13, 2004.

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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www.state.sd.us/denr

NOV 19 2004

John Rasmussen
37021 270th St
Platte SD 57369

Dear Mr. Rasmussen:

Enclosed is Water Permit No. 6516-3 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

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 6516-3

I have this day, 27 October 2015, made a thorough examination of the water use system constructed by John Rasmussen, 37021 270th St., Platte, SD 57369 of Permit No. 6516-3, bearing the priority of 16 June 2004 authorizing the diversion of 0.067 cu. ft. per second of the waters of the Dakota aquifer and a Pleistocene Unknown aquifer for commercial use in a cattle feedlot operation, in Charles Mix County.

Inspection contact & relationship **John Rasmussen, owner**
to permit holder, if applicable:

A. Works used to divert the water:

Two old wells, driller unknown, logs not available, only known is west well is deep and east well is shallow

Well₁ (west well) Information:

- 1) Well Drilling Firm: Carl Meier & Sons?
- 2) No. of Wells 1
- 3) Depth(s) deep well feet
- 4) Well log is available no

Casing:

- 1) Diameter unknown inches
- 2) Length unknown feet
- 3) Type steel

Screen:

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

Pump:

- 1) Make Goulds Submersible
- 2) Model 10GS07412
- 3) Size 3/4 Horsepower
- 4) Capacity 10 GPM

Well₂ (east well) Information:

- 1) Well Drilling Firm: unknown
- 2) No. of Wells 1
- 3) Depth(s) shallow well feet
- 4) Well log is available no

Casing:

- 1) Diameter 5 inches
- 2) Length unknown feet
- 3) Type unknown

Screen:

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

Pump:

- 1) Make Goulds Submersible
- 2) Model 10GS10412
- 3) Size 1 Horsepower
- 4) Capacity 10 GPM

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

- 1) Type Black Poly
- 2) Size 1 inches

Comments: **Buried pipe from wells to various livestock water tanks at feedlot**

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Yes

If no, describe: na

- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period na
- 3) Exceptions to compliance are: na

E. Condition and Location:

- 1) The system is in good condition with the point(s) of diversion located as follows:

Well₁: 2615 feet south and 36 feet west of the NW Corner Sec. 21, T100N-R692W,
(lat/lon: 43.46373/-98.78595). 67

Well₂: 2100 feet south and 2525 feet east of the NW Corner Sec. 21, T100N-R692W,
(lat/lon: 43.46519/-98.77630). 67

- 2) The works are capable of diverting and conveying to the place of use 0.045 cu. ft. per second of water which is to be used for commercial use in a cattle feedlot operation.

The license should be issued for 0.045 cfs.

- 3) All structures, wells and lands on map Yes



Ken Buhler

DENR, Water Rights Program

Date report completed: 18 January 2016

6516-3

NW Corner
Sec. 21, T100N-R67W

2615'

2100'

2525'

36'



660

330

660 Feet

Legend



6516-3 East Well



6516-3 West Well

Section Boundaries - PLSS



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

MAY 02 2016

6516-3

John Rasmussen
37021 270th St
Platte SD 57369

Dear Mr. Rasmussen:

Enclosed is Water License No. 6516-3. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

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

Sincerely,

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6516-3

(1) John Rasmussen, 37021 270th St, Platte SD 57369 made Application No. 6516-3, June 16, 2004 for a water permit to divert 0.067 cubic feet of water per second from two wells – Dakota Formation and Pleistocene Unknown Aquifer, Charles Mix County, South Dakota for commercial use purposes. Permit No. 6516-3, with a priority date of June 16, 2004 was approved September 13, 2004 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before September 13, 2009 and for the application to beneficial use of water on or before September 13, 2013.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 6516-3 is issued a license, bearing a priority date of June 16, 2004 to appropriate 0.045 cubic feet of water per second from two wells – Dakota Formation and Pleistocene Unknown Aquifer for commercial use purposes in a cattle feedlot operation.

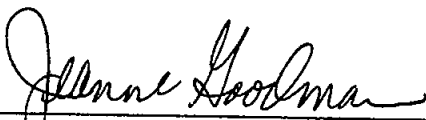
The diversion points are located:

Well #1 (west well) – 2,615 feet south and 36 feet west of the NW corner of Section 21-T100N-R67W (SE 1/4 NE 1/4 Section 20-T100N-R67W).

Well #2 (east Well) – 2,100 feet south and 2,525 feet east of the NW corner of Section 21-T100N-R67W (SE 1/4 NW Section 21-T100N-R67W).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6516-3 including 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. 6516-3 is subject to compliance with requirements of the Department's Water Pollution Control Permit issued pursuant to SDCL 34A-2-36 or 34A-2-112 for concentrated animal feeding operations.
3. Permit No. 6516-3 is subject to compliance with all existing and applicable Water Management Board Rules including but not limited to:
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 - 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.



Jeanne Goodman, Chief Engineer

Water Rights Program

Department of Environment and Natural Resources

MAY 02 2016

date

