

Considered: _____

WATER PERMIT NO. 1319-1

MAP No. 1319-1

Name of Applicant Timber Lake Cheese Co Inc

Post Office Address Bx A Timber Lake 57656

Amount of Water Claimed 0.05 Total Acres _____

Source of Water Supply 102' deep well

Water to be used for COM County DW

About _____ miles _____ of _____

PROOF OF PUBLICATION: Received 15X 11-2-84 Not Received _____

APPLICATION: Approved 12-5-84 Subject to _____

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

PRIORITY _____ Date Received 9/27/84 Fee 50.00 Remarks 9/27/84

Corrected Application Received 10/15/84 Map _____ Period of Annual Use 1/1 to 12/31

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

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

Diversion Point _____

SW $\frac{1}{4}$ SE $\frac{1}{4}$ 17-17N-25E

Land to be Irrigated _____

	17				
	x				

Well Log: Driller GWJ Drill Co. Licensed YES XX NO _____

Depth of Well 102' REMARKS _____

Type of Map Aerial PREPARED BY Co Agent Hubert Reviewed and the Number _____

assigned on 10/15/84 By Betty Westlund Lippett
Betty Westlund NRA III

No. 1319-1 Hydrologic Unit 10136303
 Map No. 1319-1 Basin GR
 Newspaper TOPIC Box 10 Timber Lake 57656

thurs

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

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

Type of Application: Check one or more of the following

New ☒ Vested Right ☐ Future Use ☐ Change Use ☐☒ Amend Permit No. _____ with old priority date retainedChange diversion point(s) ☐ Add diversion point(s) ☐ Other ☐☐ Application to: Change diversion point(s) ☐ Add diversion point(s) ☐ on Permit No. _____☐ Construction to use water reserved by Future Use Permit No. _____1. Name of Applicant Timber Lake Cheese Co. Inc. Phone No. 865-3605Post Office Address Box A Timber Lake State S.D. 57656
(Street, RR or Box) Zip Code2. Amount of water claimed (c.f.s.) 20 G.P.M. (0.05 CFS)3. Source of water supply well (2 wells 100' and 103' deep)

4. Location of point of diversion 300 feet east, ~ 210 feet North of the east end on
line of the center of 10th Street, South 210 feet, west 160 feet, north
210 feet thence east 160 feet to point of beginning in city, Land (SW 1/4 17-14N-25E)
Dewey County

5. Counties where water will be used Dewey6. Annual period during which water is to be used 12 months

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

the well is used for manufacturing of milk, pipe from
well to plant approximately 100 ft from well.

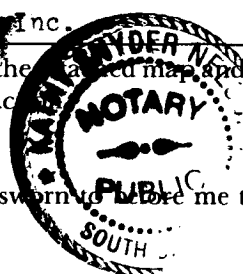
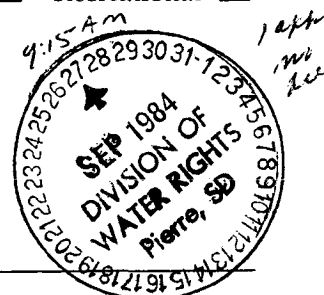
Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (see instruction)

STATE OF SOUTH DAKOTA)
County of _____)

I, Timber Lake Cheese Co. Inc. the applicant, certify that I have read
 the foregoing application, have examined the attached map, and that the matters therein stated are true and that I intend, and
 am able to complete the necessary construction.

Signed Walter Goldsade, 3rdSubscribed and sworn to before me this 26th day of September 19 84

Kathy Annair Nelson
 Notary Public (or other qualified officer)



WATER PERMIT

The Water Management Board hereby approves Water Permit Application No. 1319-1
Timber Lake Cheese Co. Inc. Box A Timber Lake
(Applicant) (Post Office Address)
S. D. 57656 With the following qualifications.
(State) (Zip Code)

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.

Date of first receipt of application September 27, 1984.
 Date of return to applicant for correction, amendments or changes required —, 19—.
 Date of receipt of corrected application —, 19—. Approved December 5, 1984.

The Water Management Board hereby approves this Water Permit No. 1319-1 authorizing the construction of the water use system and the placing of water to beneficial use as stated in the Application and as qualified in the Water Permit approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is September 27, 1984.
2. The equivalent of at least one-fifth of the specified work is to be completed on or before JUNE 5, 1987.
3. The whole of said work is to be completed on or before December 5, 1984.
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is December 5, 1993.
5. The water appropriated shall be used for the purpose of commercial use.
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be unlawfully impaired by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 0.05 cubic feet per second; neither shall it exceed the capacity of the above described water supply system nor shall it exceed the amount of water needed for beneficial uses served and to which water is actually and beneficially applied for commercial use on or before December 5, 1993; said water to be used during the following described annual period: Jan. 1 To Dec. 31

WATER MANAGEMENT BOARD
 By: John Hatch
Chief Engineer
 Division of Water Rights **JOHN HATCH**
 Dept. of Water and Natural Resources

January 3rd, 1985

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter 8" Depth 102 ft
- b) Casing Type P.O.C. Diameter 5" Thickness 200 P.S.I.
- c) Screen Type P.O.C. Diameter 5" Thickness 200 P.S.I.
- d) Gravel Pack Thickness 2" Length of Gravel Pack 60 ft
- e) Depth to Top of Water Bearing Material 34 ft
- f) Depth of Water (ground surface to water level) 24 ft
- g) Distance to nearest existing domestic well:
On applicants property 100 ft. On property owned by others 1/4 mile

2. Dugout Information Estimates

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

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should 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) Outlet Dimensions:
Pipe diameter _____

Spillway width _____

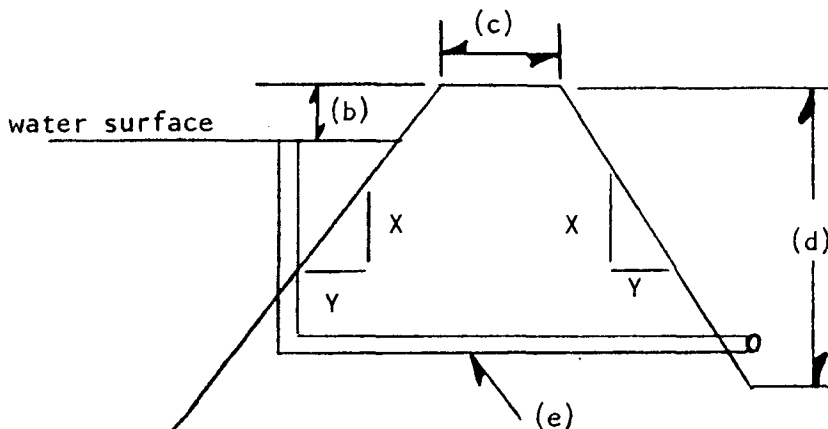
f) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Jenifer Lake Cheese Co Inc
Attn Esther Valdade, Btk
Signature of Applicant

Given by Jan Kinderman

NOT TO SCALE

17-25

276-1624

95.7

Bernard
Houston

Helen Hulm

17

f Timber Lake

Hubert A. Lippert
County Extension Agent
Dewey County

17-25

A/M # 1319-1

A tract of land commencing at a point 300 feet east and 210 feet north of the east end of the center line of the center of 10th Street, thence south 210 feet, thence west 160 feet, thence north 210 feet, thence east 160 feet to point of beginning;

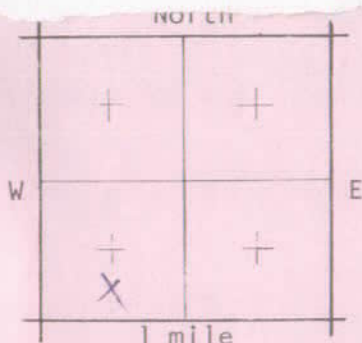
this one
city land
timber lake

County

Rowley

Please mark well location with an "X" in

city of
timber lake



Well Completion Date Sept 10

PROPOSED USE:

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

Method of Drilling:

Rotary

WELL CONSTRUCTION:

Diameter of hole 8 inches Depth 102 feet

Casing: ☐ Steel ☒ Plastic ☐ Other

Specify

Pipe Weight Diameter From To
200 lb/ft 5 inches 0 feet 40 feet

 lb/ft inches feet feet

Was a well screen used? ☒ Yes ☐ No

If Not Specify

Screen Type PVC Slot Size .020

Length 60 Diameter 5

Was Casing left open end? ☒ Yes ☐ No

Was a Packer or seal used? ☐ Yes ☐ No

If so what material?

Was well gravel packed? ☒ Yes ☐ No

Was well grouted? ☒ Yes ☐ No

Describe grouting procedure cement

to 30

To what depth? 30 Feet

What was grouting material? cement

If cement, how many sacks? 4

Location of packer(s) and screen or perforated pipe 0 to 102

WAS WELL PLUGGED OR ABANDONED ☐ Yes ☐ No
If so how and with what material?

Address timber Lake, S.D

Well Log:

Depth

Formation	From	To
<u>loam + sand</u>	<u>0</u>	<u>3</u>
<u>yellow sand + rock</u>	<u>3</u>	<u>15</u>
<u>sand with clay streaks</u>	<u>15</u>	<u>25</u>
<u>sand</u>	<u>25</u>	<u>35</u>
<u>blue sand</u>	<u>35</u>	<u>45</u>
<u>mostly blue sand</u>	<u>45</u>	<u>100</u>
<u>some clay streaks</u>	<u>100</u>	<u>103</u>
<u>mostly clay</u>		

STATIC WATER LEVEL 22 Feet

If flowing: closed in pressure PSI

GPM flow through inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify

Can well be completely shut off? yes

WELL TEST DATA:

☐ Pumped

☐ Bailed

☐ Other

Describe: air
pump about 20 GPM

Pumping Level Below Land Surface

88 ft. After 2 Hrs. pumped 20 GPM

 ft. After Hrs. pumped GPM

 ft. After Hrs. pumped GPM

Remarks:



This well was drilled under license # 350

and this report is true and accurate.

Joe Hartman Joe Hartman

Drilling Firm

Signed by

10-1-84

Date

Newey

REPRODUCTIONS:

REDUCTION 1.5%

一

10

10

1

10

1

1

1

10

111

RECEIPT

Division of Water Rights

No 4 9785-

South Dakota Department of Water and Natural Resources

Pierre, October 9, 1984, 19

RECEIVED OF Timber Lake Cheese Co., Inc., Box A, Timber Lake, SD 57656

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

Fee for Application for Permit No. <u>1319-1</u> to Appropriate Water, to construct works 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 Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	50 00

By John Hatch
Chief Engineer JOHN HATCH (ms)

Conversation or File Documentation

NAME OF PERSON OR FILE: Timber Lake Cheese Co.ADDRESS: Timber Lake COUNTY DeweyDATE: 10-15-84 TELEPHONE 865-3605RE: two well logs

COMMENTS:

I talked with Esther Goldade about the
two well logs we received. She said they are for two
different wells and they are using both of them.

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.

NAME: Kevin A. Larson

REPORT ON APPLICATION NO. 1319-1, Timber Lake Cheese Co. Inc.

October 16, 1984

This water permit application requests 0.05 cfs from two wells having depths of 100 and 103 feet. The water is to be used in the processing of cheese. The wells are located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 17, T17N, R25E.

Aquifer - Fox Hills Sandstone

Geology and Aquifer Characteristics

The Fox Hills is of the Late Cretaceous Age consisting mainly of grayish-white to yellow sandstone and sandy shale (Rahn, 1979). The average thickness of the aquifer is variable, but existing wells in the area indicate a thickness of 60 to 70 feet.

Drillers logs were submitted with this application. The log for the most recent well indicates a 103 feet depth, cased with 5 inch plastic casing and left open ended. The well has a static water level of 22 feet. The pumping data indicates that the well produces 0.3 gpm/foot of drawdown.

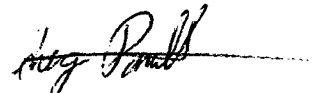
The aquifer in Dewey County has a surface area of 400,000 acres and approximately 3,000,000 acre-feet of recoverable water (Allen, 1984).

Review of Existing Water Rights

The nearest existing Fox Hills water permit is 4 or more miles west of this application and is used to supply the TC & G Rural Water System. Domestic well log data indicates most are obtaining water from the Fox Hills Formation. Water level data is available from five observation wells. Three wells are located in Dewey County (DW-57A, 57B, 57C) and two wells are located in Corson County (CN-57A, 57B). Data has been collected from these observation wells since 1957. The water level has not fluctuated significantly over this period of record.

Conclusions

1. Water is available from the Fox Hills.
2. The specific capacity of this well is average, since the specific capacity for the Fox Hills is 0.29 gpm/foot of drawdown (Rahn, 1979).



GREG POWELL
Natural Resources Engineer

Bibliography

Rahn, P.H., 1979, Ground Water Resources of Western SD, for U.S.A.C.E.,
SDSM & T Project S 2533, Rapid City SD 57701

Allen, Iles, Petres, 1984, Analysis of Groundwater and Streamflow Data Western
Dakotas Region of South Dakota, for U.S.A.C.E., Division of Geological Survey,
Vermillion SD 57069

Water Rights Division, 1984, Permit Files and Observation Well Files, DWNr,
Joe Foss Building, Pierre SD 57501

Barari A., 1972, Groundwater Study for the Trail City and Glencross Water
Association, Division of Geological Survey, Vermillion SD 57069

RECOMMENDATION OF CHIEF ENGINEER

APPLICATION NO. 1319-1, Timber Lake Cheese Co., Inc.

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 1319-1, Timber Lake Cheese Co. Inc., Box A, Timber Lake SD.

The Chief Engineer is recommending APPROVAL of Application No. 1319-1 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

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.

See the attached report for additional information.

A handwritten signature in cursive script, appearing to read "John Hatch".

JOHN HATCH, Chief Engineer
Water Rights Division
October 18, 1984

WP ~~or~~ WR No. 1319-1

Instruction to Newspaper - Publish first publication of the following Notice on or before October 25/1984 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 1319-1 to Appropriate Water ~~and/or to Amend Water Permit or Water Rights No. _____~~

Notice is hereby given that the Timber Lake Cheese Co., Inc. whose mailing address is Box A, Timber Lake, South Dakota has made an application for a permit

to appropriate 0.15 cubic feet per second of water from two wells, 100 feet deep in the Fox Hills formation located in SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 17-T17N-R25E. The water will be used for commercial purposes.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 1319-1 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Joe Foss Building Room 216, 523 E. Capitol, Pierre, South Dakota December 5 19 84 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by November 23, 1984. The petition may be informal, but it must include a statement describing the petitioners interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; ~~(ground)~~ 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; ~~(future use)~~ 46-5-38 thru 46-5-40; ~~(transfer lands)~~ 46-5-30.4, 46-5-33 thru 46-5-35; ~~(10,000 AFA)~~ 46-5-20.1, 46-5-8.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; ~~(future use)~~ 74:02:01:24 thru 74:02:01:25; ~~(10,000 AFA)~~ 74:02:01:15:02 thru 74:02:01:15:05.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNR, Joe Foss Bldg, Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by November 23, 1984.

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
County _____)

I, James F. Nelson hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Timber Lake Topic

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

town _____ of Timber Lake

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

October 25, 1984

November 1, 1984

Jim Nelson
(Signature)

publisher
(Title)

Nov 1, 1984
(Date Signed)

Cost of Printing: \$35.55



8 pt. 11½ ems.

87 lines regular @ 80% the second

WNR-808-7/79

Proof of Publication

The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by November 23, 1984.

Pub. Oct. 25 & Nov. 1, 1984
in the Timber Lake Topic

Notice of Hearing on Application No. 1319-1 to Appropriate Water

Notice is hereby given that the Timber Lake Cheese Co., Inc. whose mailing address is Box A, Timber Lake, South Dakota has made an application for a permit to appropriate 0.05 cubic feet per second of water from two wells, 100 feet deep in the Fox Hills formation located in SW¼SE¼ Section 17-T17N-R25E. The water will be used for commercial purposes.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 1319-1 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Joe Foss Building Room 216, 523 E. Capitol, Pierre, South Dakota December 5, 1984 at 10:00 a.m.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the chief Engineer by November 23, 1984. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15, 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01 thru 74:02:01:15.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNR, Joe Foss Bldg., Pierre, SD (605-773-3352) for assistance prior to the hearing date.

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

Post Office Timber Lake, So. Dak. 57656

Date February 15/85

TO: Water Rights
Joe Foss Building
Pierre, South Dakota 57501

Dear Sirs:

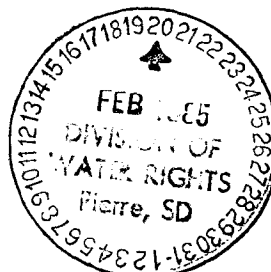
This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to maximum extent it is going to be used, not exceeding the amounts as specified in Water Right No. 1312-1.

Water Right Permit No. 1312-1 states that the diversion system is to be constructed by Joe Hartman Well Drilling that the water is put to beneficial use by Timber Lake Cheese Co. Inc.

The diversion system was completed on September 15/84. Applying the water to beneficial use was completed on September 15/84.

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.

Joe Hartman
(Signature)





Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

1319-1

January 3, 1985

Timber Lake Cheese Company, Inc.
Box A
Timber Lake, South Dakota 57656

Dear Sir:

Enclosed herewith is your Water Permit No. 1319-1 as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 1319-1.

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 your Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH:ms

enclosure

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

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

WNR-809-5/83