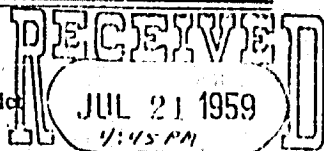


No. 647-3Water Division No. 3 Big Sioux River District
(Blanks to be Filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT To Appropriate Water within the State of South Dakota

STATE WATER RESOURCES COMM.
PIERRE, SOUTH DAKOTA

(NOTE—Draw a line through items not applicable.)

1. Name of applicant South Dakota Department of Game, Fish and Parks
Postoffice address Pierre, County Hughes, State South Dakota

I. If a corporation

- (a) Name of same _____
(b) Date and place of incorporation _____
(c) Amount of capital stock _____
(d) Amount paid in _____
(e) Names and addresses of directors _____

(NOTE—A certified copy of articles of incorporation must accompany the application.)

II. Method of accomplishing the work and financial resources of the applicant:

- (a) Method of accomplishing work (Whether by contract, employment of others, or by direct labor)

(b) Cash on hand, \$ _____ (c) Treasury stock, \$ _____

(d) Bonds to be issued, \$ _____ (e) Other resources, \$ _____

2. Name of diversion work CAMPBELL LAKE, Brookings, County
3. Amount of water claimed As required to fill lake to outlet level - approximately 2700
acre-feet per year. cubic feet per second
4. Source of water supply Local watershed
5. Location of point of diversion Three points in the watershed, namely W $\frac{1}{2}$, SW $\frac{1}{2}$ Sec. 28,
T-109, W $\frac{1}{2}$ SW $\frac{1}{2}$, Sec. 33, T-109-R. 50, SE $\frac{1}{2}$ SW $\frac{1}{2}$, T-109, R 50.
28 on sec 28 bank _____ County.
6. Annual period or periods during which water is to be used All year long
7. To be used for:

I. Irrigation or domestic use: Gravity, overhead sprinkling or combination system?

(a) Number of acres to be irrigated _____ acres.

(b) Legal subdivisions to be irrigated _____

(NOTE—A list of lands to be irrigated, giving each subdivision and fraction with acreage thereof, should be written here, or may be appended as a part of this application. Same must also be shown on accompanying map.)

(c) Statement as to domestic use (giving location, etc.) _____

II. Stockwatering, mining, milling, power, fish culture, fire protection and public recreation:

(a) Nature of use Fish and wildlife propagation, conservation and recreation public
Name any of the above uses claimed

(b) Amount of power to be generated _____ horse power.

Amount claimed for engine cooling _____

(c) Location of plant _____

(d) Method of developing power _____

(e) Point where water will be returned to stream _____

No. 492-3
Map

8. Estimated cost of work:

(a) Head Gates, \$.....

(b) Pumping plant, \$.....

(c) Fluming, \$.....

(d) Canal-earth, \$.....

Rock, \$.....

(e) Other structures \$.....

Total, \$.....

9. Description of diversion works:

I. Nature of works: (Reservoir, dam, ditch, flume, pumping plant, etc.)

Concrete spillway and earth dam 6' high

II. Dimensions of works: Information requested not applicable. Campbell Lake is a

(a) Dam: meandered lake. Maximum depth is approximately 7 feet deep; length at top

300 feet; thickness at bottom 48 feet; thickness at top 12

feet; slope at front water face 3-1; slope at back face 31

material used in construction

(b) Reservoir: Capacity when filled acre feet. Surface area at highwater mark: 900 970 acres. Raised level 3 ft. in 1926 increased surface area about 30 acres.

DEPTH AT OUTLET-Feet	SURFACE AREA AT EACH DEPTH AT OUTLET--ACRES	ACRE-Feet CAPACITY

(c) Head gate: Width feet; height feet;

Material

(d) Canal: Total length miles.

LOCATION BELOW HEADGATE	DEPTH	BOTTOM WIDTH	WIDTH AT WATER-LINE	GRADE PER MILE
At Mile	 feet	 feet	 feet	 feet
At Mile	 feet	 feet	 feet	 feet
At Mile	 feet	 feet	 feet	 feet
At Mile	 feet	 feet	 feet	 feet
At Mile	 feet	 feet	 feet	 feet
At Mile	 feet	 feet	 feet	 feet

(Give dimensions where reductions in size are made.)

10. Time required for completion of work completed years. Not applicable - a meandered lake11. Time required for complete application of water to the proposed beneficial use completed years.

12. Choice of newspaper for publication of notice of intention to appropriate

STATE OF SOUTH DAKOTA

County of Hughes

ss.

I, Harry R. Woodward

being first duly sworn on my oath depose and say: That my relation to the above described undertaking is that of owner, that I have read the above foregoing statement, examined the map accompanying the same, and that I know of my own personal knowledge that the matters therein stated and shown are true.

Signed

Harry R. Woodward

Subscribed and sworn to before me this

20

day of

July1959Edward Johnson
Notary Public (or other qualified officer.)

DEPARTMENT OF GAME, FISH & PARKS
STATE OFFICE BUILDING 123
PIERRE, SOUTH DAKOTA

Lake Campbell
Brookings Co.
28,32,33-109-50
scale 8" = mile

30	29
31	32

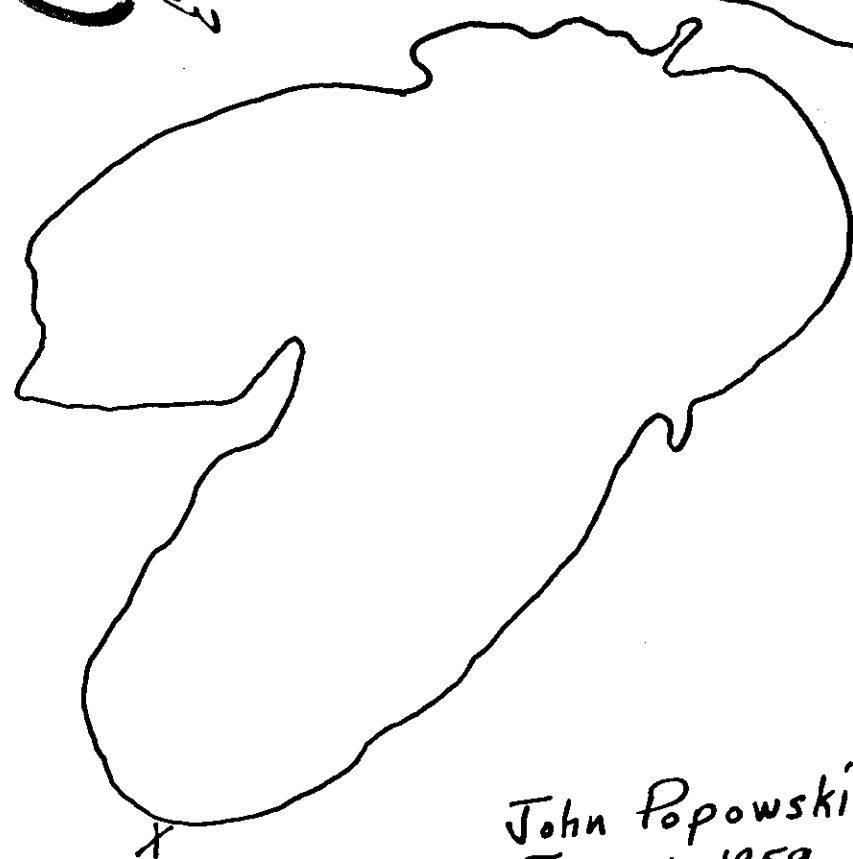
28	27
33	34

Scale 8" = 1 mile

Map No. 492
(Hpp/s. 647-3)
648-3

31	32
6	5

Brookings Co.
Moody Co.



John Popowski
Jan. 21, 1959

Remarks by State Water Resources Commission:

"Vested Right Claimed"

STATE OF SOUTH DAKOTA

County of

Hughes

SS.

Pierre, South Dakota,

November 10, 1959

This is to certify that the foregoing application was received by the Commission at 4:45 o'clock

P.m. upon the 21st day of July, 1959.

State Water Resources Commission

By:

Woolfson

Chief Engineer, Executive Officer

Number of permit

647-3

Date of first receipt of application

July 21

1959

Date of return to applicant for correction, amendments or changes required as follows:

8-19

1959

Date of receipt of corrected application

November 8

1959

Date from which applicant may claim right

2000 acre feet annually from 1889
100 acre feet annually from 1926

19

Approved

November 10

1959

Recorded in Book

5

Page

256

This is to certify that we have examined the foregoing application for a permit to appropriate water of the State of South Dakota, and we hereby grant the same as stated herein, subject, however, to the following limitations and conditions:

1st. The equivalent of at least one-fifth of the work above specified is to be completed on or before

Completed

19

2nd. The whole of said work is to be completed on or before

Completed

19

3rd. The limit of time for proof of beneficial use of water appropriated in accordance herewith is

Completed

19

4th. The water appropriated shall be used for the purpose of

public recreation

5th. 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 injuriously affected by this appropriation.

6th. The amount of the appropriation herein granted shall not exceed 2000 acre feet annually; neither shall it exceed the capacity of the above described system of diversion works, nor the least amount of water that experience may hereafter indicate as necessary for the production of crops in the exercise of the best husbandry; and further, said appropriation must be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before June 31, 1955; said water to be used during the following described annual period:

Continuously

Witness my hand this

10th

day of

November, 1959

State Water Resources Commission

By:

Woolfson

Chief Engineer, Executive Officer

Certificate of Construction Issued

November 10, 1959

Water License Issued

November 10, 1959

STATE OF SOUTH DAKOTA

WATER LICENSE No. 647-3

WHEREAS, On the 21st day of July A. D. 1959

the South Dakota Department of Game, Fish and Parks

of Pierrre County of Hughes and State of South Dakota duly made application (No. 647-3) to us for a Vested Right permit to use 2700 acre feet annually of the waters of Campbell Lake County of Lake, State of South Dakota, for public recreation purposes; and

WHEREAS, On the 10th day of November A. D. 1959 Vested Right Permit No. 647-3 was issued to said applicant for the diversion of said water, and recognizing the completion of the works of diversion therein described on or before the completed day of November 10, 1959 and for the application to beneficial use of said water on or before the completed day of November 10, 1959 and,

WHEREAS, On the 21st day of July A. D. 1959 the holder of said Vested Right permit duly made proof of the completion of adequate works for the diversion of 2700 acre feet annually of said waters, as evidenced by our Certificate No. 647-3 dated November 10, 1959 confirming the completion of works of sufficient capacity for diverting and conveying to the place of intended use 2700 acre feet annually of water, with date of priority of 1889 and 1926 and,

WHEREAS, On the 21st day of July A. D. 1959 proof was duly made of the application to beneficial use of 2700 acre feet annually of said water; to be used in place of public recreational purposes.

NOW, THEREFORE, By the virtue of the authority vested in us by the laws of the State of South Dakota,
We hereby grant and confirm to the South Dakota Department of Game, Fish and Parks
of Pierre the holder and owner of vested right permit No. 647-3
a water right, dating from 1882 and 1926 to the use of 2700 acre feet
annually
~~public use or~~ of the waters of Campbell Lake
in the County of Brookings and State of South Dakota, or so much thereof as may be
necessary for the purposes hereinafter mentioned, to be diverted at three points in the stream,
more clearly defined in the Certificate of Completion of Works
and ~~conducted~~ used in place for public recreational purposes

~~for the purpose of~~
subject, however, to the laws of the State of South Dakota applicable to a license for the use of the waters of the
State, and subject, also to the local or community customs, rules and regulations which have been or may be
adopted from time to time by a majority of the users from a common source of supply, canal or latera from
which such water may be taken, when such rules and regulations have for their object the economical use of such
water.

WITNESS, My hand and seal of our office at Pierre, South Dakota,
this 10th day of November A. D. Nineteen
Hundred and fifty-nine

State Water Resources Commission

By:

J.W. GRIMES,

Chief Engineer, Executive Officer

STATE OF SOUTH DAKOTA

Water License No. _____

To _____

Source of Supply _____

County _____

Am't _____ c. f. s.

Point of Diversion _____

Place of Use _____

Purpose _____

Date of Priority _____

Recorded _____

In Book _____ of _____ Page _____

Permit No. 647-3Water Division No. 3 Big Sioux River Water District**Certificate of Completion of Works**

TO ALL WHOM IT MAY CONCERN:

This is to Certify, That The Department of Game, Fish and Parks

of Pierre, County of Hughes, and State of South Dakota,
 the holder of Permit No. 647-3, Issued upon Application
 No. 647-3, bearing date of priority of 1889 and 1926, authorizing the diversion of
2700 acre feet annually of the waters of Campbell Lake
 County of Brookings, State of South Dakota, at points in W $\frac{1}{2}$ SW $\frac{1}{2}$, Sec 28
W $\frac{1}{2}$ SW $\frac{1}{2}$, Sec 33; and SE $\frac{1}{4}$ SW $\frac{1}{2}$, Sec 28, all in T 109N R 50W

for public recreation

purposes, has fully complied with the provisions of the laws of the State of South Dakota relating to proof of
Vested Right recognized as
 completion of the works of diversion set out and described in said Permit; that said works are found to be satisfactory
condition for diverting and conveying to the place of intended use 2700 acre feet annually
of
reservoir water; and that the lands proposed to be irrigated by the use of said water are described as follows,
 to-wit: to be used in place for public recreational purposes.

Witness my hand this 10th day of November A. D. 1952

State Water Resources Commission

By:

J.W. GRIMES,

Chief Engineer, Executive Officer

Location No.

647-3
Big Sioux River

Water Division No.

Water District

Proof of Application of Water to Beneficial Use

PETITION OF HOLDER

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. South Dakota Department of Game, Fish and Parks, Pierre, South Dakota

Ques. 2. If acting in behalf of a corporation, state its name, principal place of business (if a foreign corporation, give name and postoffice of statutory agent,) your position with reference to same, and your authority for appearing in its behalf.

Ans.

Ques. 3. State date of posting and date of recording notice of appropriation.

Ans.

Ques. 4. State source of water supply and give exact location of point of diversion.

Ans. Local watershed - 3 points in the watershed, namely W $\frac{1}{2}$, SW $\frac{1}{4}$ Sec. 28, T-109,NW $\frac{1}{4}$, Sec. 33, T-109-R. 50, SE $\frac{1}{4}$ Sec. 31, T-109, R. 50.

Sec 28

Ques. 5. Describe your works of diversion giving length and height of each dam and state amount of water they are capable of conveying from point of diversion to place of use, and give name of canal or ditch or other works by which water is conducted to such place of use, and date of completion of same.

Ans. A meandered lake - depth 7 feet - 900 acres - Concrete spillway 134 ft.

wide 3 ft. higher than natural outlet of lake, Dam 400 ft. long 6 ft. high

Original dike and spillway built in 1926

Ques. 6. State for what purpose water is used and describe place of use. (If for irrigation, name each subdivision in which used, and number of acres in each subdivision that have ACTUALLY been irrigated with said water.)

Ans. Fish and wildlife propagation, conservation and recreation

Ques. 7. If for other than irrigation purpose, state how applied, amount of horse power generated, etc.

Ans. Used in place in lake or reservoir

Ques. 8. What is the minimum amount of water required for the use specified above?

Ans. As required to fill lake to outlet level - approximately 2700 acre feet per year.

Ques. 9. If you are not the person or representative of the corporation to whom above mentioned permit was originally issued, please state how ownership was acquired by present holder.

Ans.

Ques. 10. State when, how, in what amount and to what extent, the water diverted under above mentioned permit has been used.

Ans. A meandered lake. Used by the public for uses specified except

for that amount lost by evaporation and seepage

(Sign)

Harry R. Woodward

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me, at my office in PIERRE, County of Hughes

State of South Dakota, on this

20

day of

July

A. D. 1957

Witnesses

Edmund Johnson

I, the undersigned, do hereby certify that I am a duly qualified elector residing in the immediate vicinity of the diversion works designated in the foregoing testimony, that I have no interest in the works, water or land above described, that I have read the foregoing testimony and that I know of my own personal knowledge that the matters therein stated are true.

Location No. _____

PROOF OF APPLICATION OF
WATER TO BENEFICIAL USE

PETITION OF HOLDER

Amount of Water _____ c. f. s.

Source _____

County _____

Purpose _____

Place of Use _____

Date of recording _____

Received and filed _____

Water Rights Division - DWR
Conversation or File Documentation

File No. 647-3
648-3

NAME OF PERSON OR FILE: SD Dept of Game, Fish & Parks - Lake Campbell

ADDRESS: _____ COUNTY _____

DATE: 11 _____ TELEPHONE _____

RE: Ordinary High Water Mark Determination

COMMENTS:

April 14 & 15, 1983 - Water Management Board minutes

Mr. Ryland MOVED, SECONDED by Mr. Walter that the Ordinary High Water Mark for
Lake Campbell be established at an elevation of 1575.7 feet msl and that Vested
Right Nos. 674-3 and 648-3 be clarified to require the outlet structure for Lake
Campbell to be maintained at an elevation of 1575.2. MOTION CARRIED.

For more information see OHWM file.

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.

647-3

 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

September 21, 1988

Richard Beringson, Secretary
Department of Game, Fish and Parks
Anderson Building
445 E Capitol
Pierre SD 57501

Dear Mr. Beringson:

I am writing to notify you that pursuant to the Notice of Intent to Validate Vested Water Right Claims dated June 20, 1988 that I intend to oppose validation of all Department of Game, Fish and Parks Vested Water Right Claims for lakes for the following reasons:

1. Until the outlet elevation for each lake is surveyed and the outlet elevation is set by the Water Management Board.
2. To allow the Vested Water Right Claim to be amended, if necessary, as follows:
 - a) Include the outlet elevation;
 - b) To correct the amount of water claimed;
 - c) To add the qualification that a vested claim is subject where necessary to installation of a concrete outlet structure to assure retention of the outlet as the established elevation; and
 - d) To add any amendments and qualifications necessary to clarify a Vested Right Claim.

Also, that I intend to oppose validation of all Department of Game, Fish and Parks Vested Water Right Claims for dams to allow the Vested Water Right Claim to be amended, if necessary, as follows:

1. To include the spillway elevation;
2. To correct the amount of water claimed; and
3. To add any amendments and qualifications necessary to clarify a Vested Right Claim.



September 21, 1988
Richard Reringson, Secretary
Page 2

We will be working with your staff on these validations. We have already discussed setting outlet elevations before validating claims for lakes. Although the work necessary to complete the validation process will take several years to complete, the results should be of benefit to the public and to your Department. As the work is completed to validate each claim, the claim will be presented to the Water Management Board for validation.

Please advise if you have any questions.

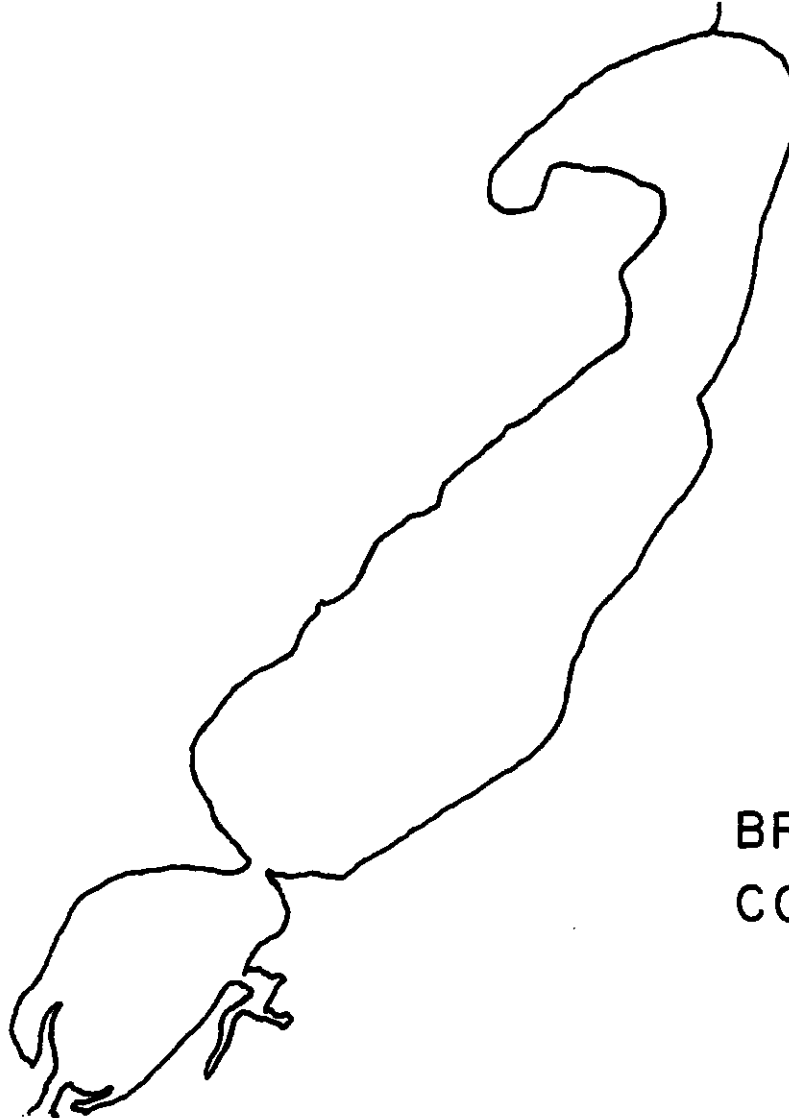
Very truly yours,

for [Signature]
JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

cc: Ron Koth, Department of Game, Fish and Parks

ORDINARY HIGH WATER MARK INVESTIGATION FOR

LAKE CAMPBELL



BROOKINGS
COUNTY

TABLE OF CONTENTS

ABSTRACT.....	1
INTRODUCTION.....	2
INVESTIGATION.....	3
CONCLUSIONS.....	4
RECOMMENDATIONS.....	5
APPENDICES.....	6

LAKE CAMPBELL

ABSTRACT

This report contains the results of an investigation performed to determine the Ordinary High Water Mark (OHWM) for Lake Campbell in Brookings County. The primary factors involved in calculating the OHWM were: Lake Campbell hydrological characteristics and elevations of erosion lines and trees found at the upper limit of its lake bed.

Based on the findings in this report. The OHWM for Lake Campbell has been determined to have been established at an elevation of 1575.7 feet mean sea level (msl).

INTRODUCTION

Authority and Administrator

The Water Management Board is mandated by Law, SDCL 43-17-21, to establish the Ordinary High Water Mark on public lakes in South Dakota. The Board is to perform this in accordance with SDCL 43-17-1 thru 43-17-3; 43-17-20 thru 43-17-26, and Board Rules ARSD 74:02:03:11 and 74:02:03:12. This report contains the results of the investigation conducted by the Department of Water and Natural Resources, Water Rights Division to determine the elevation of the OHWM and outlet structure for Lake Campbell.

Explanation of OHWM

The ordinary high water mark is coordinated with the upper limits of the bed of a lake. The determination of the OHWM is derived from the examination of the upper limits of the bed of the lake. This examination is conducted to ascertain where the continuous presence and action of the water has left a distinct mark; either by erosion, destruction of terrestrial vegetation, or some other easily recognized characteristic. In examining a lake for the determination of this level, it is necessary to consider the size, watershed, topography, soil and general characteristics of the lake (refer to Appendix A).

Date of Investigation

The principal field investigation for this report was conducted in September 1982. The examination of the shoreline, banks, and vegetation of Lake Campbell was performed. The shoreline areas selected for study were those least affected by individuals.

INVESTIGATION

Location

Lake Campbell is located within Sections 28, 29, 32, and 33 of T109N, R50W in Brookings County and Sections 5 and 6 T108N, R50W in Moody County. (See Appendix A)

Lake Characteristics

Lake Campbell is located at the end of the Battle Creek Watershed. It has a watershed area of 103,762 acres and a surface area of 1,000 acres¹. Lake Campbell receives its recharge water mainly from surface run-off. There is a moderate connection between the lake and the local aquifer². The lake has an average depth of 4 feet with a maximum depth of 7 feet².

Elevation References

Elevations in this report are referenced to a United States Geological Survey bench mark. The bench mark is located in the northeast corner of Section 30, T109N, R50W, 180 feet south and 58 feet west of the crossroads, in a concrete post 2 inches below the surface of the ground. It is a standard brass tablet stamped "TT26 JSC 1962" set at an elevation of 1619.732 feet msl.

OHWM Indicators

A. Shoreline Trees

Trees, which are the largest and most permanent expression of upland growth, are used to determine a relationship between the growth characteristics of the trees at various elevations and the OHWM elevation. Records of ordinary high water levels are reflected in the well established trees growing along the upper limits of a lake's bed. Cottonwood, ash, and willow are the most predominant trees that grow along the shores of South Dakota's lakes. Experimentation and research have shown that most trees will not survive if water levels exceed one half to one tree diameter below the base elevation of the tree for more than 25% of the growing season. Consideration must be given to the characteristics of the soil, slope of the ground, and the effects of water and ice on the shoreline and bank.

B. Tree Categories

The trees along the shoreline of Lake Campbell are divided into three categories:

1. The first category of trees are those where their lakeside base elevation (the elevation where the soil meets the trunk of the lakeside of the tree) is below the OHWM (see Appendix B). This is apparent in the erosion of the soil and the destruction and decay of the tree. The destruction and decay is caused by the zone of soil saturation smothering part of the root system. These trees survive because part of their root system is above the zone of saturation.

2. The second category of trees are those where their lakeside base elevation is from zero to one half foot above the OHWM (see Appendix C). These trees show signs of butt swell and erosion. The root system is surfacely exposed and growing away from the lake.
3. The third category of trees are those with a lakeside base elevation approximately one foot above the OHWM (see Appendix D). These trees show lesser degrees of butt swell, little or no root erosion, and some surface roots.

C. Erosion Marks

Erosion marks were found between elevations of 1575.6 and 1576.1 feet msl. Between these elevations there was an apparent change in the soil characteristics and types of vegetation. Examples of changes in vegetation types and the slope of the shoreline and bank can be seen in Appendix E.

Outlet Structures

The outlet structure is located at the north end of the lake. It is 134 feet wide and has an overflow elevation of 1575.2 feet msl.

The structure was originally constructed in 1926. At the time, it was constructed 3 feet higher than the natural outlet channel.

Water Level

There are no water level records available for Lake Campbell. At the time of the investigation the water level was 1575.0 feet msl.

Water Rights

There have been two "Vested" Water Rights issued to the Dept. of Game, Fish & Parks relating to the waters of Lake Campbell. Vested Right No. 647-3 was issued for the portion of Lake Campbell located in Brookings County. It allows for the annual recharge of 2700 acre-feet of water or as required to fill the lake to outlet level. This Vested Right has two priority dates - 2600 acre-feet has a priority date of 1889, as required to fill the lake to the original outlet level and 100 acre-feet has a priority date of 1926. This allows for the annual recharge of the evaporated water on the additional 30 surface acres created by the 3 foot increase in the outlet elevation in 1926. Vested Right No. 648-3 was issued for the portion of Lake Campbell located in Moody County. It allows for the annual recharge of 210 acre-feet of water to replace the evaporative losses on the 70 surface acres in Moody County.

CONCLUSIONS

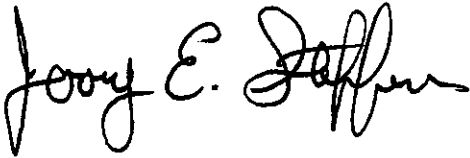
Based on the study of Lake Campbell's hydrological characteristics and elevations of erosion lines and trees found at the upper limits of its lake bed, the Ordinary High Water Mark has been determined to be at an elevation of 1575.7 feet msl.

The present OHWM indicates that the outlet structure has been maintained at an elevation of 1575.2 feet msl.

RECOMMENDATIONS

The Water Rights Division recommends to the Water Management Board:

1. That the Ordinary High Water Mark for Lake Campbell be established at an elevation of 1575.7 feet msl.
2. That Vested Right No. 647-3 and 648-3 be clarified to allow the water level at Lake Campbell to be maintained at an elevation no higher than 1575.2 feet msl.

A handwritten signature in black ink, appearing to read "Jerry E. Steffen". The signature is fluid and cursive, with the first name "Jerry" and last name "Steffen" clearly distinguishable.

Jerry E. Steffen, Natural Resources Engineer
Water Rights Division
Department of Water and Natural Resources

For information regarding OHWM bench marks established at Lake Campbell, contact the Department of Water and Natural Resources, Water Rights Division, Pierre, South Dakota 57501.

APPENDICES

Appendix A.....	Lake Campbell Data County Map Topographic Map Watershed Map
Appendix B.....	Trees Growing Below the OHWM
Appendix C	Trees Growing At The OHWM
Appendix D.....	Trees Growing Above The OHWM
Appendix E.....	Erosion Lines and Water Marks
Appendix F.....	Outlet Structure

Appendix A

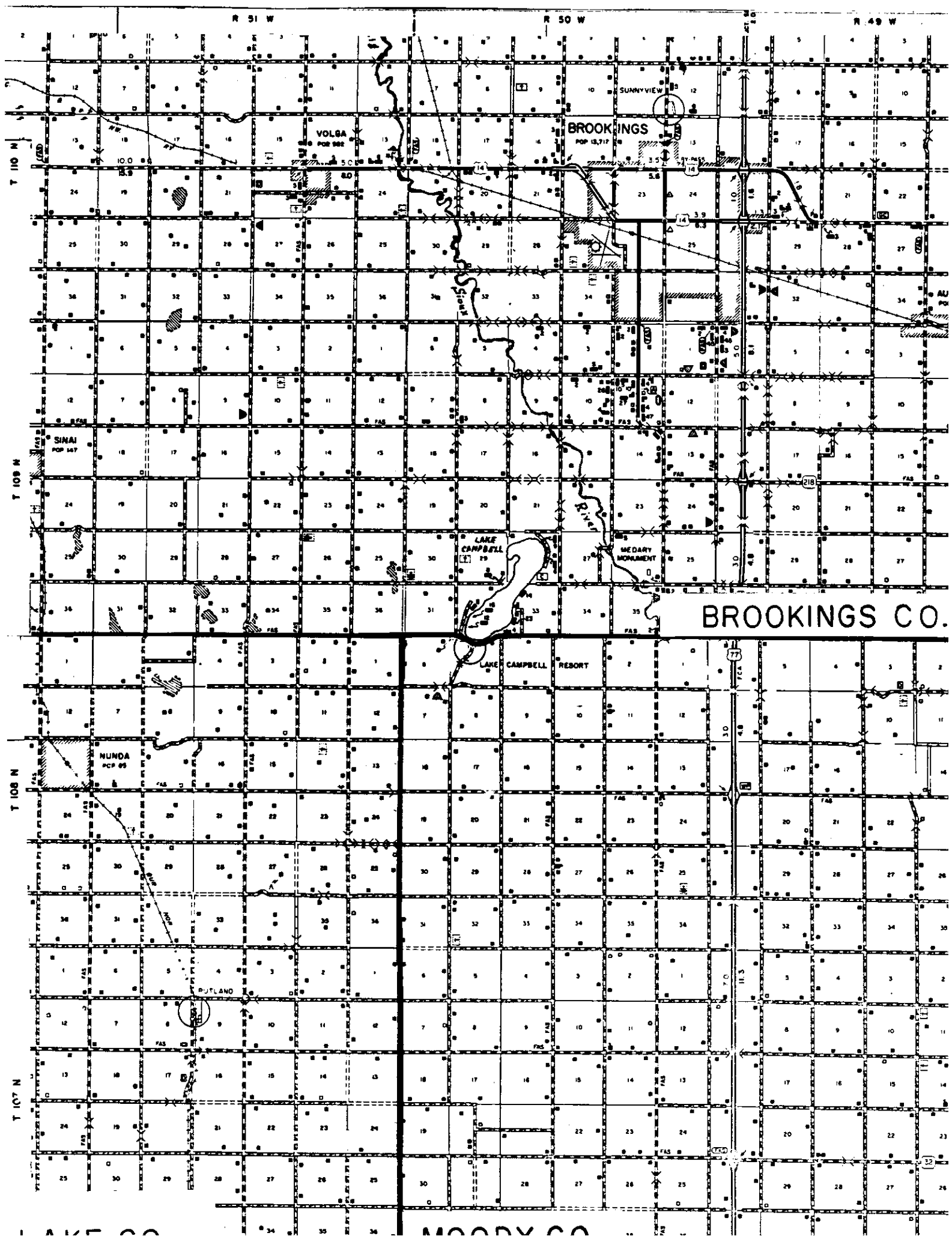
Lake Campbell Data

Surface Area.....1,000 acres¹
Watershed Area.....103,762 acres¹
Maximum Depth.....7 feet¹
Mean Depth.....4 feet¹
Volume.....4,000 acre-feet¹
Aquifer Connection.....Moderate²
Outlet Elevation.....1575.2 feet msl
OHWM Elevation.....1575.7 feet msl
Water Right.....No. 647-3
Held by Game, Fish and Parks
Dept., for the annual recharge
of 2700 acre-feet, for that
portion of Lake Campbell in
Brookings County: priority
dates of 1889 and 1926, No. 648-3
Held by the Department of Game,
Fish and Parks for the annual
recharge of 210 acre-feet
for the portion of Lake
Campbell in Moody County,
priority date of 1889.

BIBLIOGRAPHY

- ¹ Ronald M. Koth, South Dakota Lakes Classification and Inventory, South Dakota Department of Water and Natural Resources, Office of Water Quality, July 1, 1981, pp 88-93.
- ² State Lakes Preservation Committee, A Plan for the Classification, Preservation, and Restoration of Lakes in Northeast South Dakota, July 1977, p. 77.

C30103js.wr



RUTLAND NW QUADRANGLE

SOUTH DAKOTA

7.5 MINUTE SERIES (TOPOGRAPHIC)

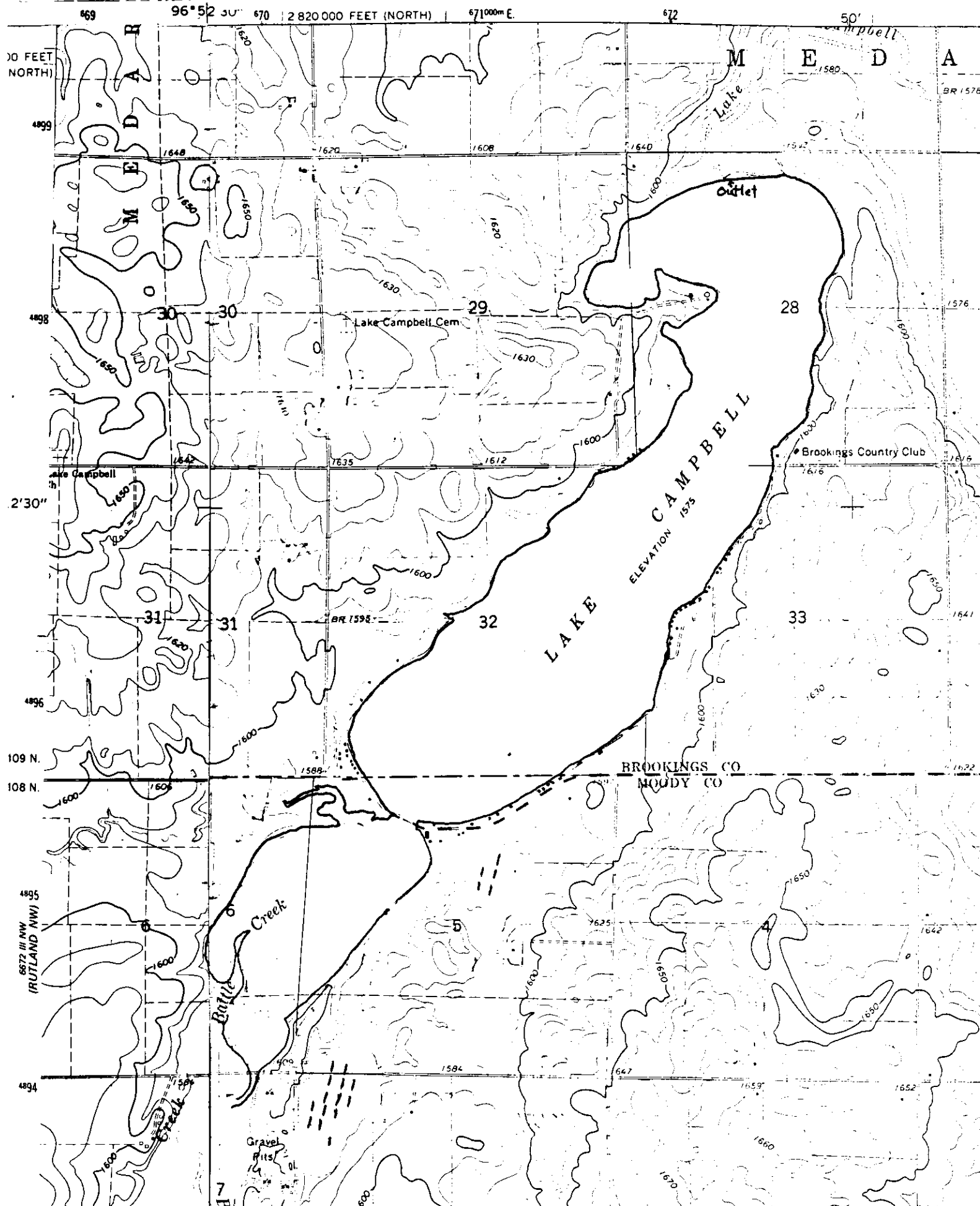
MEDARY QUADRANGLE

SOUTH DAKOTA

7.5 MINUTE SERIES (TOPOGRAPHIC)

21

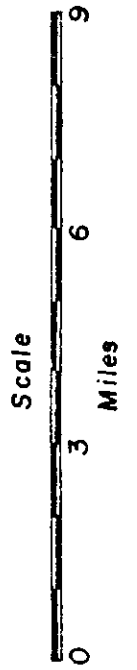
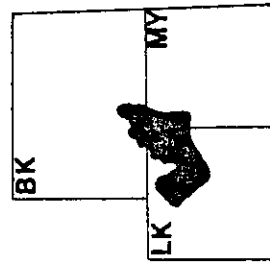
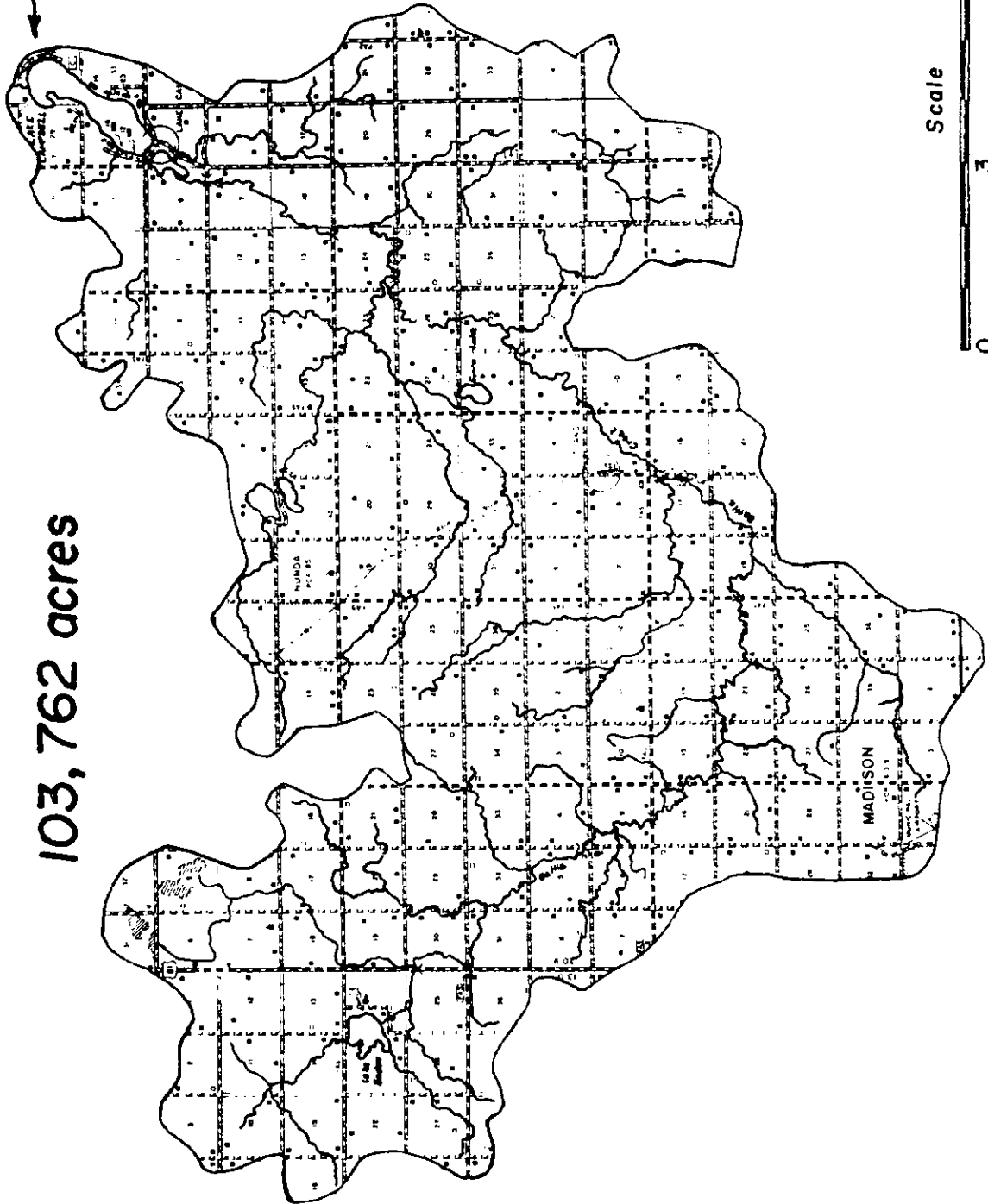
1577



Lake Campbell

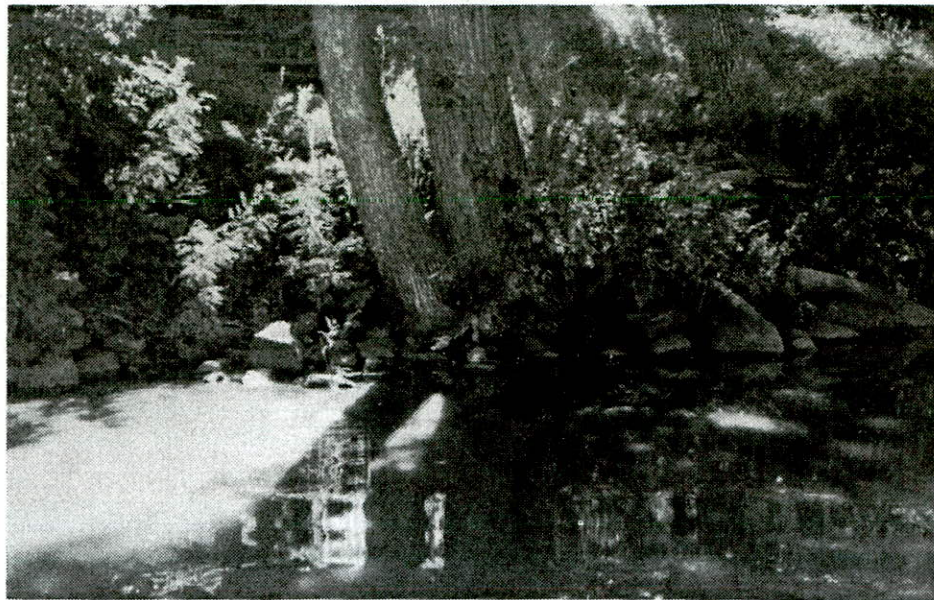
103,762 acres

Big Sioux River
Outlet



APPENDIX B

Trees Growing Below the OHWM



(dead)
PHOTO NO. 1 Description: Cottonwood, Dia. 1.2 & 2.0, Age 60 years
Base Elevation: Lakeside---1575.0



PHOTO NO. 2 Description: Cottonwood, Dia. 1.4 & 1.0, Age 50 years
Water Mark Elevation---1575.6



PHOTO NO. 3 Description: 3 Cottonwood trees growing in 2 ft.
bank (south side of lake)
Destruction Line Elevation----1575.5

APPENDIX C

Tree Growing at the OHWM



PHOTO NO. 4

Description: Cottonwood, Dia. 2.3 ft, Age 65 years
Base Elevations: Lakeside----1575.6
Landside----1577.6

APPENDIX D

Trees Growing Above the OHWM

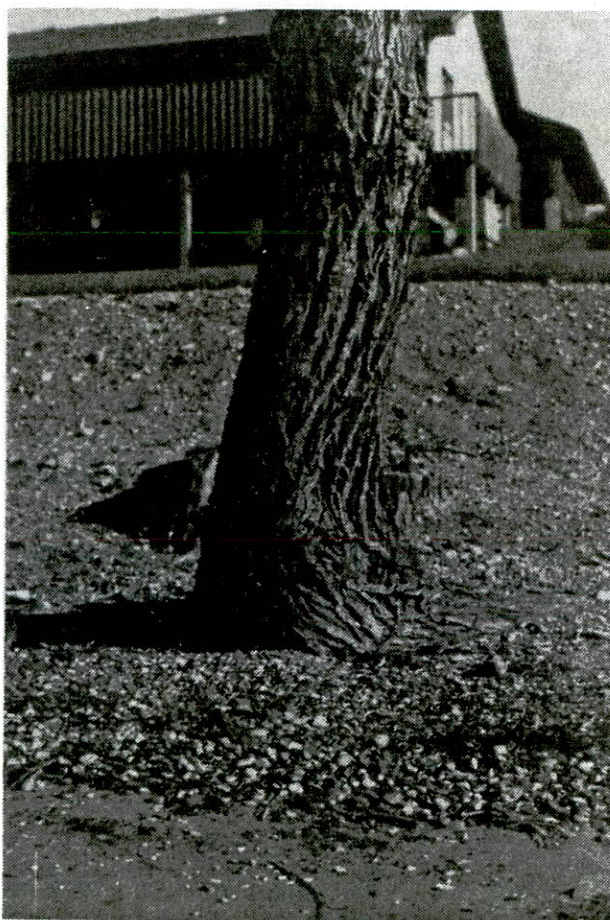


PHOTO NO. 5

Description: Willow, Dia 1.4 ft,
Age 50 years

Base Elevations:

Lakeside----1575.9

Landside----1576.4



PHOTO NO. 6

Description: Cottonwood, Dia. 1.6 ft, Age 55 years

Base Elevations: Lakeside----1576.0

Landside----1577.0

APPENDIX E

Erosion Lines and Water Marks



PHOTO NO. 7

Erosion Line Elevations:	1575.9	Vegetation Line Elevations:	1575.8
	1575.9		1575.7
	1575.8		1575.6
	1576.1		1575.6
	1575.8		



PHOTO NO. 8

Erosion Line Elevations (foreground to background from tree)	
1575.8	1575.9
1575.8	1575.8
1575.9	1575.8

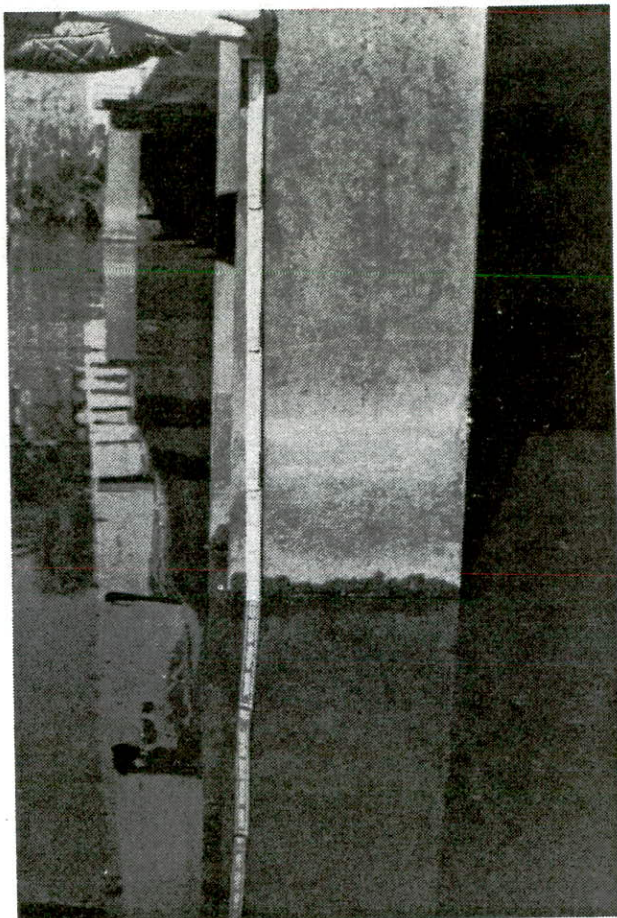


PHOTO NO. 9
Water Mark on Bridge
Elevation----1575.6



PHOTO NO. 10 Water Mark on Rock (west side of lake)
Elevation----1575.7

APPENDIX F
OUTLET STRUCTURE



PHOTO NO. 11 Outlet Structure
134 feet wide
Elevation----1575.2 ft. msl

647-3

AGENDA

Water Management Board Meeting
April 14 & 15, 1983

PLACE: Nebraska Room, Howard Johnsons, 3300 W Russell, Sioux Falls SD

THURSDAY, April 14, 1983

- 8:30 am Call to Order
Approval of February 22, 1983 Conference Call minutes
Approval of February 24 & 25, 1983 minutes
Set October meeting time & place (October 6 & 7 in Pierre suggested)
Discussion of request to change July meeting date
Status & review of Water Rights Litigation & Legislation
Discussion of City of Huron proposal
Discussion of Existing future use permits without seven year review clause
Discussion of proposed Rule changes
- 9:00 am Vested Right Considerations
Request for Extension of Time
- 9:45 am Break
- 10:00 am Establishment of Ordinary High Water Marks & Clarify Department of Game,
Fish & Parks and other Water Rights
647-3 Lake Campbell - Brookings Co.
648-3 Lake Campbell - Moody Co.
902-3 Oak Lake - Brookings Co.
882-3 Punished Woman Lake - Codington Co.
1473-3 Clear Lake - Deuel Co.
1464-3 Fish Lake - Deuel Co.
864-3 Wall Lake - Minnehaha Co.
Swan Lake (New Vested Right claim 4944-3) - Turner Co.
- 12:00 noon Lunch
- 1:00 pm Consideration of Petition for a Declaratory Ruling submitted by
Oliver M Romey against Tom Landers and A & T Cattle Co. Inc. and
proposed Findings of Fact, Conclusions of Law and Final Decision
- 2:00 pm Consideration of Mr. Arends notification of Intent to Rescind for
purpose of reconsideration actions taken by the Water Management
Board February 25, 1983 at the end of the hearing on proposed rule
changes requested by petition from Homestake Mining Co. to make
certain changes in stream classification for Whitewood Creek
- Other business
- Recess for Day

FRIDAY, April 15, 1983

- 9:00 am Reconvene
Consideration of a Petition for Declaratory Ruling submitted by
the Friends of the Dakota Sandstone Aquifer against South Lincoln
Rural Water System
- Other business
- Adjourn

REPRODUCTION, REVISION, 647-3, ROLL NO. 12, DATE MICROFILMED, CHWEN OF MICH.

final with no appeal. The two cases filed in Lincoln NE, in which South Dakota attempted to intervene were denied. The State appealed that and decided to try an alternative way. The Darrell Kaarup case in Lincoln County is being held up because Mr. Kaarup has filed bankruptcy. The bankruptcy Court can hold up Civil Litigation until the bankruptcy action is completed. They are exploring ways to get around this. The Tyler well near Pierre has been controlled and the action will be dismissed.

LEGISLATION

Mr. Hatch briefly reviewed some of the Legislation passed by the Legislature.

Meeting recessed at 9:47 am.

Meeting reconvened at 10:02 am.

ORDINARY HIGH WATER MARKS

LAKE CAMPBELL

Chairman Gunderson administered the oath to Jerry Steffen.

Jerry Steffen presented the report on Lake Campbell (copy on file).
Mr. Steffen read the recommendations by the staff on Lake Campbell.

Chairman Gunderson administered the oath to William B. Bruns.

Mr. Bruns stated he was president of the Lake Campbell Association. Mr. Bruns stated he was not objecting to the establishment of the Ordinary High Water Mark. The Department of Water and Natural Resources at the present time is helping them make a survey of the lake's water quality. A cost survey is being made of the siltation of the dam in Battle Creek and a cost survey of the removal of the siltation. At the present time, the siltation is going directly into the lake and they are losing water depth rapidly. At the present, water is flowing over the dam at 14 inches or more. The throat of the present dam is too narrow in the spring. Water is flowing over the road in the area controlled by the Department of Game, Fish and Parks. The road is approximately one and one half feet above the throat of the dam. There is a tremendous amount of water that comes down Battle Creek in the spring. It is so much that the outlet could not take it. Consequently there are cottages on the south end of the lake that became flooded. One cottage has approximately 3 inches of water in the living room. During the six years that this gentleman has owned the cottage this has happened three times. Mr. Bruns stated they would like the Department of Game, Fish and Parks notified that the condition exists and it must be corrected. The Association would like to know who is responsible for the widening of the dam. They would like to, in the future, make a six inch raise in the top of the dam. If they widen the dam they can also go to a higher depth to allow some water for evaporation. The evaporation happens all summer, in the fall of the year they are 5/10 of a foot below the dam. Their lake is one of the pothole lakes in the State. Being very shallow it has to have slightly more depth to protect the fish in the lake.

In answer to a question from Mr. Arend, Mr. Bruns stated if the dam is widened to 280 feet and put in a sluice-way for the silt, then they would like to raise the dam 6 inches.

Mr. Bruns showed the Board some pictures of the lake.

Mr. Steffen stated in the recommendation the wording "to be maintained at an elevation no higher than" the staff believes that Game, Fish and Parks has control of the management of the lake, and the staff does not believe we should say that Game, Fish and Parks has to maintain a lake at this level. They may maintain it at a lower elevation but no higher elevation. Mr. Steffen stated by widening and increasing the elevation of the dam more erosion will occur. No matter how wide the dam is, the water level should be maintained at that same level. Raising the outlet level 6 inches would cause a 6 inch increase in the OHWM and erosion around the lake.

Mr. Hatch stated if they wanted to raise the outlet level elevation it would take a separate new application from Game, Fish and Parks to raise that level. Part of the application would need to include the widening of the dam. There would have to be a public hearing before the Board.

Mr. Bruns stated since they did not receive the notice but thirty days ago, they did not have time for an Association meeting. The proposal of raising the six inches to the dam was only made by a few people who were interested.

Chairman Gunderson stated that would be future action for the Board's consideration.

Mr. Hatch read a letter of concurrence from Jack Merwin, Department of Game, Fish and Parks (copy on file).

Mr. Rylance MOVED, SECONDED by Mr. Walter that the Ordinary High Water Mark for Lake Campbell be established at an elevation of 1575.7 feet msl and that Vested Right Nos. 647-3 and 648-3 be clarified to require the outlet structure for Lake Campbell to be maintained at an elevation of 1575.2. MOTION CARRIED.

OAK LAKE

Jerry Steffen presented the report on Oak Lake (copy of file). Mr. Steffen read the recommendations by the staff on Oak Lake.

Mr. Hatch read a letter of concurrence from Jack Merwin, Department of Game, Fish and Parks (copy on file).

Mr. Rylance MOVED, SECONDED by Mr. Harms that the Ordinary High Water Mark for Oak Lake be established at an elevation of 1802.3 feet msl and that Vested Right No. 902-3 be clarified to require the outlet structure for Oak Lake to be maintained at an elevation of 1801.8 feet msl. MOTION CARRIED.

PUNISHED WOMAN LAKE

Jerry Steffen presented the report on Punished Woman Lake (copy on file). Mr. Steffen read the recommendations by the staff on Punished Woman Lake. Staff is recommending that the outlet elevation be established at its pre-1971

REPRODUCTION: REDUCED 25.1 ROL NO. 10
DATE MICROFILMED 2-22-70
CHEN OPERATOR



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SOUTH DAKOTA

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

Memo to File

Lake Campbell in Brookings County

VWR No. 647-3

The OHWM was set by the Water Management Board on April 14, 1983.

OHWM elevation 1575.7 fmsl NGVD29

The outlet elevation was set by the Water Management Board on April 14, 1983

Outlet elevation 1575.2 fmsl NGVD29