

No. *U.S. 75-2*

Office of State Engineer
DOCUMENT FILE

Ld - Ld - 2

Alum No. 226-22

County: Stanley

Applicant: Cash Economics

Location: 1/4 Sec 2, T15N R14W

Date of Filing: 8-11-38

Completion of Order: Sept 1936

Approved: [Signature]

By: [Signature]

Form C

CERTIFICATE OF WITHDRAWAL OF

WATER FOR APPROPRIATION

U. S. No. 75

TO

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF LAND UTILIZATION DIVISION
BUREAU OF AGRICULTURAL ECONOMICS

IN WINDY DAM
Stream

Butte
County

The United States Department of Agriculture, Land Utilization Division, Economics, having made application for the withdrawal of certain heretofore unappropriated public waters of the State of South Dakota, and having complied with the requirements of the Statute of the State of South Dakota providing for such withdrawal, such statute and authority being contained in and described as Vol. 2, Chapter 2, Article 1, Paragraph 6245 of the Revised Code of 1919, now therefore:

This is to certify that there is hereby reserved, of the heretofore unappropriated waters of a Dry Draw the annual amount of 485,000 cubic feet of water plus losses due to evaporation or such amount as will maintain the lake level at the present overflow elevation. Said water is to be used for stockwater purpose. The West end of the impounding dam is located 1850 feet North 46 degrees 29 minutes East of Section 461 in SW corner Sec. 2 T. 100 N. R. 70 W. of Butte County. The above quantity of water is hereby withdrawn from future appropriation during the continuance of the right herein granted and contained.

This certificate and withdrawal shall in no manner prejudice, alter, amend or effect the rights of any prior appropriator or prior appropriation of water, nor of any application for appropriation pending upon the date of this certificate, but the rights and privileges of any and all such prior appropriators or applicants for appropriation of water shall remain inviolate and intact, the same as if the within withdrawal had not been made.

This certificate shall be and is subject to cancellation in accordance with the provisions of the statute hereinbefore referred to and under the authority of which this certificate is issued.

In accordance with the provisions of the statute hereinbefore referred to, this certificate is executed at the State Capitol at Pierre, South Dakota, this 11th day of August 1938.

Wendell L. Lucks
State Engineer.

JOE NO. 226-22 Approximate date completed: September, 1936

That Leonard Noble, Proj. Agr., South Central South Dakota Land Adjustment Project
Resettlement Administration, U. S. Department of Agriculture
whose post office is . . . Pierre, South Dakota, a citizen of the

Tract No. 780 - SW¹
 Section 2 Township 109 N
 Range 79 W 5th P.M. in Stanley County, South Dakota.

For Live Stock Purposes, and

1. The first part of the document is a title page. It contains the title "THE HISTORY OF THE UNITED STATES OF AMERICA" and the author "BY JAMES M. SMITH".

Said location was made on the . . . 26 . . . day of . . . Sept. . . . 193. . . 6

FOR HENRY A. WALLACE
SECRETARY OF AGRICULTURE

STATE OF SOUTH DAKOTA,)
) ss.
County of. Hughes .)

Witness my hand and official seal the day and date above written.

Gertrude Pedersen
Notary Public

DESCRIPTION OF EARTH IMPOUNDING DAM
RESERVOIR AND SPILLWAY DAM NO. 226

JOB NUMBER 226 - 22

Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota LD-SD 2
State Number

A. Location of Dam and Reservoir

SW $\frac{1}{4}$ of the Sec. 2; Township 109 N; Range 79 W
of the 6th Principal Meridian; County Stanley.

B. General Data

1. Area of drainage basin above dam: 0.44 sq. miles.

(Note: For areas greater than 5 sq. miles give size to nearest sq. mi.; for areas smaller than 5 sq. miles give area to nearest tenth.)

2. Average annual precipitation on water shed in inches: 20

3. Give amount of rainfall in inches and duration of the heaviest downpour that can be expected based upon reliable records or information of the vicinity.

a. 2.2 inches.

b. 60 minutes.

c. U.S. Weather Bureau
Source of information.

4. Give description of water shed.

a. The slopes are sod-covered, cultivated, bare.

100% sod covered. Slope of drainage area 20'/1000'

(Note: Answer (a) by striking out words not needed. Only a general description is wanted. If desired, a word or two may be given in the space that is provided.)

b. Average length of drainage basin 1.0 miles.

c. Average width of drainage basin 0.44 miles.

5. Maximum run-off of drainage area at the damsite: 87
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 13 ft.
2. Length along centerline at top of dam: 432 ft.
3. Width of top: 10 ft.
4. Upstream slope: 4 ft. horizontally to 1 ft. vertically.
5. Downstream slope: 2 ft. horizontally to 1 ft. vertically.
6. Volume in embankment: 4990 cu. yds.
7. Distance above high-water line to top of dam: 5 ft.
8. Distance above water surface to top of dam when spillway is discharging maximum run-off: 2.5 ft.

D. Description of Spillway

1. Bottom width: 18 ft.
2. Slope of sides: 1 $\frac{1}{2}$:1 (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: 0.1 ft. per hundred ft.
4. Maximum discharge: 144 cu. ft. per second.
5. Depth of water in spillway at time of maximum discharge: 2.5 ft.

(Note: The surface of water in the spillway must be at least 30" below the top of the dam when the spillway is discharging the maximum run-off of the drainage basin.)

E. Description of Reservoir

1. Area when filled to level of spillway: 3.4 acres.
2. Area when half-full: 0.94 acres.
3. Area at depth of two feet: 0.2 acres.
4. Volume when filled to level of spillway: 10.0 acre-ft.
5. Volume when half-full: 1.3 acre-feet.
6. Volume at depth of two feet: 0.2 acre-feet.
7. Average depth when full: 3.0 feet.

(over)