

No.

U.S. 73-2

Office of State Engineer
DOCUMENT FILE

Sal. Sal. 2

Mem. No. 226-20

County: Lyman

Applicant: Florio Economics

Location: NW 1/4 Sec. 29, T.107N, R. 18W.

Date of Filing: 8-11-38

Completion: Apr. to Sept. 1936

Purpose: Livestock

Stream: Lyman Co. Abolished Co. Dam

Ray Brown

Form C

CERTIFICATE OF WITHDRAWAL OF
WATER FOR APPROPRIATION

U. S. No. 73

TO

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

LYMAN
County

Lyman Co., ~~Abstract for~~ Dry Draw
Stream

The ~~United States Department of Agriculture~~ Land Utilization Division ~~Agri. 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 8243 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 1,180,592 cubic foot 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 East end of the impounding dam is located 1088 feet North 34 degrees 23 minutes East of SW corner, NW 1/4 of Sec. 25, T. 1, R. 1, S. 1, Lyman in SW corner, NW 1/4 of Sec. 25, T. 1, R. 1, S. 1, Lyman 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 The above quantity of water is hereby withdrawn from future appropriation during the continuance of the right herein granted and contained.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 heretofore referred to and under the authority of which this certificate is issued.

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

Dean C. Lander
State Engineer.

19-7.

Approximate date completed: September, 1936.

That Leonard Noble, Proj. Mgr., 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. 51.1. - NW 1
Section . . . Township . . . 107 N
range . . . 78W . . . 5th P.M. in . . . Lyman . . . County, South Dakota.

Said locator claims for the above purpose 3,188,592. cubic feet of water plus losses due to evaporation ~~per second~~ during the following described annual periods . : January 1st . . . to December 31st inclusive, each year.

The ditch . . . will run in a . . . direction to
on said land for a distance of . . . feet.

Said location was made on the 10. 7th day of Jly . . 1936..

Witness my hand and seal this 3rd day of August, 1937.

FOR HENRY A. WALLACE *Leonard Noble*
SECRETARY OF AGRICULTURE *Locator Prof. Mer.*

Locator, Proj. Mgr.
Resettlement Administration
U. S. Department of Agriculture

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

On the . . . 3rd. . . day of . August 1937. . . before me.
 Gertrude Pedersen a Notary Public in for
 the County and State aforesaid, personally appeared . Leonard Noblo to me
 personally known to be the person who executed the foregoing instrument and
 acknowledged that he executed the same for the use and purposes therein set forth.

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

Gertrude Beesem

RA-7LJ-28

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

JOB NUMBER 226 - 20

Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota LD-SD 2
State Number

A. Location of Dam and Reservoir

NW 1/4 of the Sec. 29; Township 107 N; Range 78 W
of the 5th Principal Meridian; County Jean

B. General Data

1. Area of drainage basin above dam: 2.6- 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.

95% sod-covered, 5% cultivated. Slope of drainage area 30'/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 2.2 miles.

c. Average width of drainage basin 1.2 miles.

5. Maximum run-off of drainage area at the damsite: 435
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 17 ft.
2. Length along centerline at top of dam: 626.2 ft.
3. Width of top: 12 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: 10,995 cu. yds.
7. Distance above high-water line to top of dam: 6 ft.
8. Distance above water surface to top of dam when spillway is discharging maximum run-off: 3.5 ft.

D. Description of Spillway

1. Bottom width: 30 ft.
2. Slope of sides: 1 1/2:1 (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: 0.1 ft. per hundred ft.
4. Maximum discharge: 493 cu. ft. per second.
5. Depth of water in spillway at time of maximum discharge: 2.7 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: 15.1 acres.
2. Area when half-full: 6.3 acres.
3. Area at depth of two feet: 1.2 acres.
4. Volume when filled to level of spillway: 73.2 acre-ft.
5. Volume when half-full: 14.3 acre-feet.
6. Volume at depth of two feet: 1.2 acre-feet.
7. Average depth when full: 4.84 feet.

(over)