

No. *U.S. 62-2*

Office of State Engineer
DOCUMENT FILE

Ld - Ld - 2
Alarm No. 226-8

County: Stanley
Applicant: Agnes. Economics
Location: SE 1/4 Sec. 28, T. 3N,
R. 31E

Date of Filing: 8-11-38
Completion: March 1936
Purpose: Fenced
By: [Signature]

Form C

CERTIFICATE OF WITHDRAWAL OF
WATER FOR APPROPRIATION

TO

U. S. No. 62

UNITED STATES DEPARTMENT OF Agriculture
BUREAU OF

Land Utilization Division
Bureau of Agricultural Economics Doan Dam
Stream

Stanley County

The United States Department of Agriculture, Land Utilization Division, Agricultural Engineers, having made application for the withdrawal of certain heretofore appropriated 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 8245 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 858,132 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. To East end of the impounding dam is located thence 591 feet south 90 degrees 00 minutes West of NE corner, SE $\frac{1}{4}$ of sec. 28, T. 3 N., R. 81 E.
in Stanley 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 The above quantity of water is hereby withdrawn from future appropriation during the continuance of the right herein granted and contained.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 affect 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 1919.

David H. Houchens
State Engineer.

LOCATION NOTICE

JOB NO. 226-8 Approximate date completed: March, 1936

KNOW ALL MEN BY THESE PRESENTS:

That Leonard Noble, Project Manager, South Central S. Dak. Land Adjustment Project
Resettlement Administration, U. S. Department of Agriculture
whose post office is . . . Pierre, South Dakota, a citizen of the
United States, above the age of 21 years, being in possession of the following
in the name of the United States,
described land, to wit:

Tract No. 325 - SE $\frac{1}{4}$
Section . . . 28 Township . . . 3 N
range . . . 31 E . . . B.H.M., in . . Stanley County, South Dakota.

Availing him self of the right granted him under the provisions of
Chapter 2, Article 1, Paragraph 8239 of the Revised Code of 1913, has loc-
ated and claims the right to construct a certain dam across a dry draw
situated in the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of section 28 . . township . . 3 N . .
range 31 E . . B.H.M. and has located and claims the right to construct ditches
and flumes for the purpose of directing flood waters from said dam for bene-
fit of the land first above described and for Live Stock Purposes, and
claims the right of way across any land for the purpose of conveying water
for said purposes.

Said locator claims for the above purpose 858,132 . . cubic feet of water plus losses
due to evaporation during the following described annual periods Janua. 1
to December 31 inclusive, each year.

The location of the point of diversion of the water is as follows:
From the
The ditch will run in a direction to
and on said land for a distance of feet.

Said location was made on the . . 18th day of . . May 1936.

Witness my hand and seal this . . 3rd . . day of August . . 1937.
FOR HENRY A. WALLACE
SECRETARY OF AGRICULTURE
Leonard Noble
Locator, Project Manager
Resettlement Administration
U. S. Dept. of Agriculture

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

On the . . 3rd day of August 1937 before me
Gertrude Beddesen a Notary Public in and for
the County and State aforesaid, personally appeared Leonard Noble 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.

C. E. Nov 11, 1939

Gertrude Beddesen

RA-7LU-28

DESCRIPTION OF EARTH IMPOUND. & DAM
RESERVOIR AND SPILLWAY DAM NO. 226

JOB NUMBER 226 - 8 (repair)

Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota LD-SD 2
State Number

A. Location of Dam and Reservoir

SE $\frac{1}{4}$ of the Sec. 28; Township 3 N; Range 31 E;
of the Black Hills Meridian; County Stanley.

B. General Data

1. Area of drainage basin above dam: 0.8 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.

50% pasture, 50% cultivated. Slope of drainage area 30' per 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 1.6 miles.

c. Average width of drainage basin 0.6 miles.

5. Maximum run-off of drainage area at the dam site: 155
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 15 ft.
2. Length along centerline at top of dam: 759.5 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: 4726 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: 14 ft.
2. Slope of sides: 1:1 (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: 0.2 ft. per hundred ft.
4. Maximum discharge: 166 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: 5.8 acres.
2. Area ~~when half full~~ ^{at present water level}: 1.3 acres.
3. Area at depth of two feet: _____ acres.
4. Volume when filled to level of spillway: 19.7 acre-ft.
5. Volume ~~when half full~~ ^{at present water level}: 3.4 acre-feet.
6. Volume at depth of two feet: _____ acre-feet.
7. Average depth when full: 3.4 feet.

(over)