

No. U. S. 96-2

Office of State Engineer
DOCUMENT FILE

Lab - Lab - 2

Alm 243-12

County: Stanley

Applicant: Agnes C. C. C.

Location: SW 1/4 Sec 5, T7N21N, R7W

Date of filing: 8-11-38

Completion: March 15, 1938

Purpose: Livestock

Dry Draw

CERTIFICATE OF WITH DRAVAL OF
WATER FOR APPROPRIATION

U. S. 93

TO

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF LAND UTILIZATION SERVICES
BUREAU OF ECONOMIC RESEARCH

STANLEY COUNTY

GH:HK-----HJ:IL-----

The

United States Revised Code of 1919, now therefore:

This is to certify that there is hereby reserved, of the
heretofore unappropriated waters of a Dry Year the annual amount of
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 end of the impounding
dam is located _____ feet ---South--- degrees ---50---
minutes _____ of 125 _____ South _____ 50
South _____ by corner _____
hereby withdrawn. No 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 aforesaid 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.

State Engineer

LOCATION NOTICE

JOB NO. 243-12

APPROX. DATE OF COMPLETION March 25, 1938

KNOW ALL MEN BY THESE PRESENTS:

That Leonard Noble, Project Manager, South Central South Dakota Land Adjustment Project, Farm Security 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 described land, in the name of the United States, to wit: Tract No. 307, SW $\frac{1}{4}$ of Section 5, Township 109 North, Range 77 West, 5th P.M., Stanley County, South Dakota, availing himself of the right granted him under the provisions of Chapter 2, Article 1, Paragraph 1239 of the Revised Code of 1919, has located and claims the right to construct a certain dam across a dry draw situated in the SW $\frac{1}{4}$ of Section 5, Township 109 North, Range 77 West, 5th P. M. for livestock purposes.

Said locator claims for the above purpose 367,192 cubic feet of water plus losses due to evaporation during the following described annual periods January 1st to December 31st inclusive, each year.

Said location was made on the 16th day of December, 1937.

Witness my hand and seal this 7th day of May, 1938.

FOR HENRY A. WALLACE
SECRETARY OF AGRICULTURE

Leonard Noble
Locator, Project Manager, Farm
Security Administration, U. S.
Department of Agriculture

STATE OF SOUTH DAKOTA)
COUNTY OF Perkins) SS

On the 7 day of May, 1938, before me

C. P. Walsh, 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 year above written.

C. P. Walsh
Notary Public

My commission expires 5-4-40

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

JOB NUMBER ~~226~~ - 243-12

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. 5; Township 109 N; Range 77 W;
of the 5th Principal Meridian; County Stanley.

B. General Data

1. Area of drainage basin above dam: 72 acres 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 Records
Source of information.

4. Give description of water shed.

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

10% cultivated, 90% range

(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 0.4 miles.

c. Average width of drainage basin 0.3 miles.

5. Maximum run-off of drainage area at the dam site: 29
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 14.6 ft.
2. Length along centerline at top of dam: 269 ft.
3. Width of top: 9 ft.
4. Upstream slope: 3 ft. horizontally to 1 ft. vertically.
5. Downstream slope: 2 ft. horizontally to 1 ft. vertically.
6. Volume in embankment: 2370 cu. yds.
7. Distance above high-water line to top of dam: 3 ft.
8. Distance above water surface to top of dam when spillway is discharging maximum run-off: 2.5 ft.

~~Plus that through 24" pipe cut-off~~

D. Description of Spillway

1. Bottom width: 16 ft.
2. Slope of sides: 2:1 (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: 0.1 ft. per hundred ft.
4. Maximum discharge: 14 cu. ft. per second.
5. Depth of water in spillway at time of maximum discharge: 0.5 ft.

Plus 15 c.f.s. discharge through 24" pipeline.

(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: 1.6 acres.
2. Area when ~~half-full~~ water level is 4' below spillway: 0.6 acres.
3. Area at depth of two feet: .35 acres.
4. Volume when filled to level of spillway: 8.2 acre-ft. with borrow
5. Volume when ~~half-full~~ water level is 4' below spillway: 3.8 acre-feet. with borrow
6. Volume at depth of two feet: 1.9 acre-feet. with borrow
7. Average depth when full: 5.1 feet. with borrow

(over)