

No.

25 90-2

Office of State Engineer
DOCUMENT FILE

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Alarm No. 243-4

County: Lyman

Applicant: Agnes. Economics

Location: NE 1/4 Sec. 11, T. 10 N., R. 71 W.

Date of filing: 8-11-38

Comparison: Approx. Aug. 1937

Purpose: Fenced

Stream: Williams River

By: Draw

Form C

CERTIFICATE OF WITHDRAWAL OF
WATER FOR APPROPRIATION

U. S. No. 90

TO

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

LYMAN
County

WILLIAMSON DAM
Stream

The United States Department of Agriculture, Land Utilization Division, Bureau of Agricultural 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 the force:

This is to certify that there is hereby reserved, of the heretofore/unappropriated waters of a Dry Draw the annual amount of 133,293 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 North 84° of the impounding dam is located 840 South feet South 80 degrees 00 minutes West of thence 298 NE corner of NE 1/4 Sec. 11, T. 107 N., R. 79 W. in 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 The above quantity of water is hereby withdrawn from future appropriation during the continuance of the right herein granted and contained.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.

Paul Louch
State Engineer.

LOCATION NOTICE

JOB NO. 243-4

APPROX. DATE OF COMPLETION August 1937

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. 398 S. The NE $\frac{1}{4}$ of Section 11, T. 107 N., R. 79 W of 5th P. M., in Lyman 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 NE $\frac{1}{4}$ of Section 11, T. 107 North, Range 79 East of 5th P. M. for livestock purposes.

Said locator claims for the above purpose 133,293 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 20th day of May, 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 Pierre) SE

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

RA-7LU-28

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

JOB NUMBER ~~242~~ - 243-4

Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota
State

LD-SD 2
Number

A. Location of Dam and Reservoir

NE 1/4 of the Sec. 11; Township 107 N; Range 79W
of the _____ Meridian; County _____

B. General Data

1. Area of drainage basin above dam: 254 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.

(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 0.90 miles.

c. Average width of drainage basin 0.44 miles.

5. Maximum run-off of drainage area at the dam site: 107
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 11 ft.
2. Length along centerline at top of dam: 183.7 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: 1309 cu. yds.
7. Distance above high-water line to top of dam: 4 ft.
8. Distance above water surface to top of dam when spillway is discharging maximum run-off: 2 ft.

D. Description of Spillway

1. Bottom width: 23 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: 111.3 cu. ft. per second.
5. Depth of water in spillway at time of maximum discharge: 1 1/2 ft.

(Note: The surface of water in the spillway must be at least 50" 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: 0.63 acres.
2. Area when half-full: 0.36 acres.
water level is 4' below spillway
3. Area at depth of two feet: 0.36 acres.
4. Volume when filled to level of spillway: 3.06 acre-ft.
water level is 4' below spillway
5. Volume when half-full: 1.08 acre-feet.
6. Volume at depth of two feet: 0.72 acre-feet.
7. Average depth when full: 4.9 feet.

(over)