

No.

U.S. 712

Office of State Engineer
DOCUMENT FILE

Ldl-Ldl-2

Plan No 226-17

County: Lyman

Applicant: Agnes Economics

Location: NE 1/4 Sec 18, T17N, R18W

Date of Filing: 8-11-38

Completion: Approx Dec 1936

Engineer: J. J. Smith

Drawn: Thomas A. Day

Why Draw

Form C

CERTIFICATE OF WITHDRAWAL OF
WATER FOR APPROPRIATION

U. S. No. 71

TO

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

LYMAN
County

THOMAS DAM
Stream

The United States Department of Agriculture, Land Utilization Division, 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 1,110,780 cubic feet of water plus losses due to evaporation or such amount as will maintain the lake level at the point of overflow elevation. Said water is to be used for stockwater purposes. The West end of the impounding dam is located 945 feet North 36 degrees 52 minutes East of SE corner, NE 1/4 Sec. 18, T. 107 N., R. 70 W., 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 The above quantity of water is hereby withdrawn from future appropriation during the continuance of the right herein granted and contained.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 A. Louch
State Engineer.

LOCATION NOTICE

JOB NO. 278-17 Approximate date completed: Dec., 1936

KNOW ALL MEN BY THESE PRESENTS:

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

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. 713A . . . NW $\frac{1}{4}$
. Section . . . 18 Township . . . 107. N.
range . . . 78 W . . . 5th P.M. . . . in . . . Lyman 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 1919, has located and claims the right to construct a certain dam across a dry draw situated in the SW. $\frac{1}{4}$ of the . . NE $\frac{1}{4}$ of section . 18 . . township . . 107. N. . range . 78 W . 5th P.M. and has located and claims the right to construct ditches and flumes for the purpose of directing flood waters from said dam for irrigation 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 purposal, 110,780. cubic feet of water plus losses due to evaporation per second during the following described annual periods . . . January 1st. to December 31st inclusive, each yr.

The location of the point of diversion of the reservoir 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 . . . 12th . . . day of . . . August . . . 1936.

Witness my hand and seal this 3rd day of August 1937.
FOR HENRY A. WALLACE
SECRETARY OF AGRICULTURE

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 Bedessem a Notary Public in 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.

Com Ex Nov 16-1939

Gertrude Bedessem
Notary Public

DESCRIPTION OF EARTH IMPOUNDING DAM
RESERVOIR AND SPILLWAY DAM NO. 226JOB NUMBER 226 - 17Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota
StateLD-SD 2
NumberA. Location of Dam and ReservoirNE 1 of the Sec. 18; Township 107 N; Range 78 W
of the 5th Principal Meridian; County JaymanB. General Data

1. Area of drainage basin above dam:
- 1.0
- 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.

60% sod-covered, 40% cultivated. Slope of drainage area 40'/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 1.3 miles.c. Average width of drainage basin 0.6 miles.

5. Maximum run-off of drainage area at the damsite:
- 230
-
- 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: 330 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: 5620 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: 35 ft.
2. Slope of sides: 1:1 (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: 0.1 ft. per hundred ft.
4. Maximum discharge: 251 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: 5.3 acres.
2. Area when half-full: 2.1 acres.
3. Area at depth of two feet: 0.5 acres.
4. Volume when filled to level of spillway: 25.5 acre-ft.
5. Volume when half-full: 5.1 acre-feet.
6. Volume at depth of two feet: 0.5 acre-feet.
7. Average depth when full: 4.8 feet.

(over)