

No. *U.S. 82-2*

Office of State Engineer
DOCUMENT FILE

Claim No. 226-32

County: Lyman
Applicant: Agric. Economics
Location: N 1/4 Sec 9, T 127 N, R 18 W
Date of filing: 2-11-38
Completion: Approved April 1937
Purpose: Irrigation
Stream: Mars Estate
Why Denial

CERTIFICATE OF WITHDRAWAL OF
WATER FOR APPROPRIATION

U. S. No. 02

TO

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF LAND UTILIZATION

BUREAU OF AGRICULTURAL ECONOMICS

LYMAN

County

ARP ESTATE190324

The United States Department of Agriculture, Land Utilization Division, ~~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 therefore:

This is to certify that there is hereby reserved, of the heretofore unappropriated waters of a Dry Draw the annual amount of 932,184 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 Last and of the impounding dam is located hence 1020 foot South 00 degrees 00 minutes East of NE corner, NE $\frac{1}{4}$ of Sec. 9, T. 107 N., R. 78 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 The above quantity of water is hereby withdrawn from future appropriation during the continuance of the right herein granted and contained.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.

Dean R. Richs
State Engineer.

LOCATION NOTICE

JOB NO. 226-32 Approximate date completed: April, 1937

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. 719 - NE 1/4
. Section . . . 9 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 loc-
ated and claims the right to construct a certain dam across a dry ditch
situated in the . . NE 1/4 of the . . NE 1/4 of section . . 9 . . 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 irri-
gation 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 932,184 . cubic feet of water plus losses
due to evaporation
per second during the following described annual periods . January 1
. to December 31 inclusive, each year.

The location of the point of diversion of the stream 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 . . . 23rd . . day of . November . . 193.6

Witness my hand and seal this . 3rd . day of August . 193.7.

FOR LEONARD A. WALLACE
SECRETARY OF AGRICULTURE

Locator, Project Manager
Resettlement Administration
U.S. Dept. of Agriculture

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

On the . 3rd . . day of August 193.7 . . , before me
. Gartrude Bedersen 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.

Comm. Ex Nov 16-1939

Gertrude Bedersen

DESCRIPTION OF EARTH IMPOUNDING DAM
RESERVOIR AND SPILLWAY DAM NO. 226JOB NUMBER 226 - 52Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota
StateLD-SD 2
NumberA. Location of Dam and Reservoir

NE 1/4 of the Sec. 9; Township 107 N; Range 78 W;
of the 5th Principal Meridian; County Lyman

B. General Data1. Area of drainage basin above dam: .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~~, ~~base~~.All sod. Slope 30°/100'

(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. miles.c. Average width of drainage basin .6 miles.5. Maximum run-off of drainage area at the damsite: 151.0
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: 312 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: 7648 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: 22 ft.
2. Slope of sides: 1 1/2:1 (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: .1 ft. per hundred ft.
4. Maximum discharge: 159.65 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: 4.5 acres.
2. Area when half-full: 1.2 acres.
3. Area at depth of two feet: .2 acres.
4. Volume when filled to level of spillway: 21.4 acre-ft.
5. Volume when half-full: 3 acre-foot.
6. Volume at depth of two feet: .2 acre-foot.
7. Average depth when full: 4.8 feet.

(over)