

No. 4 35-1
Office of State Engineer
DOCUMENT FILE

~~Dept. of Agriculture~~
~~Reg. Element Administration~~
Lincoln, Nebr.
Little Missouri
Dewey County
Location: Tract No. 2,
W 4 E 4 of Sec. 8, T. 16 N.,
R. 25 E.

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

JOB NUMBER 226 - 2

Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota
State

LD-SD 4
Number

A. Location of Dam and Reservoir

SW 1/4 S 7 1/2 of the Sec. 6; Township 15 N; Range 25 E;

of the Black Hills Meridian; County Dewey.

B. General Data

1. Area of drainage basin above dam: 0.5 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: 19.96

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. 3 inches.

b. 60 minutes.

c. Regional Office, Lincoln, Nebr.

Source of information.

4. Give description of water shed.

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

Small portion of area cultivated

(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 1.0 miles.

c. Average width of drainage basin .5 miles.

5. Maximum run-off of drainage area at the damsite: 171
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 15.9 ft.
2. Length along centerline at top of dam: 121.0 ft.
3. Width of top: 10 ft.
4. Upstream slope: 4 ft. horizontally to 1 ft. vertically.
5. Downstream slope: 2 ft. horizontally to 3 ft. vertically.
6. Volume in embankment: 2500 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: 2.8 ft.

D. Description of Spillway

1. Bottom width: 24 ft.
2. Slope of sides: 1.5:1 (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: 0.1 ft. per hundred ft.
4. Maximum discharge: 173 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: 1.19 acres.
2. Area when half-full: .41 acres.
3. Area at depth of two feet: .07 acres.
4. Volume when filled to level of spillway: 5.26 acre-ft.
5. Volume when half-full: .90 acre-feet.
6. Volume at depth of two feet: .07 acre-foot.
7. Average depth when full: 4.42 feet.

(over)

LOCATION NOTICE

KNOW ALL MEN BY THESE PRESENTS,

That Paul L. Neavill, Project Manager, Little Moreau Upland Game Refuge, Resettlement Administration, U. S. Department of Agriculture, whose post office is Onida, 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. 2-SB $\frac{1}{2}$ of
. Section . . . 8 Township . . 16N
range . 25E B.H.N., in Devoy 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 SE $\frac{1}{4}$ of section 8 . . township 16N . . ,

range 25E . . 5th P. M. and has located and claims the right to construct ditches and flumes for the purpose of directing flood waters from said draw for irrigation of the land first above described and for Live Stock Purposes, and waterfowl claims the right of way across any land for the purpose of conveying water habitation for said purposes.

Said locator claims for the above purpose 52, 272 . cubic feet of water plus losses due to annual evaporation ~~reservoir~~ during the following described annual periods January 1st,
. to December 31st, inclusive, each year.

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 . . . 29th . . . day of June 1937..

Witness my hand and seal this 21 . . . day of June 1937.

Paul L. Neavill
Locator Project Manager,
Resettlement Administration,
U. S. Department of Agriculture.

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

On the 21 . . . day of June 1937. . . before me
. a Notary Public in for
the County and State aforesaid, personally appeared Paul L. Neavill 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.

Notary Public