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Office of State Engineer
DOCUMENT FILE

Dept. of Agriculture
Reclamation Administration

Lincoln, Nebr.

Little Missouri

Dewey County

Section 16, T. 16 N., R. 25 E.

SW 1/4 of Sec. 16, T. 16 N., R. 25 E.

34-7

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

JOB NUMBER 226 - 1Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota
StateLD-SD 4
NumberA. Location of Dam and Reservoir

SW $\frac{1}{2}$ of the Sec. 17; Township 16 N; Range 25 E;
of the Black Hills Meridian; County Dewey

B. General Data1. Area of drainage basin above dam: 33 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: 11.763. 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. Data supplied by Regional Office, Lincoln, Nebr.
Source of information.

4. Give description of water shed.

a. The slopes are sod-covered, cultivated, ~~barren~~.Area used mostly for grazing, some farming.

(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 12 miles.c. Average width of drainage basin 3 miles.5. Maximum run-off of drainage area at the dam site: 4,056
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 40 ft.
2. Length along centerline at top of dam: 604 ft.
3. Width of top: 14 ft.
4. Upstream slope: 3 ft. horizontally to 1 ft. vertically.
5. Downstream slope: 2 $\frac{1}{2}$ ft. horizontally to 1 ft. vertically.
6. Volume in embankment: 60,757 cu. yds.
7. Distance above high-water line to top of dam: 7 ft.
8. Distance above water surface to top of dam when spillway is discharging maximum run-off: 4.1 ft.

D. Description of Spillway

Rectangular Weir 250' crest

1. Bottom width: 250 ft.
2. Slope of sides: 1:1 (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: 5 1.73 ft. per hundred ft.
4. Maximum discharge: 4330 cu. ft. per second.
5. Depth of water in spillway at time of maximum discharge: 3 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

Note: Water in reservoir up to spillway level. No information under this heading could be obtained.

1. Area when filled to level of spillway: 48 acres.
 2. Area when half-full: _____ acres.
 3. Area at depth of two feet: _____ acres.
 4. Volume when filled to level of spillway: _____ acre-ft.
 5. Volume when half-full: _____ acre-feet.
 6. Volume at depth of two feet: _____ acre-feet.
- Average depth when full: _____ feet.

(over)

LOCATION NOTICE

KNOW ALL MEN BY THESE PRESENTS:

That Paul L. Neavill, Project Manager, Little Bighorn Upward Camp No. 10, Forest Administration, U. S. Department of Agriculture, whose post office is . . . Quila . . . , 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. 6457 1/2 of Section 17
Section 17 Township 16 N
range 26 E B.H.M., in 16th County, South Dakota.

Availing him self of the right granted him under the provisions of Chapter 2, Article 1, Paragraph 8:55 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 1/4 of the SW 1/4 of section 17 . . township 16 N . . range 26 E . . 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 waterfowl habitation claims the right of way across any land for the purpose of conveying water for said purposes.

Said locator claims for the above purpose 2090880 . . cubic feet of water plus excess and during the following described annual periods January 1 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 29 day of July 1937.

Witness my hand and seal this 27 day of June 1937.

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

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

On the 27 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.

Margaret L. Luce
Notary Public