

No. 11, 167-2

Office of State Engineer
DOCUMENT FILE

Dpt. Agri. Reclamation & Irr.
Quincy Co.

July 7, 1937 Priority Date

11-14764 27-741-R 7 F

2.32 are ft. appropriated

Ray Brown

Form 24A

CERTIFICATE OF CONSTRUCTION OF WORKS

and
APPROPRIATION

LU-SD-38-1 Job No. 243-27
Name of Project

U. S. Water Right No. 167-2

Little Creek Water District

TO ALL WHOM IT MAY CONCERN:

This is to Certify, that the United States of America, Department of
Agriculture, Reclamation Administration, has complied with the
State Laws and has been issued a withdrawal No. U.S. 137 bearing date of
July 7, 1939 withdrawing from further appropriation 2.31 acre-

feet per annum of water for storage; of the waters of a Dry Draw in the
Stream
County of Custer, State of South Dakota, at a point in the

SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Sec. 27 T. 4 S., R. 9 E. BHM

for Stock Water purposes;

has fully complied with the provisions of the laws of the State of South
Dakota relating to completion of the works set out and described in
Section 61.0137, that said works are completed in accordance with infor-
mation filed in the office of the State Engineer, and 2.32 acre-feet
per year is thereby appropriated for the above purposes bearing date of
priority of July 7, 1939.

Witness my hand this 7th day of July 1939.

State Engineer.

PETITION

RECEIVED
7 1939

TO
STATE ENGINEER
STATE OF SOUTH DAKOTA
PIERRE, SOUTH DAKOTA

OFFICE OF STATE ENGINEER
PIERRE, S. DAK.

Comes now (Isaac Hermstad, Project Manager, Bad Lands - Fall River Land
Adjustment Project, Resettlement Administration, U. S. Department of Agriculture,
whose post office is Rapid City, South Dakota, a citizen of the United
States, above the age of 21 years, being in possession of the following des-
cribed land in the name of the United States, being desirous of obtaining a cer-
tificate from the State Engineer in accordance with Sec. 8239, Revised Code of
the State of South Dakota, so petitions the State Engineer to wit:

In support of said petition, your affiant deposes and says:

(1) That notice of appropriation, copy of which is hereto annexed and made a
part of this petition was posted under the date of June 3, 1939 and re-
corded under date of June 14, 1939.

(2) That the dam referred to in said notice was completed under date of
May 19, 1939.

(3) That said dam is 122.5 feet in length and 10.8 feet in
height.

(4) That said dam is located upon the land described as follows:

SE 1/4 NE 1/4, Sec. 27; T 4-S; R 9-E; B.H.M. Custer County.

(5) That said land is to be used for Stock Water purposes.

Wherefore your affiant respectfully requests that a certificate be issued to
him in accordance with the law in such case made and provided.

Subscribed and sworn to before me this 6th day of July, 1939

Isaac Hermstad
Project Manager

Richard M. Moore
Notary Public

My commission expires:

October 4, 1941

RA-7LU-28

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

JOB NUMBER ~~226~~ 243-37

Soil Conservation Service
Land Utilization Division
Lincoln, Nebraska

RECEIVED

JUL 7 1939

Region I

OFFICE OF STATE ENGINEER

PIERRE, S. DAK.

Project South Dakota

LU-SD-38-1

State

Number

A. Location of Dam and Reservoir

1851-A
SE 1/4 NE 1/4 of the Sec. 27 ; Township 4 S ; Range 9 E
of the Black Hills Meridian: County Custer

B. General Data

1. Area of drainage basin above dam: 70 Acres ~~xxxxxxx~~

(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: 15.16

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.

R = 2.25" / hour
a. 7.04 inches. c = 0.3
S = 100' / 1000'
b. 24 hours ~~xxxxxxx~~ R = 0.035

c. U. S. Weather Bureau

Source of information.

4. Give description of water shed.

a. The slopes are soil-covered, ~~xxxxxxx~~

Grass Land

(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 0.5 miles.

c. Average width of drainage basin 0.2 miles.

5. Maximum run-off of drainage area at the dam site 70
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 10.8 ft.
2. Length along centerline at top of dam: 122.5 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: 1175 cu. yds.
7. Distance above high-water line to top of dam: 4.2 ft.
- Distance above water surface to top of dam when spillway is discharging maximum run-off: 2.0 ft.

D. Description of Spillway

1. Bottom width: 15 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: 22.7 cu. ft. per second.
5. Depth of water in spillway at time of maximum discharge: 2.0 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: 0.52 acres.
2. Area when 4' below spillway: 0.14 acres.
3. Area at depth of two feet: _____ acres.
4. Volume when filled to level of spillway: 2.32 acre-ft.
5. Volume when 4' below spillway: 1.00 acre-feet.
6. Volume at depth of two feet: _____ acre-feet.
7. Average depth when full: 5.5 feet.

(over)

LOCATION NOTICE

215-57

KNOW ALL MEN BY THESE PRESENTS:

That Oscar Hermstad, Project Manager, Bad Lands - Fall River Land Adjustment Project, Land Utilization Division, Soil Conservation Service, U.S. Department of Agriculture, whose post office is Rapid City, 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 1851-A

SE 1/4 NE 1/4, Section 27, Township 4 S, Range 9 E, B. H. M., in Custer 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

SE 1/4 of the NE 1/4 of Section 27, township 4 S, range 9 E, B. H. M., for Livestock Purposes.

Said locator claims for the above purpose 101,059 cubic feet of water plus losses due to annual evaporation during the following described annual periods January 1st to December 31st, inclusive, each year.

Said location was made on the _____ day of _____, 1939.

Witness my hand and seal this 3rd day of June, 1939.

Oscar Hermstad
Locator, Project Manager
Soil Conservation Service, LU Division
U.S. Department of Agriculture

STATE OF SOUTH DAKOTA)

County of Pennington) ss

On the 3rd day of June, 1939, before me

Blanche Moore a Notary Public in and for the County and State aforesaid, personally appeared _____

Oscar Hermstad 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.

My Commission Expires: Oct. 4, 1941

Blanche Moore
Notary Public