

No. *11. S. 107-2*

Office of State Engineer
DOCUMENT FILE

Dep. Agriculture, Reclamation, Adams

Pennington Co.

107, 102, 72 S. R. & F.

Private Note July 7, 1934

H. C. Brown, Gen.

W. J. Shaw

Form 24A

CERTIFICATE OF CONSTRUCTION OF WORKS

and

APPROPRIATION

LD-3D-1 Job No. 226-32

Name of Project

U. S. Water Right No. 107-2

Bad River 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. 1.3.107 bearing date of
July 7, 1939 withdrawing from further ~~ap~~ allocation 46.02 acre-
feet per annum of water for storage; of the water: of a Dry Draw in the
Stream
County of Pennington, State of South Dakota: at a point in the
of the SW 1/4 of Sec. 2, T.23. N. 1. E. 10. W.
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 46.02 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.

Form A

CERTIFICATE OF WITHDRAWAL
of
WATER FOR APPROPRIATION
to the
UNITED STATES OF AMERICA
DEPARTMENT OF AGRICULTURE
RESEATTLE RIVER DISTRICT

Withdrawal No. US 107

LD-SD-1 Job No. 223-32

Name of Project

Dry Draw

Water Division No. 2

Mad River District

Pennington

County

Source of Appropriation-Stream

The United States of America, Department of Agriculture
Assistant Administration, having filed "Notice of Intention" to
utilize certain heretofore unappropriated public waters of the State of South
Dakota, in accordance with the requirements of the statutes of the State of South
Dakota, such statutes and authority being contained in Section 61, 6137 1939
Revised Code of South Dakota, now therefore;

This is to certify that there is hereby reserved, of the heretofore unappro-
priated waters of the Mad River Water District the annual amount of 46.02 acre-
feet of water to maintain storage in No. 32 reservoir created
by damming said stream at a point in the SE 1/4 Sec. 2, T.23., R.16E. MM
feet distant from the Corner of Section, Township , Range .
The purpose of such storage is for Stock Water

This is to certify that there is hereby reserved, of the heretofore unappro-
priated waters of a maximum of cubic feet
per second to be diverted through the ditch, canal
or pipe line at a point located on the bank
 feet distant from the Corner of Section
Township , Range for the purpose of
 during the months of

This certificate and withdrawal shall in no manner prejudice, alter, amend
or affect the rights of any prior appropriator or prior appropriation of water,
nor of any application for appropriation pending on the date of this certificate,
but the rights and privileges of any and all such prior appropriators or appli-
cants 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 statutes hereinbefore referred to and under the authority
of which this certificate is issued.

In accordance with the provisions of the statutes hereinbefore referred to,
this certificate is executed at the State Capitol at Pierre, South Dakota, this
7th day of July 1939.

State Engineer

RECEIVED
JUL 7 1939

OFFICE OF STATE ENGINEER
PIERRE, S. DAK.

PETITION

TO

STATE ENGINEER
STATE OF SOUTH DAKOTA
PIERRE, SOUTH DAKOTA

Comes now Oscar 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 described land in the name of the United States, being desirous of obtaining a certificate from the State Engineer in accordance with Sec. 6239, 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 30, 1937 and recorded under date of Sept. 8, 1937.

(2) That the dam referred to in said notice was completed under date of August 11, 1937.

(3) That said dam is 150.7 feet in length and 15.3 feet in height.

(4) That said dam is located upon the land described as follows:
SE $\frac{1}{4}$ 17 $\frac{1}{2}$; NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec. 2; Twp. 2-S; Range 16-W; B.H.M. Pennington 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

Oscar Hermstad
Project Manager

Blaine P. Moore
Notary Public

My commission expires:
October 1, 1941

RA-7LU-28

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

JOB NUMBER 226 - 32

Resettlement Administration
Lincoln, Nebraska

RECEIVED
JUL 7 1939

OFFICE OF STATE ENGINEER
PIERCE, S. DAK.
Region VII

Project South Dakota LD-SD-1
State Number

A. Location of Dam and Reservoir . Tract 2989

SE 1/4 & NE 1/4 of the Sec. 2 ; Township 23 ; Range 16 E. ;
of the Black Hills Meridian; County Pennings .

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: 15.31

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. 5.18 inches.

b. 24 hours minutes.

c. U. S. Weather Bureau Records

Source of information.

4. Give description of water shed.

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

Clean grass slopes - 5'/1000' slope

(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 0.5 miles.

5. Maximum run-off of drainage area at the dam site: 77.8
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 16.3 ft.
 2. Length along centerline at top of dam: 450.7 ft.
 3. Width of top: 10' ft.
 4. Upstream slope: 4 ft. horizontally to 1 ft. vertically.
 5. Downstream slope: 3 ft. horizontally to 1 ft. vertically.
 6. Volume in embankment: 10,200 cu. yds.
 7. Distance above high-water line to top of dam: 6 ft.
 8. Distance above water surface to top of dam when spillway is discharging maximum run-off: 5.0 ft.
-
-

D. Description of Spillway

1. Bottom width: 60 ft.
2. Slope of sides: 4:1 Natural (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: 2.1 ft. per hundred ft.
possible
4. Maximum discharge: 300 cu. ft. per second.
5. Depth of water in spillway at time of maximum discharge: 1.0 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.)

Notes: This spillway is a natural grass spillway and flow would be in excess shown as per water depth.

E. Description of Reservoir

1. Area when filled to level of spillway: 11.47 acres.
2. Area when half-full: 5.03 acres.
3. Area at depth of two feet: 0.43 acres.
4. Volume when filled to level of spillway: 46.02 acre-ft.
5. Volume when half-full: 7.36 acre-foot.
6. Volume at depth of two feet: 0.43 acre-foot.
7. Average depth when full: 4.65 feet.

(over)

LOCATION NOTICE

RECEIVED
7 1937
STATE ENGINEER
SOUTH DAKOTA

KNOW ALL MEN BY THESE PRESENTS:

That Oscar Hornstad, 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 described land in the name of the United States, to wit:

Tract 2989

_____, Section _____, Township 2 S, Range 16 E, B. H. M., in Pennington County, South Dakota. Availing him self of the right granted Him under the provisions of Chapter 2, Article 1, Paragraph 2239 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 $\frac{1}{4}$ of the SW $\frac{1}{4}$ of section 2, township 2 S, range 16 E, B.H.M., for Live Stock Purposes.

Said locator claims for the above purpose 2004631 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 28th day of April, 1936.
Witness my hand and seal this 30th day of June, 1937.

Oscar Hornstad
Locator, Project Manager
Resettlement Administration,
U. S. Department of Agriculture

STATE OF SOUTH DAKOTA)
 : ss
County of Pennington)

On the 30th day of June, 1937, before me _____
E. V. Denson a Notary Public in and
for the County and State aforesaid, personally appeared Oscar Hornstad, Project Manager 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
July 10, 1939.

E. V. Denson
Notary Public