

No. *U.S. 151-2*

**Office of State Engineer
DOCUMENT FILE**

Dept. Agri. Research Station

East River, C.

W. H. H. 2, Dec 3, 7-9 1932

Aug. 7, 1932 priority date

4.5 acre app. appropriated

By R. H. H.

Form 24A

CERTIFICATE OF CONSTRUCTION OF WORKS
and
APPROPRIATION

I.U.-SD-1 Job No. 243-10
Name of Project

U. S. Water Right No. 131-2

White 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. U.S. 131 bearing date of July 7, 1939 withdrawing from further appropriation 0.5 acre-feet per annum of water for storage; of the waters of a Dry Draw in the Stream County of Fall River, State of South Dakota, At at a point in the SW 1/4 of the NE 1/4 of Sec. 33 T.9S., R.9E. E.N.M. 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 information filed in the office of the State Engineer, and 0.5 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
RECLAMATION ADMINISTRATION

Withdrawal No. 11,8131

LG-SD-1 Job No. 243-10

Name of Project

Full River
County

Dry Draw

Water Division No. 2

White River District

Source of Appropriation-Stream

The United States of America, Department of Agriculture, Reclamation 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 61,0137 1939 Revised Code of South Dakota, now therefore;

This is to certify that there is hereby reserved, of the heretofore unappropriated waters of White River District, the annual amount of 4.5 acre-feet of water to maintain storage in No. 243-10 reservoir created by damming said stream at a point in the SW 1/4 Sec. 33, T. 28, R. 9E, M. 11 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 unappropriated 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, change 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 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 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 Osoar 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. 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 2, 1939 and recorded under date of June 9, 1939.

(2) That the dam referred to in said notice was completed under date of February 23, 1938.

(3) That said dam is 150 feet in length and 10.8 feet in height.

(4) That said dam is located upon the land described as follows:
SW 1/4 NE 1/4, Sec. 33; T 9-S; R 9-E; B.H.M., Fall River 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

Osoar Hermstad
Project Manager

Blanche Moore
Notary Public

My commission expires:
October 4, 1941

RA-VI-28

DESCRIPTION OF EARTH IMPOUNDING DAM
RESERVOIR AND SPILLWAY DAM NO. 228

JOB NUMBER ~~228~~ 213-10

RECEIVED

JUL 7 1939

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

Resettlement Administration
Lincoln, Nebraska

Project South Dakota
State

LU-SD-1

Number

A. Location of Dam and Reservoir

3508

SW 1/4 NE 1/4 of the Sec. 33; Township 9 S; Range 9 E;

of the Black Hills Meridian; County Fall River.

B. General Data

1. Area of drainage basin above dam: 0.16 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: 19.81

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. 4.88 inches.

P = 2.25" / hr.

C = 0.3

b. 24 hours ~~18 hours~~

S = 18"/100'

H = 0.035

c. U. S. Weather Bureau

Source of information.

4. Give description of water shed.

a. The slopes are sod-covered, ~~sod-covered, grass~~.

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 0.4 miles.

c. Average width of drainage basin 0.4 miles.

5. Maximum run-off of drainage area at the damsite: 60
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: 150 ft.
3. Width of top: 7.0 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: 1500 cu. yds.
7. Distance above high-water line to top of dam: 4.0 ft.
8. Distance above water surface to top of dam when spillway is discharging maximum run-off: 3.5 ft.

D. Description of Spillway Natural grass spillway

1. Bottom width: 85 ft.
2. Slope of sides: ----- (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: ----- 3.5 ft. per hundred ft.
4. Maximum discharge: 75 cu. ft. per second.
5. Depth of water in spillway at time of maximum discharge: 0.5 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: 0.75 acres.
2. Area when half-full: 0.30 acres.
3. Area at depth of two feet: 0.06 acres.
4. Volume when filled to level of spillway: 4.5 acre-ft.
5. Volume when half-full: 0.9 acre-foot.
6. Volume at depth of two feet: 0.06 acre-foot.
7. Average depth when full: 6.0 feet.

(over)

LOCATION NOTICE

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 Office, 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 3505
SW 1/4 NE 1/4, Section 33, Township 9 S,
 Range 9 R, B. H. M., in Fall River County, South Dakota.
 Availing himself 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 1/4 of the NE 1/4 of Section 33, township 9 S,
 range 9 R, B. H. M., for Livestock Purposes.

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

Said location was made on the 21st day of October, 1937.

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

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 execu-
 ted 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