

No. U.S. 113-2

Office of State Engineer
DOCUMENT FILE

Dep. Agt. Reclamation Adm
Jackson Co
NW 1/4 Sec 20, T2S, R19E
Sub. priority July 7, 1939
23.27 and file

Phy Draw

Form 24A

CERTIFICATE OF CONSTRUCTION OF WORKS

and

APPROPRIATION

~~LP-SD-1 Job No. 225-100-a~~
Name of Project

U. S. Water Right No. 113-2

Red River Water District

TO ALL WHOM IT MAY CONCERN:

This is to Certify, that the United States of America, Department of Agriculture, Resettlement Administration, has complied with the State Laws and has been issued a withdrawal No. U.S. 113 bearing date of July 7, 1939 withdrawing from further appropriation 23.27 acre-feet per annum of water for storage; of the water a dry flow in the County of Jackson, State of South Dakota, at at a point in the SW of the NW Sec. 20 T. 28. N. 19E. R. 10E 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 23.27 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
RESERVATION ADMINISTRATION

Withdrawal No. U.S. 113

LD-SD-1 Job No. 220-100 a

Name of Project

Jackson

County

Dry Draw

Water Division No. 2

And River District

Source of Appropriation-Stream

The United States of America, Department of Agriculture, Reservoir 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 the Mad River District, the annual amount of 23.27 acre-feet of water to maintain storage in No. 100 a reservoir created by damming said stream at a point in the Mad River Sec. 20, T. 28, R. 19E. 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 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, 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 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

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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 30, 1937 and recorded under date of Sept. 7, 1937.

(2) That the dam referred to in said notice was completed under date of October 5, 1937.

(3) That said dam is 22 1/2 feet in length and 16.5 feet in height.

(4) That said dam is located upon the land described as follows:
NW 1/4 of Sec. 20; Twp. 2-S; Range 19-E; B.H.M. Jackson 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-71U-28

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

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JOB NUMBER 226 - 100 a

OFFICE OF STATE ENGINEER
PIERRE, Region VII

Resettlement Administration
Lincoln, Nebraska

Project South Dakota ID-SD, 1
State Number

A. Location of Dam and Reservoir Tract 2314
NW 1/4 of the Sec. 20; Township 2 S; Range 19 E;
of the Black Hills Meridian; County Jackson.

B. General Data

1. Area of drainage basin above dam: .4 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: 15.81

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. 5.18 inches.

R = 2.25" / hr.

c = .3

b. 24 hours - minutes.

S = 20' / 1000'

c. U. S. Weather Bureau

N = .035

Source of information.

4. Give description of water shed.

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

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 .8 miles.

c. Average width of drainage basin .5 miles.

5. Maximum run-off of drainage area at the dam site: 98
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 16.5 ft.
2. Length along centerline at top of dam: 224 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: 5780 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: 2.9 ft.

D. Description of Spillway

1. Bottom width: 25 ft.
2. Slope of sides: 1 1/2 : 1 (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: 0.10 ft. per hundred ft. possible
4. Maximum/discharge: 152.4 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: 5.47 acres.
2. Area when half-full: 1.56 acres.
3. Area at depth of two feet: .05 acres.
4. Volume when filled to level of spillway: 23.27 acre-ft.
5. Volume when half-full: 3.07 acre-foot.
6. Volume at depth of two feet: .05 acre-foot.
7. Average depth when full: 5.76 feet.

(over)

