

No. 11.5 356-2

Office of State Engineer
DOCUMENT FILE

Dep't. Agri. Resettlement Adm.
Custer Co.

Sec. 37, T. 2 S. R. 11 E.

Priority: Oct. 25, 1937

20.06 acre ft.

Wm. Shaw

Form 24A

CERTIFICATE OF CONSTRUCTION OF WORKS
and
APPROPRIATION

U. S. Water Right No. 550-2

Name of Project. 22-300

Apple 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. 10 366 bearing date of October 23, 1937 withdrawing from further appropriation 20.06 acre-feet per annum of water for storage; of the waters of a pr. stream the County of Custer, State of South Dakota, at a point 3.19 301 W., 1265' from the NE Cor. Sec. 24, T.19., R.11E. 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 20.06 acre-feet per year is thereby appropriated for the above purposes bearing date of priority of 1937.

Witness my hand this 15th day of September 1937.

State Engineer.

Form A

CERTIFICATE OF WITHDRAWAL
of
WATER FOR APPROPRIATION
to the
UNITED STATES OF AMERICA
DEPARTMENT OF AGRICULTURE
RESETTLEMENT ADMINISTRATION

Withdrawal No. 10 353

LD-3D-1 Job No. 226-90

Name of Project

Custer

County

Water Division No. 2

Rapid Creek Water District

By / Draw

Source of Appropriation-Stream

The United States of America, Department of Agriculture, Resettlement
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 unappro-
priated waters of Rapid Creek District, the annual amount of 20.03 acre-
feet of water to maintain storage in No. 90 reservoir created
by damming said stream at a point described as follows: S. 13 30' E. 1265
feet distant from the NE Corner of Section 27, Township 23, Range 11E South and
The purpose of such storage is for stock water (of dam

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
25th day of October 1937.

State Engineer

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

JOB NUMBER 226 - 90

Region VII

Resettlement Administration
Lincoln, Nebraska

Project South Dakota
State

LD-SD-1
Number

A. Location of Dam and Reservoir Traot 3991

NE¹₄ of the Sec. 27 ; Township 2 S ; Range 11 E ;
of the Black Hills Meridian; County Custer .

B. General Data

1. Area of drainage basin above dam: 0.4 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: 15.16

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.

a. 3.68 inches. R = 2" / hr.

b. 24 hours minutes. c = .3

S = 15' / 1000'

N = .035

c. U. S. Weather Bureau

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 0.75 miles.

c. Average width of drainage basin .5 miles.

5. Maximum run-off of drainage area at the damsite: 74
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 18.3 ft.
 2. Length along centerline at top of dam: 326.0 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: 11,304 cu. yds.
 7. Distance above high-water line to top of dam: 5.0 ft.
 8. Distance above water surface to top of dam when spillway is discharging maximum run-off: 3.25 ft.
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-

D. Description of Spillway

1. Bottom width: 25 ft.
2. Slope of sides: 1 $\frac{1}{2}$: 1 (Give ratio horizontal to vertical.)
3. Gradient of spillway ditch: 0.10 ft. per hundred ft.
4. Maximum ^{possible} 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: 4.0 acres.
2. Area when half-full: 1.19 acres.
3. Area at depth of two feet: .04 acres.
4. Volume when filled to level of spillway: 20.08 acre-ft.
5. Volume when half-full: 2.50 acre-feet.
6. Volume at depth of two feet: .04 acre-feet.
7. Average depth when full: 6.6 feet.

(over)

LOCATION NOTICE

KNOW ALL MEN BY THESE PRESENTS:

That 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, to wit:

Tract 3991 $W\frac{1}{2}$, $W\frac{1}{2}$ $E\frac{1}{2}$, $NE\frac{1}{4}$ $NE\frac{1}{4}$

Section 27, Township 2 S, Range 11 E, B. N. M., in Custer 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 NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of section 27, township 2 S, range 11 E, B.N.M., for Live Stock Purposes.

Said locator claims for the above purpose 873,814 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 24th day of August, 1936.

Witness my hand and seal this 30th day of June, 1937.

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

STATE OF SOUTH DAKOTA)
County of Pennington) ss

On the 30th day of June, 1937, before me

K. K. Damon a Notary Public in and for the County and State aforesaid, personally appeared Oscar Hermstad, 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.

J. H. H. H. H.
Notary Public

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OCT 25 1937

**OFFICE OF STATE ENGINEER
PIERRE, S. DAK.**

PETITION

TO DEAN W. LOUCKES
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. 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 date of July 15, 1937, and recorded under date of September 8, 1937.
- (2) That the dam referred to in said notice was completed under date of November 30, 1936.
- (3) That said dam is 326 feet in length and 18.5 feet in height.
- (4) That said dam is located upon the land described as follows:

NE ¹/₄ of Section 27, Twp 2 South, Rge 11 East,
Custer
BHM, Pennington County, South Dakota.

- (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 28th day of Sept., 1937.

[Signature]
Notary Public

My commission expires: July 10, 1939.

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OCT 25 1937

OFFICE OF STATE ENGINEER
PIERRE, S. DAK.

TO THE BOARD OF ENGINEERS AND SURVEYORS
OF THE STATE OF SOUTH DAKOTA
(1) 1937

THE BOARD OF ENGINEERS AND SURVEYORS

OF THE STATE OF SOUTH DAKOTA

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