

No. *U.S. 370-2*

**Office of State Engineer
DOCUMENT FILE**

Dept. Hydr. & Culvert. & Dam

Crumpler Co.

Sec. 17, T. 2. S. R. 1. E.

Adm. City. Oct. 25, 1937

37.16. 11. 1.

Ally Shaw

Form 24A

CERTIFICATE OF CONSTRUCTION OF WORKS

and

APPROPRIATION

U. S. Water Right No. 370-2

13-38-1 Job No. 121-107

Name of Project

S. Cheyenne 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 of _____ and has been issued a withdrawal No. US 370 bearing date of October 28, 1937 withdrawing from further appropriation 27.16 acre-feet per annum of water for storage; of the waters of a Dry Draw in the County of Pennington, State of South Dakota, at a point S. 71° 16' W. 800' from the N. Cor. Sec. 17, T.28S., R.12E.

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 27.16 acre-feet per year is thereby appropriated for the above purposes bearing date of priority of October 28, 1937.

Witness my hand this 13th day of September 1937.

State Engineer.

CERTIFICATE OF WITHDRAWAL
of
WATER FOR APPROPRIATION
to the
UNITED STATES OF AMERICA
DEPARTMENT OF AGRICULTURE
BUREAU OF RECLAMATION

Water Division No. 1
S. Cuyoune Water District
Dr. Gray
Source of Appropriation-Stream

State Engineer

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

JOB NUMBER 226 - 107

Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota LD-SD-1
State Number

A. Location of Dam and Reservoir Tract #3092
NE¹ of the Sec. 17; Township 2 S; Range 12 E;
of the Black Hills Meridian; County Pennington.

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. 7.04 inches.

R = 2.25" / hr.

c = .3

b. 24 hours

S = 20' / 1000'

c. U. S. Weather Bureau

H = .035

Source of information.

4. Give description of water shed.

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

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 0.5 miles.

5. Maximum run-off of drainage area at the damsite: 91.0
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 24.9 ft.
2. Length along centerline at top of dam: 323.0 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: 11,580 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: 3.0 ft.

D. Description of Spillway

1. Bottom width: 25.0 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.
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: 3.18 acres.
2. Area when half-full: 1.24 acres.
3. Area at depth of two feet: .02 acres.
4. Volume when filled to level of spillway: 27.16 acre-ft.
5. Volume when half-full: 5.06 acre-foot.
6. Volume at depth of two feet: .02 acre-foot.
7. Average depth when full: 10.0 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 3092 NAME
 _____, Section 17, Township 2 S,
 Range 12 E, B. M. M., in Pennington 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 NE 1/4 of the NE 1/4 of section 17, township 2 S, range 12 E, B.M.M., for Live Stock Purposes.

Said locator claims for the above purpose 1,183,090 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 14 th day of September, 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)
) ss
 County of Pennington)

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.

K. K. Damon
 Notary Public

RECEIVED

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 October 23, 1936.

(3) That said dam is 323.0 feet in length and 24.9 feet in height.

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

NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 17, Twp 2 South, Rge 12 East,
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.

FOR HENRY A WALLACE

SECRETARY USDA

Subscribed and sworn to before me this 23rd day of Sept., 1937.

J. J. Hanna
Notary Public

My commission expires: July 10, 1939.

RECEIVED
OCT 25 1937

OFFICE OF STATE ENGINEER
PIERRE, S. DAK.

SECRETARY

EDWARD V. MULLER

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