

NO. 354-2

Office of State Engineer
DOCUMENT FILE

Sept. 24 - *Phillips, Wm*
Ball Lines Co.

See 24.7.71 R. 96

Priority: Oct. 35, 1937

23.33.50 ft

Edy Shaw

Form 24A

CERTIFICATE OF CONSTRUCTION OF WORKS

and
APPROPRIATION

U. S. Water Right No. 554-2

LP-20-1 Job No. 523-08

Name of Project

S. Choyome 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. US 354 bearing date of October 25, 1937 withdrawing from further appropriation 23.33 acre-

feet per annum of water for storage; of the waters of a Dry Draw in the County of Fall River, State of South Dakota, at a point 7.050' N 1760' from the E. Cor. Sec. 34, T. 7S., R. 9E.

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 23.33 acre-feet per year is thereby appropriated for the above purposes bearing date of priority of October 25, 1937.

Witness my hand this 13th day of September 1939.

State Engineer.

Form A

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

Withdrawal No. JS 364

LI-SU-1 Job No. 228-83

Name of Project

Fall River

County

Water Division No. 8

8. Cheyenne Water District

Big Draw

Source of Appropriation - Stream

The United States of America, Department of Agriculture, Settlement 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 137 1930, Revised Code of South Dakota, now therefore;

This is to certify that there is hereby reserved, of the heretofore unappropriated waters of 8. Cheyenne District, the annual amount of 23,23 acre-feet of water to maintain storage in No. 30 reservoir created by damming said stream at a point described as follows: N. 0 50' W. 1700 feet distant from the pl Corner of Section 34, Township 33, Range 55, the East purpose of such storage is for stock water (end of dam)

This is to certify that there is hereby reserved, of the heretofore unappropriated waters of 8. Cheyenne District, a maximum of 23,23 cubic feet per second to be diverted through the bank ditch, canal or pipe line at a point located on the bank Corner of Section 34, Township 33, Range 55 for the purpose of for stock water during the months of 1937

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 25th day of October 1937.

State Engineer

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

JOB NUMBER 226 - 88

Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota
StateLD-SD-1
Number

A. Location of Dam and Reservoir Tract No. 732

NE 1 of the Sec. 34; Township 7S; Range 9E;of the Black Hills Meridian; County Fall River.

B. General Data

1. Area of drainage basin above dam:
- 1.0
- 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 or 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.R = 2.25" / hr.c = .3b. 24 hours minutes.S = 15' / 1000'N = .035c. 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 1.0 miles.c. Average width of drainage basin 1.0 miles.

5. Maximum run-off of drainage area at the dam site:
- 172
-
- cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 18.6 ft.
2. Length along centerline at top of dam: 334.3 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: 8900 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: 2.9 ft.

D. Description of Spillway

1. Bottom width: 40 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 possible discharge: 242 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: 4.06 acres.
2. Area when half-full: 1.68 acres.
3. Area at depth of two feet: .02 acres.
4. Volume when filled to level of spillway: 23.33 acre-foot.
5. Volume when half-full: 3.98 acre-foot.
6. Volume at depth of two feet: .01 acre-foot.
7. Average depth when full: 6.8 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 732 E₂ NE₁

Section 34, Township 7 S, Range 9 E, B. H. M., in Fall River 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 of the NE 1 of section 34, township 7 S, range 9 E, B.H.M., for Live Stock Purposes.

Said locator claims for the above purpose 1016,255 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 10th 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. K. Amusey
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. He 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 7, 1937.

(2) That the dam referred to in said notice was completed under date of May 24, 1937.

(3) That said dam is 334.3 feet in length and 18.5 feet in height.

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

NE $\frac{1}{4}$ of Section 34, Twp 7 South, Rgn 9 East,
BHM, Fall River 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. H. Ammon
Notary Public

My commission expires: July 10, 1939.

12. Application received 10/25/1937

RECEIVED

OCT 25 1937

OFFICE OF STATE ENGINEER

EL PASO, TEXAS

TO THE ENGINEER IN CHARGE OF THE DIVISION OF HIGHWAYS
FROM THE ENGINEER IN CHARGE OF THE DIVISION OF WATERWAYS
(2) The following is a list of the names of the persons who have been
admitted to the membership of the American Society of Civil Engineers

THE ENGINEER IN CHARGE OF THE DIVISION OF HIGHWAYS
HAS BEEN ADVISED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS

THAT THE FOLLOWING PERSONS HAVE BEEN ADMITTED TO THE MEMBERSHIP OF THE
AMERICAN SOCIETY OF CIVIL ENGINEERS

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(13) The following is a list of the names of the persons who have been
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(14) The following is a list of the names of the persons who have been
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