

No. *U.S. 342-2*

Office of State Engineer
DOCUMENT FILE

Dept. Agri. Settlement Abn.
Pennington Co.

Sec. 6, T. 21, R. 17 E

Priority 1 Oct. 25, 1937

31.87 ac. ft. appropriated

W. H. Shaw

Form 24A

CERTIFICATE OF CONSTRUCTION OF WORKS

and
APPROPRIATION

U. S. Water Right No. 342-2

LD-SD-1 Job No. 223-76

Name of Project _____

Bad 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. US 342 bearing date of October 25, 1937 withdrawing from further appropriation 31.87⁶ acre-feet per annum of water for storage; of the waters of a dry Draw in the Stream, County of Pennington, State of South Dakota, at a point S. 75° 1' 30" E. 805' from the NW Cor. Sec. 3, T.2S., R.17E. 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 31.87 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.

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

LD-50-1 Job No. 228-76

Water Division No. 2

Lud Kivor Water District

~~Key Diagram~~
Source of Appropriation-Stream

This is to certify that there is hereby reserved, of the heretofore unappropriated waters of Mad River District, the annual amount of 31.67 acre-feet of water to maintain storage in N. 76 reservoir created by damming said stream at a point described as follows: S. 76-15-24 feet distant from the NW Corner of Section 6, Township 28, Range 80S. The purpose of such storage is for stock water 172. to the West (and of dam

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 25th day of October 1937.

State Engineer

RA-7LU-28

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

JOB NUMBER 226 - 76

Resettlement Administration
Lincoln, Nebraska

Region VII

Project South Dakota ID-SD-1
State Number

A. Location of Dam and Reservoir Tract No. 1189
WV-1 of the Sec. 6; Township 2 S; Range 17 E;
of the Black Hills Meridian; County Pennington.

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 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.

R = 2.15" / hr.

a. 5.18 inches.

c = .3

b. 24 hours -minutes.

C = 10' / 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 2.0 miles.

c. Average width of drainage basin 0.5 miles.

5. Maximum run-off of drainage area at the damsite: 148.4
cu. ft. per second.

(over)

C. Description of Dam

1. Height above low point of valley at centerline of dam: 16.0 ft.
2. Length along centerline at top of dam: 278.8 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: 6322 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: 4.6 ft.

D. Description of Spillway

Natural Sd Spillway

1. Bottom width: 200 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 discharge: 1230 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: 7.26 acres.
2. Area when half-full: 2.58 acres.
3. Area at depth of two feet: .05 acres.
4. Volume when filled to level of spillway: 31.67 acre-ft.
5. Volume when half-full: 4.67 acre-feet.
6. Volume at depth of two feet: .05 acre-feet.
7. Average depth when full: 5.5 feet.

(over)

Conclusions and Recommendations

That Oscar Hermostad, 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:

Said locator claims for the above purpose 1,379,545 cubic feet of water plus losses due to annual evaporation during the following described annual periods January 1st to December 31st, inclusive, each year.

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

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

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

Witness my hand and official seal the day and date above written.

W. S. Amey
Notary Public

My Commission Expires:
July 10, 1939.

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 February 26, 1937.

(3) That said dam is 278.8 feet in length and 16.0 feet in height.

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

SW 1/4 of Section 6, Twp 2 South, Rge 17 East,
BDM, 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. S. Danner
Notary Public

My commission expires: July 10, 1939.

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OCT 25 1937

OFFICE OF STATE ENGINEER

PIERRE, S. DAK. SECRETARY

FOR RECORD

TO THE STATE ENGINEER

FROM THE STATE ENGINEER

(1) 1937 OCT 25 1937

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(2) 1937 OCT 25 1937

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(3) 1937 OCT 25 1937

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(4) 1937 OCT 25 1937

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