

No. 11361-2 REV

**Office of State Engineer**  
**DOCUMENT FILE**

Repts. Agri. - Settlement Aband.  
Reuter Co.

See LT & L R 9E

Priority date: Oct. 35, 1937

9.84 ac. ft. appropriate

W. J. Davis

CERTIFICATE OF CONSTRUCTION OF WORKS  
and  
APPROPRIATION

U. S. Water Right No. 361~~Name of Project~~ 225-00~~Article Creek~~ 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. 361 bearing date of  
October 25, 1937 withdrawing 3.64 acre-  
feet per annum of water for storage; of the waters of ~~a part of~~ Stream  
County of Custer, State of South Dakota, at ~~a point S. 20 30 W.~~  
10301 feet N. Cor. Sec. 1, T.43, 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 infor-  
mation filed in the office of the State Engineer, and 3.64 acre-feet  
per year is thereby appropriated for the above purposes bearing date of  
priority of 1937.

Witness my hand this 13th of September 1937.

\_\_\_\_\_  
State Engineer.

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

State Engineer

RA-7LU-28

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

JOB NUMBER 226 - 96

Resettlement Administration  
Lincoln, Nebraska

Region VII

Project South Dakota LD-SD-1  
State Number

A. Location of Dam and Reservoir Tract 1438

NE<sup>1</sup> of the Sec. 1; Township 4 S; Range 9 E;  
of the Black Hills Meridian; County Custer.

B. General Data

1. Area of drainage basin above dam: 0.5 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: 18.26

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 = 3." rainfall per 60 min.

a. 5.17 inches. c = .3

b. 24 hours ~~minutes~~ S = 10"/1000'

c. U. S. Weather Bureau H = .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 1.0 miles.

c. Average width of drainage basin 0.5 miles.

5. Maximum run-off of drainage area at the damsite: 122  
cu. ft. per second.

(over)

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**C. Description of Dam**

1. Height above low point of valley at centerline of dam: 15.7 ft.
  2. Length along centerline at top of dam: 192.0 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: 4326 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: 2.0 ft.
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**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. 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.)

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**E. Description of Reservoir**

1. Area when filled to level of spillway: 2.52 acres.
2. Area when half-full: 0.70 acres.
3. Area at depth of two feet: 0.02 acres.
4. Volume when filled to level of spillway: 9.84 acre-ft.
5. Volume when half-full: 1.23 acre-foot.
6. Volume at depth of two feet: 0.02 acre-foot.
7. Average depth when full: 5.35 foot.

(over)

## LOCATION: NWICB

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 1438 Ma  
\_\_\_\_\_, Section 2, Township 4 S,  
Range 9 E, B. H. M., in Custer County, South Dakota.  
Availing him self of the right granted him under the provisions of Chapter 2,  
Article 1, Paragraph 8249 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 1, township 4 S, range 9 E, B.H.M., for Live  
Stock Purposes.

Said locator claims for the above purpose 428,630 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 28 th day of September, 1936.

Witness my hand and seal this 30th day of June, 1957.

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

STATE OF SOUTH DAKOTA )  
County of Beaumont ) ss

On the 30th day of June, 1957, before me \_\_\_\_\_

\_\_\_\_\_ K. E. Deaton \_\_\_\_\_ a Notary Public in and  
for the County and State aforesaid, personally appeared Oscar Hornstad, 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. S. Dancy*  
Notary Public

RECEIVED

OCT 25 1937

OFFICE OF STATE ENGINEER  
PIERRE, S. DAK.

3091

PETITION

TO DAN 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 14, 1936,

(3) That said dam is 192.0 feet in length and 15.7 feet in height.

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

NE 1/4 of Section 1, Twp 4 South, Rge 9 East,  
PDM, Custer 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 23rd day of Sept, 1937.

J. J. Adams  
Notary Public

My commission expires July 10, 1939.

RECEIVED

OCT 25 1937

OFFICE OF STATE ENGINEER  
PIERRE, S. DAK.