

No. *S 384-1*

**Office of State Engineer
DOCUMENT FILE**

*Dept. Agri. Forest Service
Laurens Co.*

Priority Aug 25, 1940

Ln 20, T 3N, R 4E

1000 ac. ft.

Middle Box Elder Co.

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
BLACK HILLS NATIONAL FOREST



ADDRESS REPLY TO
FOREST SUPERVISOR
AND REFER TO

DEADWOOD, SOUTH DAKOTA

October 12, 1953

E
IMPROVEMENTS - Black Hills
Dams
Roubain Lake

RECEIVED

OCT 14 1953

Mr. Dean W. Loucks, State Engineer
State of South Dakota
Pierre, South Dakota

OFFICE OF STATE ENGINEER
PIERRE, SOUTH DAKOTA

Dear Mr. Loucks:

Reference is made to your letter to Wm. W. Crawford, Acting Regional Forester of September 23, 1953 concerning the draining of Roubain Lake in Lawrence County.

At a recent meeting of the personnel involved in the draining of Roubain Lake, it was decided to delay the draining of the lake until April of 1954. Personnel attending this meeting included William D. Clothier, State Fish Biologist; State Game Warden Dave Harris; Walter Willis of the Lead Red and Gun Club and W. H. Harmon of the U. S. Forest Service.

The continued dry spell in the Black Hills area has been the primary cause for this decision. All of the objectives in draining can be met in the spring, and the dam should refill more rapidly.

Very truly yours,

K. A. Taber

K. A. TABER
Acting Forest Supervisor

cc: R.O.
Nemo
William D. Clothier
Freeland

September 23, 1953

Wm. W. Crawford
Acting Regional Forester
Post Office Building
Denver 2, Colorado

Re: Forrest Service Operation
Roubaix Lake
Sec. 20-31-47
Lawrence County
Forrest Service Filing #334-1

Dear Mr. Crawford:

This is in reply to your airmail letter of September 17 in which you notify us that you propose draining Roubaix Lake starting sometime during the week of September 21, this to be done under the supervision of a Forrest Service Engineer. Upon the completion of the draining and cleaning of the Lake area you propose that the valve would be closed and all water impounded until October 15.

Apparently this operation has the approval of the Game, Fish and Parks Commission and since it will be done and the Lake refilled during the non-irrigations season, I see no objections to the operation. However, I would suggest that the Forrest Service Engineer keep in mind any livestock users below the site and also irrigators if there should be any, chiefly as to the effect on existing diversion ponds, etc. On the above basis, the permission of this Office to drain the Lake and refill same is hereby given.

Yours very truly,

DWL:JES:jmh

DEAN W. LOUCKS
State Engineer

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
ROCKY MOUNTAIN REGION



ADDRESS REPLY TO
REGIONAL FORESTER
AND REFER TO

POST OFFICE BUILDING
DENVER 2, COLORADO

E
IMPROVEMENTS -- Black Hills
Dams
Roubaix Lake

September 17, 1953

A I R M A I L

Dean W. Loucks, State Engineer
State of South Dakota
Pierre, South Dakota

RECEIVED

SEP 19 1953

OFFICE OF STATE ENGINEER
PIERRE, SOUTH DAKOTA

Dear Mr. Loucks:

The Black Hills Rod and Gun Club of Lead, South Dakota, upon information presented by Fish Biologists of the South Dakota State Department of Game, Fish, and Parks has requested the Forest Service to drain Roubaix Lake (Sec. 20, T.3N., R.4E., BHM— Forest Service filing number 384-1 issued April 13, 1940).

The purpose in draining the lake would be to remove the heavy population of suckers and other rough fish reported by the State biologists to be present and competing with trout for limited amounts of available feed.

The effect upon private land owners and other users downstream has been considered and the proposed draining of the lake will be done with their consent.

The plan is to start draining to lower the water beginning some time during the week of September 21. This will be done under the supervision of a Forest Service engineer. Upon completion of the draining and cleaning of the lake area, we propose that the valve would be closed and all water impounded until October 15. At that time, a flow, sufficient to water livestock on private lands below the dam, would be allowed to pass through (one c.f.s.).

We believe that this plan of draining and refilling would retain sufficient moisture in the structure to prevent damage and would result in restoration of the normal pool level next spring. Also, the needs of the ranchers below the dam would be met.

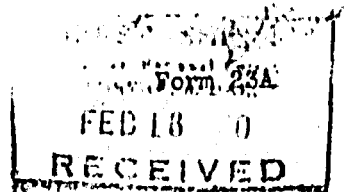
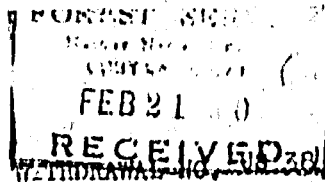
Your permission to drain the lake and refill it, as described above, is hereby requested.

Very truly yours,

DONALD E. CLARK, Regional Forester

By: *Wm. W. Crawford* Acting
WM. W. CRAWFORD

Form 23A

Water Division No. 1Elk Creek Water District

CERTIFICATE OF EXAMINATION OF WORKS

Report of Examining Engineer

Date Feb. 19, 1940
By Geo. A. Davidson

OFFICE OF STATE ENGINEER
PIERRE, S. DAK.Roubaix Reservoir
Project Name and NumberMiddle Box Elder CreekSource of Appropriation
(Stream)

To the State Engineer, Pierre, South Dakota:

Dear Sir: I hereby certify that in accordance with your letter of authorization dated Dec. 18 1939, I have made a thorough examination of Roubaix reservoir, ditch, or pipe line constructed by the United States of America, Department of Agriculture, Forest Service, Region 2, Denver, Colorado, holder of withdrawal No. US 38, issued upon Notice of Intention bearing date August 22 1939, authorizing the withdrawal from further appropriation of 10.8 acre feet, or second feet of the waters of Middle Box Elder Creek, tributary of Box Elder Creek for livestock, fish culture, domestic, fire protection, irrigation, recreation purposes. I have to report the condition of the same as follows:

The impounded and diversion works comprise:

Dam: Type	<u>Earth/Fill</u>	Foundation	<u>earth</u>
Size: Max. Length	<u>250 ft.</u>	Maximum height to spillway flow line	<u>5 ft.</u>
Section: Upstream slope	<u>3:1</u>	Freeboard	
Downstream slope	<u>2:1</u>		
Top width	<u>11 ft.</u>		
Yardage (Approx.)	<u>10,000 cu. yds.</u>		
Reservoir: Area Normal Pool level	<u>10.8</u>	acres	
Capacity	<u>71.25</u>	acre feet	
Nature of Shore line	<u>grassy</u>		
Spillway: Type	<u>channel</u>	Location	<u>North end</u>
Width	<u>38 ft.</u>	Depth	<u>5 ft.</u>
Capacity	<u>1,015</u>	cubic feet per sec.	
Outlet: Size	<u>21 in.</u>	Control	<u>gate valve</u>
Location	<u>Upstream end of conduit</u>		
Fitches: Open Earth	<u>Open rock</u>		
Pipe	<u>Length</u>		
Section	<u>Capacity</u>		
Location or as shown on plans			

The system is in the following condition: good

The outlet of the reservoir or the point of diversion of the ditch,
canal or pipe line is located N. 73° 15' E 1,505
feet distant from the S₂ Corner of Section 20 Township 3N.
Range 4R.

The works are capable of utilizing 101 acre-feet of water
annually or second-foot of water.

The legal subdivisions to be irrigated are _____

comprising a total of _____ acres of land.

The domestic and stockwater uses comprise household purposes and
water for livestock

The utilization for Public recreational, game and fish propagation and
fire protection comprises bathing, rearing fish and water supply for
fire fighting equipment

The project was completed 193

Witness my hand, this 19th day of February A.D. 19 40.

George A. Davidson
Examining Engineer

LETTER OF AUTHORIZATION
for
Inspection

December 18 1939

George A. DavidsonCuster, South DakotaRoubidoux Reservoir
Name of Project
Water Division No. 1
Elk Creek Water District
Middle Box Elder Creek
Source of Appropriation
(Stream)

Dear Sir:

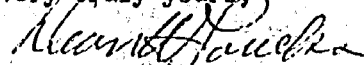
The United States of America, Department of Agriculture, Forest Service, Denver, Colorado, having filed "Notice of Intention" to utilize certain specified waters of the State, and there having been issued a withdrawal from further appropriation as provided in Section 61.0137, 1939 Revised Code of South Dakota and identified as Withdrawal No. U.S. 394, on Middle Box Elder (stream) County of Lawrence on the Black Hills National Forest, has informed this office that the construction for the diversion, storage, appropriation and application of water to beneficial use has been fully completed and is ready for examination.

You are, therefore, hereby authorized to arrange with the holder of said withdrawal for an examination of the Roubidoux Reservoir reservoir, ditch, or pipe line constructed and owned by the United States of America, Department of Agriculture, Forest Service, on the Black Hills National Forest and also an inspection to determine the amount of water stored and applied to beneficial use.

In this examination you will ascertain whether or not the constructed works comply fully with the plans submitted and are capable of using quantities of water as set forth in the "Notice of Intention", and give in complete form all the information which is suggested by the statements in the Certificate of Inspection which is herewith enclosed, in the attached instructions, and such other information as will enable the State Engineer to act intelligently and judiciously in the matter of determining the status of completion of the projects.

You should also arrange with the holder of the withdrawal for the payment of your fee for this service and such proper expenses as you incur in making this examination and report and taking the testimony.

Very truly yours,


State Engineer.

WITHDRAWALS No. US 384Roubaix Reservoir

Name of Project

RECEIVED

Water Division No. 1Elk Creek, Elk Creek Water District
PIERRE, S. DAK.

NOTICE OF COMPLETION OF WORKS

P.O. Denver, Colorado,Date October 28, 1939.

TO THE STATE ENGINEER OF SOUTH DAKOTA, PIERRE:

Dear Sir: Notice is hereby given of the completion of the construction of Roubaix reservoir,

ditch, or pipe line constructed and owned by the United States of America, Department of Agriculture, Forest Service on the Black Hills National Forest. The project provides for the diversion and storage or direct diversion of quantities of water as shown on the plans and reports submitted and the project has been completed in accordance with the said plans and reports, terms and conditions of withdrawals heretofore issued by the State Engineer of the State of South Dakota or as shall be hereafter reported by the Examining Engineer.

1. The proper name of the Federal Agency holding said withdrawal is United States of America, Department of Agriculture, Forest Service.
2. The name and postoffice address of the proper corresponding official for said Federal Agency is Regional Forester, Denver, Colorado.
3. The project is located in SE₁ of Section, 20, Township 3N., Range 4E.
4. Said water to be used for livestock, fish culture, domestic, fire protection, irrigation, recreation purposes.
5. The amount of water which said completed works are capable of impounding or conducting to the place of intended use is as shown by information previously submitted or as shall be hereafter reported by the Examining Engineer Kenneth Luther.
6. The amount of land for which said water is available is _____ acres, particularly described as follows: _____

I hereby certify that the facts set forth in the above notice are true.

James L. Brownlee
JAMES L. BROWNLEE
Assistant Regional Forester
Division of Engineering

FORM A

CERTIFICATE OF WITHDRAWAL
of
WATER FOR APPROPRIATION
to the
UNITED STATES OF AMERICA
DEPARTMENT OF AGRICULTURE
FOREST SERVICE.

U. S. No. 384

Boulain Reservoir
Name of Project
Lawrence County
County

Water Division No. 1
Elk Creek Water District
Middle Box Elder Creek
Source of Appropriation - Stream

The United States of America, Department of Agriculture, Forest Service, 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 1959 Revised Code of South Dakota, now therefore:

This is to certify that there is hereby reserved, of the heretofore unappropriated waters of Middle Box Elder Creek, the annual amount of 66 acre-feet of water to maintain storage in Boulain reservoir created by damming said stream at a point N. 73°15' E., 1506 feet distant from the S.E. Corner of Section 20, Township 30, Range 4E. The purpose of such storage is Livestock, fish culture, domestic, fire protection, irrigation, recreation.

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 August 1937.

Harold D. Fouchs
State Engineer

E
WATER RESOURCES
Water Rights

NOTICE OF INTENTION
to the
STATE ENGINEER
of the
STATE OF SOUTH DAKOTA

RECEIVED
AUG 25 1939
OFFICE OF STATE ENGINEER
PIERRE, S. DAK.

Roubaix Reservoir Project

Denver, Colorado.

Black Hills Forest
South Dakota

August 22, 1939
Date

Notice of Intention to divert, store and appropriate water for beneficial uses from certain streams in South Dakota by the United States of America, Department of Agriculture, Forest Service.

The United States of America, Department of Agriculture, Forest Service, through its officers duly appointed to administer the National Forests in South Dakota, hereby notifies the State Engineer of South Dakota of its intentions to appropriate, by construction, diversion, storage and beneficial use, the unappropriated public waters of South Dakota, under Section 61.0137 of the 1939 Revised Code of South Dakota. Application is hereby made for the withdrawal of certain unappropriated public waters of the State of South Dakota in an amount sufficient to maintain storage in Roubaix

Reservoir, or to satisfy the requirements of the
ditch, canal or pipe line,

and the following information is furnished:

1. Representative of the United States of America authorized to act in procurement of water rights.

Ans. Regional Forester, United States Department of Agriculture,
Forest Service, Region 2, Denver, Colorado.

2. Name of intending appropriator.

Ans. United States of America, Department of Agriculture, Forest
Service.

3. Name and address of agency representing intending appropriator.

Ans. United States Department of Agriculture, Forest Service, Region 2, Denver, Colorado.

4. Name of reservoir, ditch, canal or pipe line.

Ans. Roubaix Reservoir

5. County in which water is to be diverted, stored and appropriated.

Ans. Lawrence County

6. Name of stream from which water is to be diverted, stored and appropriated.

Ans. Middle Box Elder Creek

7. The outlet of the reservoir or the point of diversion of ditch, canal or pipe line is located N. 73, 15' E., 1505 foot

distant from the S $\frac{1}{4}$ Corner of Section 20 Township 3 N
Range. 4 E.

8. Uses to which water directly diverted or diverted and stored, is to be put.

Ans. Livestock, fish culture, domestic, fire protection, irrigation, recreation.

9. The available capacity of reservoir in acre foot.

Ans. 45.55 acre feet

10. The carrying capacity of ditch, canal or pipe line in cubic foot per second.

Ans.

11. Acre foot of water to be appropriated annually for diversion and storage in reservoir.

Ans. 6. acre feet

12. Cubic foot of water per second to be appropriated for direct diversion by ditch, canal, or pipeline.

Ans.

13. Location of lands to be irrigated.

Ans.

14. Class of plans accompanying "Notice of Intention".

Ans. Special plans

ALLEN S. PECK,

Regional Forester

By

W. W. Thompson
Acting.

CERTIFICATE OF CONSTRUCTION OF WORKS
and
APPROPRIATION

U. S. Water Right No. 384-1

Roubaix Reservoir
Name of Project
Elk Creek Water District

TO ALL WHOM IT MAY CONCERN:

This is to Certify, that the United States of America, Department of
Agriculture, Forest Service, has complied with the
State Laws and has been issued a withdrawal No. US 384 bearing date of
August 25, 1939 withdrawing from further appropriation 104 acre-
feet per annum of water for storage; of the waters of Middle Box Elder Creek
County of Lawrence, State of South Dakota, at a point N. 73 15' E.,
1505 feet distant from the S $\frac{1}{2}$ Cor. Sec. 20, T. 3N., R. 4E.
for domestic, fish culture, fire protection, livestock, recreational 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 104 acre-feet
per year is thereby appropriated for the above purposes bearing date of
priority of August 25, 1939.

Witness my hand this 13th day of April 1939.

Charles H. Loucks
State Engineer.