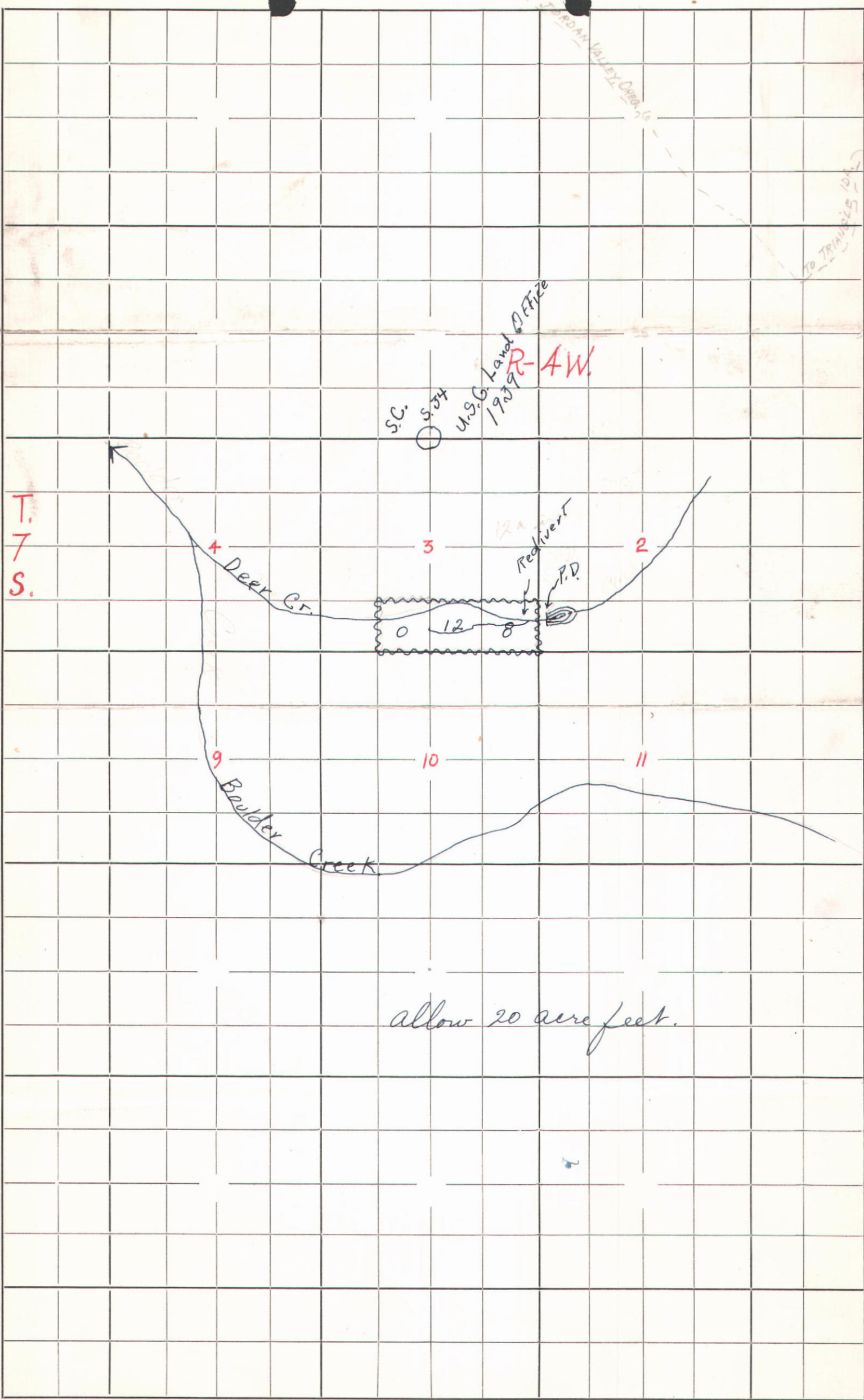
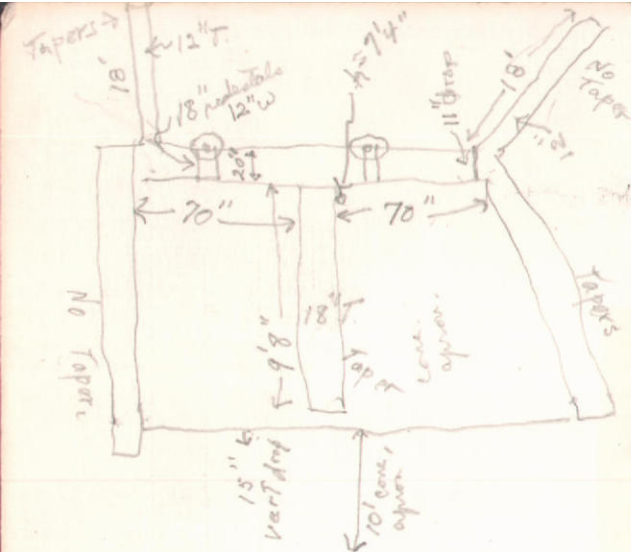






1" worm screw.
21" wheel.
approx. 24" freebd.
South side needs to be repaired.
no rip rap.
spillway is over top of
control work.

INSTRUCTIONS TO EXAMINERS

1. Always carefully note the location of the point of diversion and accurately plat same.
2. When proof is for beneficial use, carefully check up the number of acres actually irrigated in each forty and accurately plat same.
3. Make a map showing the correct location of streams and ditches, and the irrigated lands, and any adjacent permanent landmarks, such as towns, lakes, large streams and public roads.
4. If any unusual conditions are discovered, make plain statement of them under remarks.
5. Always see the holder, if possible, and go over the whole ground with him and make your report only upon actual existing facts and conditions.
6. Give general characteristics of soils, topography, and crops raised.

RECEIVED
JUN 21 1955

Department of Reclamation

Everett Townsend
Jordan Valley, Oregon

Permit No. R-861

Examination for Completion of Works
and Beneficial Use

County Owyhee

283-7S.-4W.

Q = 20.0 acre feet.

S = Deer Creek

P.D. = SW. SW., Sec. 2; SE. SE., Sec. 3,
T. 7S. - R. 4W.

Use = Irrigation & Domestic

16-18' high
12' x 12' w
12' x 12' w
12' x 12' w

Priority = Oct. 17, 1950
Due = Oct. 31, 1953

top = 50 yds long, x 12' w
16-18' high

S. gate 64" x 48" } steel
N. gate 56" x 44" } with
wheel & worm

400' l x 200' w, x 5' h.

NOTICE FOR PUBLICATION

**NOTICE OF PROOF
APPLICATION OF WATER
TO BENEFICIAL USE**

Notice is hereby given that at 10:30 A. M. on the 31st day of October, 1953, at Homedale, County of Owyhee, State of Idaho, before Emma Henry, Notary Public, proof will be submitted of the application to beneficial use of 20 acre feet per annum of the waters of Deer Creek in accordance with the terms and conditions of Permit No. R-861 heretofore issued by the Department of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are Everett Townsend, Jordan Valley, Oregon.

The use to which said water has been applied is Irrigation and domestic purposes.

The amount applied to beneficial use is 20 acre feet per annum.

The place where said water is used SE $\frac{1}{4}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec-

tion 3, Township 7 South, Range 4 West, B. M.

The name of the canal or ditch or other works by which said water is conducted to such place of use is: No Name.

The right to take water from such works is based upon Permit No. R-861.

The source of supply from which such water is diverted is Deer Creek.

The date of priority which said user is prepared to establish is October 17, 1953.

MARK R. KULP,
State Reclamation Engineer
Pub. Oct. 8 - Oct. 29, 1953

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO)

COUNTY OF OWYHEE)

) ss.

I, Carol E. Gough, being first duly sworn, depose and say:

1. That I am a citizen of the United States of America, and at all times hereinafter mentioned was and now am over the age of twenty-one years, not a party to nor interested in the proceedings hereinafter mentioned.

2. That during the time of the publication of the notice hereinafter mentioned, I was and now am the editor and co-publisher of THE OWYHEE CHRONICLE, a newspaper of general circulation printed and published weekly, on Thursday of each and every week, in the City of Homedale and County of Owyhee and State of Idaho.

3. That the said THE OWYHEE CHRONICLE has been printed and published continuously and uninterruptedly in said County during a period of seventy-eight weeks prior to the first publication of the attached notice.

4. That said notice Notice of Proof Application of
Water to Beneficial Use.

of which a printed copy taken from said newspaper, is hereto annexed, was published in the regular issue thereof, and not in a supplement thereto, in said newspaper, in Four (consecutive) calendar weekly issue(s) of said newspaper, on the following date(s):

Oct. 8, 15, 22, and 29, 1953.

Signed

Carol E. Gough

Subscribed and sworn to before me this 3rd day of Nov
A. D., 1953.

Emma J. Henry
Notary Public in and for the State of Idaho.

Residing at Homedale, Idaho.

My commission expires June 20, 1954.

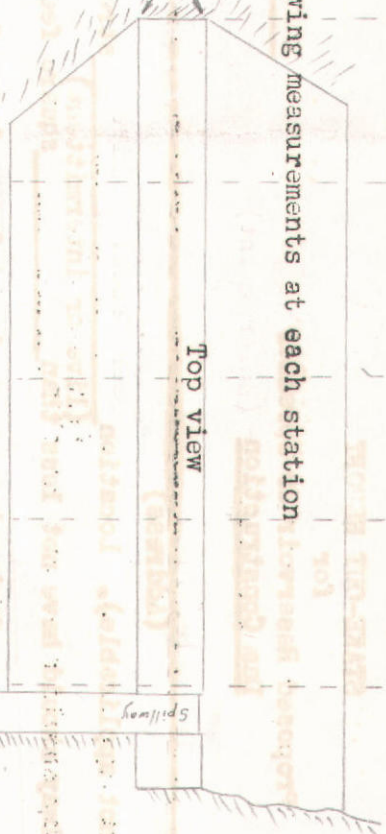
RECEIVED
NOV 5 1953
Department of Reclamation

R-861

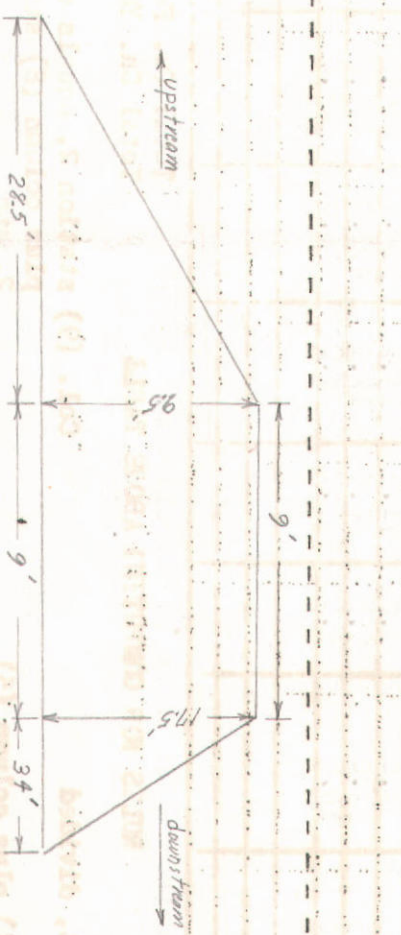
Station: 1 2 3 4 5

Sketch development showing measurements at each station

Station measurements taken from edges of top of dam wall



Long section

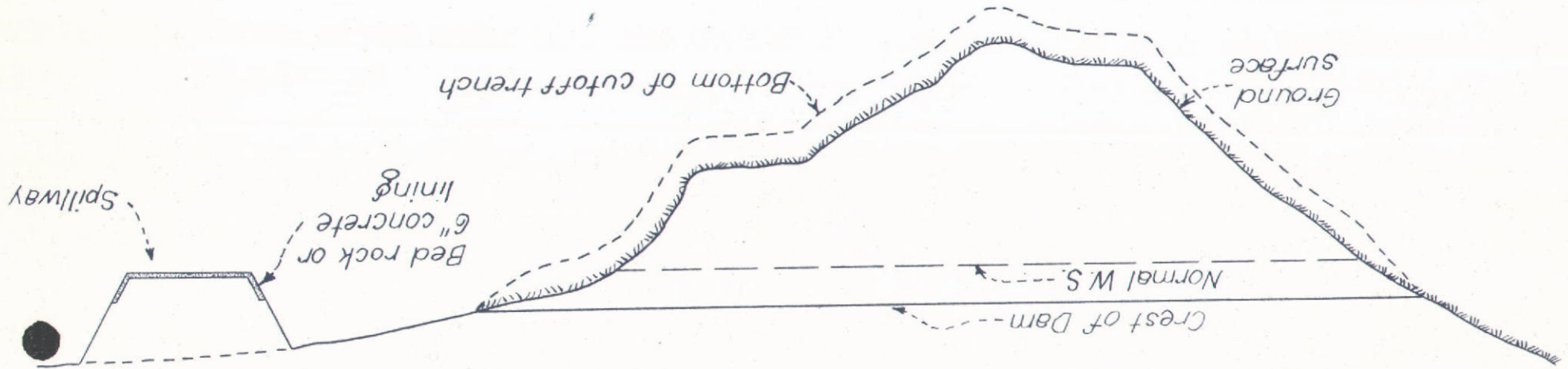


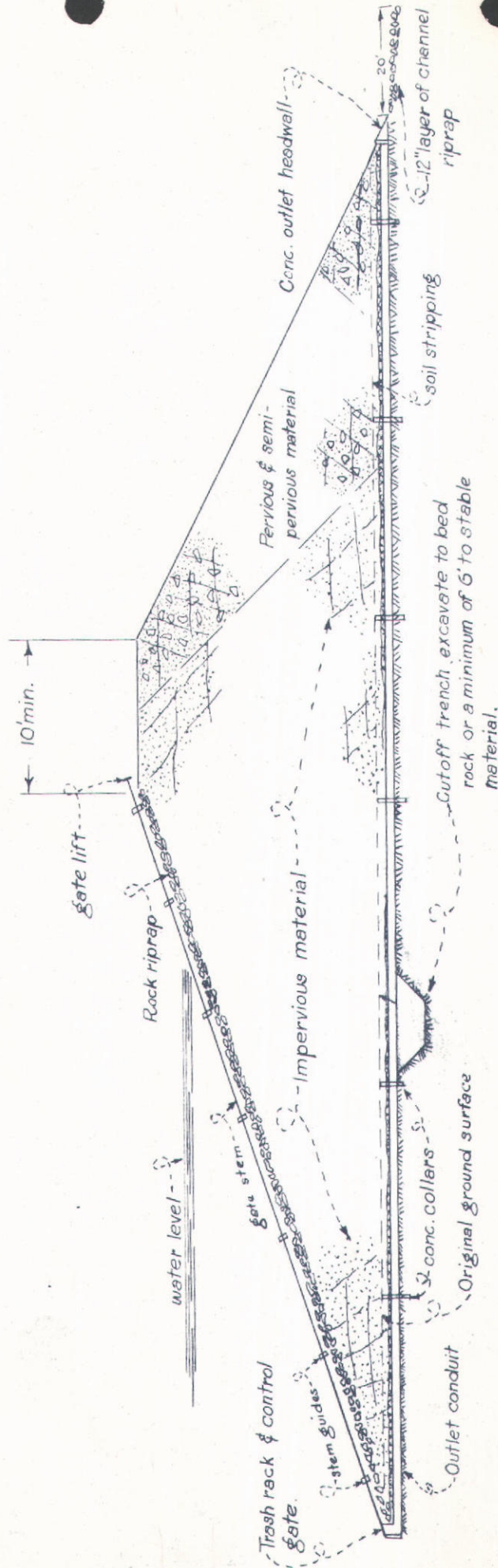
Cross-section of the enlarged structure (Station #3)



TYPICAL PROFILE OF DAM AND SPILLWAY

198-8

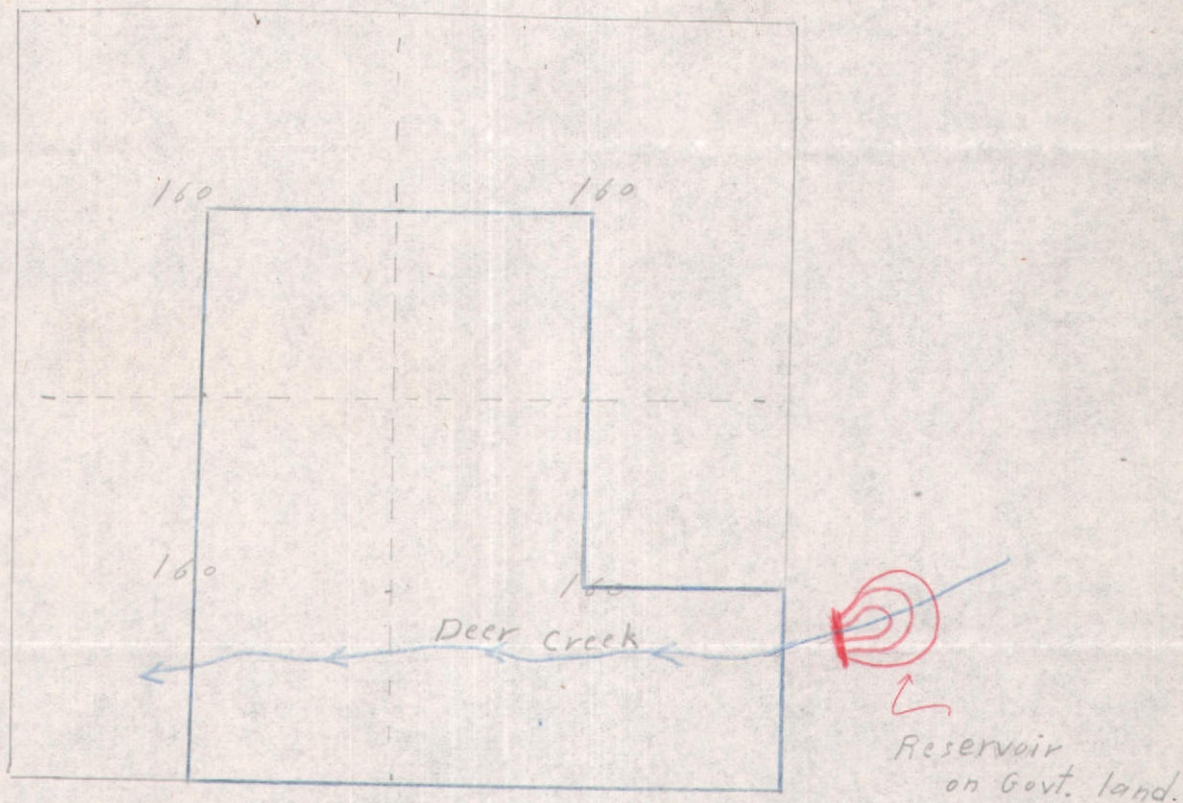




TYPICAL EARTH DAM DESIGN

R-861

Owner: Cecil R. Hayes
Location: T7S R4W
Section 3 (640 acres)



Storage: 20 acre feet (approx)

Coverage: 4 acres

Height: 17 feet

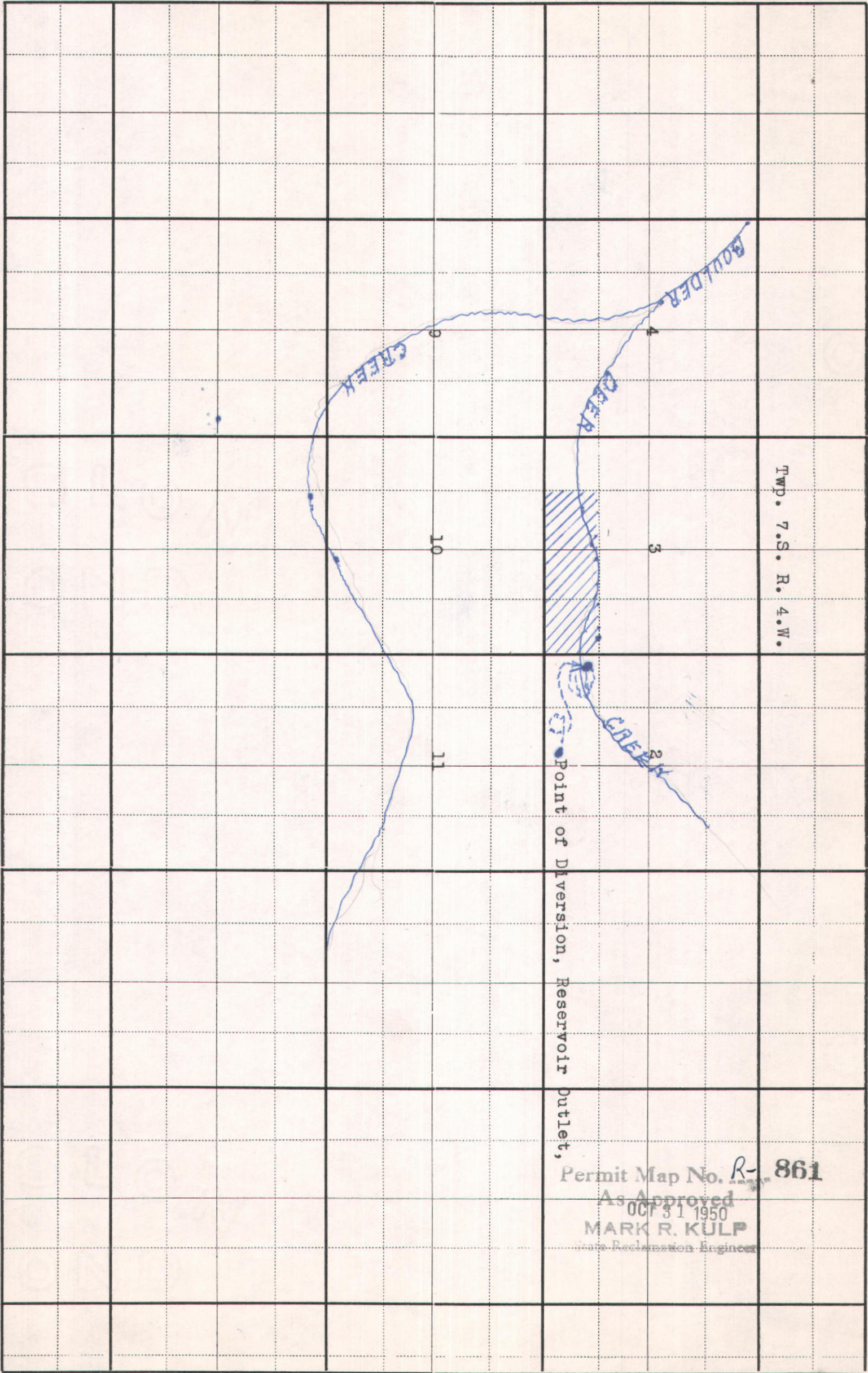
Length

Top: 129 feet (top of new, enlarged dam)

Bottom: 115 feet (top of old dam)

Outlet: 12 feet wide } outlet closed above 4 feet; outlet at base
4 feet deep } of dam.

R-861



R-861

NOTICE FOR PUBLICATION
NOTICE OF PROOF
APPLICATION OF WATER
TO BENEFICIAL USE

Notice is hereby given that at 10:30 A. M. on the 31st day of October, 1953, at Homedale, County of Owyhee, State of Idaho, before Emma Henry, Notary Public, proof will be submitted of the application to beneficial use of 20 acre feet per annum of the waters of Deer Creek in accordance with the terms and conditions of Permit No. R-861 heretofore issued by the Department of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are Everett Townsend, Jordan Valley, Oregon.

The use to which said water has been applied is Irrigation and domestic purposes.

The amount applied to beneficial use is 20 acre feet per annum.

The place where said water is used SE $\frac{1}{4}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec-

tion 3, Township 7 South, Range 4 West, B. M.

The name of the canal or ditch or other works by which said water is conducted to such place of use is: No Name.

The right to take water from such works is based upon Permit No. R-861.

The source of supply from which such water is diverted is Deer Creek.

The date of priority which said user is prepared to establish is October 17, 1953.

R-861
MARK R. KULP,
State Reclamation Engineer
Pub. Oct. 8 - Oct. 29, 1953

**NOTICE FOR PUBLICATION
NOTICE OF PROOF
APPLICATION OF WATER
TO BENEFICIAL USE**

Notice is hereby given that at 10:30 A. M. on the 31st day of October, 1953, at Homedale, County of Owyhee, State of Idaho, before Emma Henry, Notary Public, proof will be submitted of the application to beneficial use of 20 acre feet per annum of the waters of Deer Creek in accordance with the terms and conditions of Permit No. R-861 heretofore issued by the Department of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are Everett Townsend, Jordan Valley, Oregon.

The use to which said water has been applied is Irrigation and domestic purposes.

The amount applied to beneficial use is 20 acre feet per annum.

The place where said water is

used SE $\frac{1}{4}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 3, Township 7 South, Range 4 West, B. M.

The name of the canal or ditch or other works by which said water is conducted to such place of use is: No Name.

The right to take water from such works is based upon Permit No. R-861.

The source of supply from which such water is diverted is Deer Creek.

The date of priority which said user is prepared to establish is October 17, 1953.

MARK R. KULP,
State Reclamation Engineer
Pub. Oct. 8, 1953 Oct. 29, 1953

State of Idaho
License and Certificate of Water Right

Water License No. R-861 Amount 20 acre feet
Water District No. Priority October 17, 1950

THIS IS TO CERTIFY that CECIL R. HAYES
of Jordan Valley, Oregon, made application for a permit to appropriate the
public waters of the State of Idaho, dated October 17, 1950; that Permit No. R-861
was issued under said application; that Certificate of Completion of works, with a ~~reservoir~~ ^{Storage} capacity of
20 acre ~~feet~~ ^{feet}, was issued thereunder on June 30, 1955, showing that said works
were completed on the 25th day of September, 1953; and that on the 31st
day of October, 1953,

EVERETT TOWNSEND, Assignee of Cecil R. Hayes
of Jordan Valley, State of Oregon, made proof to the satisfaction of the
State Reclamation Engineer of Idaho, of the right to use the waters of Deer Creek
, a tributary of Boulder Creek, for the purpose of irrigation and
domestic use, under Use Permit No. R-861 of the Department of Reclamation
and that said right to the use of said waters has been perfected in accordance with the laws of Idaho,
and is hereby confirmed by the State Reclamation Engineer of Idaho and entered of record in Volume
9 of Licenses at page 5510, on the 30th day of June, 1955;
The right hereby confirmed dates from October 17, 1950;
The Point of ~~Division~~ ^{Outlet} is located
in the SW 1/4 SW 1/4, Sec. 2, Tp. 7 S., R. 4 W., B. M. Owyhee County

That the amount of water to which such right is entitled and hereby confirmed, for the purposes
aforesaid, is limited to an amount actually needed and beneficially used for said purposes, and shall
not exceed twenty (20) ~~cubic feet per second~~ acre feet per annum.

Description and location of use:

Twp.	Range	Sec.	Forty-acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
7 S.	4 W.	3	SE 1/4 SW 1/4	40	----
			SW 1/4 SE 1/4	40	12
			SE 1/4 SE 1/4	40	8
			Number of acres actually irrigated -		20

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place
of use herein described, as provided by the laws of Idaho.

WITNESS the seal and signature of the State Reclamation Engineer, affixed at Boise, Idaho, this
30th day of June, 1955.

(SEAL) MARK R. KULP
State Reclamation Engineer.

State of Idaho
License and Certificate of Water Right

Water License No. G-22848 Amount 5.6 second feet
Water District No. _____ Priority June 17, 1952

THIS IS TO CERTIFY that ELMER FUNK
of American Falls, Idaho, made application for a permit to appropriate the
public waters of the State of Idaho, dated June 17, 19 52; that Permit No. G-22848
was issued under said application; that Certificate of Completion of works, with a carrying capacity of
5.6 second feet, was issued thereunder on June 16, 1955, showing that said works
were completed on the 30th day of August, 19 54; and that on the 30th
day of August, 19 54,
ELMER FUNK

of American Falls, State of Idaho, made proof to the satisfaction of the
State Reclamation Engineer of Idaho, of the right to use the waters of two wells
~~contributing~~ (subterranean flow), for the purpose of Irrigation
, under Use Permit No. G-22848 of the Department of Reclamation
and that said right to the use of said waters has been perfected in accordance with the laws of Idaho,
and is hereby confirmed by the State Reclamation Engineer of Idaho and entered of record in Volume
9 of Licenses at page 5509, on the 16th day of June, 19 55;

The right hereby confirmed dates from June 17, 19 52;

The Points of Diversion ^{are} located in the center of the NE $\frac{1}{4}$ and center of the NW $\frac{1}{4}$
of ~~Section 13~~ Sec. 13, Tp. 6 S., R. 30 E., B. M. Bingham County

That the amount of water to which such right is entitled and hereby confirmed, for the purposes
aforesaid, is limited to an amount actually needed and beneficially used for said purposes, and shall
not exceed 5.6 cubic feet per second.

Description and location of use:

Twp.	Range	Sec.	Forty-acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
6 S.	30 E.	13	NE $\frac{1}{4}$ NE $\frac{1}{4}$	48.45	48
			NW $\frac{1}{4}$ NE $\frac{1}{4}$	40	40
			SW $\frac{1}{4}$ NE $\frac{1}{4}$	40	40
			SE $\frac{1}{4}$ NE $\frac{1}{4}$	48.09	48
			NE $\frac{1}{4}$ NW $\frac{1}{4}$	40	40
			NW $\frac{1}{4}$ NW $\frac{1}{4}$	40	40
			SW $\frac{1}{4}$ NW $\frac{1}{4}$	40	40
			SE $\frac{1}{4}$ NW $\frac{1}{4}$	40	40
			NE $\frac{1}{4}$ NE $\frac{1}{4}$	40	40
			NW $\frac{1}{4}$ NE $\frac{1}{4}$	40	40
			SW $\frac{1}{4}$ NE $\frac{1}{4}$	40	40
			SE $\frac{1}{4}$ NE $\frac{1}{4}$	40	40
			Number of Acres Actually Irrigated - -		496

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place
of use herein described, as provided by the laws of Idaho.

WITNESS the seal and signature of the State Reclamation Engineer, affixed at Boise, Idaho, this
16th day of June, 19 55.

MARK R. KULP
State Reclamation Engineer.

(SEAL)

APPLICATION FOR PERMIT

To Construct a Reservoir and Store and Appropriate
The Public Waters of the State of Idaho

Application No. R29458
Permit No. R 861

55-2180

1. Name of Applicant: CECIL R. HAYES

Postoffice address: Jordan Valley

County Malheur

State Oregon

I. If applicant is a corporation, give:

(a) Date and place of incorporation:

(b) Amount of Capital Stock: \$

(c) Amount paid in: \$

(d) Names and addresses of directors:

II. The financial resources of the corporation are:

(a) Cash on hand: \$

(b) Treasury Stock: \$

(c) Bonds to be issued: \$

(d) Other resources:

2. Quantity of water to be stored: 20 acre feet per annum.

3. Source of water supply is Deer Creek (Creek) (River) (Spring), a tributary of Boulder Creek River.

4. The outlet of the proposed reservoir is located (bearing) feet, distant from the corner of Section , Township , Range , B. M. and is in the SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 2 , Township 7 S. , Range 4 W. , B. M. County of Owyhee

5. Fill out either (a) or (b).

(a) The reservoir is located in the channel of Deer Creek (Creek) (River).

(b) The reservoir is to be filled through a feeder canal, the point of diversion for which is located (bearing) feet distant from

the corner of Section , Township , Range , B. M., and is in the $\frac{1}{4}$ of $\frac{1}{4}$ of

Section , Township , Range , B. M.; width at bottom feet, width at top

feet, depth of water feet; average grade per mile feet; Capacity cubic feet per second.

6. (a) The area of the high water line of the reservoir is 4 acres.

(b) The reservoir capacity is 20 acre feet.

7. Height of reservoir dam 17 feet, length at top 129 feet, length at bottom 115 feet, size of outlet 8" steel/ ~~12" steel~~ pipe

by feet. The dam is to be constructed of materials as follows: Earth

(If height will exceed 10 feet, plans must be approved by Department of Reclamation, before beginning construction.)

8. (a) Will water stored in reservoir be diverted to canal or aqueduct, thence to land to be irrigated without commingling with natural flow of

Deer Creek (Creek) (River) ? No

(b) Water stored in reservoir will be carried in the channel of Deer Creek (Creek,) (River,) a distance

of 2 miles to point of diversion located (bearing) feet, distant from the corner of Section

Township , Range , B. M., and in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of $\frac{1}{4}$ of Section 2 , Township 7 S. , Range 4 W. B. M.

9. Amount of water claimed from Deer Creek (Creek) (River) (Spring) in addition to that

stored in reservoir One (See Permit No. 20288) cubic feet per second.

10. Water is to be used for Irrigation and domestic purposes.

11. If for mining, milling, power or manufacturing purposes give:

(a) Point of use of water (bearing) feet, distant from Corner of Section , Township , Range

B. M. and is in the $\frac{1}{4}$ of $\frac{1}{4}$ of Section , Township , Range , B. M.

(b) Amount of power generated: H. P., under feet head.

(c) Water is to be returned to (Creek) (River) (Spring) at a point (bearing) feet

distant from the corner of Section , Township , Range , B. M., in

the $\frac{1}{4}$ of $\frac{1}{4}$ of Section , Township , Range B. M.

12. Water stored in accordance with this Permit will be carried to place of use through a canal heretofore constructed under the terms of Permit No. 20288

, which is hereby referred to and made a part hereof.

13. Kind of diversion works: Small dams and headgates

(Dam, canal, flume, pipe, etc.)

14. Height of diversion dam: 2 feet, length at top 8 feet, length at bottom 6 feet. The dam is to be constructed of materials as follows: Earth & rocks

(If height will exceed 10 feet, plans must be approved by Department of Reclamation, before beginning construction.)

15. Size of headgate: Width 2 feet, Height 2 feet.

16. Diversion Canal: Width at bottom Small / irrigation ditches. feet, width at water line feet, depth of water feet, Dimensions of Flume

Diameter of Pipe inches; Length of Conduit miles. Average grade per mile feet.

17. Estimated cost of Works: Storage Works: \$ 500.00 Diversion Works: \$None

18. Time required for completion of work Two (2) years.

19. Time required for complete application of water to proposed beneficial use is None years.

20. The land to be irrigated is described in the following tabulation:

21. Existing rights and/or valid permits appurtenant to the lands described in Sec. 20 are: One cubic foot per second. (See Permit No. 20288)

Twp.	Range	Sec.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Totals
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
7 S.	4 W.	3												40			40	40	120

Total Number of Acres to be Irrigated

120

Remarks:

BE IT KNOWN That the undersigned hereby makes application for permit to construct a reservoir and store and appropriate the public waters of Idaho as herein set forth, and that the enclosed map is hereby made a part of this application.

CECIL R. HAYES

Applicant.

By

Agent.

Date of first receipt at office of Commissioner of Reclamation State Reclamation Engineer: 11:30 A. M. October 17, 1950

Returned to applicant for correction

Corrected application received

STATE RECLAMATION ENGINEER APPROVAL OF COMMISSIONER OF RECLAMATION

The number of this permit is R 861

Recorded in book R 3, page 861

Approved October 31, 1950

This is to certify that I have examined the within application for a permit to construct a reservoir and store and appropriate the public waters of the State of Idaho, and hereby approve the same, subject to the following limitations and conditions:

Bond in the sum of \$, to be filed on or before

Work to begin on or before December 31, 1950

and to continue diligently and

uninterruptedly to completion, unless temporarily interrupted by circumstances over which the permit holder has no control.

One fifth of the work above specified to be completed on or before October 31, 1951

The whole of said work to be completed on or before October 31, 1952

Beneficial use of water stored in accordance herewith, to be made on or before October 31, 1952

Witness my hand this 31st day of October, 1950

. 19

MARK R. KULP

Commissioner of Reclamation
State Reclamation Engineer

IN TESTIMONY WHEREOF, We, C. A. ROBINS, Governor of the State of Idaho, and J. D. "CY" PRICE, Secretary of State of the Idaho, have caused this instrument to be executed in the name of the State of Idaho, and caused the Great Seal of the State of Idaho to be hereunto affixed, this 31st day of October, 1950/

(S E A L)

Countersigned:
By J. D. "CY" PRICE
Secretary of State.

STATE OF IDAHO
By C. A. ROBINS
Governor

APPROVAL OF STATE RECLAMATION ENGINEER

I, Mark R. Kulp, State Reclamation Engineer of the State of Idaho, hereby extend the time for the completion of construction work under Permit to appropriate the Public Waters of the State of Idaho, No. R-861 to October 31, 1953.

Witness my hand this 29th day of August, 1952.

MARK R. KULP
State Reclamation Engineer

A S S I G N M E N T

For value received, I hereby assign all my right title, and interest in and to Permit to appropriate the Public Waters of the State of Idaho, No. R-861 to Everett Townsend of Jordan Valley, Oregon.

Cecil R. Hayes
Permit Holder.

State of Idaho)
County of Owyhee) ss.

On this 20 day of August, 1953, before me, a Notary Public for the State of Idaho, residing at Marsing personally appeared Cecil R. Hayes, a single man, known to me to be the person whose name is subscribed to the within instrument, and duly acknowledged to me that he executed the same.

In witness whereof, I have hereunto set my hand and affixed my Notarial Seal, the day and year in this certificate first above written.

LEONA S. LAWES
Notary Public, residing at Marsing, Idaho

My commission expires 9-10-56

Received and filed for record in Department of Reclamation, at Boise, Idaho, August 24, 1953.

MARK R. KULP
State Reclamation Engineer

Permit No. R-861

CERTIFICATE OF COMPLETION OF WORKS

TO ALL WHOM IT MAY CONCERN:

This is to certify that EVERETT TOWNSEND of Jordan Valley, County of Malheur and State of Oregon the holder of Permit No. R-861, issued upon Application No. R-29458, bearing date of priority of October 17, 1950 authorizing the construction of a reservoir, with the right to appropriate and store 20 acre feet per annum of the waters of Deer Creek a tributary of Boulder Creek, in the County of Owyhee State of Idaho, for irrigation and domestic purposes, has fully complied with the provisions of the laws of the State of Idaho relating to the proof of completion of the works set out and described in said Permit; that said works include a dam and reservoir adequate for the storage of 20 acre feet of water per annum, with adequate diversion works and conduit to the reservoir, and a conduit capable of conducting said water to the place of intended use; that the point of outlet of said reservoir is located in the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 2, Township 7 S., Range 4 W., and that the place of use, or the lands proposed to be irrigated by the use of said water are described as follows, to-wit: SE $\frac{1}{4}$ SW $\frac{1}{4}$ and S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 3, Township 7 South, Range 4 West, B.M.

Witness my hand this 30 th day of June, 1955.

MARK R. KULP
State Reclamation Engineer

Proof of completion of works made October 31, 1953
Certificate of Completion of Works issued June 30, 1955.

LICENSE ISSUED FOR 20 a. F.
P. 5510 SEC. FT.

June 30, 1955

RE: Permit No. R-861

Mr. Everett Townsend
Jordan Valley
Oregon

Dear Mr. Townsend:

We enclose Certificate of Completion of Works also License and Certificate of Water Right issued under Permit No. R-861 confirming your right to the storage and use of 20 acre feet per annum of the water of Deer Creek with priority of October 17, 1950, and point of outlet in the S¹/₄SW¹/₄ Section 2, Township 7 South, Range 4 West, B.M. for irrigation and domestic use on the S¹/₂SW¹/₄ of Section 3, same Township and Range.

We also enclose departmental receipt No. 27412 for the \$9.00 completion of works and License fees.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:hl
Enc.



ROBERT E. SMYLIE
GOVERNOR

STATE OF IDAHO
DEPARTMENT OF RECLAMATION

MARK R. KULP, STATE RECLAMATION ENGINEER
BOISE

June 22, 1955

RE: Permit No. R-861

RECEIVED
JUN 30 1955
Department of Reclamation

Mr. Everett Townsend
Jordan Valley
Oregon

Dear Mr. Townsend:

The report of our field engineer on examination for completion of works and beneficial use on your Permit No. R-861 is now on file and shows that you have irrigated 20 acres in the S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 3, Township 7 South, Range 4 West, B.M. from your reservoir on Deer Creek.

A Certificate of Completion of Works and License can, therefore, be issued for 20 acre feet of water upon receipt of the statutory fees. These amount to \$5.00 for completion of works and \$4.00 license fee, or a total of \$9.00.

Very truly yours,

MARK R. KULP
State Reclamation Engineer

By

Jeannie L. Anderson
Chief Clerk

A:hll

L5510

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE

REPORT OF ENGINEER

PERMIT NO. R-861

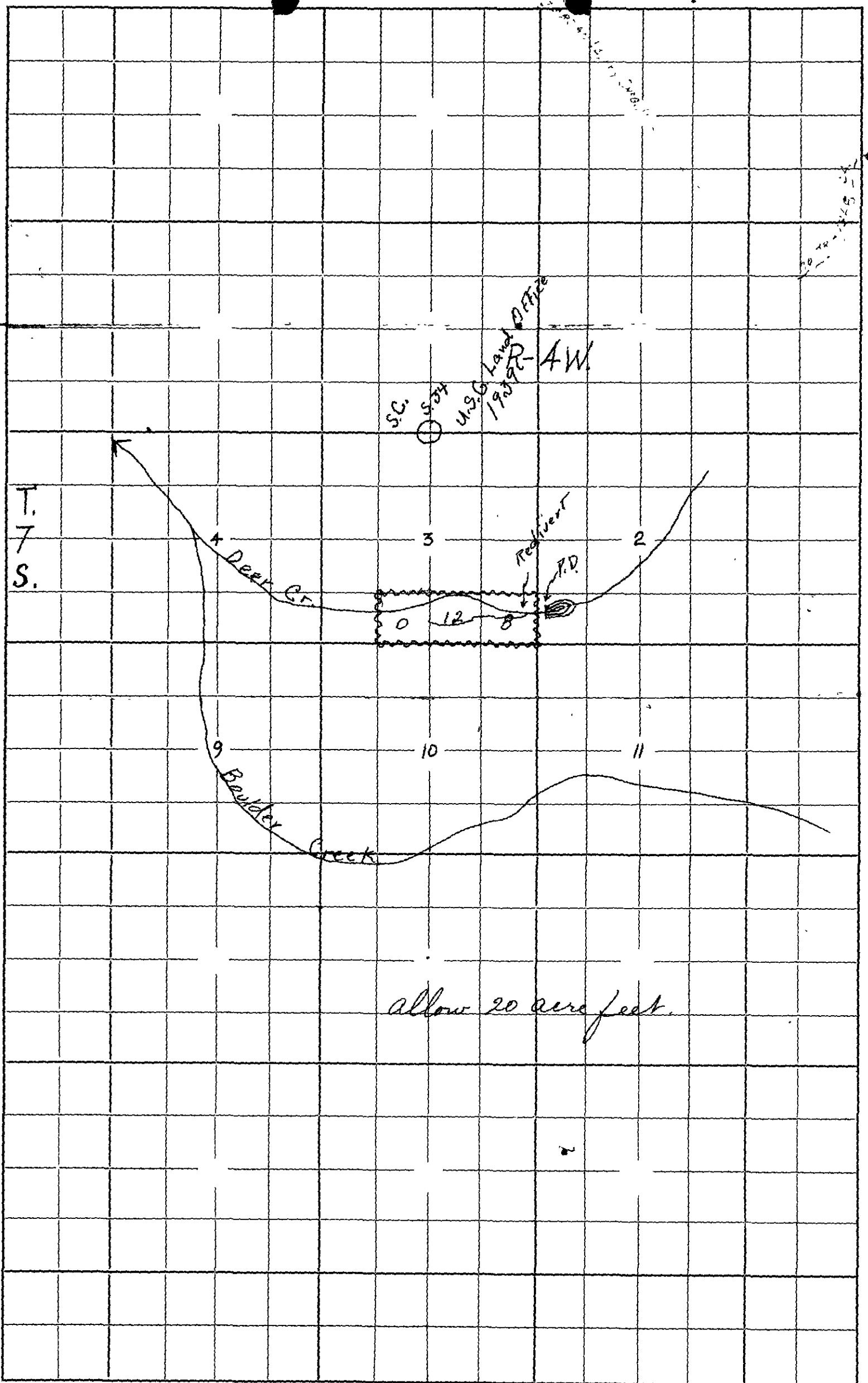
REPORT ON PROOF OF Completion of Works & Beneficial Use
EVERETT TOWNSEND, Jordan Valley, Oregon

*20 acres ft
max*

app. 20 a. ft.

*20 acres.
2.40' S*

R-861



allow 20 acre feet.

Form 23

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO
REPORT OF ENGINEER

Permit No. R-861

This proof is for Completion of Works & Beneficial Use In Water District No. _____

1. Name of applicant Everett Townsend, Jordan Valley, Oregon

2. Source of water supply Deer Creek

3. Location of point of diversion: Is in the SW¹/₄SW¹/₄ Section 2, and SE¹/₄SE¹/₄ of Section 3

T. 7 S. R. 4 W. County of Owyhee

4. Describe works as they exist, giving dimensions and capacities of same: This is a small reservoir located on the channel of Deer Creek just east of Mr. Townsend's property. Dam is 50 yards long on top and 12' wide by 18' high. The spillway spills over the top of the gates. Outlet structures are on the South end of the dam and are made of heavy concrete 12" to 18" thick. There are two steel gates operated by worm & screw. South gate is 64" by 48". North gate is 56" by 44" openings. The section of the apron closest to the dam is approximately 10' long and the second section is also 10' long making a total of 20' length of apron. Freeboard is approximately 2'. Spillway is approximately 13' wide. There is no rip-rap. The pond is a small pond estimated at 400' long by 200' wide by average 5' deep.

5. Water is used for: Irrigation and domestic purposes.

6. State whether or not water has been turned into works of diversion: Yes

7. List legal subdivisions of lands to be irrigated. If proof is for beneficial use, give exact number of acres under cultivation in each forty-acre tract. (Describe manner and place of use if other than irrigation):

SE¹/₄ SW¹/₄ and S¹/₂ SE¹/₄ Section 3, Twp. 7 South, Range 4 West, B. M.

See the map

(Submit map on attached plat, showing location and details of above description.)

8. What large stream would the water here appropriated finally reach? Jordan Creek to Owyhee River.

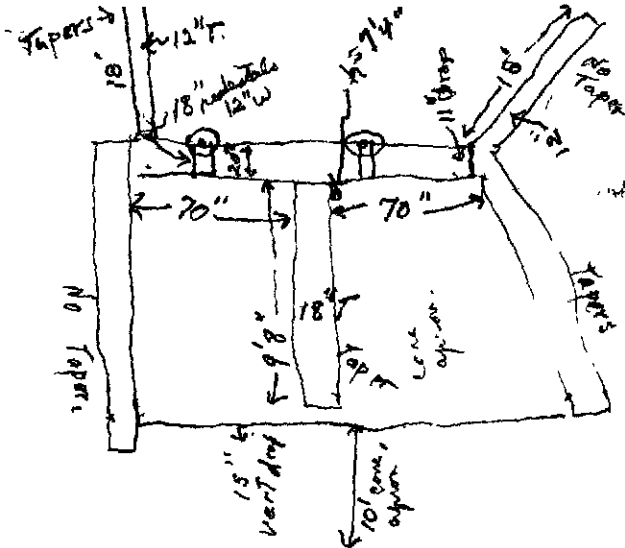
Remarks: This is strictly hay and pasture in connection with cattle raising.

Only road to this is thru pastures and can be traveled only by jeep.

This examination was made on the 15th day of June, 19 55

(Signed) E. M. Humphrey Examiner.

P-861



1" worm screw.
21" wheel
approx. 24" free bd
South side needs to be prepared
no rip rap.
spillway is over top of
control work.

INSTRUCTIONS TO EXAMINERS

1. Always carefully note the location of the point of diversion and accurately plat same.
2. When proof is for beneficial use, carefully check up the number of acres actually irrigated in each forty and accurately plat same.
3. Make a map showing the correct location of streams and ditches, and the irrigated lands, and any adjacent permanent landmarks, such as towns, lakes, large streams and public roads.
4. If any unusual conditions are discovered, make plain statement of them under remarks.
5. Always see the holder, if possible, and go over the whole ground with him and make your report only upon actual existing facts and conditions.
6. Give general characteristics of soils, topography, and crops raised.

RECEIVED
JUN 21 1955

Department of Reclamation

Everett Townsend
Jordan Valley, Oregon

Permit No. R-861

Examination for Completion of Works
and Beneficial Use

County Owyhee

283775 - 4W.

Q = 20.0 acre feet.

S = Deer Creek

P.D. = SW. SW., Sec. 2; SE, SE., Sec. 3,
T. 7S. - R. 4W.

Sec = 20.0 acres & 1/2 acre

1/2 acre

Priority = Oct. 17, 1950
Due = Oct. 31, 1953

top = 50 yds long, x 12' w
16-18' high

S. gate 64" x 48" } steel
N. gate 56" x 44" } with
wheel & worm

400' l x 200' w, x 5' h.

April 5, 1954

RE: Permit No. R-861

Mr. Everett Townsend
Jordan Valley
Oregon

Dear Mr. Townsend:

State law requires an inspection of any Permit being brought to license. I intend to make inspection in connection with your Permit No. R-861 on Wednesday, April 14, 1954.

Please be prepared to accompany me on this inspection or have someone familiar with the irrigation and other uses under the above numbered permit, do so.

Yours truly,

MARK R. CULP
State Reclamation Engineer
By

Elmer Humphrey
Deputy State Reclamation Engineer

H:hll

4-10

✓
November 5, 1953

RE: Permit No. R-861

Mr. Everett Townsend
Jordan Valley
Oregon

Dear Mr. Townsend:

We have received from the Owyhee Chronicle affidavit of publication which completes your proof of beneficial use on Permit No. R-861.

We also have on file your proof of completion of works, but before final action is taken the law requires that a field examination be made by an engineer from this department.

We cannot tell just when this examination will be made, but our field engineer will try and contact you at the time he makes the examination so that arrangements may be made to show him over the grounds.

We return your check for \$5.00, which accompanied your proof of completion of works as no fees are actually due until after field inspection has been made and report filed by our field engineer, at which time you will be notified of the fees in connection with both proofs.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:fg
Enc.

K' d '1

NOTICE FOR PUBLICATION

**NOTICE OF PROOF
APPLICATION OF WATER
TO BENEFICIAL USE**

Notice is hereby given that at 10:30 A. M. on the 31st day of October, 1953, at Homedale, County of Owyhee, State of Idaho, before Emma Henry, Notary Public, proof will be submitted of the application to beneficial use of 20 acre feet per annum of the waters of Deer Creek in accordance with the terms and conditions of Permit No. R-861 heretofore issued by the Department of Reclamation of the State of Idaho

The name and postoffice address of the person or corporation holding said permit are Everett Townsend, Jordan Valley, Oregon.

The use to which said water has been applied is Irrigation and domestic purposes.

The amount applied to beneficial use is 20 acre feet per an-

num.

The place where said water is used SE¹/₄ SW¹/₄, S¹/₂ SE¹/₄ Section 3, Township 7 South, Range 4 West, B. M.

The name of the canal or ditch or other works by which said water is conducted to such place of use is: No Name.

The right to take water from such works is based upon Permit No. R-861.

The source of supply from which such water is diverted is Deer Creek.

The date of priority which said user is prepared to establish is October 17, 1953.

MARK R. KULP,

State Reclamation Engineer
Pub Oct 8, - Oct 29, 1953

**NOTICE FOR PUBLICATION
NOTICE OF PROOF
APPLICATION OF WATER
TO BENEFICIAL USE**

Notice is hereby given that at 10.30 A. M. on the 31st day of October, 1953, at Homedale, County of Owyhee, State of Idaho, before Emma Henry, Notary Public, proof will be submitted of the application to beneficial use of 20 acre feet per annum of the waters of Deer Creek in accordance with the terms and conditions of Permit No. R-861 heretofore issued by the Department of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are Everett Townsend, Jordan Valley, Oregon.

The use to which said water has been applied is Irrigation and domestic purposes.

The amount applied to beneficial use is 20 acre feet per annum.

The place where said water is used SE $\frac{1}{4}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec-

tion 3, Township 7 South, Range 4 West, B. M.

The name of the canal or ditch or other works by which said water is conducted to such place of use is No Name.

The right to take water from such works is based upon Permit No R-861.

The source of supply from which such water is diverted is Deer Creek.

The date of priority which said user is prepared to establish is October 17, 1953

MARK R. KULP,

State Reclamation Engineer
Pub. Oct. 8 - Oct. 29, 1953

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO)
) ss.
COUNTY OF OWYHEE)

I, Carol N. Gough, being first duly sworn, depose and say:

1. That I am a citizen of the United States of America, and at all times hereinafter mentioned was and now am over the age of twenty-one years, not a party to nor interested in the proceedings hereinafter mentioned.

2. That during the time of the publication of the notice hereinafter mentioned, I was and now am the editor and co-publisher of THE OWYHEE CHRONICLE, a newspaper of general circulation printed and published weekly, on Thursday of each and every week, in the City of Homedale and County of Owyhee and State of Idaho.

3. That the said THE OWYHEE CHRONICLE has been printed and published continuously and uninterruptedly in said County during a period of seventy-eight weeks prior to the first publication of the attached notice.

4. That said notice Notice of Proof Application of
Water to Beneficial Use.

of which a printed copy taken from said newspaper, is hereto annexed, was published in the regular issue thereof, and not in a supplement thereto, in said newspaper, in Four (consecutive) calendar weekly issue(s) of said newspaper, on the following date(s)

Oct. 8, 15, 22, and 29, 1953.

Signed _____

Subscribed and sworn to before me this _____ day of _____
A. D. 1953.

Emma H. Henry
Notary Public in and for the State of Idaho.

Residing at Homedale, Idaho

My commission expires June 20, 1954.

November 3, 1953

RE: Permit No. R-861

Mr. Everett Townsend
Jordan Valley
Oregon

Dear Mr. Townsend:

We acknowledge receipt of the depositions of yourself and two witnesses submitted in proof of Beneficial Use on Permit No. R-861.

However, the affidavit of publication is also a part of this proof and the Owyhee Chronicle was instructed to send you this affidavit. If you have not received it we suggest you take the matter up with them at once.

We note that you give two points of diversion from Deer Creek, one in the SE 1/4 Section 3, and the other in the SW 1/4 Section 2, Township 7 South, Range 4 West, B.M. The permit only described one point of diversion in the SW 1/4 Section 2. If you have diverted from both points an application for amendment should be filed for approval by this department and we shall be glad to send you the necessary form of application for amendment upon request.

Very truly yours,

W. K. R. KULP
State Reclamation Engineer
BY

Chief Clerk

a/re

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

RECEIVED
NOV 3 1953
Department of Reclamation
no off

Permit No. 861

Proof of Application of Water to Beneficial Use

Deposition of Holder

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. Everett Townsend, Flint Creek Ida
Rancher, P.O. Jordan Valley, Ore

Ques. 2. If acting in behalf of corporation, state its name, principal place of business (if a foreign corporation, give name of postoffice of statutory agent), your position with reference to same, and your authority for appearing in its behalf.

Ans. _____

Ques. 3 State number and date of permit, and date of priority you propose to establish under the permit.

Ans. 861, Oct 31, 1950. Oct 17 1953

Ques. 4. State source of water supply and give exact location of point of diversion.

Ans. Dus Creek (SE 1/4 SE 1/4) Sec 3 and the SW 1/4
SW 1/4 of Sec 2 JP 75, R 4W Owyhee County

Ques. 5. Describe your works of diversion, and state amount of water they are capable of conveying from point of diversion to place of use, and give name of canal or ditch or other works by which water is conducted to such place of use. If a well, state depth of well, depth and size of casing and depth to water. If pump is used, state discharge of pump and tell how it was measured or determined.

Ans. Headgates & small ditches.
75 inches

Ditch has no name

Ques. 6. State for what purpose water is used and describe place of use. (If for irrigation, name each subdivision in which used, and number of acres in each subdivision that have actually been irrigated with said water.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Irrigation & Domestic, Jordan Dus
Creek. SE 1/4 SW 1/4 8 acres SW 1/4 SE 1/4
10 acres SE 1/4 SE 1/4 7 acres JP 75, R 4W Sec 3
Cultivated. Levelled & Seeded

Conveys 400,000 gal

R-861

Ques. 7. If for other than irrigation purposes; state how applied, amount of horse power generated, etc.

Ans. _____

Ques. 8. What is the minimum amount of water required for the purpose specified above?

Ans. _____

Ques. 9. If you are not the person or representative of the corporation to whom above mentioned permit was originally issued, please state how ownership was acquired by present holder.

Ans. Purchased land from Cecil Hayes

Ques. 10. State when, how, in what amount and to what extent the water diverted under above mentioned permit has been used.

Ans. Used during Irrigation Season
Irrigation & Fair water

Ques. 11. State when, how, in what amount and to what extent waters other than those diverted under the above mentioned permit have been diverted and applied to beneficial use upon the lands herein described. Give full particulars regarding such other appropriations and rights claimed thereunder.

Ans. _____

(Sign) Everett Townsend

I hereby certify that the foregoing testimony was read to the above subscribed before its signing, that I believe him to be the person he represents himself to be, and that

said testimony was subscribed and sworn to before me, at my office in Homedale,

County of Payson, State of Idaho, on this 31st day of October,

A. D. 1953

My commission expires

June 20, 1954.

Emma J. Henry

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

PERMIT NO. 861

Proof of Application of Water to Beneficial Use

Deposition of Witness

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. Max Millsapugh, 47, Homedale Idaho
Cat Driver, Box 702, Homedale Idaho

Ques. 2. Are you acquainted with Everett Townsend, the holder of Permit No. 861? How long have you known him and where does he reside?

Ans. 30 years, Flint Creek Idaho
P.O. Jordan Valley, Oregon Box 5-69

Ques. 3. Have you read or heard read said Permit No. 861, and are you familiar with its provisions and conditions?

Ans. yes.

Ques 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

Ans. Deer Creek, SE $\frac{1}{4}$, SE $\frac{1}{4}$, section 3, SW $\frac{1}{4}$
SW $\frac{1}{4}$, section 2, T.P. 7S, R. 4W,
Owyhee
Headgate and small ditch, County

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. 1.5 second feet, .5 second feet.

Ques. 6. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Irrigation and domestic, land on
deer Creek, SE $\frac{1}{4}$ SW $\frac{1}{4}$ 8 A. SW $\frac{1}{4}$ SE $\frac{1}{4}$ 10 A
SE $\frac{1}{4}$ SE $\frac{1}{4}$ 7 A. T.P. 7S R 4W section 3. cultivated.
clearing, leveling and seeding.

2-861

Ques. 7. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. _____

Ques. 8. (If for irrigation) state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation.

Ans. desert land, 50 inch per acre

Ques. 9. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. No.

Ques. 10. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. year 1953, by visiting place during irrigation season several times.

(Signed) Max Millapangh

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Homedale,
County of Penyer, State of Idaho, on this 31st day of October,
A. D. 1953.

My commission expires June 20, 1954.
Emma J. Henry
Notary Public.

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

PERMIT NO. 861

Proof of Application of Water to Beneficial Use

Deposition of Witness

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. George W. Thomas, 51, Homedale, Farmer, Homedale, Ida.

Ques. 2. Are you acquainted with Everett Townsend, the holder of Permit No. 861? How long have you known him and where does he reside?

Ans. 30 years Tillamook Creek, I.L.
Jordan Valley, Oregon,

Ques. 3. Have you read or heard read said Permit No. 861, and are you familiar with its provisions and conditions?

Ans. yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

Ans. Deer Creek, S.E. 1/4, S.E. 1/4 Section 3 & S.W. 1/4
S.W. 1/4 Section 2 T.P. 7S. 14N Owyhee County.
headgate & main ditch

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. 1 5/10 second feet - 5 second feet

Ques. 6. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Irrigation & domestic. land on Deer
Creek S.E. 1/4, S.W. 1/4 8A, S.W. 1/4, S.E. 1/4, 10A, S.E. 1/4
S.E. 1/4, 7A. T.P. 7S. 14N, SECTION 3 Cultivated,
Clearing, leveling & seeding

2-861

Ques. 7. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. _____

Ques. 8. (If for irrigation) state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation.

Ans. desert land, 15 of inch per acre

Ques. 9. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. No

Ques. 10. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. year 1953 by visiting place during irrigating season, several times, of

(Signed) George W Thomas

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Homedale, County of Penyhee, State of Idaho, on this 31st day of October, A. D. 1953.

My commission expires June 20, 1954 Ernest J. Henry Notary Public

✓

October 2, 1953

RE: Permit No. R-861

Mr. Everett Townsend,
Jordan Valley,
Oregon

Dear Mr. Townsend:

We have sent to the Owyhee Chronicle notice of Beneficial Use proof to be made on your reservoir permit No. R-861 October 31, 1953, with instructions to publish it once a week for four weeks prior to that date and to send you the affidavit of publication.

We enclose the necessary forms of deposition to be used in making this proof and at the time set you should appear before Emma Henry, Notary Public, together with two disinterested witnesses who are familiar with the terms of the Permit and the work done thereunder for the purpose of executing the depositions.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A/re

2 810

Jordan Valley Ore
Sept 29 53

Dept of Reclamation

Dear Sirs.

I intended to make beneficial
use of water on permit no R-861
and thought I had.

Yours Truly
Ernest Townsend

RECEIVED
OCT 1 1953

Department of Reclamation

R-861

NOTICE FOR PUBLICATION
NOTICE OF PROOF APPLICATION OF WATER
TO BENEFICIAL USE

Notice is hereby given that at 10:30 A. M. on the 29 day of October, 1953
at Homedale, County of Cwybe, State of Idaho, before
Emma Henry Notary, proof will be submitted of the
application to beneficial use of 10 cubic feet per second of the waters of Deer Creek
in accordance with the terms and conditions of Permit No. 20288
heretofore issued by the Department of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are

Everett Linnard Jordan Valley are.

The use to which said water has been applied is Irrigation and Domestic

The amount applied to beneficial use is 1 cubic foot per second.

The place where said water is used (if for irrigation, give full and accurate description of the lands irrigated)

S.E. 1/4 S.W. 1/4 S. 1/2 S.E. 1/4 Section 3
Township 7 South Range 4 west B. M.

The name of the canal or ditch or other works by which said water is conducted to such place of use is

Deer Creek

The right to take water from such works is based upon Permit No. 19217

The source of supply from which such water is diverted is Deer Creek

The date of priority which said user is prepared to establish is Feb. 9-1948

State Reclamation Engineer.

861

September 26, 1953

RE: Permit No. R-861

Mr. Everett Townsend
Jordan Valley
Oregon

Dear Mr. Townsend:

We acknowledge receipt of your deposition in proof of completion of on Permit No. R-861, accompanied by your check for the \$5.00 fee in connection therewith.

However, we do not quite understand the notice for beneficial use proof which accompanied it as this seems to relate to Permit No. 20238 on which beneficial use has been made and License issued for 0.5 of a second foot of water from Deer Creek.

We assume that what you intend is to make beneficial use proof on Permit No. R-861, and if you will so advise us by return mail, it will still be in time to correct the notice and get a copy to the Owyhee Chronicle for publication.

Very truly yours,

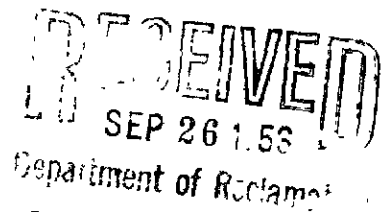
MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:fg

10-1

Permit No. R-861



Proof of Completion of Works

DEPOSITION OF HOLDER

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. Everett Townsend Rancher
Jordan Valley Ore

Ques. 2. If acting on behalf of a corporation, state its name, principal place of business, your position with reference to same, and your authority for appearing in its behalf.

Ans. _____

Ques. 3. State number and date of permit, acre feet of water you claim for storage, and source of same.

Ans. NR-861 20 acre ft Deer Creek

Ques. 4. Under terms of permit construction was required to be completed by _____

Oct 31 1953

Ques. 5. Construction was actually completed on the date of Aug. 20 1953

Ques. 6. Does the construction fully comply with the specifications? No

Ques. 7. Of what material was the dam built? Earth & Concrete

Ques. 8. State whether or not the water has been turned into your reservoir, and if so, when and to what extent.

Ans. yes - Natural flow of Creek

Ques. 9. The capacity of the reservoir is 20 acre feet.

Ques. 10. The area of the high water line of the reservoir is 4 acres.

Ques. 11. The height of the dam above bottom of reservoir is 11 feet, above low water is _____ feet.

Ques. 12. The dimensions of the spillway are 11 ft long 2 in wide and the bottom of the spillway is 2 ft feet below the top of the dam.

Ques. 13. Dimensions of the reservoir outlet are 2 outlets 46" x 48"

Ques. 14. Describe the gate and control unit.

Ans. Steel head gates with wheel control

Ques. 15. The reservoir outlet is made of concrete

Ques. 16. Is the reservoir filled through a feeder canal? No

Ques. 17. If so, where is the point of diversion for same?

Ans. 1/4 1/4 Section, _____ Twp. _____ Range _____

R-861

Ques. 18. Does the feeder canal comply with the specifications in the permit?

Ques. 19. If not, explain

Ques. 20. Cost of constructing feeder canal? \$..... Cost of reservoir? \$ 1500.00

Ques. 21. State whether or not the works from reservoir outlet to place of use are fully completed, and whether or not they comply with the specifications in permit. If not, explain.

Ans. yes

Ques. 22. Water has (has not) been delivered to place of intended use? yes

Ques. 23. Give description of dam, state dimensions, and give slope of face both upstream and downstream. Also method and material for protecting against wave action.

Ans. irrigation + domestic - land on Indian Creek

Earth + concrete 129 ft long at top 115 ft long at bottom
17 ft high - 45 percent up + 60 percent down

Ques. 24. State the purpose for which the water is to be used and give the place of use, and if for irrigation, state the number of acres, and give the legal description of same.

Ans. irrigation + domestic - land on Indian Creek

25 Acres - SE $\frac{1}{4}$ SW $\frac{1}{4}$ S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 3

Township 7 South Range 14 West

(Sign here) Ernest J. Jannard

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Blanchette, County of Owyhee, State of Idaho, on this 25th day of September A.D. 1953

Emma J. Henry
Notary Public

My commission expires June 20, 1954.

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

Re: Permit No. R-861

Date: October 2, 1953

Owyhee Chronicle

Homedale, Idaho

Gentlemen:

Enclosed you will find notice for publication once a week for four consecutive weeks prior to **October 31, 1953** the date set for proof, the expense of the publication to be paid by the applicant, **Everett Townsend** of **Jordan Valley Oregon**, to whom you should furnish proof of publication on or prior to the date set for proof.

Please acknowledge receipt of this notice, and furnish this office with a copy of the first publication, in order that we may check same.

Very truly yours,

MARK R. KULP

State Reclamation Engineer
By

Chief Clerk

R-861

NOTICE FOR PUBLICATION
NOTICE OF PROOF APPLICATION OF WATER
TO BENEFICIAL USE

Notice is hereby given that at 10:30 A. M. on the 31st day of October, 1953,
at Homedale, County of Owyhee, State of Idaho, before
Emma Henry, Notary Public, proof will be submitted of the
application to beneficial use of 20 acre feet/^{per annum}~~20 acre feet per annum~~ of the waters of Deer Creek
in accordance with the terms and conditions of Permit No. R-861
heretofore issued by the Department of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are _____
Everett Townsend, Jordan Valley, Oregon

The use to which said water has been applied is Irrigation and domestic purposes

The amount applied to beneficial use is 20 acre feet per annum

The place where said water is used (~~for irrigation, domestic and stock purposes~~)
SE $\frac{1}{4}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 3, Township 7 South, Range 4 West, B.M.

The name of the canal or ditch or other works by which said water is conducted to such place of use is _____
No Name

The right to take water from such works is based upon Permit No. R-861

The source of supply from which such water is diverted is Deer Creek

The date of priority which said user is prepared to establish is October 17, 1953

MARK R. KULP

State Reclamation Engineer.

NOTICE FOR PUBLICATION
NOTICE OF PROOF APPLICATION OF WATER
TO BENEFICIAL USE

Notice is hereby given that at 10:30 A. M. on the 19 day of October, 1953
at Homedale, County of Owyhee, State of Idaho, before
Emma Henry Notary, proof will be submitted of the
application to beneficial use of to 20 acre cubic feet per second of the waters of Deer Creek
in accordance with the terms and conditions of Permit No. 20288 R 861
heretofore issued by the Department of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are _____

Evelyn Lammend Urban Valley, Ore

The use to which said water has been applied is Irrigation and Domestic

The amount applied to beneficial use is 1 cubic foot per second

The place where said water is used (if for irrigation, give full and accurate description of the lands irrigated)

S.E. 1/4 S.W. 1/4 S. 1/2 S.E. 1/4 Section 3
Township 7 South Range 4 West B. M.

The name of the canal or ditch or other works by which said water is conducted to such place of use is _____

no name

The right to take water from such works is based upon Permit No. 19717 R 861

The source of supply from which such water is diverted is Deer Creek

The date of priority which said user is prepared to establish is Feb 9 - 1944 10-17-50

20288

0.5 Deer Creek

State Reclamation Engineer.

R-861

NOTICE TO ACCOMPANY THIS LETTER MUST BE MADE IN DUPLICATE

(Date) Sept. 25 - 1953

(P. O.) Jordan Valley Ore.

TO THE STATE RECLAMATION ENGINEER:

Boise, Idaho.

Dear Sir:

You are hereby authorized to have the attached notice published at my expense in the
Coeur d'Alene Chronicle of Homestead Idaho published in
the county in which the works are situated.

Everett Townsend

(In case of canals or other works designed to divert and carry more than 50 cubic feet of water per second, the following certificate must be signed by a well-known and competent engineer.)

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

Engineer.

R-861

✓
August 24, 1953

RE: Permit No. R-861

Mr. Everett Townsend
Jordan Valley
Oregon

Dear Mr. Townsend:

We have reworded assignment of Permit No. R-861 from Cecil R. Hayes to you as per copy of letter enclosed.

We direct your attention to the fact that proofs of Completion of Works and Beneficial Use are due on this permit on or before October 3, 1953.

Proof of Completion of Works can be made by executing the Form 15-R enclosed and returning to this Department with the statutory fee of \$5.00.

Before making proof of Beneficial Use, the law requires publication once a week for four weeks in a county newspaper. This notice should be made in duplicate on Form 10 enclosed, setting the time and place and naming the Notary Public before whom the proof is to be made.

The proof may be made at any place convenient for you and your two witnesses, and the time should be set sufficiently far ahead to allow for four weeks publication.

Both copies of Form 10 to be returned this Department together with Form 11, which is your authorization for us to have the notice published at your expense in the designated county newspaper. We shall then send a copy of the notice to the newspaper with instructions in regard to publishing and shall send you the necessary forms of depositions to be used in making the proofs.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:pj
Enc.

R-861

August 24, 1953

RE: Permit No. R-861

Mr. Cecil R. Hayes
Marsing
Idaho

Dear Mr. Hayes:

We return the assignment of Permit No. R-861 from yourself to Everett Townsend which has been recorded in this Department and we also enclose Departmental Receipt No. 26148 for the 50 cent recording fee.

We are writing Mr. Townsend by this same mail calling attention to the fact that proofs are due on this Permit on or before October 3, 1953.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:pj
Enc.
cc: Mr. Everett Townsend

R-861

August 21, 1953

Re: Permit No. R-861

Leonard E. Hayes
Marsing
Idaho

Dear Madam:

We have an assignment of Permit No. R-861 from Cecil R. Hayes to Everett Townsend notarized by you on August 21, 1953.

Since this assignment is signed only by Cecil R. Hayes, we assume that he is a single man otherwise his wife would have to join in with him in the assignment. If such is the case, will you please so indicate in your acknowledgment which we return herewith.

Very truly yours,

Edw. A. ...
State Reclamation Engineer
By

Chief Clerk

A:pj
Enc.
cc: Mr. Cecil R. Hayes

✓
August 19, 1953

RE: Permit No. R-861

Mr. Cecil R. Hayes
Marsing
Idaho

Dear Mr. Hayes:

We enclose herewith form of assignment to be executed by
your transferring Permit No. R-861 to Mr. Everett Townsend.

This assignment should have been enclosed in our letter
of August 6th and we are sorry that it was over-looked.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:pj
Enc.

R-861



LEN B. JORDAN
GOVERNOR

STATE OF IDAHO
DEPARTMENT OF RECLAMATION

MARK R. KULP, STATE RECLAMATION ENGINEER

BOISE

August 7, 1953

RE: Permit No. R-861

Mr. Cecil R. Hayes
Marsing
Idaho

Dear Mr. Hayes:

We have your letter of August 6, 1953, returning notice of proofs due on permit No. R-861 with the notation that you have sold your ranch to Mr. Everett Townsend of Jordan valley and inquire whether he can go ahead and make the proofs.

It will be alright for him to make the proofs, but the enclosed form of assignment should be executed by you transferring your interest to Mr. Townsend, the recording fee for which is \$.50 *cents*

We are sending a copy of this letter to Mr. Townsend together with the papers in regard to making the proofs.

very truly yours,

MARK R. KULP
State Reclamation Engineer
BY

Jeanne L. Anderson
Chief Clerk

A:pj
CC: Mr. Everett Townsend

111 Marsing
Aug 17. 53

Dear Sir

I have not rec. any intlosed
form of assignment with this
letter.

Cecil R. Hayes
Marsing Ida,

RECEIVED
AUG 18 1953
Department of Reclamation

R. 161

Find inclosed 50¢ for
Recording

R-861

August 12, 1903

Re: Permit No. H-861

Mr. Cecil H. Hayes
Marsing
Idaho

Dear Mr. Hayes:

I acknowledge receipt of your check for the 50 cent
fee for recording assignment of Permit No. H-861 to Everett
Toumard, but so far we have not received the assignment.

Very truly yours,

Walter R. ...
State Reclamation Engineer
Idaho

Chief Clerk

W:pfj

August 6, 1953

RE: Permit L-861

Mr. Cecil M. Hayes
Marsing
Idaho

Dear Mr. Hayes:

We have your letter of August 6, 1953, returning notice of proofs due on Permit No. L-861 with the notation that you have sold your ranch to Mr. Everett Townsend of Jordan Valley and inquire whether he can go ahead and make the proofs.

It will be alright for him to make the proofs, but the enclosed form of assignment should be executed by you transferring your interest to Mr. Townsend, the recording fee for which is .50 *cents*

We are sending a copy of this letter to Mr. Townsend together with the papers in regard to making the proofs.

Very truly yours,

WILLIAM A. BULL
State Reclamation Engineer
by

Chief Clerk

Wipj
cc: Mr. Everett Townsend

Marsing Ida
Aug 6, 53
Department of Reclamation

Dear Sir.
In regard to your letter of
August 1st. 1953.

I sold my Ranch and
I am wondering if the
new owner can go ahead
and make final Plot of
the Reservoir.
His address is

Everett Townsend
Jordan Valley Or.

Yours Truly

Cecil R. Hayes
marsing
Ida

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

Mr. Cecil R. Hayes
Jordan Valley
Oregon

BOISE

August 1, 1953

Dear Sir:

Under the terms of your permit No. R-861 you are required to complete your diversion works and make proof of beneficial use on or before October 3, 1953.

We enclose herewith a blank affidavit to be filled out, sworn to by you before a Notary Public or Justice of the Peace, and returned to this office on or before the above date, or within ten days thereafter, for the purpose of making proof of completion under the permit. Upon receipt of this affidavit in this office, provided the same satisfactorily shows the Completion of the Works substantially in accordance with the terms of the permit, together with a fee of \$5.00, a Certificate of Completion of Works will be issued to you.

We also enclose blank notice for proof of application of water to Beneficial Use under this permit, which should be filled out and returned to this office at least forty (40) days before the date upon which you wish to make proof. The proof must be submitted before a Notary Public or other officer authorized by law to administer oaths. The date for proof as set out in your permit, is October 3, 1953, and if proof is submitted subsequent to said date, your priority will be brought down a length of time equal to the time elapsing between the date proof should have been made and the date proof is actually made.

Very truly yours,

MARK R. KULP

State Reclamation Engineer

R 861

✓
September 9, 1953

RE: Permit No. R-861

Mr. Cecil R. Hayes
Jordan Valley
Oregon

Dear Mr. Hayes:

We enclose approval of the State Reclamation Engineer of your application for extension of time for completion of works under Permit No. R-861 to October 31, 1953.

This should be attached to the original permit, of which it now forms a part.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:fg
Enc.

Permit No. R-861

Application for Extension of Time FOR COMPLETION OF WORKS

Cecil R. Hayes of Jordan Valley,

State of Oregon, being first duly sworn, upon his oath deposes and says:

He is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho
No. R 861

Under the terms and conditions of said permit, construction work thereunder was required to be
completed by Oct. 31, 19 52.

That he has heretofore performed the following work described under said permit

Raised Dam 6 feet, earth construction. Put in Spill-way
12 feet wide and 8 feet high. Open three feet from
the bottom of the dam with 2 head gates to controll
water.

costing \$ 1200.00

That he is unable to complete the remainder of the work within the required time, for the following reasons, to-wit:

Lack of Funds and other work to be done at this time.

WHEREFORE, He asks that the ~~Commissioner of Reclamation~~ State Reclamation Engineer extend the time for the completion of works under said permit to Oct. 31, 19 53

Subscribed and sworn to before me this 26th day of August, 19 52

My commission expires Sept 12, 1955 for Oregon, Residing at Jordan Valley, Notary Public.

Date of receipt at office of Department of Reclamation Aug. 28-1952

STATE RECLAMATION ENGINEER
APPROVAL OF ~~COMMISSIONER OF RECLAMATION~~
State Reclamation Engineer

I, Mark R. Kulp, ~~Commissioner of Reclamation~~ of the State of Idaho, hereby extend the time for the completion of construction work under Permit to Appropriate the Public Waters of the State of Idaho No R-861 to

October 31, 19 53

Witness my hand this 29th day of August, 19 52

Mark R. Kulp
State Reclamation Engineer

Jordan Valley Area
Aug. 19, 52

Permit no. R. 861

Department of Reclamation
Dear Sir.

I would like to get extension
of time to make proof on
Reservoir till next year.

RECEIVED

AUG 20 1952

Department of Reclamation

Yours truly
Cecil R. Hayes
Jordan Valley
Aug.
R 861

August 20, 1952

RE: Permit No. R-861

Mr. Cecil R. Hayes
Jordan Valley
Oregon

Dear Mr. Hayes:

In reply to your request of August 19, 1952, we enclose a form of application for extension of time for completion of works on your Permit No. R-861.

This should be executed before a Notary Public and returned to this department for approval and record.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:fg
Enc.

K 8:1

DEPARTMENT OF RECLAMATION

BOISE

August 1, 1952

Mr. Cecil R. Hayes

Jordan Valley, Idaho

Dear Sir:

Under the terms of your permit No. ~~R-861~~ you are required to complete your diversion works and make proof of beneficial use on or before _____

~~October 31, 1952~~.

We enclose herewith a blank affidavit to be filled out, sworn to by you before a Notary Public or Justice of the Peace, and returned to this office on or before the above date, or within ten days thereafter, for the purpose of making proof of completion under the permit. Upon receipt of this affidavit in this office, provided the same satisfactorily shows the Completion of the Works substantially in accordance with the terms of the permit, together with a fee of \$5.00, a Certificate of Completion of Works will be issued to you.

We also enclose blank notice for proof of application of water to Beneficial Use under this permit, which should be filled out and returned to this office at least forty (40) days before the date upon which you wish to make proof. The proof must be submitted before a Notary Public or other officer authorized by law to administer oaths. The date for proof as set out in your permit, is October 31, 1952, and if proof is submitted subsequent to said date, your priority will be brought down a length of time equal to the time elapsing between the date proof should have been made and the date proof is actually made.

Very truly yours,

MARK R. KULP

State Reclamation Engineer

December 12, 1950

Mr. Thomas W. Beaumont
Owyhee County Range Examiner
Box 88
Marsing, Idaho

Dear Mr. Beaumont:

Replying to your letter of November 29, 1950, in the matter of construction of a storage dam by Mr. Cecil R. Hayes, and the confusion which seems to have occurred upon the subject.

The trouble arises through the combination of writers in the matter and the entrance of writer #3 may make matters worse.

However, the letter of November 7 was evidently written without reference to the one of October 17 by Mr. Thompson, which was addressed to the Soil Conservation Service of Marsing, and which stated "Permit will be approved for water right, and construction of reservoir will be subject to the approval of plans and specifications made and approved by you".

This appears to have misled Mr. Hayes into the impression that your Service was expected to provide plans and specifications regardless of the statements of November 7 and November 20 by the Chief Clerk, both of which stated that this Department requires plans and specifications to be furnished by him.

It is immaterial to the Reclamation Department who actually prepares plans and specifications for dams so long as they are adequate as to safety and so forth, but such plans and specifications must be approved by the State Reclamation Department before construction is commenced and it goes without saying that any plans and dams coming within your control will have to meet with your approval.

Trusting that this may serve to clarify the situation, we are

Very truly yours,

MARK R. KULP
State Reclamation Engineer
BY

F. A. Tolman
Office Engineer

FAT:bh
CC: Mr. Cecil R. Hayes

UNITED STATES DEPARTMENT OF AGRICULTURE

Production and Marketing Administration

Owyhee County Committee

Box No. 88 -- Marsing, Idaho

November 29, 1950

Mark R. Kulp
State Reclamation Engineer
Department of Reclamation
Boise, Idaho

Dear Sir:

Today we received from Cecil R. Hayes of Jordan Valley, Oregon a letter containing his application for Permit No. R-861 and a letter of November 7, 1950 in which you require him to provide plans of the dam for your approval.

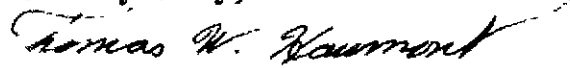
We have on file a letter from you dated October 17, 1950 in which you state that Mr. Hayes has been granted a water right on Deer Creek and that the construction of the dam is subject to our plans and approval. Unfortunately we have no Soil Conservation Service in Owyhee County and, therefore, have no technical engineering assistance. Mr. Hayes was under the impression that you would, through our office, furnish the requirements and make the approval of his dam. With this in mind and except for the spillway, he built it according to our preliminary stake-out.

We are unable to approve this reservoir, however, for three reasons. (1) we cannot approve structures over fifteen feet in height until after approval is granted by the Department of Reclamation; (2) the dam is located on Federal land; and (3) the spillway does not meet our specifications.

To qualify under our program, a spillway must have a minimum of three feet freeboard, or if the dam is over twelve feet high, it must have a minimum freeboard of twenty-five percent of the height not to exceed seven feet. As Mr. Hayes explained, his spillway is but one ft. deep having an exit 4 x 12 ft. at the base of the reservoir with the water flow being controlled by dropping in wooden planks.

I am enclosing for your approval copies of our stake-out report for both the old and the enlarged structure. Mr. Hayes has requested that you notify him of your approval or disapproval of his reservoir.

Yours very truly,



Thomas W. Haumont
Owyhee County Range Examiner

TWH:dlm
Enc.

STAKE-OUT REPORT
for
Proposed Reservoir or Spreader
Dam Construction (Old Dam)

E2-037
(State & County Code)

Cecil R. Hayes

Triangle, Idaho

172-B

(Operator's Name)

(Address)

S $\frac{1}{2}$ Sec. 2 T7S R4W

(Worksheet Numbers)

Reservoir or Spreader Dam (Strike out one not applicable). Location Deer Creek live stream. The maximum height should not exceed 11 feet. The spillway should have not less than 36 ^(live or intermittent) square feet cross-sectional area and should be protected by rock. Stakes have been placed for a slope of 3 to 1 on the upstream, and 2 to 1 on the downstream sides of the dam. This reservoir will provide storage for about none acre feet of water which will cover approximately 4 surface acres. Construction should meet with the following requirements:

Station	Vertical Up- Stream (1)	Distance Down- Stream (2)	Horizontal Up- Stream (3)	Distance Down Stream (4)	Top Width (5)	Base Width (6)	Ave. Height (7)	Area of Section (8)	Area of Average Section (9)	Length (10)	Volume (cubic feet) (11)
1	2.0	2.0	0.0	0.0	8.0	8.0	2.0	16.0	---	---	---
2	2.5	10.0	10.0	22.0	8.0	40.0	6.0	144.0	80.0	16.0	1280.0
3	3.5	11.0	10.0	24.0	8.0	42.0	7.2	160.0	162.0	43.0	6966.0
4	4.5	6.0	10.0	19.0	8.0	35.0	5.2	112.0	146.0	40.0	5840.0
5	0.0	0.0	0.0	0.0	6.0	8.0	0.0	0.0	56.0	16.0	896.0

Column (3) equals 3 times column (1)

RULES FOR COMPUTING ABOVE TABLE

Total Cu. Feet 14982.0Total Cu. Yds 555.0

" (4) equals 2 times column (2)

" (5) equals 6 feet, or maximum height, divided by 5 plus 5, whichever is larger.

" (6) equals column (3) plus column (4) plus column (5)

" (7) equals column (1) plus column (2) divided by 2

" (8) equals column (5) plus column (6) divided by 2 X col. (7)

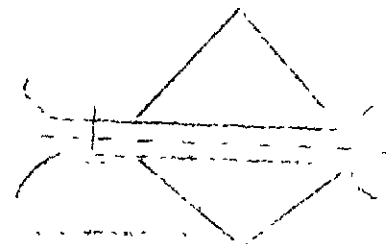
Col. (9) station 2, equals col. (8) station 1, plus column (8) station 2, divided by 2, etc.

Col. (11) equals col. (9) times column (10)

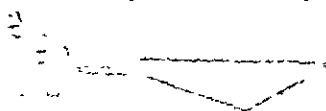
Staked by T. W. Hammond Date 10/13/50

Sketch development showing measurements at each station

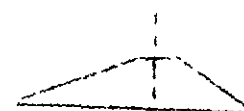
Top view



Long section



Cross-section



STAKE-OUT REPORT
for
Proposed Reservoir or Spreader
Dam Construction (Enlargement)

82-037
(State & County Code)

Cecil R. Hayes Triangle, Idaho 172-B
(Operator's Name) (Address) SW 1/4 Sec. 2 T7S R4W (Worksheet Numbers)

Reservoir or Spreader Dam (Strike out one not applicable). Location Deer Creek: live stream. The maximum height should not exceed 17 feet. The spillway should have not less than 45 square feet cross-sectional area and should be protected by rock. Stakes have been placed for a slope of 3 to 1 on upstream, and 2 to 1 on the downstream sides of the dam. This reservoir will provide storage for about 20 acre feet of water which will cover approximately 4 surface acres. Construction should meet with the following requirements:

* Station	Vertical Up- Stream (1)	Distance Down- Stream (2)	Horizontal Up- Stream (3)	Distance Down Stream (4)	Top Width (5)	Base Width (6)	Ave. Height (7)	Area of Section (8)	Area of Average Section (9)	Length (10)	Volume (cubic feet) (11)
1	0.0	0.0	0.0	0.0	9.0	9.0	0.0	---	---	---	---
2	10.0	12.0	31.5	24.0	9.0	64.5	11.2	356.0	178.0	30.0	5340.0
3	9.5	17.0	26.5	34.0	9.0	71.5	13.2	531.0	444.0	40.0	17760.0
4	8.5	16.0	25.5	32.0	9.0	66.5	12.2	461.0	496.0	43.0	21328.0
5	8.0	8.0	24.0	16.0	9.0	49.0	8.0	232.0	346.0	16.0	5536.0

* Stations shown here are in reverse order from those shown on the old dam.

Column (3) equals 3 times column (1)

RULES FOR COMPUTING ABOVE TABLE

Total Cu. Feet 49964.0

Total Cu. Yds. 1851.0

" (4) equals 2 times column (2)

" (5) equals 6 feet, or maximum height, divided by 5 plus 5, whichever is larger.

" (6) equals column (3) plus column (4) plus column (5)

" (7) equals column (1) plus column (2) divided by 2

" (8) equals column (5) plus column (6) divided by 2 X col. (7)

Col. (9) station 2, equals col. (2) station 1, plus column (8) station 2, divided by 2, etc.

Col. (11) equals col. (9) times column (10)

Total cubic yards in new dam; 1851.0

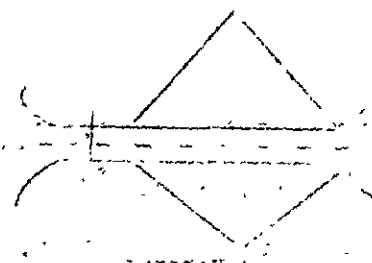
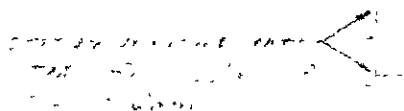
Total cubic yards in old dam; 555.0

1296.0 cubic yards enlargement.

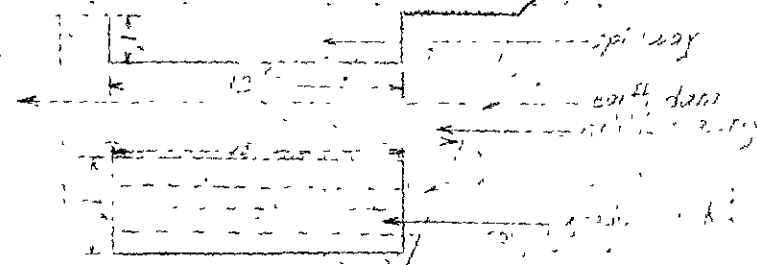
Staked by T. W. Haumont Date 10/13/50

Sketch development showing measurements at each station

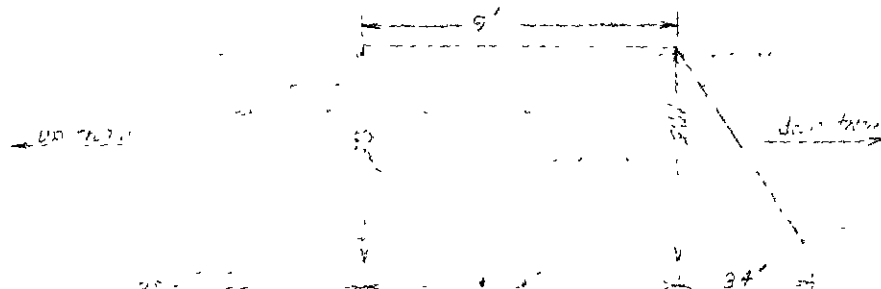
Top view



Long section



Cross-section of the structure (see sketch #3)



DESIGN CRITERIA FOR EARTH FILL IRRIGATION
WATER STORAGE DAMS IN IDAHO
Requiring State Supervision

The following design limitations will be used for all earth fill irrigation water storage dams designed for installation in Idaho.

Top Widths

Relation of top widths to height of dam shall be as follows subject to modification

HEIGHT		TOP WIDTH	
10	Feet	~~10~~	Feet
20	"	12	"
30	"	14	"
40	"	18	"
50	"	20	"
60	"	22	"
65	"	22	"

If the top of the dam is to be used as a roadway, the minimum requirement should allow at least a 2 foot compacted shoulder on each side of the traveled way.

Side Slopes

Upstream	3:1	) Minimum
Downstream	2:1	

Cutoff Trenches or Walls

Cutoff trenches will be used to bond the fill through relatively pervious material to an impervious stratum or zone. The bonded area will extend up the abutments to the maximum high water elevation. Cutoff trenches will be wide enough to allow the free movement of excavation and compaction equipment.

Cutoff walls will be used to bond fills to smooth rock surfaces in a similar manner as cutoff trenches and they shall be entrenched in the rock to a depth at least $1/2$ the width of the cutoff wall. Concrete cutoff walls be doweled into the rock a minimum of 8 inches, with a maximum spacing of 18 inches for $3/4$ inch steel dowels. Cutoff walls will have a maximum height of 3 feet perpendicular to the rock surface and will be battered 1:12.

2 8/15/1

Outlet Conduits

Outlet conduits must be laid on a firm stable foundation and will have a minimum inside diameter of 12 inches. They will be of reinforced concrete or of metal pipe encased in concrete, and will be poured with a continuous seal between the concrete and the trench. Asphalt dipped, or other metal pipe will not be acceptable unless they are encased in concrete.

Cutoff collars will be used to increase the length of flow along the conduit by approximately 20%. They shall extend no more than a maximum of 2 feet beyond the outside of the conduit. They will be battered 1:12.

Gates

All conduits will be gated on the upstream end, with either a vertical or an inclined gate.

All top trash racks will be sloping towards the reservoir, and at least one of the sides of the inlet structure will also be open. Trash racks for dams not over 15 feet in height should be designed so they can be cleaned with a long handled rake. If fish screens are desired they must be placed over the trash rack and must be removable for cleaning.

All conduits with submerged outlets will be vented. All outlet conduits 12" or more in size, whether submerged or not, will be vented, when there will be a head of 10 ft. or more on the gate.

All gate stem pedestals will be made of concrete.

Riprap

All structures will have riprap on the upstream slope for the top of the dam down at least one half the distance to the toe of the slope when so determined by the design engineer. If the upstream face of the dam is not pervious, a 6" layer of gravelly material should cushion the riprap. When riprap is not continuous to the toe of the dam, the unripped section will be benched to support the riprap.

Spillway

All spillways must be stabilized to the discharge flow through the use of concrete, masonry, riprap or sod, as directed, if not constructed in resistant rock.

Wherever possible the spillway should be constructed independent of the dam structure. It shall lead the water far enough away from the dam so that it will not endanger the structure.

The handbook runoff tables will be satisfactory as a guide to spillway design, but analysis must be made of local conditions to supplement this information. The watershed, and runoff analysis must accompany the plans and specifications.

On dams 30 ft. or more in height, consideration should be given to placing a rock section on the downstream slope between 1-5/4:1 and 2:1.

Cutoff Trenches and Walls

Minimum height of concrete cutoff wall to be 3 ft.

Outlet Conduits

Outlet conduits must be laid on a firm stable foundation and will have a minimum inside diameter of 12 inches. They will be of reinforced concrete or of metal pipe encased in concrete, and will be poured with a continuous seal between the concrete and the trench.

Asphalt dipped or other metal pipe will not be acceptable unless they are encased in concrete.

Cutoff collars will be used to increase the length of flow along the conduit by 20%. They shall extend a minimum of 2 feet outside the conduit for dams up to 30 ft. in height and a minimum of 3 feet for dams above that height.

It is desirable to have the outlet conduit 20 inches or more in diameter for dams 30 ft. or more in height.

Riprap

All dams must be protected from wave action and the design engineer will determine whether or not rock riprap will be necessary.

Where rock riprap is used it will cover at least the upper 2/3 part of reservoir slope. The riprap will have a minimum thickness of 2 ft., and if the slope surface is not pervious, the riprap will be cushioned by a 12" layer of gravelly material. When the riprap is not continuous down the entire slope it shall be supported by a bench on the slope.

Toe Drains

Where necessary for toe drainage.

Additional Requirements for Dams Requiring Approval State Engineer's Office.*

Geological Reports

All plans and specifications will include a geological report covering the foundation conditions, quality of fill material, cutoff requirements and compaction requirements.

Construction Specifications

All plans must be accompanied by detailed construction specifications covering each item of construction when they are sent to the regional office of the U.S. Soil Conservation Service, or the State Irrigation Engineer for approval and completion.

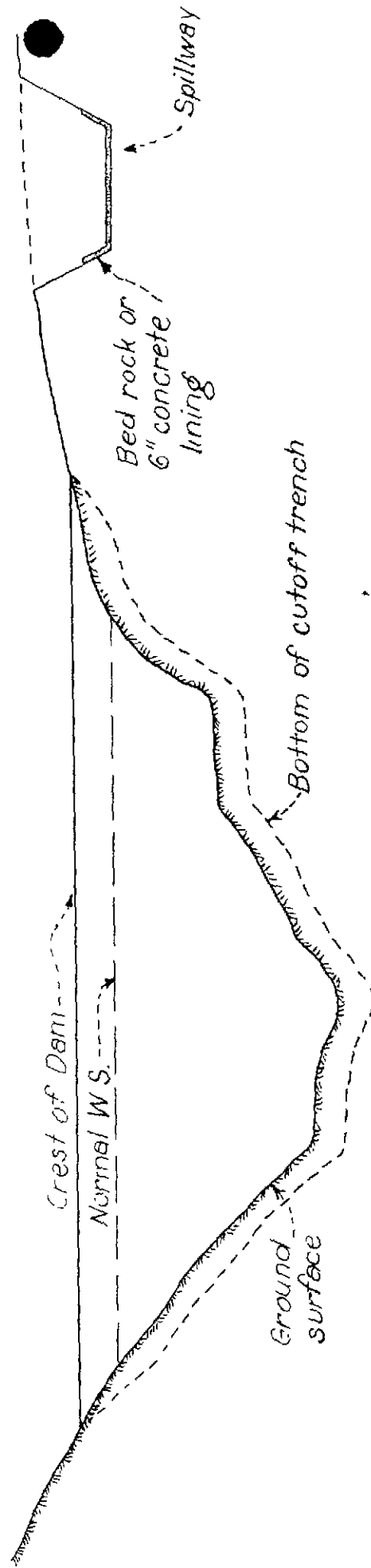
p. 86

Inspection Reports

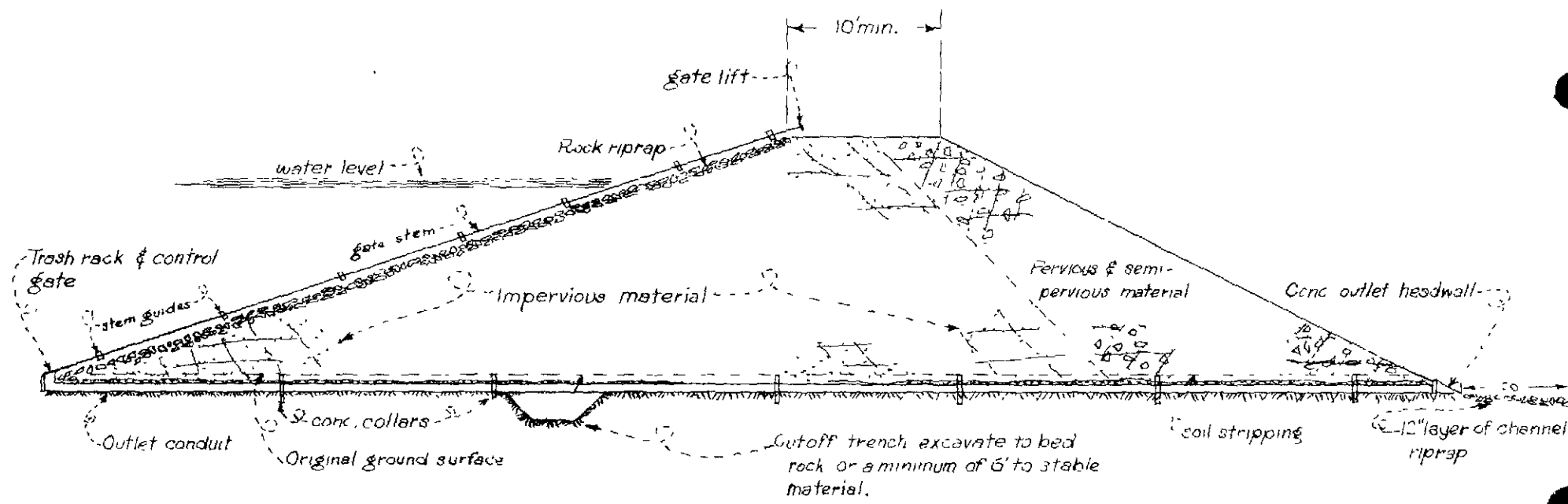
It is the responsibility of the district conservationist to see that each dam has satisfactory inspection during construction.

Two copies of inspection Form 1-7-EDC with any necessary supplemental information will be forwarded to the Regional Engineer's Office after each inspection during construction. One of these copies will be sent to the State Engineer's Office.

*Refer to Chapter 1 of the Engineering Handbook.



TYPICAL PROFILE OF DAM
AND SPILLWAY



TYPICAL EARTH DAM
DESIGN

November 20, 1950

Re: Permit No. R-861

Mr. Cecil R. Hayes
Jordon Valley, Oregon

Dear Mr. Hayes:

This morning's mail brings us a form letter from the Production and Marketing Administration, enclosing your Permit No. R-861 and our letter of November 7, 1950, transmitting this Permit to you.

Our letter bears a notation from you on the back "Please send duplicate of these papers to Department of Reclamation".

We do not understand what this is all about, as what we require is duplicate plans and specifications to be approved by the State Reclamation Engineer before construction is commenced on your reservoir.

We return Permit No. R-861 and office letter of November 7, 1950, herewith.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:bn
Enc.

CC: Mr. E. H. Horstman, Chairman
Owyhee County PMA Committee

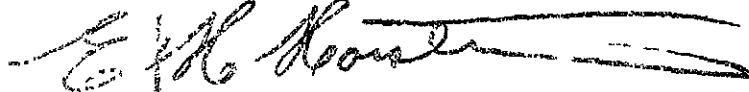
6. 24

UNITED STATES DEPARTMENT OF AGRICULTURE
Production and Marketing Administration
Owyhee County Committee
Box No. 88 -- Marsing, Idaho

Dear Sir:

Enclosed you will find material which may prove of interest
or value to you.

Yours very truly,

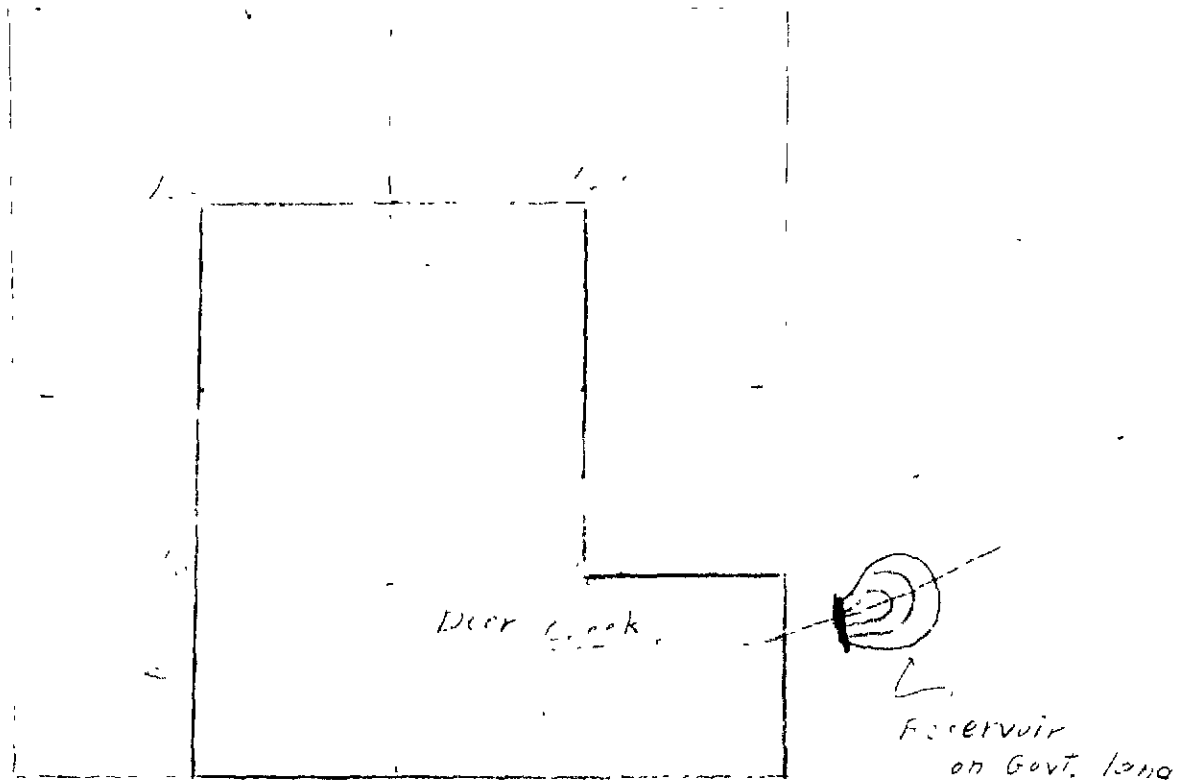


E. H. Horstman, Chairman
Owyhee County PMA Committee

RHH:wlm
Enclosures:

R-861

Owner: Cecil H. Hayes
 Location: T. 1. S. R. 1. W.
 Section: 16 (S. 1. 2. 3. 4.)



Size: 20 acre feet (approx.)

Capacity: 4 acres

Depth: 17 feet

Top: 1.9 feet (1.9 feet from base)

Bottom: 11.5 feet (top of base)

Outlet: 12 feet wide, 1 foot high, 1 foot deep at base
 4 feet deep, 6 feet wide

November 7, 1950

Re: Permit No. R-861

Mr. Cecil R. Hayes
Jordon Valley, Oregon

Dear Mr. Hayes:

We enclose Permit No. R-861, together with Departmental Receipt No. 22743 for the \$5.00 filing fee.

Your attention is directed to the limitations and conditions as given on the fourth page under approval of the State Reclamation Engineer, but before construction is commenced, it will be necessary for you to furnish this Department with duplicate plans and specifications for approval by the State Reclamation Engineer.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:bn
Enc.

R-861

October 17, 1950

Soil Conservation Service
Marsing, Idaho

Gentlemen:

This is to certify that Mr. Cecil R. Hays has filed Application for Permit to Construct a Reservoir and Store and Appropriate the Public Waters of the State of Idaho to the amount of twenty (20) acre feet, reservoir to be constructed on Deer Creek in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 2, Township 7 South, Range 4 West, B.M., Owyhee County.

Permit will be approved for water right, and construction of reservoir will be subject to the approval of plans and specifications made and approved by you .

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

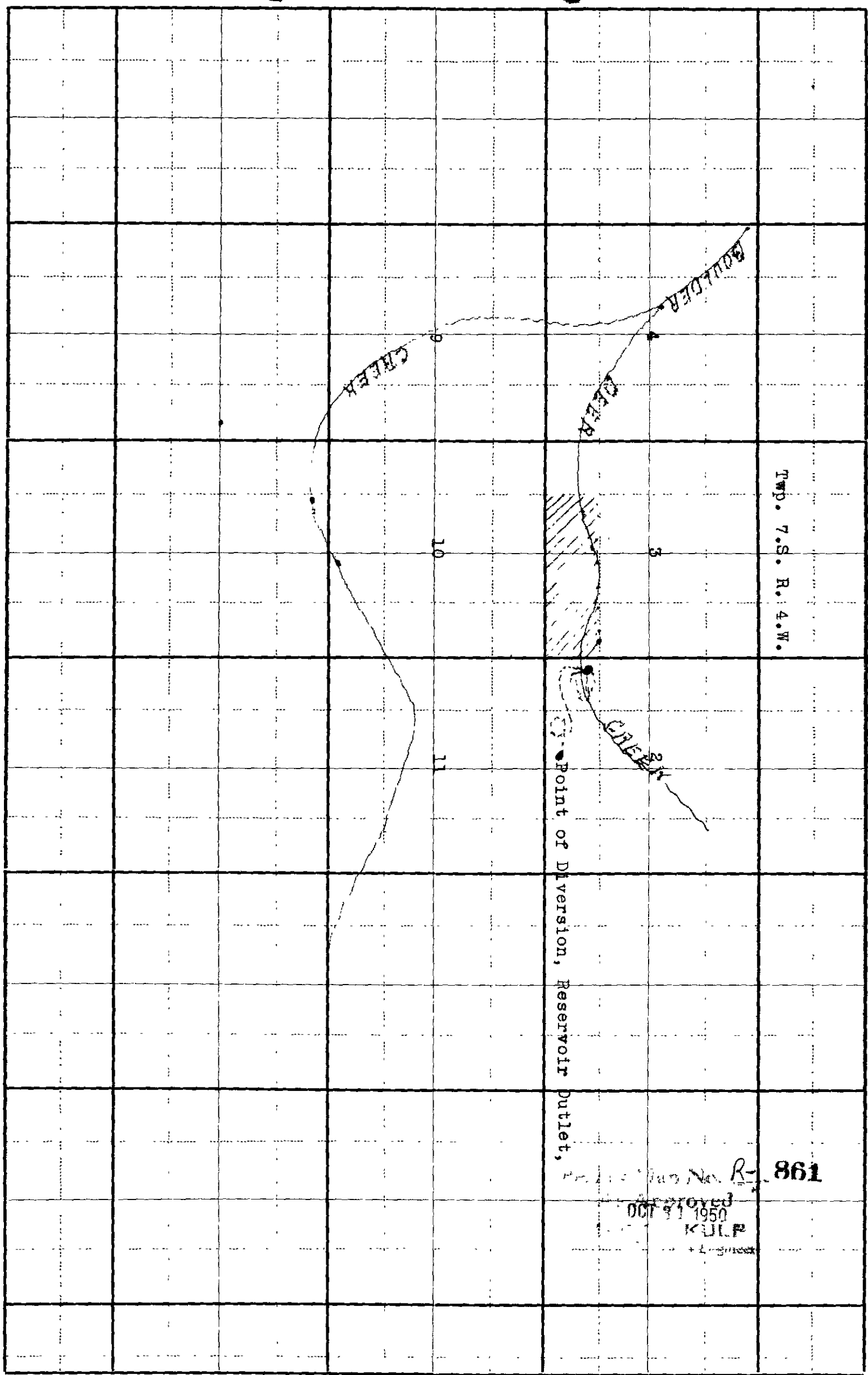
Roy W. Thompson
Supervisor of Water Distribution

RWT:bh

R. 8161

NAME OF APPLICANT Carl R. Hays,

Form No. 0



Approved
OCT 31 1950
KULP
+ Engineer

861

SCALE: 2 INCHES EQUAL 1 MILE. DRAW PLAN IN INK.

8-361

NOTICE FOR PUBLICATION

**NOTICE OF PROOF
APPLICATION OF WATER
TO BENEFICIAL USE**

Notice is hereby given that at 10:30 A. M. on the 31st day of October, 1953, at Homedale, County of Owyhee, State of Idaho, before Emma Henry, Notary Public, proof will be submitted of the application to beneficial use of 20 acre feet per annum of the waters of Deer Creek in accordance with the terms and conditions of Permit No. R-861 heretofore issued by the Department of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are Everett Townsend, Jordan Valley, Oregon.

The use to which said water has been applied is Irrigation and domestic purposes.

The amount applied to beneficial use is 20 acre feet per annum.

The place where said water is used ~~is 22 1/4, 27 1/4, 3 1/4, 35 1/4, 36 1/4~~

~~Section 8, Township 7 South, Range 4 West, T. M.~~

The name of the canal or ditch or other works by which said water is conducted to such place of use is: No Name.

The right to take water from such works is based upon Permit No R-861.

The source of supply from which such water is diverted is Deer Creek

The date of priority which said user is prepared to establish is October 17, 1953.

R-861
MARK R KULP,

State Reclamation Engineer
Pub Oct. 8 - Oct. 29, 1953

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tion 3, Township 7 South, Range 4 West, B. M.

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MARK R. KULP,
State Reclamation Engineer
Pub. Oct. 8, Oct. 29, 1953