

State of Idaho

License and Certificate of Water Right

Water License No. 22050Amount 1.4 second feet

Water District No. _____

Priority April 23, 1951

THIS IS TO CERTIFY that ANTHON H. EDWARDS

of Samuels, Idaho, made application for a permit to appropriate the

public waters of the State of Idaho, dated April 23, 1951; that Permit No. 22050

was issued under said application; that Certificate of Completion of works, with a carrying capacity of

1.4 second feet, was issued thereunder on April 26, 1954, showing that said works

were completed on the 22nd day of April, 1954; and that on the 23rd

day of April, 1955,

ANTHON H. EDWARDS

of Samuels, State of Idaho

, made proof to the satisfaction of the

State Reclamation Engineer

of Idaho, of the right to use the waters of Grouse Creek

, tributary of

, for the purpose of irrigation

, under Use Permit No. 22050

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 5625, on the 30th day of November, 1955;

The right hereby confirmed dates from April 23, 1951;

The Point of Diversion is located

in the SW 1/4 SE 1/4, Sec. 35, Tp. 59 N., R. 1 W., B. M. Bonner 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 1.4 cubic feet per second.

Description and location of use:

Twp.	Range	Sec.	Forty-acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
59 N.	1 W.	35	SW 1/4 SW 1/4	40	40
			SE 1/4 SW 1/4	40	30
			Number of Acres Actually Irrigated - - - -		
					70

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 November, 1955.

MARK R. KULP

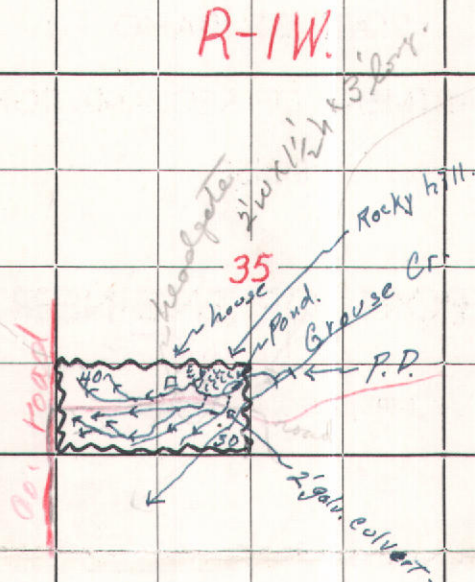
State Reclamation Engineer.

(SEAL)

TO SAMUELS ON N.S. HWY.

R-1W.

T.
59
N.

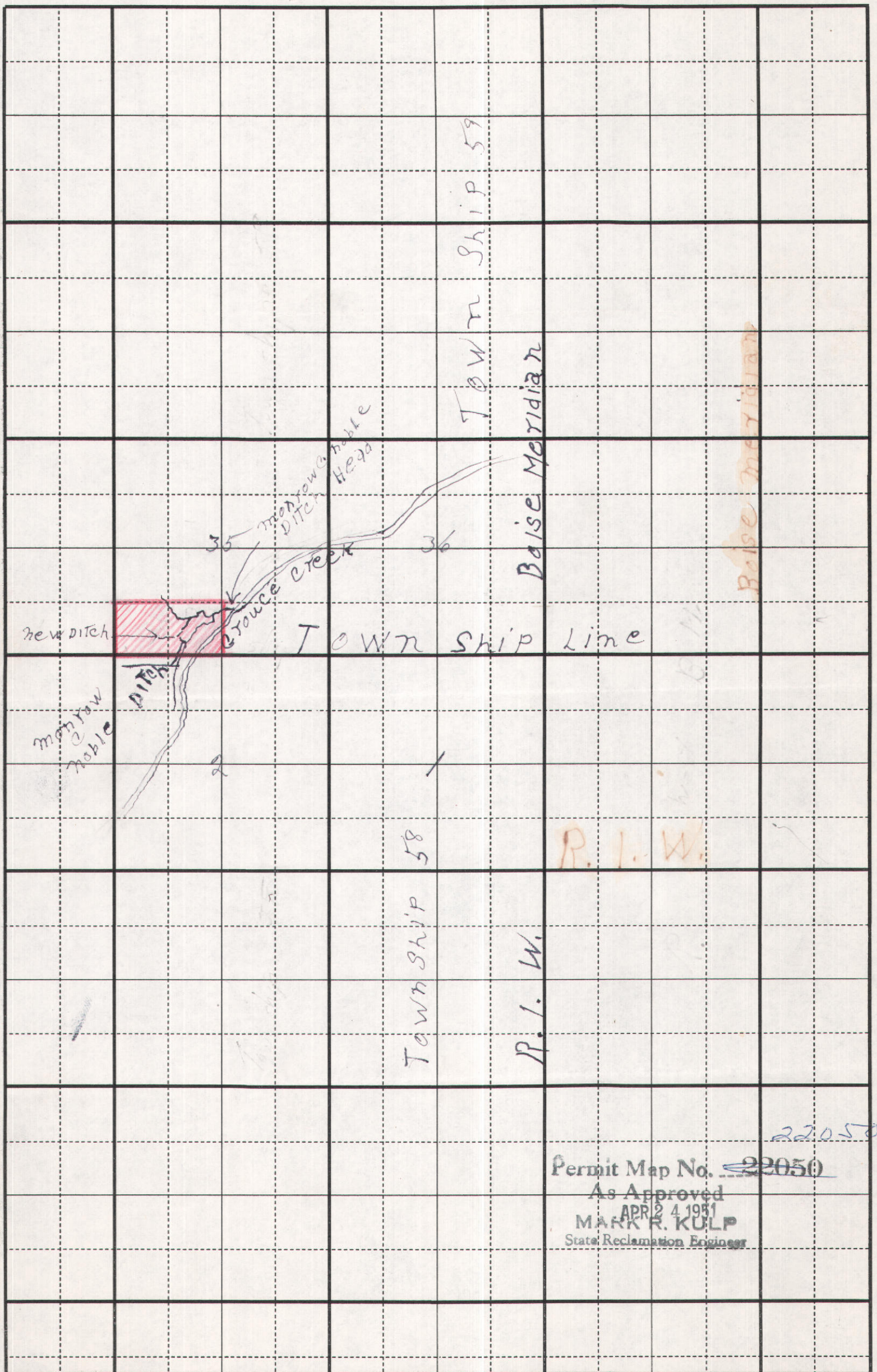


Subdivisions = 2

Area = 70 acres.

Q = 70 inches.

Ruth F. Edwards



Permit Map No. 22050
 As Approved
 APR 24 1951
 MARK R. KULP
 State Reclamation Engineer

State of Idaho

License and Certificate of Water Right

Water License No. 22050

Amount 1.4 second feet

Water District No.

Priority April 23, 1951

THIS IS TO CERTIFY that ANTHON H. EDWARDS of Samuels, Idaho, made application for a permit to appropriate the public waters of the State of Idaho, dated April 23, 1951; that Permit No. 22050 was issued under said application; that Certificate of Completion of works, with a carrying capacity of 1.4 second feet, was issued thereunder on April 26, 1954, showing that said works were completed on the 22nd day of April, 1954; and that on the 23rd day of April, 1955,

ANTHON H. EDWARDS of Samuels, State of Idaho, made proof to the satisfaction of the State Reclamation Engineer of Idaho, of the right to use the waters of Grouse Creek, for the purpose of irrigation, under Use Permit No. 22050 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 5625, on the 30th day of November, 1955;

The right hereby confirmed dates from April 23, 1951;

The Point of Diversion is located in the SW 1/4 SE 1/4, Sec. 35, Tp. 59 N., R. 1 W., B. M. Bonner 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 1.4 cubic feet per second.

Description and location of use:

Twp.	Range	Sec.	Forty-acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
59 N.	1 W.	35	SW 1/4 SW 1/4 SE 1/4 SW 1/4	40 40	40 80
Number of Acres Actually Irrigated -				- - -	70

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 November, 1955.

MARK R. KULP
State Reclamation Engineer.

(SEAL)

Nº 22050
96 - 2183

APPLICATION FOR PERMIT
To Appropriate the Public Waters of the State of Idaho

APPLICATION No. 29780
PERMIT No. 22050
DISTRICT No.

1. Name of Applicant: ANTHON H. EDWARDS

Postoffice address: Route 1, Samuels

County: Bonner

State: Idaho

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 applicant are:

- (a) Cash on hand:
- (c) Bonds to be issued:

- (b) Treasury stock:
- (d) Other resources:

2. Quantity of water claimed: 1.4 cubic feet per second.

3. Source of water supply: Grouse Creek which is a tributary of Pack River, thence Lake Pend Oreille

4. Location of point of diversion: 350 feet Southeasterly ~~feet distant~~ from the N. E. corner of SE $\frac{1}{4}$ SWP of Section 35, T. 59 N., R. 1 W., B. M., and is in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 35, T. 59 N., R. 1 W., B. M., County of Bonner

5. Water is to be used for Irrigation

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

(a) Point of use of water: feet distant from corner of Section
T. , R. , B. M., in the of Section , T. , R. , B. M.

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

(c) Water is to be returned to at a point feet
distant from the corner of Section , T. , R. , B. M., in the
of Section , T. , R. , B. M.

7. Estimated cost of works: \$ 100.00

8. Kind of works: Enlargement of $\frac{1}{4}$ mile of ditch now in use.

9. Height of dam 2 feet; length of dam at top 40 feet; length of dam at bottom 35 feet; material used in dam: Loose boulder rock- straw, etc.

10. Size of headgate: Width 6 feet; height 3 $\frac{1}{2}$ feet.

11. Ditch: Width at bottom 4 $\frac{1}{2}$ feet; width at water line 5 feet; depth of water 1 feet;
dimensions of flume:

Diameter of pipe inches; length of conduit 1/4 miles.

Average grade per mile 6.5 feet.

12. The time required for the completion of such work is One (1) years.

13. The time required for the complete application of the water to the proposed use is One (1) additional years.

14. The land to be irrigated is described in the following tabulation: See remarks.

15. Existing water rights and/or valid permits appurtenant to the lands to be irrigated are: None known

16. (a) Is reservoir to be used? If so, fill in (b) and (c) below:
(b) Name of Reservoir and number of Storage Permit:
(c) Date of filing of Application for Storage Permit and Name of Applicant:

BE IT KNOWN THAT The undersigned hereby makes application for permit to appropriate the public water of the State of Idaho as herein set forth.

ANTHON H. EDWARDS *Applicant.*

By

Agent.

Date of first receipt at Department of Reclamation: 9:00 A. M. April 23, 1951

Returned to applicant for correction:

Corrected application received:

Approval of State Reclamation Engineer

The number of this permit is 22050

Recorded in Book 79 Page 22050 Approved April 24, 1951

This is to certify that I have examined the within application for a permit to 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 June 24, 1951 and to continue diligently and uninterruptedly to completion, unless temporarily interrupted by circumstances over which permit holder has no control.

One-fifth of the work above specified to be completed on or before October 24, 1951

The whole of said work to be completed on or before April 24, 1952

Beneficial use of water appropriated in accordance herewith, to be made on or before April 24, 1953

WITNESS My hand this 24th day of April, 1951

MARK R. KULP
State Reclamation Engineer.

IN TESTIMONY WHEREOF, We, LEN JORDAN, Governor of the State of Idaho,

and IRA H. MASTERS, Secretary of State of the State of 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 24th

day of April, 19 51

STATE OF IDAHO

Countersigned:

(SEAL)

By LEN JORDAN

Governor.

By IRA H. MASTERS

Secretary of State.

REMARKS: I purchased this land with the understanding that a water filing had been made by Monroe C. Noble when he made a purchasing contract with the Humbird Lumber Co., but to date I have been unable to find any record of such filing. An old ditch had been made some years ago and the present ditch head is used by Eldred H. Edwards, owner of the NW $\frac{1}{4}$ Section 2, Twp. 58 N., range 1 W., B.M. and George W. Langford, owner of the N $\frac{1}{2}$ SW $\frac{1}{4}$ Section 35, Twp. 59 N., Range 1 W.B.M. The ditch head changes as the course of the creek changes due to high water.

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 $\frac{1}{4}$	
59 N.	1 W.	35									40	40							80

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. 22050 to April 24, 1954.

Witness my hand this 9th day of June, 1952.

MARK R. KULP
State Reclamation Engineer

Permit No. 22050
CERTIFICATE OF COMPLETION OF WORKS

TO ALL WHOM IT MAY CONCERN:

This is to certify that ANTHON H. EDWARDS of Route 1, Samuels, County of Bonner, and State of Idaho, the holder of Permit No. 22050, issued upon Application No. 29780 bearing date of priority of April 23, 1951, authorizing the diversion of 1.4 second feet of the waters of Grouse Creek, a tributary of Pack River, thence Lake Pend Oreille, County of Bonner, State of Idaho, for irrigation purposes, has fully complied with the provisions of the laws of the State of Idaho relating to the proof of completion of the works of diversion set out and described in said Permit; that said works are adequate for diverting and conveying to the place of intended use 1.4 second feet of the waters of Grouse Creek; that the point of diversion of said waters is located 350 feet Southeasterly from the Northeast corner of the SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 35, Township 59 North, Range 1 West, B.M., and in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of said Section; and that the lands proposed to be irrigated by the use of said water are described as follows, to-wit: S $\frac{1}{2}$ SW $\frac{1}{4}$ Section 35, Township 59 North, Range 1 West B.M.

Witness my hand this 26th day of April, A.D. 1954.

MARK R. KULP
State Reclamation Engineer

Proof of completion of works made April 22, 1954

Certificate of Completion of Works issued April 26, 1954

LICENSE ISSUED FOR 1.4 SEC. FT.

P. 5625

November 6, 1964

Re: License No. 22050

Anthon H. Edwards
Sandpoint, Idaho

Dear Mr. Edwards:

Enclosed is copy of Water License No. 22050
which you requested by letter and Receipt No. 32526.

Your check in blank has been completed in
the amount of \$1.00, fee for the copy.

Very truly yours,

RALPH W. THOMAS, Deputy
State Reclamation Engineer

RT:ew

22050

RECEIVED

NOV 5 1964

22050

Department of Reclamation

Sandpoint Idaho
Nov. 4, 1964

Dept. of Reclamation;
Boise Idaho.

Dear Sirs;

Some years ago I filed
a water right for land
in Bonner County for
the S $\frac{1}{2}$ of the S. W. $\frac{1}{4}$
of Sec. 35 which when
I sold the property to
Mr George Langford
I transferred the water
to him. He claims I
didn't give him the
certificate of proof
on water.

Since then he wanted
to turn part of the
property over to the
Church of Jesus Christ
of Latterday Saints and
reserve that part which
laid north of the County
Road.

We need the certificate
of proof so we can get
him to transfer that
portion of water write
to the Church of
Jesus Christ of Later-
day Saints.

You will find encls.
a check to fill in to
cover the cost of same.

Thank you
22050) Arthur H. Edwards

December 1, 1955

RE: Permit No. 22050

Mr. Anthon H. Edwards
Route # 2
Sandpoint, Idaho

Dear Mr. Edwards:

We enclose License and Certificate of Water Right issued on Permit No. 22050 confirming your right to the use of 1.4 second feet of water from Grouse Creek with priority of April 23, 1951, and point of diversion in the SW¹/₄SE¹/₄ Section 35, Township 59 North, Range 1 West, B. M., for irrigation of land in the S¹/₂SW¹/₄ of said Section 35.

We also enclose departmental receipt No. 27723 for the \$4.00 License fee.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:cu
Enc.

22050



ROBERT E. SMYLLIE
GOVERNOR

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
MARK R. KULP, STATE RECLAMATION ENGINEER

BOISE

October 14, 1955

RE: Permit No. 22050

RECEIVED
NOV 30 1955
Department of Reclamation

Mr. Anthon H. Edwards
Route 1
Samuels, Idaho

Dear Mr. Edwards:

The report of our field engineer on examination for beneficial use on Permit No. 22050 shows that you have irrigated 70 acres of land in the $S\frac{1}{2}SW\frac{1}{4}$ Section 35, Township 59 North, Range 1 West, B.M. with water from Grouse Creek.

A license can, therefore, be issued for 70 inches or 1.4 cubic feet per second upon receipt of the statutory fee of \$4.00.

Very truly yours,

MARK R. KULP
State Reclamation Engineer

By *Jeanne L. Anderson*
Chief Clerk

22050

A:hll

*Sandpoint Idaho.
Nov. 28, 1955*

*Department of Reclamation
Boise Idaho.*

Gentlemen:

*Kind enclosed \$4.00 for statutory fee
for Permit No. 22050. Resp.
Anthon H. Edwards*

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE

REPORT OF ENGINEER

PERMIT NO. 22050

REPORT ON PROOF OF Beneficial Use

ANTHON H. EDWARDS, Route 1, Samuels, Idaho

1/2 cfs
DRK

app. 1.4 cfs

7.5 acres
2-40's

A hand-drawn map on a grid background. At the top, 'R-1W' is written. Below it, '35' is written. A line labeled 'house' points to a small structure. A line labeled 'Pond.' points to a small pond. A line labeled 'Grouse Cr.' points to a creek. A line labeled 'P.D.' points to a point. A line labeled 'Rocky Hill' points to a hill. A line labeled '2-gate culvert' points to a culvert. A line labeled '40' points to a wavy line representing a road or boundary.

Scale: 2 Inches Equals 1 Mile. Draw Map In Ink.

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

Permit No. 22050

This proof is for Beneficial Use In Water District No. _____1. Name of applicant Anthony H. Edwards, Route 1, Samuels, Idaho2. Source of water supply: Grouse Creek.3. Location of point of diversion: Is in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 35T. 59 N. R. 1 W. County of Bonner

4. Describe works as they exist, giving dimensions and capacities of same: No dam at P.D. just large ditch 6 in. takes out of creek. Has spillway back in to the creek before it crosses first road. Concrete wall & headgate just above road with 24" galv. culvert where water is released for the low ground. A short distance to the west is another (wood) culvert where water is taken across road to high bench on

5. Water is used for: Irrigation. the S. side of road.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):

S $\frac{1}{2}$ SW $\frac{1}{4}$ Section 35, Twp/ 59 North, Range 1 West, B. M.Slitches are all large and carry much more water than amt. of filing.

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

8. What large stream would the water here appropriated finally reach? Ponderay Lake.

Remarks:

Irrig. by gravity
Crops are hay & grain.

This examination was made on the 29 day of Sept., 1955

(Signed)

E. H. Humphrey Examiner.

52050

Anthony H. Edwards
Rt. 1, Samuels, Idaho

Permit No. 22050

Examination for Beneficial Use

County Bonner

35-59N. - 1W.

Q = 1.4 a.c.s.

S = Gravel Creek

P.D. = 350° SE. from N.E. cor. of S.E. 1/4 Sec. 35, T. 59N. - 1W.

See map

farther to many know

Priority = Apr. 23, 1951
S. = Apr. 24, 1951

C/W = 4-26-54

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
OCT 12 1955

Department of Reclamation

at P.D. ditch is 6' w. x 12' to 18' deep
culvert on river side road
is 5' w. x 30' l.
ditch is 4' x 5' w. in bottom
water can flow 6" to 18" deep.
flow quite fast.
It can handle 8 to 10 cfs.

One pipe line way back into
river East side of road
4" w.

Another well way and
ditch there is 24' w.
in west. 12" steel pipe gate
on corner head wall 10' l.
x 8' l. x 4' h. on N. side
of road at East end of place.
Beaver pond 100' x 40' w.
edge of place.

September 16, 1955

RE: Permit No. 22050

Mr. Anthon H. Edwards
Route 1
Samuels, Idaho

Dear Mr. Edwards:

An inspection is required by law on all Permits being brought to license in the State of Idaho.

I intend to make inspection in connection with your Permit No. 22050 either Thursday afternoon September 29 or Saturday morning, October 1st.

Please be prepared to accompany me on this inspection.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

E. N. Humphrey
Deputy State Reclamation Engineer

H:hl1

22050

May 6, 1955

RE: Permit No. 22050

Mr. Anthon H. Edwards
Route 1
Samuels, Idaho

Dear Mr. Edwards:

We are now in receipt of the affidavit of publication in the Sandpoint News-Bulletin which completes your proof of beneficial use on Permit No. 22050.

Before final action is taken in the matter 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 receipted bill for costs of publication which, doubtless, you will wish to keep in your own files.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:hll
Enc.

22050

Affidavit of Publication

STATE OF IDAHO, }
County of Bonner, } ss.

L. E. Pietsch being first duly sworn on
oath deposes and says that he is Publisher
of The Sandpoint News-Bulletin, a weekly
newspaper printed and published at Sandpoint,
Bonner County, Idaho; that the said Sandpoint
News-Bulletin has been continuously and unin-
terruptedly published in said Bonner County
during a period of 18 months or 78 weeks
prior to the first publication of the hereto
attached notice for publication in the case of
Notice of Proof Application of Water
to Beneficial Use; Anthon H. Edwards.

as it was published in the regular and entire issue
of the said paper for a period of Four
consecutive weeks, commencing on the 10th
day of March, 1955, and end-
ing on the 31sts day of March,
1955, and that said notice was published in said
newspaper, and not in supplemental form.

Subscribed and sworn to before me this

15th day of april, 1955

Alice W. Hunt
Notary Public for Idaho,
Residing at Sandpoint, Idaho.

Notice for Publication
NOTICE OF PROOF APPLICATION OF
WATER TO BENEFICIAL USE
Notice is hereby given that at 10:30
A. M. on the 23rd day of April, 1955,
at Sandpoint, County of Bonner, State
of Idaho, before Alice W. Hunt, Notary
Public, proof will be submitted of the
application to beneficial use of 1.4 cubic
feet per second of the waters of Grouse
Creek in accordance with the terms
and conditions of Permit No. 22050
heretofore issued by the State Reclama-
tion Engineer of the State of Idaho.
The name and postoffice address of
the person or corporation holding said
permit are Anthon H. Edwards, Route
1, Samuels, Idaho.
The use to which said water has been
applied is Irrigation.
The amount applied to beneficial use
is 1.4 cubic feet per second.
The place where said water is used,
SW $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 35, Town-
ship 59 North, Range 1 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 E.
H. Edwards, George W. Langford &
Anthon H. Edwards Ditch.
The right to take water from such
works is based upon Permit No. 22050.
The source of supply from which such
water is diverted is Grouse Creek.
The date of priority which said user
is prepared to establish is April 23,
1951.
MARK R. KULP,
State Reclamation Engineer
m10-17-24-31.

RECEIVED
MAY 5 1955
Department of Reclamation

22050

April 30, 1955

RE: Permit No. 22050

Mr. Anthon H. Edwards
Route 1
Samuels, Idaho

Dear Mr. Edwards:

We acknowledge receipt of the depositions of yourself and two witnesses in proof of beneficial use on Permit No. 22050.

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

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:hll

22050

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

Permit No. 22050

Proof of Application of Water to Beneficial Use

Deposition of Holder

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

Ans. Anthon H. Edwards, Route 1, Samuels, Idaho
Farmer, and sawmill employee

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. No.22050, April 24, 1951: Date of priority April 24,1951.

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

Ans. Grouse Creek: Approximately 350 feet Southeasterly from the NE corner of SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec.35.T59N Range 1WBM.

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. If sprinkler irrigation, give number and size of nozzles and operating pressure.

Ans. Open ditch, capable of conveying 4.5 sec.ft. to place of use: name of ditch is E. H. Edwards, George W. Langford, and Anthon H. Edwards Ditch.

Enlargement of $\frac{1}{4}$ mile of ditch now in use.

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 purposes: About 8 acres grain in SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec.35

"	10	"	pasture	"	"	"
"	22	"	Hay	"	"	"
"	15	"	pasture	"	SE $\frac{1}{4}$ SW $\frac{1}{4}$	"
"	13	"	grain	"	"	"

Sandpoint 2 1/2

22050

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. 1.4 cu.ft. per second

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. _____

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

Ans. Used 1.4 cu.ft. per sec. every summer since 1951, flood irrigation.

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) Arthur H. Edwards

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 Sandpoint, County of Bonner, State of Idaho, on this 23rd day of April, A. D. 1955,

Alice W. Hunt

My commission expires February 10, 1959.

22050

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

PERMIT NO. 22050

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. Kenneth D. Roos, age 43, 721 N. Third, Sandpoint, Idaho.

Occupation Carpenter

Ques. 2. Are you acquainted with Anthoⁿ H. Edwards, the holder of Permit No. 22050? How long have you known him and where does he reside?

Ans. Yes. I have known him at least twenty years. He resides in Samuels, Idaho, in the Grouse Creek area.

Ques. 3. Have you read or heard read said Permit No. 22050, 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. Source of supply is Grouse Creek. Place of diversion NE corner SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 35 T.59N Range 1 WBM.
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. Ditch will carry about 4 second feet, and have seen at least this amount being conveyed.

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 purposes. Water been used in SW $\frac{1}{4}$ SW $\frac{1}{4}$ and SE $\frac{1}{4}$ SW $\frac{1}{4}$ said Section 35, irrigating 40 acres in SW $\frac{1}{4}$ SW $\frac{1}{4}$ and 28 acres in SE $\frac{1}{4}$ SW $\frac{1}{4}$.
Natural meadow land

22050

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. Sandy loam
I estimate 1.4 cu.ft. per second required for profitable cultivation.

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. During past three years while passing this farm and visiting I have witnessed the irrigation project

(Signed)

Kenneth H. D. Pross

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 Sandpoint,
County of Bonner, State of Idaho, on this 23rd day of April,
A. D. 19 55.

Alvin J. Hunt

Notary Public.

My commission expires February 10, 1959.

2205-0

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

PERMIT NO. 22050

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 S. Decker, age 57, 405 Lavina, Sandpoint, Idaho

Occupation Electrician

Ques. 2. Are you acquainted with Anthoⁿ H. Edwards, the holder of Permit No. 22050? How long have you known him and where does he reside?

Ans. Yes. Have known him seven years. He resides Grouse Creek, Idaho

Ques. 3. Have you read or heard read said Permit No. 22050, 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. Source of supply Grouse Creek. Place of diversion SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 35 Township 59 North Range 1 WBM.
Open ditch conveys water to place of use.

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. Estimate ditch will safely carry 4 $\frac{1}{2}$ second feet. Have seen about 4 $\frac{1}{2}$ sec.ft. conveyed.

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. SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 35 - 40 acres
SE $\frac{1}{4}$ SW $\frac{1}{4}$ " - 28 acres
Natural meadow land.

22050

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. Sandy top loam, gravel sub-soil
Estimate 1.5 cu.ft. per second required.

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. Since 1951 while visiting Mr Edward's farm I have seen the irrigating activities.

(Signed) George S Decker

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 Sandpoint,
County of Bonner, State of Idaho, on this 23rd day of April,
A. D. 1955.

Alice W. Hunt

Notary Public.

My commission expires February 10, 1959.

22050

Sandpoint, Idaho

March 4, 1955

Gentlemen:

We have received notice of the publication of notice of proof application of water to beneficial use for Anthon H. Edwards, route 1, Samuels, Idaho for the four consecutive weeks of March 10, 17, 24 and 31.

Yours very truly,

SANDPOINT NEWS-BULLETIN

22640

22050

RECEIVED
MAR 7 1955

Department of Reclamation



THIS SIDE OF CARD IS FOR ADDRESS



State of Idaho
Department of Reclamation
Boise, Idaho

J. C. Hume

March 3, 1955

RE: Permit No. 22050

Mr. Anthon H. Edwards
Route 1
Samuels, Idaho

Dear Mr. Edwards:

We have sent to the Sandpoint News-Bulletin, notice for proof of beneficial use to be made on your Permit No. 22050 April 23, 1955, with instructions to publish it once a week for four weeks prior to that date and to send you the affidavit of publication together with statement of costs.

At the time set for proof you should appear before Alice W. Hunt, 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 enclosed depositions.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:hll
Enc.

22050

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

Re: Permit No. 22050

Date: March 3, 1955

Sandpoint News-Bulletin

Sandpoint, Idaho

Gentlemen:

Enclosed you will find notice for publication once a week for four consecutive weeks prior to April 23, 1955 the date set for proof, the expense of the publication to be paid by the applicant, Anthon H. Edwards of Route 1, Samuels, Idaho, 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. KEMP
State Reclamation Engineer
By

Chief Clerk

22050

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

Notice is hereby given that at 10:30 A. M. on the 23rd day of April, 1955,
at Sandpoint, County of Bonner, State of Idaho, before
Alice W. Hunt, Notary Public, proof will be submitted of the
application to beneficial use of 1.4 cubic feet per second of the waters of Grouse Creek
in accordance with the terms and conditions of Permit No. 22050
heretofore issued by the State Reclamation Engineer of the State of Idaho.

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

Anthon H. Edwards - Route 1, Samuels, Idaho

The use to which said water has been applied is Irrigation

The amount applied to beneficial use is 1.4 cubic feet per second

The place where said water is used ~~at Sandpoint, Idaho, and several locations of the lands irrigated~~

SW 1/4, SE 1/4, Section 35, Township 59 North, Range 1 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

E. H. Edwards, George W. Langford & Anthon H. Edwards Ditch.

The right to take water from such works is based upon Permit No. 22050

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

The date of priority which said user is prepared to establish is April 23, 1951

MARK R. KULP

State Reclamation Engineer.

22050

NOTICE TO ACCOMPANY THIS LETTER MUST BE MADE IN DUPLICATE

(Date) February 16, 1955
(P. O.) Samuels Idaho

TO THE STATE RECLAMATION ENGINEER:

Boise, Idaho

Dear Sir:

You are hereby authorized to have the attached notice published at my expense in the
News Bulletin of Sandpoint Idaho published in
the county in which the works are situated.

Arthur H. Edwards

(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.

12050

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

Notice is hereby given that at 10:30 A. M. on the 23 day of April, 1955,
at Sandpoint, County of Bonner, State of Idaho, before
Alice W. Hunt, proof will be submitted of the
application to beneficial use of 1.4 cubic feet per second of the waters of Grouse Creek
in accordance with the terms and conditions of Permit No. 22060
heretofore issued by the State Reclamation Engineer of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are Anthony
H. Edwards. P.O. Samuels Idaho

The use to which said water has been applied is 70 acres

The amount applied to beneficial use is 70 acres

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

Twp. 59N. Range 1W. Section 35 South West $\frac{1}{4}$

S.W. $\frac{1}{4}$ of the S.W. $\frac{1}{4}$ = 40 acres

S.E. $\frac{1}{4}$ of the S.W. $\frac{1}{4}$ = 30 acres.

The name of the canal or ditch or other works by which said water is conducted to such place of use is G.H.
Edwards, George W Langford Anthony H. Edwards ditch

The right to take water from such works is based upon Permit No. 22050

The source of supply from which such water is diverted is Grouse Creek which is
Tributary of Pack River Thence Lake Pend Oreille

The date of priority which said user is prepared to establish is 24 April 1957.

State Reclamation Engineer.

22050

RE: Permit No. 22050

S T A T E O F I D A H O

DEPARTMENT OF RECLAMATION

Boise, Idaho

February 1, 1955

Mr. Anthony H. Edwards
Route 1
Samuels, Idaho

Dear Sir:

We enclose herewith blank notice for proof of application of water to beneficial use under your Permit No. 22050. This notice should be filled out in duplicate and returned to this office at least 40 days before the date upon which you wish to make this proof, in order to allow time for the four weeks' publication required by law.

This 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 not later than April 24, 1955, and if proof is submitted later than said date, your priority will be brought down a length of time equal to the time elapsing between the date the proof is due and the date proof is actually made.

Very truly yours,

MARK R. KULP

State Reclamation Engineer

22050

✓
April 27, 1954

RE: Permit No. 22050

Mr. Anthon H. Edwards
Route 1
Samuels, Idaho

Dear Mr. Edwards:

We enclose Certificate of Completion of Works issued on Permit No. 22050 for the diversion of 1.4 second feet of water from Grouse Creek with point of diversion in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 35, Township 59 North, Range 1 West B.M. for the irrigation of land in the S $\frac{1}{2}$ SW $\frac{1}{4}$ Section 35, Township 59 North, Range 1 West B.M.

We also enclose departmental receipt No. 26623 for the \$5.00 fee paid in connection with completion of works proof.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:hll
Enc.

22050

Permit No. 22050

STATE OF IDAHO
Department of Reclamation

RECEIVED
APR 24 1954
Department of Reclamation

Proof of Completion of Works

AFFIDAVIT OF HOLDER

STATE OF IDAHO

County of Bonner

ss.

Mr. Anthon H. Edwards, being first duly sworn, upon his oath deposes and says:

First: That he is the holder and owner of Permit to appropriate the Public Waters of the State of Idaho, No. 22050, and that his postoffice address is Route 1, Samuels.

State of Idaho

Second: That the name of the stream from which said water is to be diverted is Grouse Creek.

Third: That the point of diversion of said water is 350 feet Southeastly from the N. E. corner of the S. E. $\frac{1}{4}$ S. W. $\frac{1}{4}$ of Section 35, T. 59 N. R. 1 W. B. M.

Fourth: That under the terms and conditions of said permit, construction thereunder was required to be completed by April 24, 1954.

Fifth: That the use for which said water is intended is Irrigation.

Sixth: That on the date above mentioned, the works constructed under said permit were (or were not) fully completed and consisted of the following:

I. Kind of works: Enlargement of $\frac{1}{4}$ mile of ditch
(Reservoir, dam, ditch, flume, pipe or otherwise)

II. Dimensions of work:

(a) Height of dam 2 feet, length of dam at top 40 feet, length of dam at bottom 35 feet. Material used in construction Loose boulder rock, straw, brush, etc.
(State whether wood, earth, stone or concrete)

(b) Capacity of reservoir acre feet.

(c) Size of headgate: Width 6 feet, height $3\frac{1}{2}$ feet.

(d) Conduit ditch width at bottom $4\frac{1}{2}$ feet, width at water line 5 feet,
(State whether ditch, flume or pipe)

feet, depth of water 1 feet; (ditch) diameter of pipe inches, average grade per mile is 6.5 feet. Length of conduit is $\frac{1}{4}$ miles.

Seventh: That said works are capable of conducting to the place of intended use 1.4 second feet of water in addition to that which it is already carrying.

Eighth: That water appropriated under said permit is available for 70 acres of land described as follows: 40 acres in the SW $\frac{1}{4}$, 30 acres in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 35, Twp. 59 N. Range 1 W. B. M.

Ninth: Remarks: That the exact location of the ditch head changes from year to year as the course of the creek changes due to high water in the spring.

Anthon H. Edwards
(Sign Here)

Subscribed and sworn to before me this 22d day of April, 1954

My commission expires April 10, 1967

Notary Public.

22050

State of Idaho
DEPARTMENT OF RECLAMATION
BOISE

INSTRUCTIONS

PROOF OF COMPLETION OF WORKS

Mr. Anthon H. Edwards
Route 1
Samuels, Idaho

Boise, Idaho **February 1, 1954**

Dear Sir:-

Under the terms of your permit No. 22050 you are required to complete your diversion works on or before April 24, 1954. I enclose herewith blank affidavit to be filled out, sworn to by you before a Notary Public or a 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 will be issued to you.

The certificate to be issued under this proof will not give a perpetual right to the use of water for which application was made, as it only confirms the completion of works of a capacity to divert and convey to the place of intended use a certain amount of water. The law requires that another proof be submitted when the water has been fully applied to a beneficial use, at which time license is issued for the amount of water actually in use. Information in regard to this last proof will be furnished on request.

Yours truly,

MARK R. KULP

State Reclamation Engineer

22050

June 9, 1952

RE: Permit No. 22050

Mr. Anthon H. Edwards
Samuels
Idaho

Dear Mr. Edwards:

We enclose approval of the State Reclamation Engineer of your application for extension of time for completion of works on Permit No. 22050 to April 24, 1954.

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.

22050

Permit No. 22050

Application for Extension of Time

FOR COMPLETION OF WORKS

Anthion H. Edwards, of Samuels

State of Idaho, 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. 22050

Under the terms and conditions of said permit, construction work thereunder was required to be completed by April 24, 1952

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

Completed main ditch to entrance of fields, but all lateral ditches not completed.

costing \$ 100.00

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

Lack of finance. Have to work out part time to make living and meet obligations, and cannot work full time on farm.

WHEREFORE, He asks that the Commissioner of Reclamation extend the time for the completion of works under said permit to April 24, 1954

Subscribed and sworn to before me this 6th day of June, 1952

My commission expires August 20, 1953

Date of receipt at office of Department of Reclamation June 9 - 1952

STATE RECLAMATION ENGINEER
APPROVAL OF COMMISSIONER OF RECLAMATION

I, Merk 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. 22050 to

April 24, 1954

Witness my hand this 9th day of June, 1952

Mark R. Kulp
State Reclamation Engineer

22050

June 2, 1952

RE: Permit No. 22050

Mr. Anthon H. Edwards
Route 1
Samuels, Idaho

Dear Mr. Edwards:

Reference is made to your letter of May 31, 1952, stating that you have not received the blanks for making proof of completion of works, but requesting an extension of time for such completion.

Our records show that office letter was addressed you on February 1, 1952, informing you that this proof was due on or before April 24, 1952, and enclosing the blank affidavit for proof. This must have failed to reach you.

We enclose herewith a form of application for extension which 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.

22050

22050 RECEIVED
JUN 2 1952

Department of Reclamation

Samuels Idaho

May 31, 1952

Department
~~Office~~ of Reclamation
Boise, Idaho.

Dear Sir;

In checking over my application
~~and~~ I find I was to make
proof of my water April 24,
but as yet I have not yet
received any blanks so
would you please send them
to me.

Also I would like to
get an extension of time
for completion of my
lateral ditches

Respectfully,

Arthur H. Edwards
Samuels Idaho.

22050

State of Idaho
DEPARTMENT OF RECLAMATION
BOISE

INSTRUCTIONS

PROOF OF COMPLETION OF WORKS

Mr. Anthon H. Edwards
Route 1
Samuels, Idaho

Boise, Idaho February 1, 1952

Dear Sir:-

Under the terms of your Permit No. 22050 you are required to complete your diversion works on or before April 24, 1952. I enclose herewith blank affidavit to be filled out, sworn to by you before a Notary Public or a 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 will be issued to you.

The certificate to be issued under this proof will not give a perpetual right to the use of water for which application was made, as it only confirms the completion of works of a capacity to divert and convey to the place of intended use a certain amount of water. The law requires that another proof be submitted when the water has been fully applied to a beneficial use, at which time license is issued for the amount of water actually in use. Information in regard to this last proof will be furnished on request.

Yours truly,

MARK R. KULP

State Reclamation Engineer

22050

May 2, 1951

Re: Permit No. 22050

Mr. Anthon B. Edwards
Route 1
Samuels, Idaho

Dear Mr. Edwards:

We enclose Permit No. 22050, and direct your attention to the limitations and conditions of same as given on the fourth page under approval of the State Reclamation Engineer.

We also enclose Departmental Receipt No. 23296 for the \$5.25 filing fee.

In reference to your statement as to your understanding that Mr. Monroe C. Noble had a water filing for this land, we find the following:

License No. 18804, for 1.10 second feet (or 55 inches) of water from Grouse Creek, with priority of May 26, 1939, for the irrigation of 35 acres in the NW $\frac{1}{4}$ and 20 acres in the SW $\frac{1}{4}$ of Section 2, Twp. 58 North, Range 1 West, B.M. to Monroe C. Noble.

Our records show some correspondence with Mr. W. E. Noble, in January 1949, in which he states that his father claimed a water right from Grouse Creek on the S $\frac{1}{2}$ SW $\frac{1}{4}$ Section 35, Twp. 59 N. Range 1 W., B.M., but we advised him that we could find no record of such a water right/

Very truly yours,

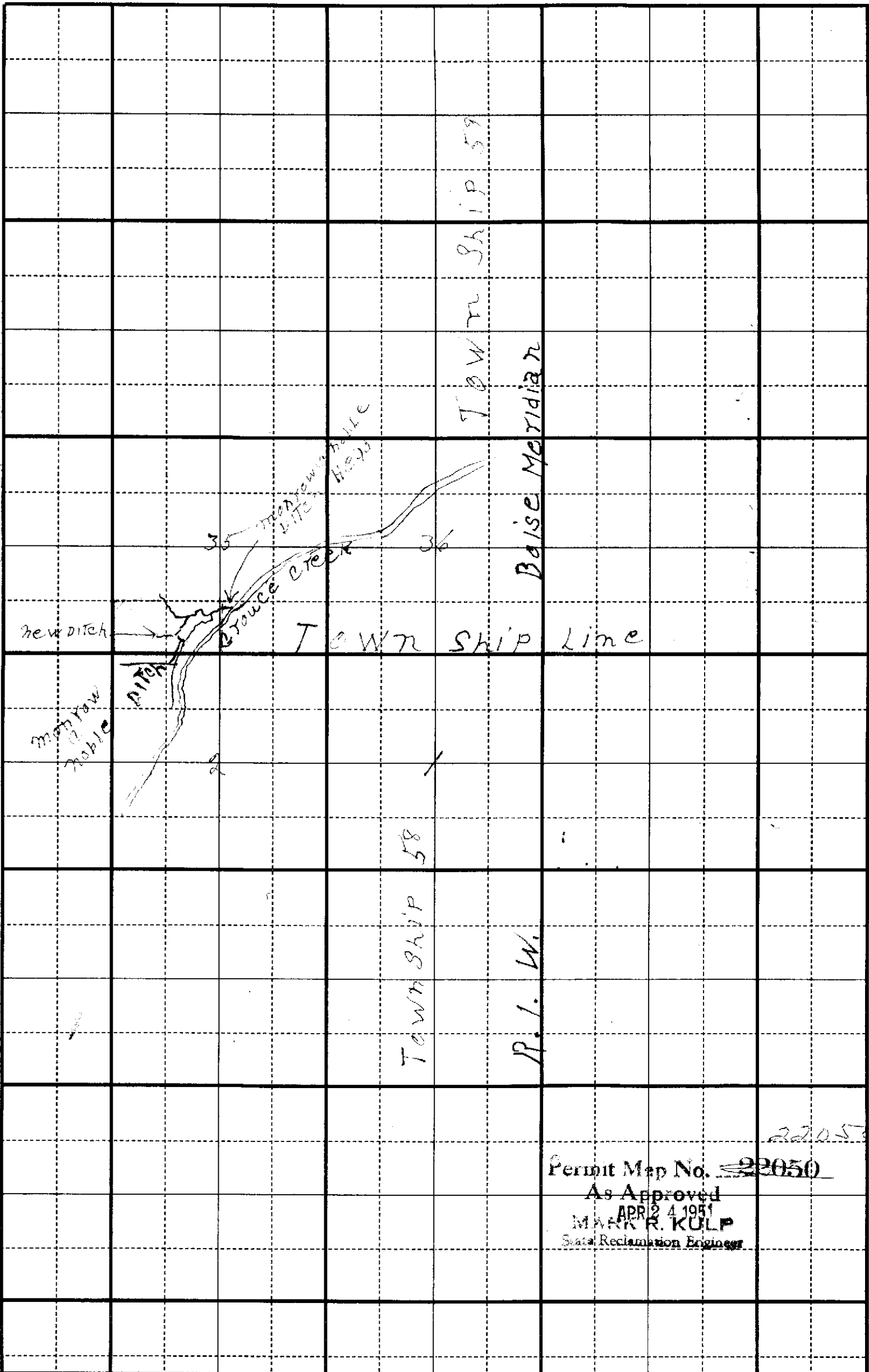
MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A
Encls.

22050

Arthur F. Edwards



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

Notice is hereby given that at 10:30 A. M. on the 23rd day of April, 1955, at Sandpoint, County of Bonner, State of Idaho, before Alice W. Hunt, Notary Public, proof will be submitted of the application to beneficial use of 1.4 cubic feet per second of the waters of Grouse Creek in accordance with the terms and conditions of Permit No. 22050 heretofore issued by the State Reclamation Engineer of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are Anthon H. Edwards, Route 1, Samuels, Idaho.

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

The amount applied to beneficial use is 1.4 cubic feet per second.

The place where said water is used, SW $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 35, Township 59 North, Range 1 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 E. H. Edwards, George W. Langford & Anthon H. Edwards Ditch.

The right to take water from such works is based upon Permit No. 22050.

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

The date of priority which said user is prepared to establish is April 23, 1951.

MARK R. KULP,

State Reclamation Engineer