

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: A72-10491

Date Received:

Receipt No: _____

Received By: _____

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: STATE OF IDAHO 208-334-3700
Address: DEPT. OF FISH & GAME
P.O. BOX 25
BOISE, ID 83707

2. Date of Priority: DEC 31, 1963

3. Source: EAST FORK OF SALMON RIVER Trib. to: SALMON RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
10N	18E	35	SE	NW			CUSTER

5. Description of diverting works:
SEE REMARKS

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
FISH PROPAGATION	03/15	11/15	0.800		

7. Total Quantity Appropriated is:
0.800 C.F.S. (and/or) A.F.A.

8. Total consumptive use is Acre Feet Per Annum.

9. Non-irrigation uses:
FISH/BYPASS PIPE AT FISH SCREEN TO PROVIDE FOR FISH PASSAGE

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
10N	18E	35	SE	NW		FISH	

11. Place of use in counties: CUSTER

12. Do you own the property listed above as place of use? NO

13. Other Water Rights Used:
NONE

14. Remarks:

NO EASEMENT AGREEMENT FOUND. THIS SCREEN WAS CONSTRUCTED IN 1963, HOWEVER THE EXACT DATE OF PRIORITY COULD NOT BE FOUND IN OUR FILE.

DIVERTING WORKS: CONCRETE STRUCTURE WITH METAL SCREEN WHICH PREVENTS FISH FROM ENTERING IRRIGATION DITCH. STRUCTURE INCLUDES A BYPASS PIPE WHICH RETURNS WATER TO THE MAIN STREAM.

15. Basis of Claim: BENEFICIAL USE

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not _____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: _____

For Organizations:

I do solemnly swear or affirm that I am _____ of
Title

_____, that I have signed the foregoing
Organization
document in the space below as _____ of
Title

_____ and that the statements contained in the
Organization
foregoing document are true and correct.

Signature of Authorized Agent

Title and Organization

Date

State of Idaho)
County of _____) SS.

Subscribed and sworn (or affirmed) before me this _____ day

of _____ 19 _____

Notary Public

Seal

Residing at _____

My Commission Expires _____

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLSIN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM

CIVIL CASE NUMBER: 39576

Ident. Number

A72-10491

Date Received

Receipt Number

NOTICE OF CLAIM
TO A
WATER RIGHT
ACQUIRED UNDER STATE LAW

Please type or print clearly

1. Name of Claimant (s) Idaho Department of Fish & Game Phone (208) 334-3700Mailing Address 600 South Walnut, Box 25, Boise, Idaho Zip 837072. Date of Priority (Only one (1) per claim) 1963* (see remarks)3. Source of water supply (a) East Fork of Salmon River
which is tributary to (b) Salmon River4. a. Location of existing point of diversion is: Township 10N. Range 18E Section 35,
1/4 of SE 1/4 of NW 1/4, Govt. Lot, B.M., County of Custer

Additional points of diversion if any: _____

b. If instream flow, beginning point of claimed instream flow is:

Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of _____ 1/4,

Govt. Lot _____ B.M., County of _____

ending point is: Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of _____

_____ 1/4, Govt. Lot _____ B.M., County of _____

5. Description of existing diversion works (Dams, Reservoirs, Ditches, Wells, Pumps, Pipelines, Headgates, Etc),
including the dates of any changes or enlargements in use, the dimensions of the diversion works as
constructed and as enlarged and the depth of each well.Concrete structure with metal screen which prevents fish from
entering irrigation ditch. Structure includes a bypass pipe which
returns water to the main stream.

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EF-8

6. Water is claimed for the following purposes:

(both dates are inclusive)

(cfs)

(acre feet)

For fish propagation purposes from 3/15 to 11/15 amount 0.800 or _____
For _____ purposes from _____ to _____ amount _____ or _____
For _____ purposes from _____ to _____ amount _____ or _____
For _____ purposes from _____ to _____ amount _____ or _____

7. Total quantity claimed (a) 0.800 (cfs) and/or (b) _____ (acre feet)

8. Total consumptive use claimed is 0 acre feet per annum.

9. Non-irrigation uses; describe fully (eg. Domestic: Give number of households served; Stockwater: Type and number of livestock Etc.) Fish propagation - bypass pipe at fish screen to provide for fish passage.

10. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
b. If water is used for other purposes, place a symbol of use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RNG	SEC	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	
10N	18E	35								H									

Total number of acres irrigated _____

11. In which county (ies) are lands listed above as place of use located? Custer

12. Do you own the property listed above as place of use? Yes _____ No ☒
If your answer is No, describe in Remarks below the authority you have to claim this water right.

13. Describe any other water rights used at the same place and for the same purposes as described above.
_____ or None (✓)

14. Remarks:
No easement agreement found. This screen was constructed in 1963, however the exact date of priority could not be found in our file.

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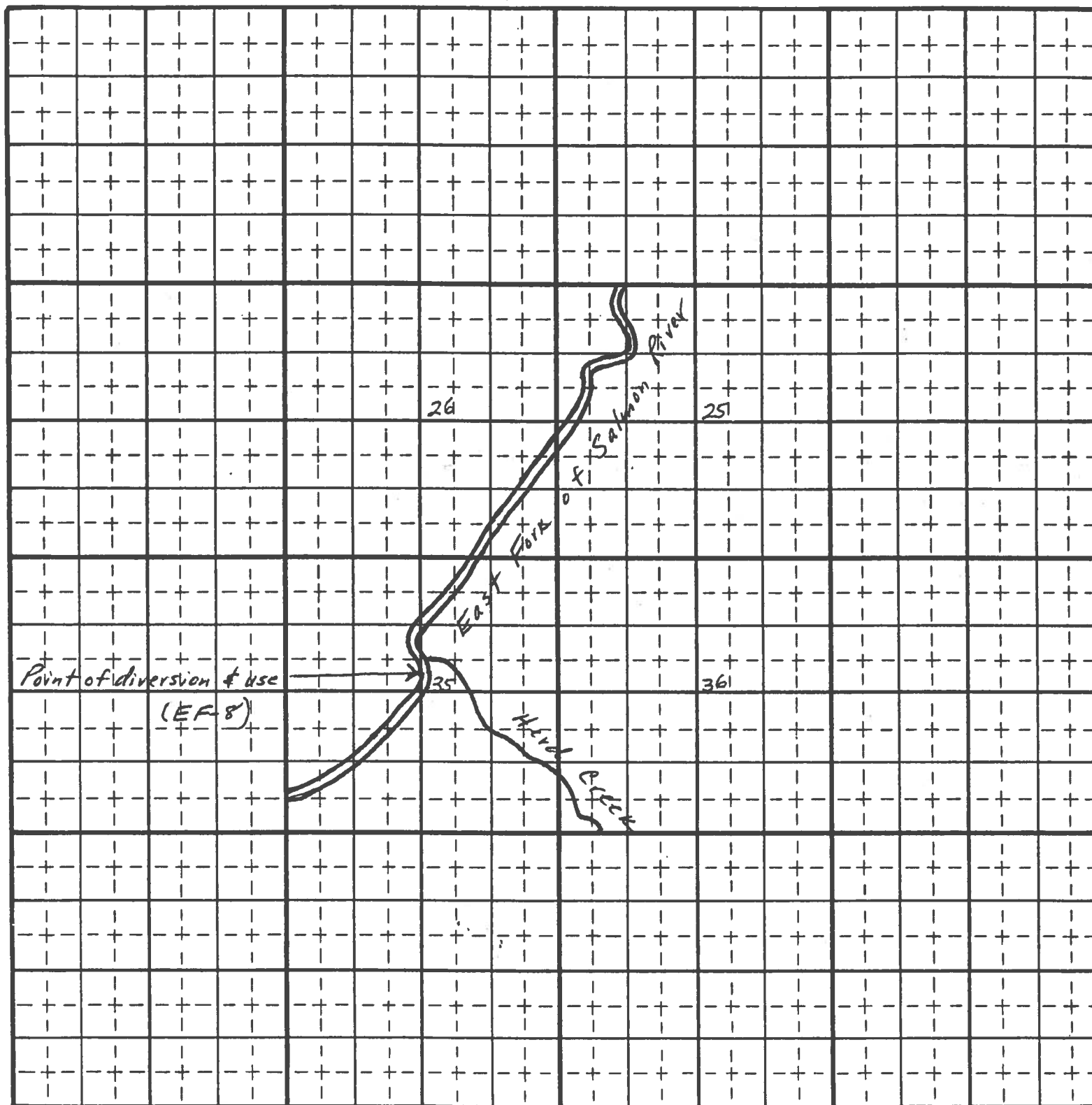
Last Name IDF#G Ident No. _____

Copies: White -State, Yellow-Claimant

Map of Project: show clearly the point of diversion, place of use, section number, township, and range number.

Scale: 2 inches equals 1 mile

T. 10 N. R. 18 E.



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Last Name IDF#G

Ident No. _____

Copies: White-State, Yellow-Claimant

15. Basis of Claim (check one) ☒ Beneficial Use ☐ Posted Notice ☐ Lease ☐ Permit ☐ Decree ☐

If applicable provide IDWR Water Right Number _____
Court _____ Case Number _____ Decree Date _____
Plaintiff vs Defendant _____

16. Signature (s)

(a.) By signing below, I/We acknowledge that I/We have received, read, and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not _____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments _____

For Individuals: I do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant (s) _____ Date _____
_____ Date _____

For Organizations: I do solemnly swear or affirm that I am Assistant Director
of IDAHO DEPT. OF FISH & GAME , that I have signed the foregoing
document in the space below as Acting Director of IDAHO DEPT. OF FISH & GAME
and that the statements contained in the foregoing document are true and correct.

Signature of Authorized Agent Kenneth Price
Title and Organization Assistant Director Date 5-15-90
IDAHO DEPT. OF FISH & GAME

State of Idaho/or Idaho)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 15th day of March 19 90

SEAL

Notary Public Dorothy Baker
Residing at Emmett, ID
My Commission Expires 10/31/1991

Please Print Name

17. Notice of Appearance:

Notice is hereby given that I, _____ will be acting as attorney at law on behalf of the claimant signing above, and that all notices required by law to be mailed by the director to the claimant signing above should be mailed to me at the address listed below.

Signature _____

Address _____

Date _____

Last Name IDFG Ident. Number _____

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MAR 18 1993
Copies White-State, Yellow-Claimant



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3033

CECIL D. ANDRUS
Governor

March 2, 1992

R. KEITH HIGGINSON
Director

A72-10491

STATE OF IDAHO
DEPT. OF FISH & GAME
P.O. BOX 25
BOISE

ID 83707

thru →

A72-10541

STATE OF IDAHO
DEPT. OF FISH & GAME
P.O. BOX 25
BOISE

ID 83720

RE: Evidence of Priority

RESPONSE DEADLINE

MAY 1, 1992

Dear Claimant:

The Notice(s) of Claim identified with the number shown above your name on the mailing label has been filed in the Snake River Basin Adjudication (SRBA). The Notice(s) indicate your water usage is based on "Beneficial Use" or a "Statutory Claim". Water rights of this type are established by the historical use of water, dating back to when water was first used for the purpose claimed. The date of first use, known as the priority date, has not been confirmed by a License, Decree or Permit. The Department will soon conduct reviews &/or field exams for the claims in your area. Since the priority date of a beneficial use water right can not be confirmed by field examination, proof must be provided supporting the priority date you have claimed.

The Department will not recommend the Notice(s) be decreed by the court as claimed if no evidence of a priority date is submitted.

Please find enclosed a computer printout of your Notice(s) and the pamphlet entitled "Evidence of Priority". The pamphlet describes the types of evidence required and suggests which documents will fulfill this requirement. I direct your attention to the two sections entitled "What Kind of Evidence is Required" and "Some Examples of Documents Which May Be Evidence of the Priority Date".

Please submit the required evidence supporting the priority date(s) by **May 1, 1992**, referencing all documents with the corresponding Notice number(s). If you have any questions not covered by this letter or the enclosed pamphlet, please contact this office.

Respectfully submitted,

Allen Merritt, P.E.
Water Rights Supervisor

Enclosures

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MAR 18 1993

EVIDENCE OF PRIORITY DATES FOR SALMON RIVER
FISH SCREEN WATER RIGHT CLAIMS

APR 10 1992
Department of Water Resources
Southern Region Office

Water Right No.	Screen No.	Proposed Priority Date	Proof of Priority Documentation
A72-10491	EF-8	1963	IDFG photo file
A72-10492	EF-9	1963	C.R.P. construction records (1963) and IDFG photo file
A72-10493	EF-10	1963	C.R.P. construction records (1963)
A72-10494	EF-26	1964	C.R.P. construction records (1964)
A72-10496	S-30	1965 (rebuilt in 1990)	C.R.P. construction records (1965) and IDFG photo file
A72-10497	EF-GC-29	1964	C.R.P. construction records (1964)
A72-10499	S-36	1965	C.R.P. construction records (1965) and IDFG photo file
A72-10504	S-25	1965 (rebuilt in 1988)	C.R.P. construction records (1965) and IDFG photo file
A72-10505	S-26	1965 (rebuilt in 1989)	C.R.P. construction records (1965) and IDFG photo file
A72-10506	S-27	1965 (rebuilt in 1989)	C.R.P. construction records (1965) and IDFG photo file
A72-10508	S-29	1965 (rebuilt in 1989)	C.R.P. construction records (1965) and IDFG photo file
A72-10511	S-34	1965	C.R.P. construction records (1965) and IDFG photo file
A72-10512	S-35	1965 (rebuilt in 1978)	C.R.P. construction records (1965) and IDFG photo file
A72-10513	EF-HC-2	1963	C.R.P. construction records (1963) and IDFG photo file
A72-10514	EF-HC-1	1963	C.R.P. construction records (1963) and IDFG photo file

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IDAHO FISH & GAME

600 South Walnut / Box 25
Boise, Idaho 83707

April 15, 1992

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APR 15 1992

Department of Water Resources
Southern Region Office

Mr. Allen Merritt, P.E.
Water Rights Supervisor
Idaho Department of Water Resources
Southern Region
222 Shoshone St., East
Twin Falls, ID 83301

Re: Evidence of Priority for Water Right Claims A72-10491 through A72-10541

Dear Mr. Merritt:

Enclosed please find evidence supporting the priority dates for the above-referenced water right claims. Priority dates for these claims have been amended to reflect the years the fish screens were actually constructed, not the date easement agreements were filed with Custer County, as was reported on the original claims. The evidence comes from Columbia River Program (C.R.P.) construction notebooks (1963-1965) and Salmon River Fish Screen Program photo records. These are unpublished documents on file at the Department of Fish and Game regional office in Salmon. I have included a list of the water right claims, proposed priority dates (year screens were built), descriptions of the documentation submitted to verify the priority dates, and photo copies of the pertinent records for each claim.

In searching through our records to establish evidence of priority dates, I found some screens were not built until several years after the easement agreements were finalized. Some of the screens were not constructed until after 1971 and thus adjudication claims for these water rights were erroneously filed. I have included a separate list of these claims that should be dropped and will submit applications for permits for them instead.

If you have questions regarding the attached information, please contact me at 334-2597.

Sincerely,

Cindy Robertson

Cindy Robertson
Sr. Fishery Research Biologist

CR:tlv

Enclosures

cc: Jim Blake, Salmon

Engineering
Cecil D. Andrus / Governor
Jerry M. Conley / Director



Working for wildlife - since 1938

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APR 16 1992

Department of Water Resources
Southern Region Office

CERTIFICATION

I, Cynthia A. Robertson, Sr. Fishery Research Biologist for the Idaho Department of Fish and Game, and custodian of the records of the Department's water rights, do hereby certify that the attached pages are true records pertaining to water right claims to the best of my knowledge.

Dated this 15 day of April, 1992.

Cynthia A. Robertson
Cynthia A. Robertson
Sr. Fishery Research Biologist

State of Idaho)
) S.S.
County of Ada)

On this 15th day of April, 1992, personally appeared before me, Terry L. Vernholm, a notary public, Cynthia A. Robertson, whose identity is personally known to me and who by me duly sworn, is a Sr. Fishery Research Biologist for the Idaho Department of Fish and Game and said attached information is true and accurate to the best of her knowledge.

Terry L. Vernholm
Notary Public for Idaho
Residing in Emmett, Idaho
Commission Expires 8-15-93

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EVIDENCE OF PRIORITY DATE FOR ADJUDICATION CLAIM NO. **A72-10491**

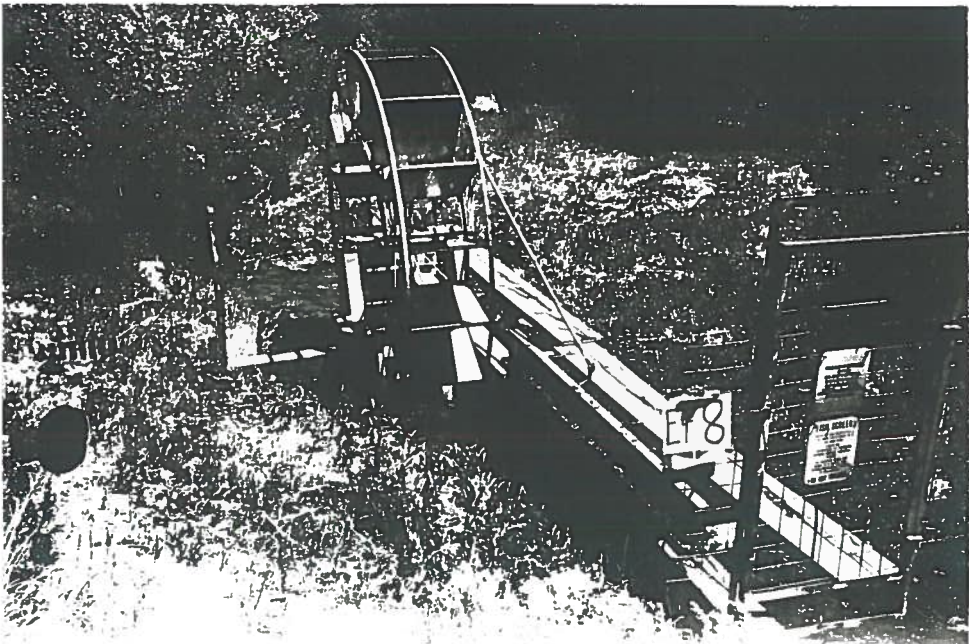
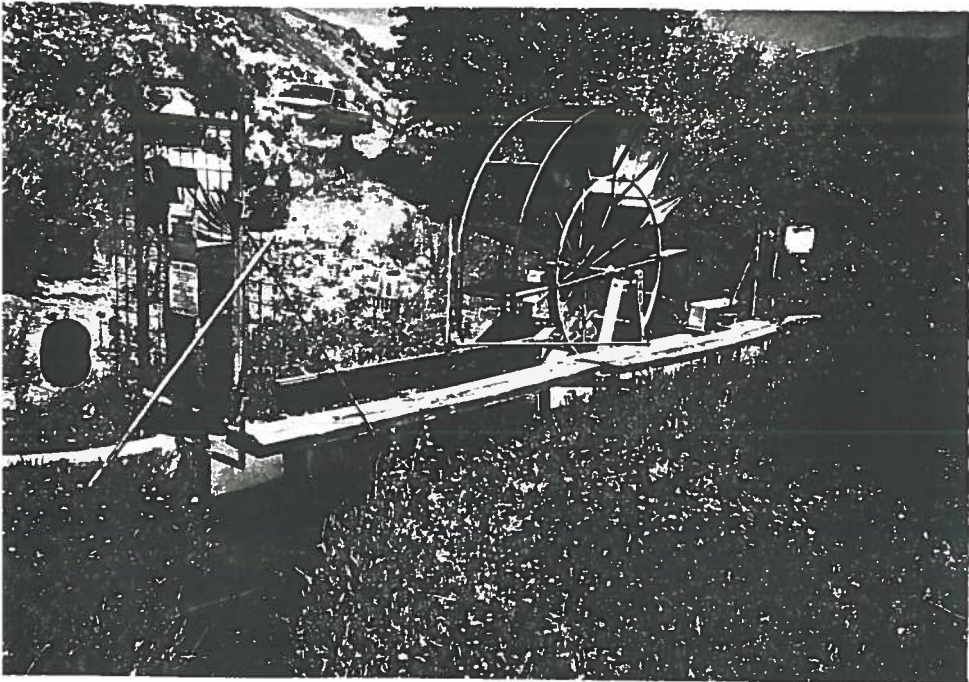
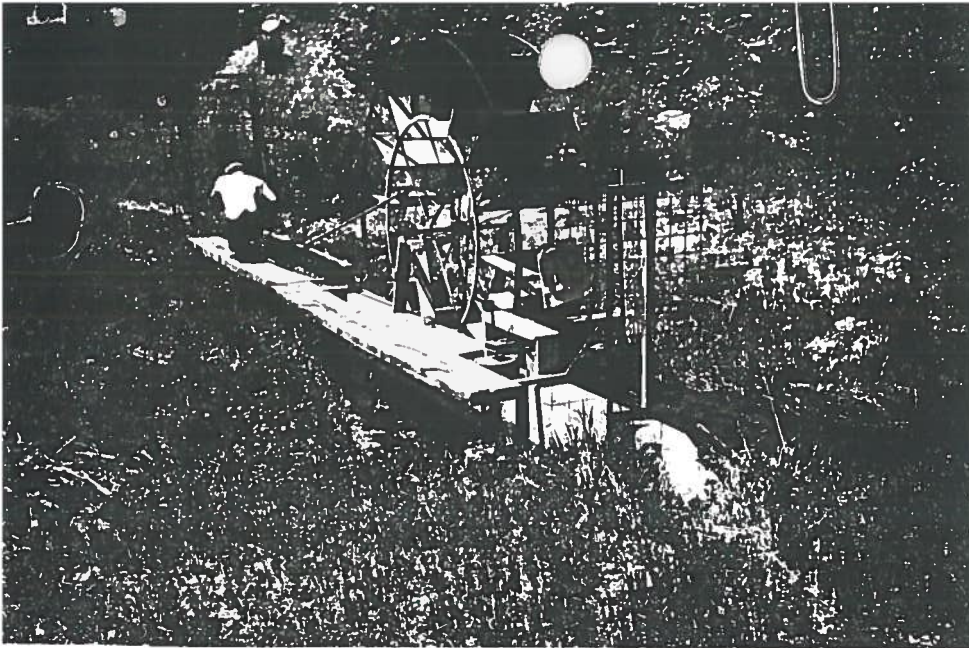
R E C E I V E D

APR 16 1992

Department of Water Resources
Southern Region Office

MICROFILMED

MAR 18 1993



Oct 1963

SCREEN # SEF 8

APPROACHMENT DITCH SIZE 1'x2'

USE In yes

TYPE OF SCREEN Wiper Water Wheel

SIZE OF SCREEN 3'x8'

MODIFIED No

STRUCTURE Poor

CATWALKS Poor

HANDRAILS None

BYPASS SIZE 4"

HOW REDUCED Not

APPROX. LENGTH 20 ft

TRASH RACK Poor

CONDITION OF ROAD

CONDITION OF GATES

ADDITIONAL COMMENTS

SCHEDULED REPLACEMENT

1990 - 95

A72-10491

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MAR 18 1993

Water Right Number - R72-10491

Prefix Translation: RESEARCH

Old (D) Number -

+ - - - - Last Name - - - - + + - First Name - - + + - - - - - Address - - - - - +

*** C - CURRENT OWNER ***
STATE OF IDAHO

1 - DEPT OF FISH & GAME
2 - PO BOX 25
3 -
City- BOISE
Phone - 208-334-3700
State- ID Zip- 83702

*** K - ALSO KNOWN AS ***
FISH & GAME

1 -
2 -
3 -
City- BOISE
Phone - 208-000-0000
State- ID Zip- 83720

+ - - Priority Date - - + + - - - Region - - - + + - - - Stage - - - + + - - - Status - - - +
04/01/1963 17 SOUTHERN J - BENEFICIAL USE

+ - - - - Source - - - - - + + - - - - Tributary - - - - - +
SALMON RIVER, EAST FORK SALMON RIVER

+ - - - - Point of Diversion - - - - - +
Twn Rng Sec Tract Lot Rflg County

10N 18E 35 SW NE SW (37) CUSTER

+ - - - - Water Use - - - - - +
Code Description Period From Period To Diversion Rate Diversion Volume

19 - FISH PROPAGATION 04/01 10/31 0.800

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Consumptive Use - + + - KW Usage - +
0.800 0.0

+ - - - - Place of Use - - - - - +
Twn Rng Sec Tract Lot Acres Code Description County
10N 18E 35 SE NW 19 FISH PROPAGATION (37) CUSTER

Total Acres:

+ - - Diversion Means - SEE REMARKS

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - NONE

+ - - - - Remarks - - - - - +

USE USE IS FOR A BYPASS PIPE AT FISH SCREEN.
POU1 THE USE OF WATER IS LIMITED TO THE SE 1/4 OF THE ABOVE DESCRIBED

Water right number - R72-10491

Prefix Translation: RESEARCH

PLAC OF USE. Remarks

No Old Water Right Numbers Found Old Water Right Numbers

C18 - THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS
- NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT
- ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY
- DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE
- ENTRY OF A FINAL UNIFIED DECREE, SECTION 42-1412(6) IDAHO CODE.

Decree Plaintiff Decree Defendant Decree Date
00/00/0000

Date: 12/09/1993 User Id: HITCHCOC Subject: COPIED FROM REMARKS
NO EASEMENT AGREEMENT FOUND. THIS SCREEN WAS CONSTRUCTED IN 1963, HOWEVER THE EXACT DATE OF PRIORITY COULD NOT BE FOUND IN
OUR FILE. DIVERTING WORKS: CONCRETE STRUCTURE WITH METAL SCREEN WHICH
PREVENTS FISH FROM ENTERING IRRIGATION DITCH. STRUCTURE INCLUDES A BYPASS PIPE WHICH RETURNS WATER TO THE MAIN STREAM.
Date: 11/22/1998 User Id: DUTTHILL Subject: COPIED FROM REMARKS
RIGHT NO.72-02095 IS ALSO DIVERTED THROUGH POINT OF DIVERSION DESCRIBED ABOVE.

Audit Fields 12/21/99 VHANCOCK

Adjudication Rights Dates and Flags Area Civil Case Number 39576
Court Report Filing - 01/29/1999 Field Inspection Made - 00/00/0000
Objection Filed Date - 06/02/1999 Field Inspection Flag -
Response Filed Date - 00/00/0000 Verified Date - 00/00/0000
Claim Received Date - 09/28/1990 Last Amended Date - 00/00/0000
Receipt Number - C018457 Temporary Right - P
POU Ownership Flag - N Water District -
Name Connector - AND/OR Federal/State Indicator - S
Notice of Error Flag -

RECEIVE

DEC 6 1999

Department of Water Resources

DISTRICT COURT SRE
FIFTH JUDICIAL DISTRICT
COUNTY OF TWIN FALLS, STATE OF IDAHO

DEC 1 1999

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA

) Subcase No. 72-10491

Case No. 39576

) Standard Form 5

) STIPULATED ELEMENTS
) OF A WATER RIGHT

This form is used to report the stipulated elements of one water right acquired under state law and/or one federal reserved water right. Submission of this form will not automatically result in the issuance of a partial decree. The Presiding Judge or Special Master will conduct any hearing necessary to determine the facts, date, expert opinions and law supporting the issuance of a partial decree for the water right.

The parties agree that the Snake River Adjudication Court has jurisdiction of the parties and subject matter to enter a partial decree for this water right; that they have been served with sufficient process, according to the law; and that they have appeared, prosecuted, and defended their positions with regard to this water right dispute.

The parties and IDWR agree and stipulate that the elements of this water right should be described per the attached. The parties and IDWR have further indicated their concurrence by initialing each of the attached pages.

OBJECTOR:

United States on behalf of the
Bureau of Land Management

Larry A. Brown
Larry A. Brown

12/1/99
Date

Attorney, U.S. Department of Justice
Environment and Natural Resources Div.

CLAIMANT:

State of Idaho

Peter J. Ampe
Peter J. Ampe

Deputy Attorney General

12/1/99
Date

IDWR CONCURRENCE:

Jeanie Robertson
Sr. Water Res Agent

12/1/99
Date

IDWR CONCURRENCE:
APPROVED AS TO FORM

Wick Spencer
DEPUTY ATTORNEY GENERAL Date

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHTS FROM: SOURCE: SALMON RIVER, EAST FORK TRIBUTARY: SALMON RIVER

RIGHT NUMBER: 72-10491

NAME & ADDRESS: STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83702

SOURCE: SALMON RIVER, EAST FORK TRIBUTARY: SALMON RIVER

QUANTITY: 0.8 CFS

PRIORITY DATE: 04/01/1963

POINT OF DIVERSION: T10N R18E S35 SWNESW Within CUSTER County

PURPOSE AND PERIOD OF USE: PURPOSE OF USE PERIOD OF USE QUANTITY
FISH PROPAGATION 04-01 10-31 0.8 CFS

USE IS FOR A BYPASS PIPE AT FISH SCREEN.

PLACE OF USE: FISH PROPAGATION T10N R18E S35 SENW Within CUSTER County

THE USE OF WATER IS LIMITED TO THE SE 1/4 OF THE ABOVE DESCRIBED PLACE OF USE.

EXPLANATORY MATERIAL: BASIS OF CLAIM - BENEFICIAL USE

CERTIFICATE OF MAILING

I certify that on 12/1, 1999, I mailed the original and copies of this form, including all attachments, postage prepaid and addressed as follows:

1. Original to:

Clerk of the District Court
Snake River Basin Adjudication
253 Third Avenue North
P. O. Box 2707
Twin Falls, Idaho 83303-2707

2. Copy to:

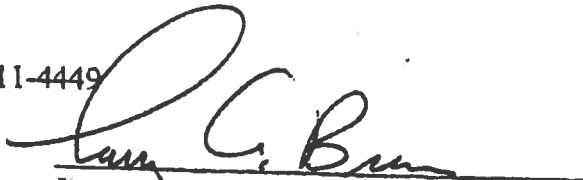
Idaho Department of Water Resources
Adjudication Bureau
1301 North Orchard Street
Boise, Idaho 83706

IDWR Document Depository
P. O. Box 83720
Boise, Idaho 83720-0098

3. Copies to all parties to the subcase (insert names and addresses):

U.S., Department of Justice
Environment and Natural Resources Division
General Litigation Section
550 West Fort Street, MSC 033
Boise, Idaho 83724

Peter J. Ampe
Deputy Attorney General
Office of the Attorney General
State of Idaho
P. O. Box 44449
Boise, Idaho 83711-4449


Signature of person or attorney mailing the form

VH

RECEIVED
JUN 29 1999
Department of Water Resources
Southern Region

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA	)	A. Subcase <u>72-10491</u>
	)	(Insert water right number)
Case No. 39576	)	
	)	STANDARD FORM 1
	)	OBJECTION
_____	)	

Please fill in the following information:

B. NAME AND ADDRESS OF PERSON OBJECTING
Name: United States of America acting through the Department of Interior,
Bureau of Land Management, Idaho State Office
Address: 1387 South Vinnell Way
Boise, Idaho 83709-1657
Daytime Phone: see below
Name & Address of Attorney, if any:

Larry A. Brown 208 387-0835; R. Lee Leininger, 202 305-0242; Paul F. Holleman, 202 305-0494
United States Department of Justice; Environment and Natural Resource Division; General Litigation Section
550 West Fort Street, MSC 033; Boise, Idaho 83724

C. CLAIMANT OF WATER RIGHT AS LISTED IN DIRECTOR'S REPORT

Name: State of Idaho
Address: PO Box 25 Boise, ID 83702
Name: Department of Fish & Game
Address:
Name:
Address:
Name:
Address:

D. I object to the following elements as recommended in the Director's Report. (Please check the appropriate box(es)).

1. ☐ **Name and Address**
Should be: _____
2. ☐ **Source**
Should be: _____
3. ☐ **Quantity**
Should be: _____
4. ☐ **Priority Date**
Should be: _____
5. ☒ **Point(s) of Diversion**
Should be: See attached
6. ☐ **Instream Flow Description**
Should be: _____
7. ☐ **Purpose(s) of Use**
Should be: _____
8. ☐ **Period of Year**
Should be: _____
9. ☒ **Place of Use**
Should be: See attached

11. **I object because:**

- ☐ This water right should not exist.
- ☐ This water right was not recommended, but should be recommended with the elements described above.

E. REASONS SUPPORTING OBJECTION(S):

The United States of America, through the Bureau of Land Management, is the owner of the land upon which use is claimed. The claimant's use of Federal land is unauthorized. See attached POD and POU. Claimant's water right should not include this POD and POU.

F.

VERIFICATION (Must be Completed)

State of Idaho)

) ss.

County of Ada)

Gary A. Madenford, Water Rights Team Leader, duly sworn, upon oath, deposes and says:
(Name of person filing objection)

That I am the party/claimant filing this objection, as defined by I.C. §§ 42-1401A(1) and (6) or that I am the attorney for the party/claimant objecting and that I have read this objection, know its contents and believe that the statements are true to the best of my knowledge.

Gary A. Madenford
(Signature of person filing objection)

James C. Brown
(Attorney signing in representative capacity)

Subscribed and sworn to before me on: June 1, 1999

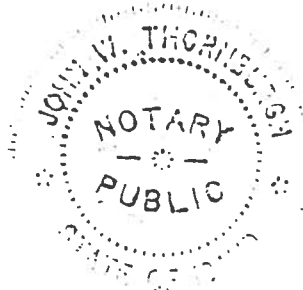
John W. Thornburgh

John W. Thornburgh

Notary Public for Idaho

Residing at: Boise

My Commission Expires: 05-16-2003



INSTRUCTIONS FOR MAILING

You must mail the objection, to the Clerk of the Court. **FAX filings will not be accepted.** You must also send a copy to all the parties listed below in the Certificate of Mailing.

G. CERTIFICATE OF MAILING

I certify that on June 2nd, 1999, I mailed the original and copies of this objection, including all attachments, to the following persons:

1. Original to:

Clerk of the District Court
Snake River Basin Adjudication
253 Third Avenue North
P.O. Box 2707
Twin Falls, ID 83303-2707

2. One copy to the claimant of the water right at the following address:

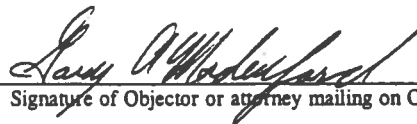
Name: State of Idaho
Address: PO Box 25 Boise, ID 83702
Name: Department of Fish & Game
Address:
Name:
Address:
Name:
Address:

3. Copies to:

IDWR Document Depository
PO Box 83720
Boise, ID 83720-0098

United States Department of Justice
Environment and Natural Resource Division
550 West Fort Street, MSC 033
Boise, ID 83724

Chief, Natural Resources Division
Office of the Attorney General
State of Idaho
PO Box 44449
Boise, ID 83711-4449


Signature of Objector or attorney mailing on Objector's behalf

AJ5856NP

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

DATE: JAN-26-1999
PAGE: A-882

RIGHTS FROM:	SOURCE: SALMON RIVER, EAST FORK	TRIBUTARY: SALMON RIVER	

RIGHT NUMBER:	72-10491		
NAME & ADDRESS:	STATE OF IDAHO DEPT OF FISH & GAME PO BOX 25 BOISE ID 83702		
SOURCE:	SALMON RIVER, EAST FORK	TRIBUTARY: SALMON RIVER	
QUANTITY:	0.8 CFS		
PRIORITY DATE:	04/01/1963		
POINT OF DIVERSION:	T10N R18E S35	SWNE SW <i>BLM</i>	Within CUSTER County
PURPOSE AND PERIOD OF USE:	PURPOSE OF USE FISH PROPAGATION	PERIOD OF USE 04-01 10-31	QUANTITY 0.8 CFS
USE IS FOR A BYPASS PIPE AT FISH SCREEN.			
PLACE OF USE:	FISH PROPAGATION T10N R18E S35	Within CUSTER County SENE <i>BLM / PVT</i>	
EXPLANATORY MATERIAL:	BASIS OF CLAIM - BENEFICIAL USE		

6/9/94

COMMUNICATION DOCUMENTATION

Claim No. A72-00190 ET AL

This form is to be used to document public record information requests regarding any SRBA claim or claims. The form may also be used to document IDWR communications requesting information regarding any SRBA claim or claims when the request is not made in writing or the claim verification report is not readily available to document the request. This form is to be filed in all relevant claim files or a central office file.

IDWR Employee/Agent Frank Hitchcock

June 13, 1997 8:13am

NAME:

BAKER, DOUG AND CHERYL

✓ EF-7 AND EF-8 IF&G SCREEN SITES

DIVERTING THEIR IRR USAGES:

A72-00190, -00193(SPLIT) AND -00194.

RE:

DIVERSION POINT REWORK
CONSOLIDATION OF TWO.

I HAD LUNCH WITH BOB FOSTER OF THE SALMON OFFICE 06-11-1997 IN BOISE AND HE BROUGHT ME UP TO DATE ON EVENTS UP THE EAST FORK.

THE BAKERS HAVE DEVELOPED AN AGREEMENT (COPIES TO BE SENT DOWN BY BOB NEXT WEEK) WITH IF&G TO CONSOLIDATE THE IF&G SCREEN SITES EF-7 AND EF-8 THAT SCREEN THEIR IRRIGATION DIVERSIONS FROM THE SALMON RIVER, EAST FORK.

I FOLLOWED UP WITH BOB AT THE S.O. TO GET THE COPIES SENT DOWN AND TO BE SURE THAT I HAD THE CONVERSATION CORRECTLY IN THIS FILE NOTE.

I WILL REVIEW THE WATER RIGHTS DIVERTED ORIGINALLY THROUGH THESE SITES AND CHECK ON THE PODS CLAIMED FOR POSSIBLE AMENDMENT OR TRANSFER REQUIREMENTS AS THESE CLAIMS HAVEN'T BEEN RECOMMENDED YET.

ADDITIONALLY, THIS FILE NOTE WILL BE PUT INTO BOTH OF IF&G'S CLAIM FILES FOR THE REVIEW OF THEIR CLAIMS WHICH HAVE BEEN RECOMMENDED BASED ON THE PODS CLAIMED.

CC: A72-10541 AND A72-10491 IF&G CLAIMS (EF-7 AND EF-8 RESPECTIVELY).

-10491: (-8)
-00193
-02095
-10541: -7
-00190
-00193
(-10541):
-00190
-00193
-00194
-02095

DATE: 11/22/98
PAGE: 2

Audit:	11/14/92 CLELAND	12/09/93 HITCHCOC	01/05/94 HITCHCOC	03/09/95 FHITCHCO
	03/15/95 FHITCHCO			

Flow for 9-25-96

East Fork Salmon River 7 and 8 Diversion Consolidation Agreement

Between

Doug and Wayne Baker
and

Idaho Department of Fish and Game

RECEIVED

SEP 10 1997

Department of Water Resources
Southern Region

This Cost Share Agreement, is made and entered into by and between Idaho Fish and Game, hereinafter referred to as IDFG, and Doug and Wayne Baker, hereinafter referred to as Cooperators, water right holders from diversions SEF-07 and SEF-08; on the East Fork River, tributary to the Salmon River. This project is located in Sec. 35, T.10N. R.18E.

Whereas: IDFG has the authority to build and maintain fish screening structures for the purpose of screening migrating anadromous fish from irrigation diversions or alternatives to; and

Whereas: It has been determined by fisheries biologists and that combining diversion sites would benefit juvenile and adult fish on their migration to and from the Pacific Ocean, by reducing the number of diversion dams and screening facilities passed over and through; and

Whereas: Combining two diversions into one diversion will speed the passage of juvenile salmon downstream and adult salmon up the East Fork of the Salmon River;

Whereas: Cost of the diversion consolidation to deliver water to the ditch supplied by SEF-07 from SEF-08 is less expensive than having to build a second screen on SEF-07; and

Whereas: Elimination of the SEF-07 screen will delete the need for long-term operation and maintenance of the screen structure, screen, paddlewheel and other appurtenances and delete any further upkeep and road maintenance; and

Whereas: This consolidation will eliminate cost of long-term operation and maintenance of diversion structure at SEF-07 by Cooperators and the need for in-stream disturbance for the purpose of a gravel diversion berm or other means; it is

Post-It® Fax Note	7671	Date	9-10-97	# of pages	4
To	FRANK H.	From	BOB F.		
Co./Dept.	IDWR	Co.	IDWR		
Phone #	736-3033	Phone #	752-6644		
Fax #	736-3037	Fax #	752-6644		

Therefore Agreed;

RECEIVED

SEP 10 1997

Department of Water Resources
Southern Region

A. Idaho Fish and Game will be responsible for:

1. Design and construction of fish screen structure on SEF-08 ditch.
2. Maintain close coordination with Cooperators on construction activities.
3. Costs associated with abandoning the diversion site, screen site and road easement to screen the SEF-07 after the 5 year period.
4. Furthermore, it is understood that within the 5 year period, should a natural disaster occur, such as a flood, that makes all or a portion of the diversion works unable to supply water to SEF-07 from SEF-08 the cooperator has the right to reopen SEF-07, following such a natural disaster, until repairs to SEF-08 are completed.

B. Cooperator is responsible for:

1. All normal operation and maintenance of facilities, upon completion , with the exception of the SEF-08 fish screen.
2. Abandonment of diversion site SEF-07 and the legal transfer of water rights from SEF-07 to SEF-08.

Further it is agreed that 16 cfs at diversion SEF-08 will be the optimum maximum diversion rate to supply both SEF-07 and SEF-08.


Idaho Fish and Game Region 7 Supervisor

12/3/96
Date


Doug Baker

9/25/96
Date


Wayne Baker

9/25/96
Date

**EAST FORK SALMON RIVER 7 AND 8
DIVERSION CONSOLIDATION AGREEMENT**

RECEIVED

Between

SEP 10 1997

**Doug Baker and Wayne Baker
and
Idaho Department of Fish and Game**

Department of Water Resources
Southern Region

This Diversion Consolidation Agreement is made and entered into by and between Idaho Fish and Game, hereinafter referred to as IDFG, and Doug Baker and Wayne Baker, hereinafter referred to as Cooperators, water right holders from diversions SEF-07 and SEF-08; on the East Fork River, tributary to the Salmon River, in Custer County, Idaho. This project is located in Sec. 35, T.10N. R.18E.

Whereas: IDFG has the authority to build and maintain fish screening structures for the purpose of screening migrating anadromous fish from irrigation diversions or alternatives to; and

Whereas: It has been determined by fisheries biologists that the consolidation of two diversion sites would benefit both juvenile and adult fish on their migration paths to and from the Pacific Ocean, by reducing the number of diversion dams and screening facilities passed over and through; and

Whereas: Combining two diversions into one diversion will speed the passage of juvenile salmon downstream by reducing the time required to pass through fish screen return pipes, and speed adult salmon up the East Fork of the Salmon River by reducing the number of diversion berms; and

Whereas: Elimination of the SEF-07 screen will delete the need for long-term operation and maintenance of the screen structure, screen, paddlewheel and other appurtenances and delete any further upkeep and road maintenance by IDFG; and

Whereas: This consolidation will eliminate cost of long-term operation and maintenance of diversion structure at SEF-07 by Cooperators and the need for in-stream disturbance for the purpose of a gravel diversion berm or other means; it is

Therefore Agreed;

A. Idaho Department of Fish and Game will be responsible for:

1. Design and construction of fish screen structure on SEF-08 diversion,

2. Construction of headgate control structure ^{and} rock diversion ~~and three river barbs~~ ^{mt} at point of diversion to supply the 16cfs needed to supply both diversions (designed by Natural Resource Conservation Service (NRCS)),
3. Enlargement of SEF-08 ditch to supply both SEF-07/08, as designed by NRCS,
4. Install three field turnouts and one culvert control structure for vehicle crossing, as designed by NRCS.
5. Maintain close coordination with Cooperators on construction activities.
6. Assume costs associated with abandoning the SEF-07 diversion site,

RECEIVED

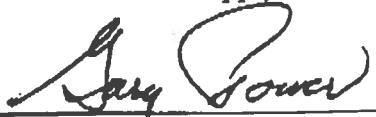
SEP 10 1997

B. Cooperator is responsible for:Department of Water Resources
Southern Region

1. All normal operation and maintenance of facilities, upon completion, with the exception of the SEF-08 fish screen.
2. Abandonment of diversion site SEF-07 and the legal transfer of water rights from SEF-07 to SEF-08.
3. ^{mt} Construct three river barbs below point of diversion as designed by NRCS.
~~Supplying materials for three field turnouts and one culvert control structure for vehicle crossing in field irrigated by SEF-08, as designed by NRCS.~~

Further, the Cooperators shall indemnify and hold harmless the IDFG and its representatives against and from any and all demands, claims or liabilities of every nature whatsoever arising directly or indirectly from or in any way connected with the use of structures constructed or modified under this agreement.

Further, it is agreed that 16 cfs at diversion SEF-08 will be the optimum maximum diversion rate to supply both SEF-07 and SEF-08.


Idaho Department of Fish and Game
Gary Power, Regional Supervisor

6/4/97
Date


Doug Baker

4/10/97
Date


Wayne Baker

4-10-97
Date

6/9/94

COMMUNICATION DOCUMENTATION

Claim No. A72-00190 ET AL

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IDWR Employee/Agent Frank Hitchcock

June 13, 1997 8:13am

NAME:
BAKER, DOUG AND ~~CHERYL~~
EF-7 AND EF-8 ~~IF&G~~ SCREEN SITES
DIVERTING THEIR IRR USAGES:
A72-00190, -00193(SPLIT) AND -00194.

RE:
DIVERSION POINT REWORK
CONSOLIDATION OF TWO.

I HAD LUNCH WITH BOB FOSTER OF THE SALMON OFFICE 06-11-1997 IN BOISE AND HE BROUGHT ME UP TO DATE ON EVENTS UP THE EAST FORK.

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CC: A72-10541 AND A72-10491 IF&G CLAIMS (EF-7 AND EF-8
RESPECTIVELY).

R PROOF

CVR

MAPS

PHOTOS

MISC

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Old (D) Number -

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State- ID Zip- 83702

State- ID Zip- 83720

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Code	Description	Period From	Period To	Water Use	Diversion Rate	Diversion Volume
19 - FISH PROPAGATION		04/15	10/15		0.800	

	+ - Total Div. Rate	- +	+ - Total Div. Volume	- +	+ - Total Consumptive Use	- +	+ - NW Usage	-
	0.800				0.0			

Twn	Rng	Sec	Tract	Lot	Acres	Place of Use	Description	County
10N	18E	35	SE NW			19	FISH PROPAGATION	(37) CUSTER
Total Acres:								

+	-----	Remarks	-----	+
		RIGHT NO.72-02095 IS ALSO DIVERTED THROUGH POINT OF DIVERSION DESCRIBED ABOVE.		

Water right number - R72-10491

Prefix Translation: RESEARCH

+ - - - - Old Water Right Numbers - - - - - +
+ - - - - No Old Water Right Numbers Found - - - - - +

+ - - - - Conditions of Approval - - - - - +
+ - - - - No Conditions of Approval found. - - - - - +

+ - - - - Decree Plaintiff - - - + + - - - Decree Defendant - - - + + - Decree Date - +
00/00/0000

+ - - - - Comments - - - - - +
Date: 12/09/1993 User Id: HITCHCO Subject: COPIED FROM REMARKS 1963, HOWEVER THE EXACT DATE OF PRIORITY COULD NOT BE FOUND IN
NO EASEMENT AGREEMENT FOUND. THIS SCREEN WAS CONSTRUCTED IN DIVERTING WORKS: CONCRETE STRUCTURE WITH METAL SCREEN WHICH
OUR FILE. PREVENTS FISH FROM ENTERING IRRIGATION DITCH. STRUCTURE INCLUDES A BYPASS PIPE WHICH RETURNS WATER TO THE MAIN STREAM.

+ - - Audit Fields - - - +
03/15/95 FHITCHCO

+ - - - - Adjudication Rights Dates and Flags Area - - - - - +
Court Report Filing - 00/00/0000 Field Inspection Made - 07/15/1993 Civil Case Number - 39576
Objection Filed Date - 00/00/0000 Field Inspection Flag - 00/00/0000 Old Case Number -
Response Filed Date - 00/00/0000 Verified Date - 00/00/0000 Old Judicial District -
Claim Received Date - 09/28/1990 Last Amended Date - 00/00/0000 Temporary Right - P
Receipt Number - C018457 Water District -
POU Ownership Flag - N Federal/State Indicator - S
Name Connector - AND/OR Presumption Flag -
Notice of Error Flag -

DATA 1
RECORD INFORMATION

STAMP OF TRAIL
RECEIVED OF LATEST RECEIVED
ADDITIONAL DATA INFORMATION RECEIVED

DATA NUMBER: 00010001

NAME: STAMP OF TRAIL
ADDRESS: STAMP OF TRAIL & CAMP
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DATA 1
RECORD INFORMATION

-00193
-00194
-02095-POV

COMPARISON RESULTS:

NAME OF TEST TAKER: 07/15/93

APPROXIMATE AGE:

TEST RESULTS FOR PLATON:

TEST RESULTS FOR DISCOVERY / DISCOVERY:

NUMBER OF QUESTIONS /

QUESTIONS: 3 40 A / M

NUMBER OF QUESTIONS /

above Hired Clerk as empty and will file number in on form. Does
and down to sit

[illegible]

ATHENS 8-2777-10491

IDENTITY: 17-21-1022

7. 8. 2016

STATE OF NEW YORK
IN SENATE
JANUARY 11, 1911.
REPORT
OF THE
COMMISSIONERS OF THE LAND OFFICE
IN RESPONSE TO A RESOLUTION
PASSED BY THE SENATE
MAY 1, 1909.
ALBANY:
J. B. LIPPINCOTT & COMPANY, PRINTERS.
1911.

СЕРГЕЙ ЕВГЕНЬЕВИЧ

[illegible]
$$\begin{aligned} \Gamma_1 &= A \cap B \cap C \\ \Gamma_2 &= A \cap B \cap D \\ \Gamma_3 &= A \cap C \cap D \\ \Gamma_4 &= B \cap C \cap D \end{aligned}$$
[illegible]

ДЕНАТИОН

Dominant cites the year of construction as the year for Elvivity.
Evidence submitted is photographical record from third Salmon River
Trail Spear Program Photo Records, unpublished, on file at the
Regional office in Salmon.
I recommend migration remain shut for the area.

Updated to credit screen 4-15 to 10-15 03-15-1995 by FH

[illegible]

~~05 01 1963~~ 4-15-1963

AD 1111/1112

77

1278-1993

✓ up with

1. AT PLATE NUMBER AND QUANTITY

PLATE	QUANTITY	1/A	1/A	1/A	1/A	1/A
670-1000	100	25	50	100	100	100

NUMBER AT PLATE WITH SAME AT THE
A. DDDDD
NUMBER

NUMBER: EACH COPY OF COMMON VALUE

2. NO DATA ON DISTRIBUTION AND QUANTITY

NUMBER TO NO NUMBER THAT DEPEND WITH THE SAME PLATE NUMBER

QUANTITY: NO QUANTITY FOR DEPEND

3. DATA EVALUATION

THE TO THE INTERPRETATION	(V/M)	DATA	FIELD
THE TO THE INTERPRETATION	(V/M)	Y	EVALUATED
THE TO THE INTERPRETATION	(V/M)	Y	EVALUATED

POB is SWNE SW. Revised USGS ORG 1974 1-24. IF+G ROAD MAP, IF+G GREEN LOCATION MAP, BUN AREA NW78-EN1 8164 PLATE #27 06-23-1981 THE SITE is shown on the 1959 location site showing as EF-9.

4. DISTRIBUTION OF THE DATA AND QUANTITY

PLATE	QUANTITY	1/A	1/A	1/A	1/A	1/A
10N 10E 35	50	NE	NE	SW	SW	WEST

NUMBER: SPANISH RIVER, EAST TOW
DISTRIBUTION BY: SPANISH RIVER

updated

AT PLATE NUMBER:

PLATE NUMBER: 000110001

PLATE NUMBER: 000110001

PLATE NUMBER: 000110001

AT PLATE NUMBER:

PLATE NUMBER:

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PLATE NUMBER:

Change to standard vibration alarm data 05-01 to 09-30
Updated to correct alarm 4-15 to 10-15 03-15-95 by 7.

Updated

NAME: [REDACTED] ADDRESS: [REDACTED] CITY: [REDACTED] STATE: [REDACTED] ZIP: [REDACTED]

DATE OF BIRTH: [REDACTED] SEX: [REDACTED] RACE: [REDACTED] HEIGHT: [REDACTED] WEIGHT: [REDACTED]

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. DATE OF DECLASSIFICATION: [REDACTED]

PLATE NUMBER: [REDACTED] DATE OF PLATE: [REDACTED]

PLATE NUMBER: [REDACTED] DATE OF PLATE: [REDACTED]

PLATE NUMBER: [REDACTED] DATE OF PLATE: [REDACTED]

PLATE NUMBER: [REDACTED] DATE OF PLATE: [REDACTED]

PLATE NUMBER: [REDACTED] DATE OF PLATE: [REDACTED]

PLATE NUMBER: [REDACTED] DATE OF PLATE: [REDACTED]

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PLATE NUMBER: [REDACTED] DATE OF PLATE: [REDACTED]

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PLATE NUMBER: [REDACTED] DATE OF PLATE: [REDACTED]

PLATE NUMBER: [REDACTED] DATE OF PLATE: [REDACTED]

PLATE NUMBER: [REDACTED] DATE OF PLATE: [REDACTED]

DEPARTMENTAL ACTION:

DEPT
 DISPOSITION

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DATE

FISH REPRODUCTION

05-01 09-30
 4-15 10-15

.80

N/A

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DATE

DATE

71

DATE

12-03-1993

command .87 LFS, Almond .80 LFS; contact made for possible
 command.

A CREDIT ONLY THE ENTITLED THAT APPLY:

WARRANTY
RECEIVED/ADDITIONAL
ADDITIONAL THE ACCOUNT

ACCEPTED
AS CREDITED
RECEIVED
DATE

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B CREDIT DEBIT CREDIT

N/A

WARRANTY NUMBER: 00-10001
TOTAL WARRANTY DATE OF CREDIT

WARRANTY

EVALUATED

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IS IN THE WARRANTY NUMBER (Y/N)

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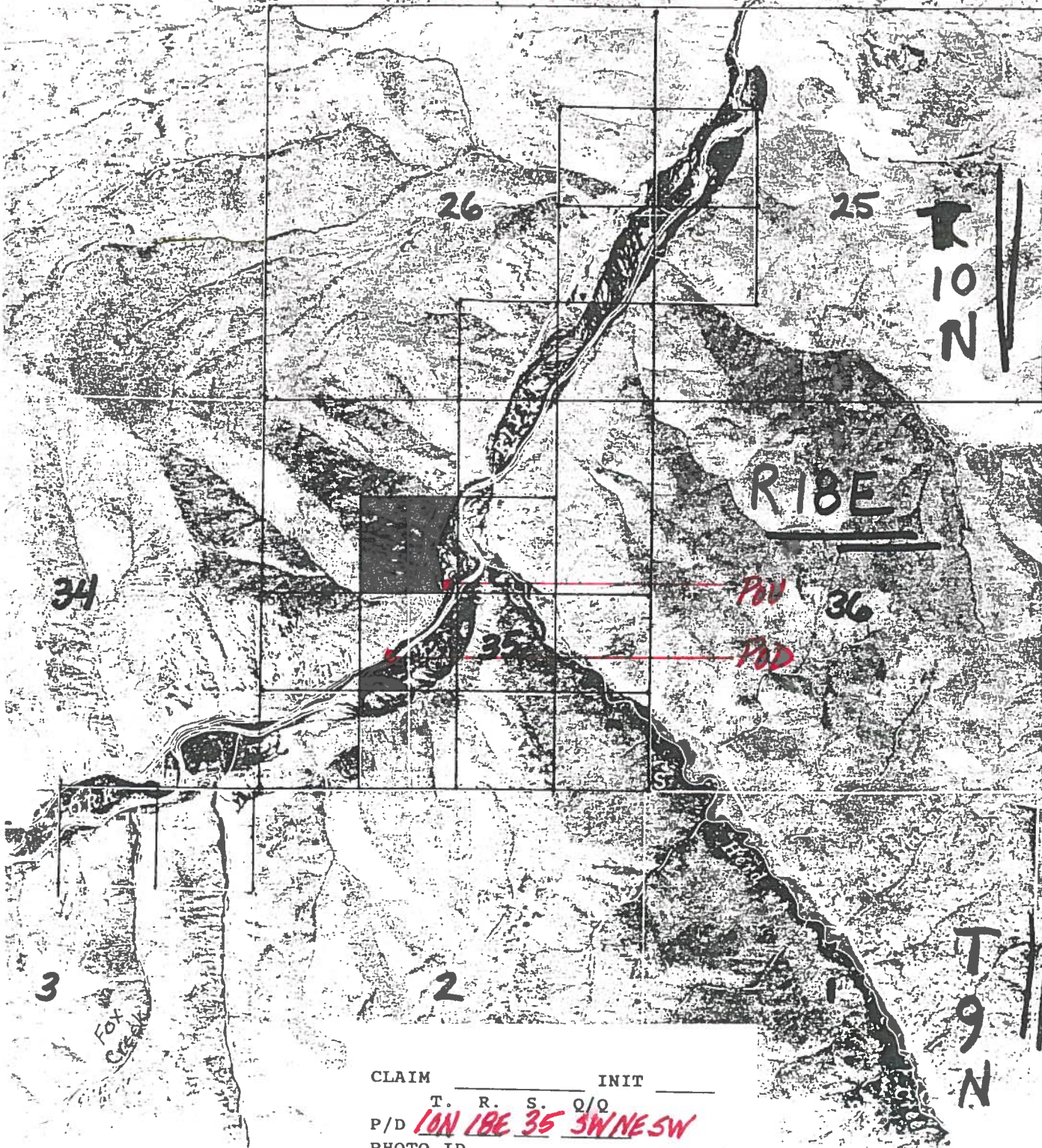
F. S. Warrant

WARRANTY

12-03-1993

WARRANTY

RECOMMENDED

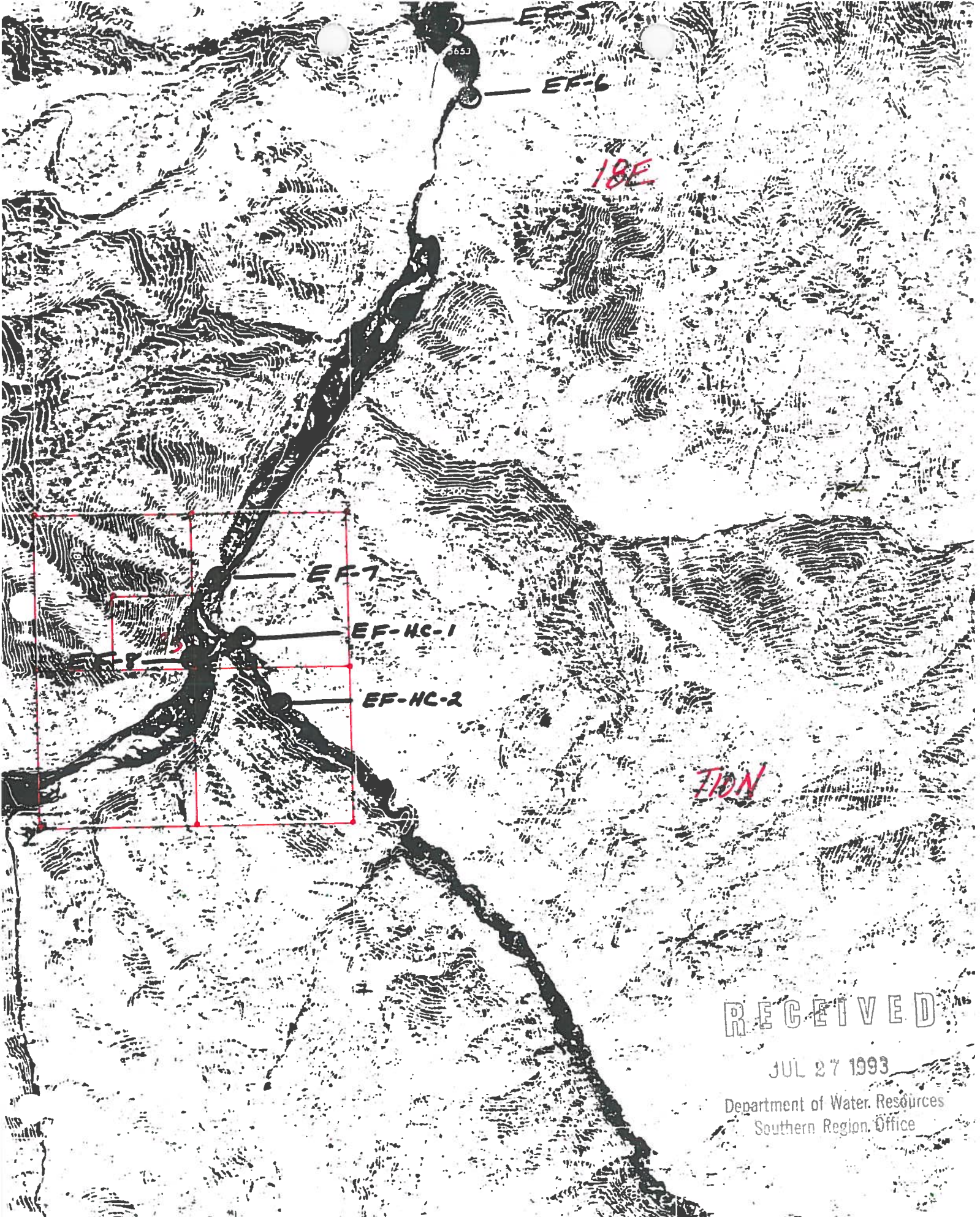


CLAIM _____ INIT _____
T. R. S. Q/Q
P/D *10N 18E 35 SW/NESW*
PHOTO ID. _____

A72-10491

USGS OPD 1974 V-24

EF-B



RECEIVED

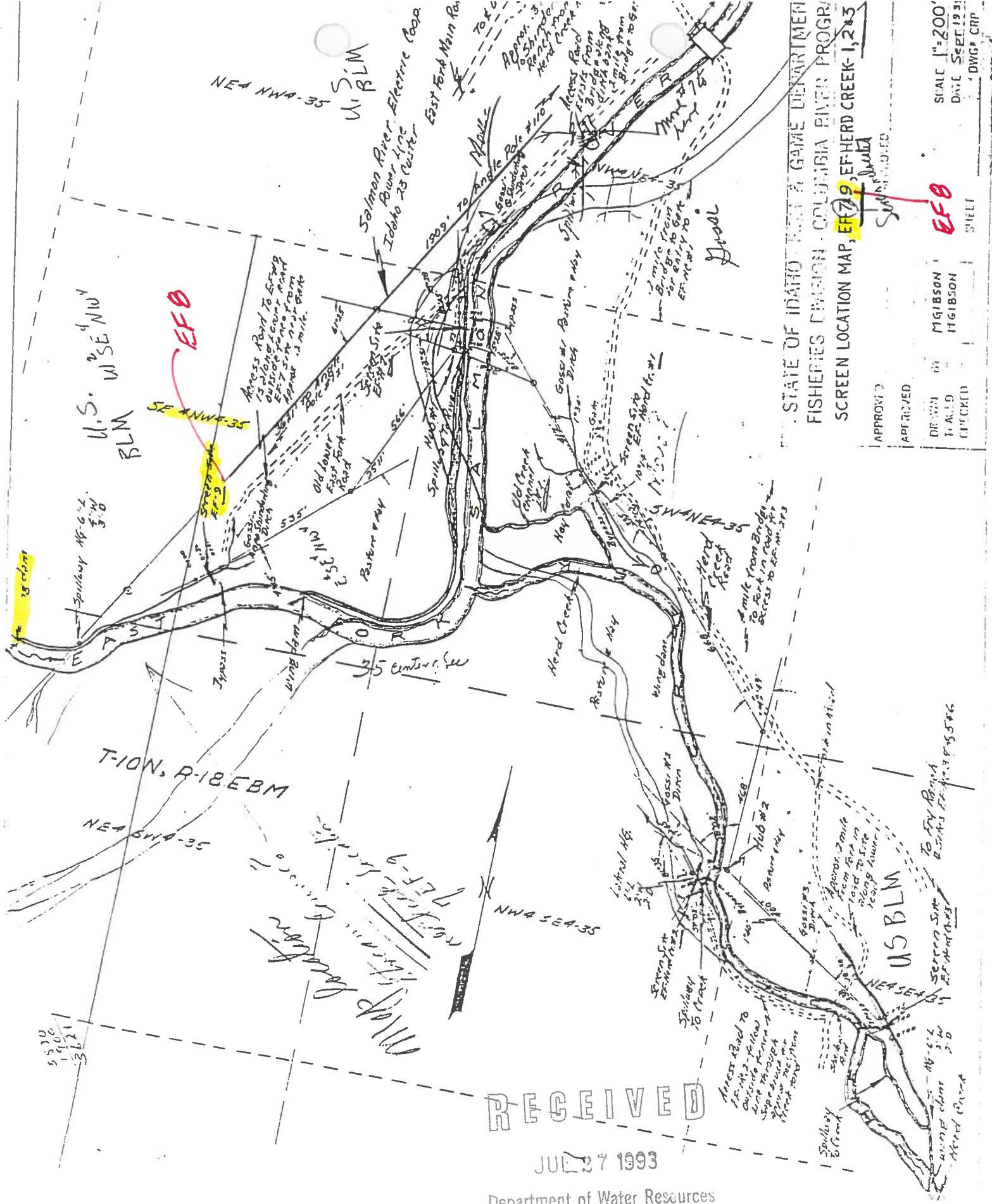
JUL 27 1993

Department of Water Resources
Southern Region Office

A72-10491

TLA-TOPD MAP USGS QUAD

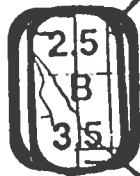
EF-B



A72-10491

IF+G SCREEN LOCATION MAP 00-1050

FEQ



CONSUMPTIVE IRRIGATION REQUIREMENT

based on the most water-consumptive crop in the area (Allen and Brockway, 1983), generally rounded to the next highest 0.5 afy/acre

IRRIGATION SEASON OF USE

based on a 75 % chance of 24 degrees F. or lower occurring on or after the beginning date in the spring and on or before the ending date in the fall (Everson, Faubion, and Amos, 1978)

A	=	May 1	-September 30
B	=	April 15	• -October 15
C	=	April 1	-October 31
D	=	March 15	-November 15
E	=	March 1	-November 30

FIELD HEADGATE REQUIREMENT

consumptive irrigation requirement divided by irrigation application efficiency (70 - 75%) rounded to the nearest 0.5 afy/acre



SEE REVERSE
FOR TEXT

D17-1A401

EF-2

PX# 6
FF 7
407
looking so. down FF-FF-
Pod way so.

197-15-1993 Roll 10
FF-8 09-07-93
PX# 34

looking over room and
moving out @ BARRE'S

Roll 40
FF-8 09-07-93
PX# 32

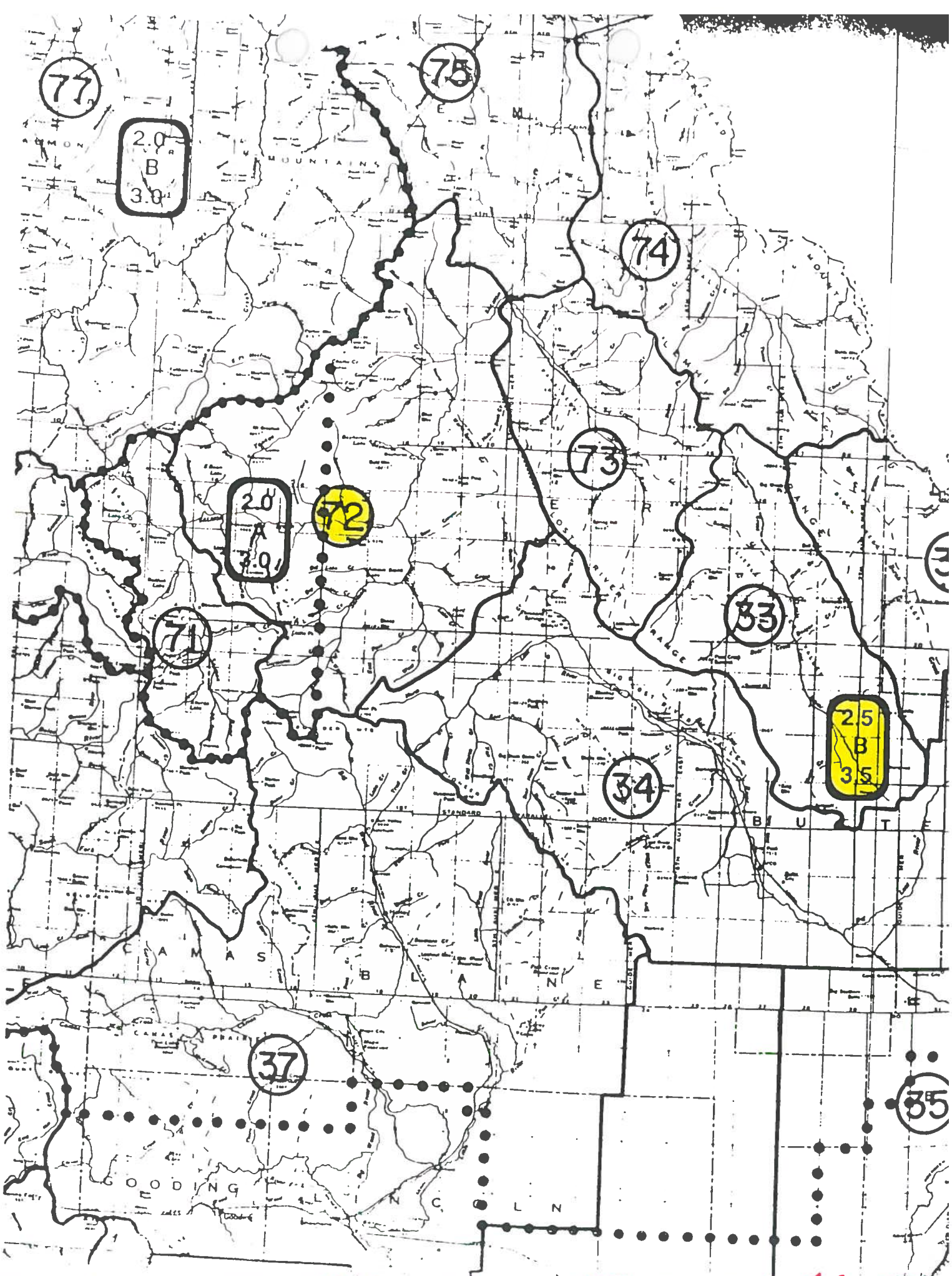
discharge pool - looking
down c.f. - 1/3 full

540 PM Roll 40
71

SEE REVERSE
FOR TEXT

197-10491

EF-8



A72-10491 IDWR SEASON BASIN MAP - USGS 1968 EF-1

DATE: September 13, 1993
FROM: Brett Barry
TO: IDF&G Adjudication Files
Subject: Fish Screens-Measurement

In the Salmon River drainage basin, the IDF&G has built a fish screen on almost every major irrigation canal that diverts water from a river or creek that possess a spawning fish population.

The IDF&G has filed adjudication claims on the diversion of water from the irrigation canal to the bypass pipe at the fish screen.

On September 1 and September 2, and again on September 7 through the 9, Frank Hitchcock and I conducted the field examinations for the adjudication claims. Each fish screen had a unique structure and bypass pipe.

Most of the permits contained bypass pipes that were underground from the entrance at the fish screen to the outlet at the river or creek. Therefore, a Polysonic ultrasound measurement was usually not possible.

Loren Holmes, manager of Southern Regional Office, suggested we survey the bypass pipe and obtain the difference in elevation between the water surfaces. This enables us to find the amount of head(energy per unit weight) consumed in the bypass pipe. Once the amount of head consumed is found, the flow can be calculated by estimating the relative roughness of the pipe or by estimating a Manning's coefficient.

The actual calculation involves using the Manning's equation for head loss in a pipe and the minor losses caused by inlets, outlets, and transitions, and the velocity head generated by an open discharge. This calculation was completed with the use of a program developed by Allen Merritt and myself on LOTUS 1-2-3.

This program is very useful for calculating the discharge when the outlet of the pipe is completely full or the outlet of the pipe is submerged in the creek or river.

When the bypass pipe doesn't possess the characteristics of above, a measurement is obtained by treating the pipe inlet as a submerged orifice with a certain amount of head(see attached sheet).

A7Z-10491

EF-8



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3033

CECIL D. ANDRUS
Governor

R. KEITH HIGGINSON
Director

September 15, 1993

Chuck Keller
Department of Fish and Game
P.O. Box 1336 Highway 93
Salmon, Idaho 83467

Subject: Fish Screens

Dear Mr. Keller,

The attached sheets are a summary of the following diversion rates found in the bypass pipes at their respective fish screens. The head corresponds to the height of water from the middle of the pipe to the water surface.

The diversion rates were calculated by using an Polysonic ultrasound flowmeter whenever the bypass pipes were exposed enough. However, this was usually not the case. Therefore, I surveyed the water surfaces at the inlet and outlet. This enabled me to find the amount of head (energy per unit weight) consumed in the bypass pipe. The flow was then calculated by estimating a Manning's coefficient in the Manning's equation for head loss in a pipe. If the pipe was not full at the outlet, the diversion rate was calculated by treating the pipe as a submerged orifice with a particular discharge coefficient.

There were certain fish screens that we were unable to locate or found to be out of operation. Mel Schulte, Senior Water Resource Agent, will be contacting your department this fall about the status of these fish screens.

I am returning to Oregon State University on September 23. Therefore, if you have any particular questions, please be free to contact me at 736-3033.

Sincerely,

Brett Barry
Water Resource Agent

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145. **Orifice Relationships.**—Formulas (45) and (46) can be used to develop a formula for flow through an orifice (a hole in the side or bottom of a container of water (fig. 107)). To find the velocity of flow in the orifice, use formula (46), $v = \sqrt{2gh}$. Then using the size or area of the hole, the quantity of water being discharged, Q , can be determined using formula

(45), $Q = Av$. This can be accomplished in one step, however, if the two formulas are combined.

Inserting the value $\sqrt{2gh}$ for v in $Q = Av$ gives

$$Q = A\sqrt{2gh}, \quad (47)$$

the formula for the *theoretical* discharge through an orifice. This formula assumes that the water is frictionless and is an ideal fluid. Since water is not an ideal fluid, a correction must be made.

The jet of water, after passing through the orifice, continues to contract, and if the orifice edges are sharp, the jet will appear as shown in figure 108. The maximum jet contraction occurs at a distance of one-half the orifice diameter, or $d/2$, downstream from the sharp edge, and the cross-sectional area of the jet will be only about six-tenths of the area of the orifice. Accordingly, formula (47) must contain a coefficient, C , to accurately determine the quantity of water being discharged. Thus, in actual practice,

$$Q = CA\sqrt{2gh} \quad (48)$$

For a sharp-edged orifice where full contraction occurs, the coefficient is about 0.61, and the formula becomes

$$Q = 0.61A\sqrt{2gh}$$

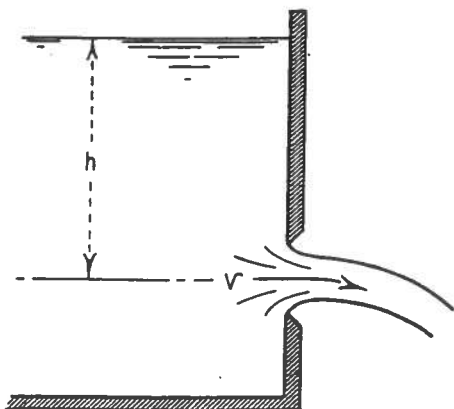


Figure 107.—Orifice flow. 103-D-986.

Water Measurement
Manual

United States Department of Interior
Bureau of Reclamation Denver 1967 pgs 309-310

Prepared by Brett Barry
on 9-3-93

TUBES, CULVERTS, AND SIPHONS

Cylindrical Tubes. A short cylindrical tube $2\frac{1}{2}$ to 3 diameters in length with sharp upstream corners (Fig. 43) is called a *standard short tube*. The sharp corner causes the jet to contract, but it soon expands and fills the tube. The space s surrounding the contracted jet is filled with air and eddying water. Since the velocity at m in the contracted

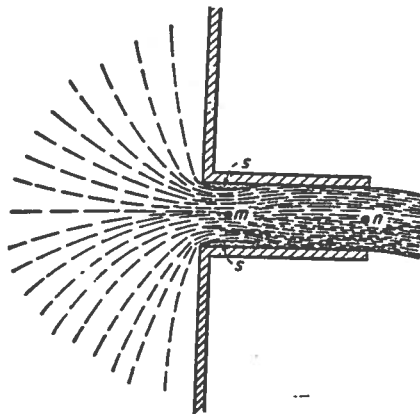


FIG. 43. Standard short tube.

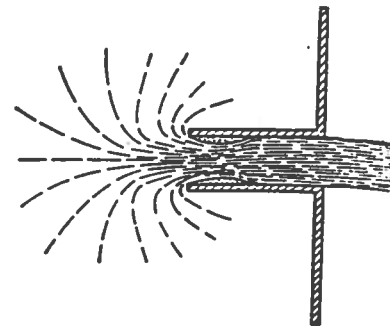


FIG. 44. Reentrant tube.

jet is greater than at the outlet n where pressure is atmospheric, it can be shown by Bernoulli's equation that the pressure at m is less than atmospheric pressure. The discharge of this tube is therefore greater than the discharge of a sharp-edged orifice of the same diameter under the same head. Since the tube flows full, the coefficient of contraction is unity, and the coefficient of discharge [Eq. (54)] equals the coefficient of velocity. From experiments, the average coefficient of discharge C is 0.82. Substituting this value of C , or C_v , in Eq. (58) gives as the head lost in discharge

$$h_l = 0.50 \frac{v^2}{2g} \quad (65)$$

where v is the mean velocity in the tube. The conditions of flow in a short tube correspond to the conditions at the entrance to a pipe.

A tube projecting into a body of water (Fig. 44) is called a *reentrant tube*. The contraction produced by this tube is greater than for the standard short tube. The behavior of the water in the two kinds of tubes is otherwise similar. From experiments, the coefficient of discharge $C = 0.75$ and the lost head $h_l = 0.78v^2/2g$.

Civil Engineering Handbook

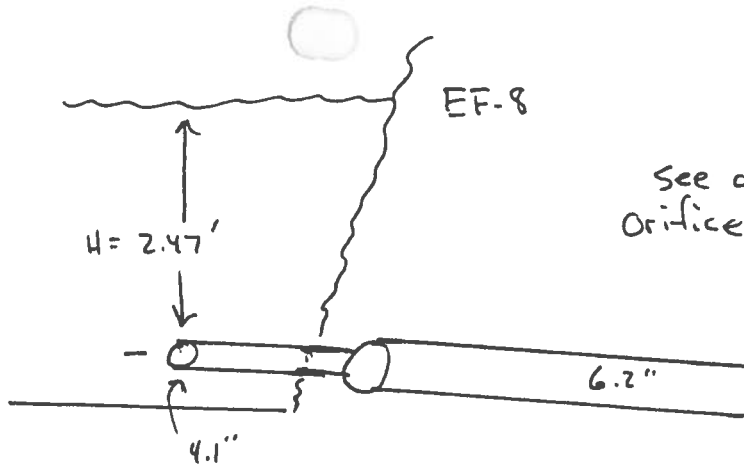
Urquhart, Leonard

McGraw-Hill Book Company, Inc.

1959 pgs. 4-37-4-38

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EF-B



see attached sheet for
orifice definitions & relationships

$$\begin{aligned}
 Q &= CAU = CA\sqrt{2gH} \\
 &= 0.75 \left(\pi \frac{(4.1)^2}{4} \right) \sqrt{2(32.2)(2.47')} \\
 &= \underline{0.87 \text{ cfs}}
 \end{aligned}$$

estimated discharge
coefficient (C) from
seebach tube
= 0.75

9-7-93

EF-8 /

H = 2.3 top of pipe to water surface

4" plastic inlet re-circulated tube entrance

6" PVC outlet 100% open discharge

40% full outlet

A72-10491 09-07-1993 5¹²_{PM}

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Dept. of Fish and Game - Fish Screens

Basin 72			
Screen	Diversion Rate (cfs)	Head (ft)	
EF-1	1.72	1.76	
EF-2	1.95	2.00	
EF-3	1.39	1.21	
EF-4	1.63	1.39	
EF-5	0.77	1.96	
EF-7	1.68	1.48	
EF-8	0.87	2.47	
EF-9	0.60	1.17	
EF-10	1.64	1.42	
EF-11	1.17		
EF-12	1.00	1.40	
EF-13	.57	2.77	
EF-15	1.52	1.46	
EF-16	1.24		
EF-17	0.75	1.76	
EF-18	1.05		
EF-19	1.74	1.60	
EF-20	0.82	1.50	
HC-1	0.73	1.75	
HC-2	0.46	0.69	
HC-3	0.71	1.40	
BBC-1	0.77	1.97	
BBC-2	0.78	2.00	
WSC-1	0.28	0.86	

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EF 8

TELEPHONE MEMORANDUM

Incoming Call
X _____
Outgoing Call 1.10 PM to 1.35PM

Returning Call

TO: Chuck Keller, Program Director

DATE: 10-19-1993

FROM: FH

FILE: Idaho F & G SRBA claims for Salmon River, East Fork, fish screens

FILE NO: _____

SUBJECT: diversion rates in excess of claimed amounts as a result of
field exam measurements

REMARKS: described results of measurements that were over the claimed
diversion rates and suggested possible amendment(s) to claims if they wanted to.

Keller said that he didn't know what the basis for the diversion rate was based
on since his only experience is based on the 10% of canal Q that is used by BOR
in Washington state where is based. He is "on loan" to F & G at this time.

Described the review period established by the court for his future use.

ROUTING
INSTRUCTIONS: _____

CALENDAR
DATES: _____

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SEF-07

05/25/93	6.8 Above	-	n/a
07/12/93	13.2	0.6-0.7F	n/a
09/14/93	12.0	0.5-0.6F	n/a
09/07/93 ~IDWR	14.75		

08/11/59	12.6	-	-
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SEF-08

05/26/93	5.1	1.93	n/a
07/13/93	3.4	1.75	n/a
09/14/93	3.8	-	n/a
09/07/93 ~IDWR	4.11 Above		

SEF-09

05/26/93	7.4	98% Sub.	n/a
07/13/93	5.3	97% Sub.	n/a
09/14/93	3.1	None	n/a
09/07/93 ~IDWR	3.1 Above		

1958 or 1959 6.4 - -
 Headgate washed out 1958, to rebuild in 1960 for 5.0 cfs. (1959 data)

SEF-10

05/26/93	6.3	1.21	n/a
07/13/93	4.1	1.58	n/a
09/15/93	6.5	1.06	n/a
09/07/93 ~IDWR	9.0 Above		

08/24/59	5.5	-	-
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SEF-11

05/27/93	14.8	1.66	n/a
07/13/93	17.9	1.75	n/a
09/15/93	13.6	1.58-1.59F	n/a
09/07/93 ~IDWR	17.5		

07/17/59	8.8	-	-
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SEF-12

05/27/93	16.8	-	n/a
07/13/93	17.7	2.1-2.2F	n/a
09/20/93	13.6	1.96-2.0F	n/a
09/09/93 ~IDWR	16.0		

07/17/59	8.4	-	-
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RECEIVED

NOV 30 1993

Department of Water Resources
 Southern Region Office

A72-10491 IF+G 1993/1959 DATA

EF-8