

NAME:

F & G

CLAIM: A 72-10513

CORRESPONDENCE

EVIDENCE OF

PRIORITY

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: A72-10513
Date Received: 8/16/1990
Receipt No: T017346
Received By: _____

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: STATE OF IDAHO
Address: DEPT. OF FISH & GAME
P.O. BOX
BOISE, ID 83720
208-334-3700
2. Date of Priority: NOV 16, 1959
3. Source: HERD CREEK
Trib. to: EAST FORK OF SALMON RIVER
4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
10N	18E	35	NW	SE			CUSTER
5. Description of diverting works:
CONCRETE STRUCTURE, DITCH & BYPASS PIPE
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
10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
10N	18E	35	NW	SE		FISH	
11. Place of use in counties: CUSTER

A72-10513

Page 1

Date: 08/17/90

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MAR 18 1993

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

13. Other Water Rights Used:
NONE

14. Remarks:

EASEMENT AGREEMENT EF-HC-2, FILED AT CUSTER CO. COURTHOUSE ON
11/16/59, PAGES 532, 533, 555-557, BOOK 33.
DITCH OWNERS--F. & R.A. GOSSI.

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 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 A72-10513Date Received 6/19/90Receipt Number T017346

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) November 16, 19593. Source of water supply (a) Herd Creek
which is tributary to (b) East Fork of Salmon River4. a. Location of existing point of diversion is: Township 10 N. Range 18 E Section 35,
1/4 of NW 1/4 of SE 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-HC-2

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	
10 N	18 E	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: Easement Agreement EF-HC-2, filed at Custer Co. Courthouse
on 11/16/59. Pages 532, 533, 555-557, Book 33
Ditch owners - F. & R. A. Gossi.

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MAR 18 1993

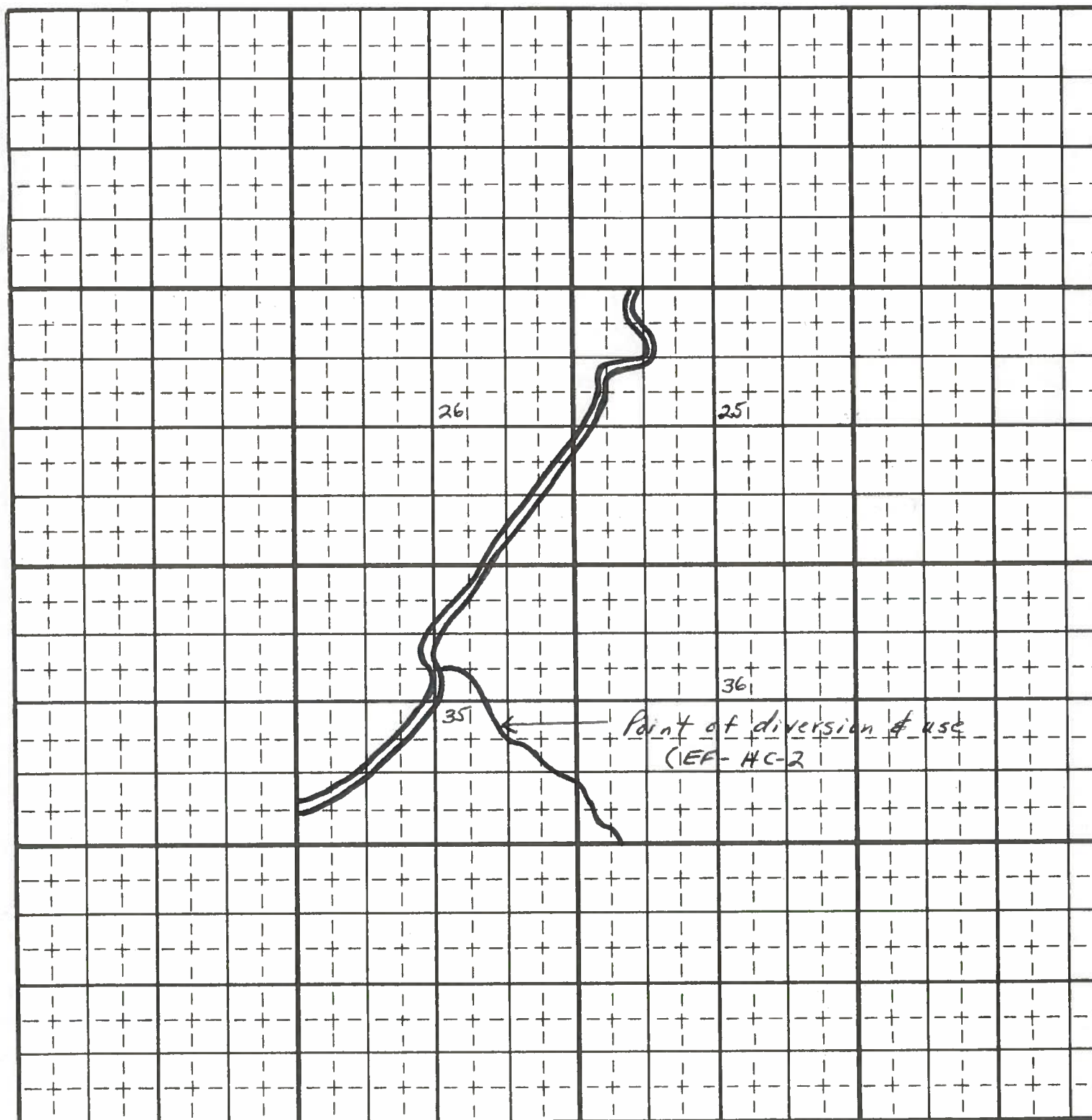
Last Name IDF#G Ident No. _____

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. 10N. R. 18E.



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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 _____ License _____ 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
IDAHO DEPT. OF FISH & GAME Title _____

of _____, that I have signed the foregoing

document in the space below as Acting Director of **IDAHO DEPT. OF FISH & GAME**
Organization Title Organization

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

Signature of Authorized Agent Kimberly D. Price

Title and Organization Assistant Director Date 3-13-90
IDAHO DEPT. OF FISH & GAME

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

Subscribed and sworn (or affirmed) before me this 13th day of March 19 90

SEAL

Notary Public Larry L. Vanholm

Residing at Emmett, ID

My Commission Expires 8-15-93

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 _____

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MAR 18 1993

Last Name IDFG Ident. Number _____

Copies White-State, Yellow-Claimant

Form 42-1409(10)-1
5/88

Date Received _____

State of Idaho
Department of Water Resources

REQUEST FOR EXTENSION OF TIME
TO FILE ADJUDICATION CLAIM(S)

The Idaho Department of Water Resources will consider this form as a request that the claimant be granted an additional period of time in which to file claim(s) beyond the 90 days allowed by Section 42-1409(10), Idaho Code.

Idaho Department of Fish and Game
Name of Claimant

P. O. Box 25, 600 South Walnut
Post Office Address

Boise, ID 83707
City, State, Zip Code

County(s) where Place of Use is located

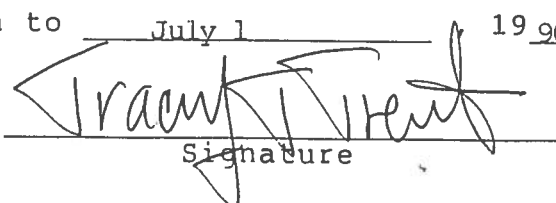
Date Claim Originally Due

Identify water right(s) for which extension is requested

State reason(s) why an extension of time is requested:

Changes in personnel responsible for filing claims have resulted in
delays in completing applications.

Claimant requests an extension to July 1 1990.


Signature

Chief, Bureau of Program Coordination
Title

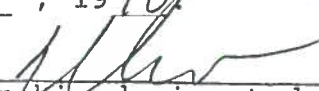
=====

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

The above request for extension of time is hereby

X granted _____ denied,
and the filing deadline extended to June 30, 1990.

Signed this 2 day of June, 1990


Director or his designated agent
DAVID B. SHAW

MICROFILME

MAR 18 1993

4/5/1989

SRBA CLAIMS RECEIVING CHECKLIST #2

CLAIMANT'S NAME

IDFG

CLAIM IDENT. NO.

A72-10513

DATE RECEIVED

6/19/90

CK #

7017346

AMOUNT \$

58 applied

YES

NO

Regul
Infc

1. Is the name and address complete with zip code? ☒ YES ☐ NO *
2. Is a priority date entered?
Is the priority date acceptable in view of mandatory filing dates?
See Adjudication Memos #1 and #4 to determine if a Permit is required. ☒ YES ☐ NO *
3. (a) Is a source entered? ☒ YES ☐ NO *
- (b) Is a tributary to entered? (if required) ☒ YES ☐ NO N/A *
4. Is the legal description of the p.d. sufficient? ☒ YES ☐ NO *
5. Is there a description of the diverting works? ☒ YES ☐ NO *
6. Are the water uses appropriate for the form? The short form is limited to domestic and stockwater uses with direct diversion. All claims that include storage or instream stockwater must use long form. ☒ YES ☐ NO *
- Is the period of use included? ☒ YES ☐ NO *
- Is a quantity claimed for each use? ☒ YES ☐ NO *
7. Is a total quantity claimed entered? ☒ YES ☐ NO *
8. If required is a consumptive use entered? ☒ YES ☐ NO N/A *
- Is the consumptive use correct? ☒ YES ☐ NO N/A *
9. Are the non-irrigation uses listed properly? If this claim is on the short form, and more than one domestic use is listed, single ownership must be stated. If not under single ownership, see Adjudication Memo # 4. ☒ YES ☐ NO N/A *
10. Is (are) the place(s) of use and purpose(s) indicated? ☒ YES ☐ NO *
11. Is (are) the county(ies) entered? ☒ YES ☐ NO *
12. Is the ownership of p.u. checked? ☒ YES ☐ NO *
13. Are other water rights listed or "none" indicated? ☒ YES ☐ NO *
14. If required, are remarks correct? (If the claimant does not own the place of use, authority for filing the claim must be explained in the remarks.) ☒ YES ☐ NO N/A *
15. Is the basis of the claim indicated? ☒ YES ☐ NO *
16. If the claimant requested a monthly docket sheet, is payment enclosed? (If yes, describe payment status in "Comments" below.) ☒ YES ☐ NO N/A *
17. Is the claim signed by the claimant, and is the signature appropriate? Organizations must complete the organization block. ☒ YES ☐ NO *
18. Has the claim been signed, sealed, and dated by a notary? ☒ YES ☐ NO *
19. Was this claim filed on time, or was an extension granted? ☒ YES ☐ NO *
20. Is the fee enclosed correct? ☒ YES ☐ NO Exempt *
21. If this claim is based on an existing water right, has the identification number been entered? ☒ YES ☐ NO N/A *
22. Should this claim be data entered? ☒ YES ☐ NO *

Claim checked by:

Rat

Date:

8-1-90

Claim must be returned to claimant:

(Yes)

(No)

Claimant must be notified of modifications:

(Yes)

(No)

Receipt Prepared by:

Claim data entered by:

Sent to claimant by:

Date:

Date:

Date:

Checked by:

Date:

Comments:

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MAR 18 1993



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3031

CECIL D. ANDRUS
Governor

March 2, 1992

R. KEITH HIGGINSON
Director

A72-10513
STATE OF IDAHO
DEPT. OF FISH & GAME
P.O. BOX
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

1992

Department of Fish Resources
Bozeman, Montana

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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MAR 18 1993



IDAHO FISH & GAME

600 South Walnut / Box 25
Boise, Idaho 83707

April 15, 1992

RECEIVED

APR 17 1992

Department of Water Resources
Nevada Regional 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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RECEIVED

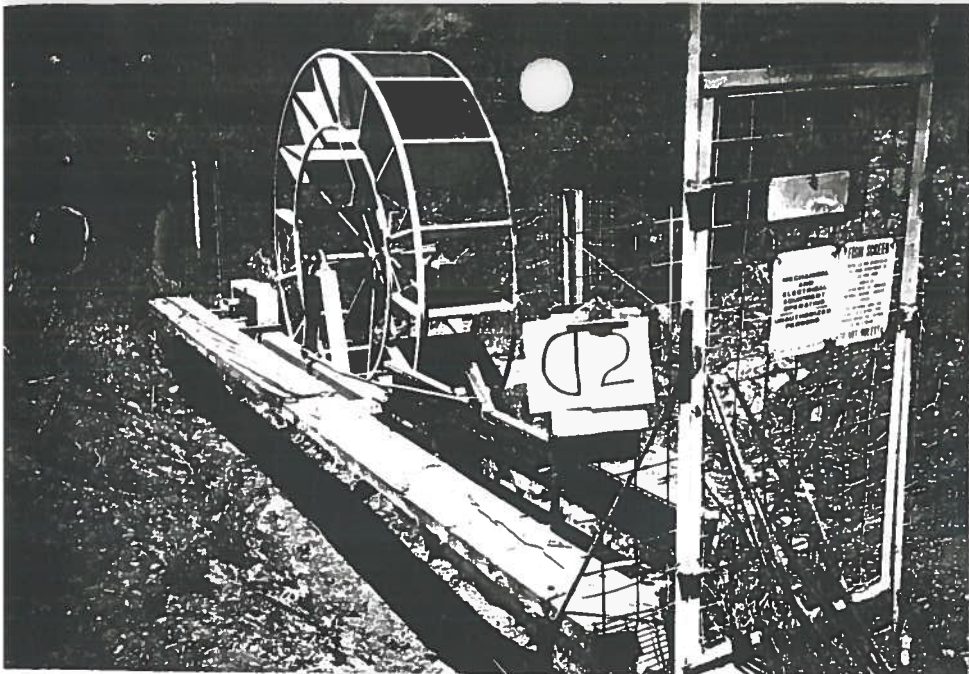
APR 16 1992

Department of Water Resources
Southern Region Office

EVIDENCE OF PRIORITY DATE FOR ADJUDICATION CLAIM NO. A72-10513

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MAR 18 1993



BUILT 1963

SCREEN # EF HC # 2

APPROACHMENT DITCH SIZE 1'x2'

USE *Q.M.* IN PROCESS AFTER SETTING
10 YEARS.

TYPE OF SCREEN *Wiper, Water Wheel*

SIZE OF SCREEN 3'x8'

MODIFIED *No*

STRUCTURE *Pool*

CATWALKS *Pool*

HANDRAILS *None*

BYPASS SIZE 4"

HOW REDUCED *Not*

APPROX. LENGTH *50 yds*

TRASH RACK *Pool*

CONDITION OF ROAD

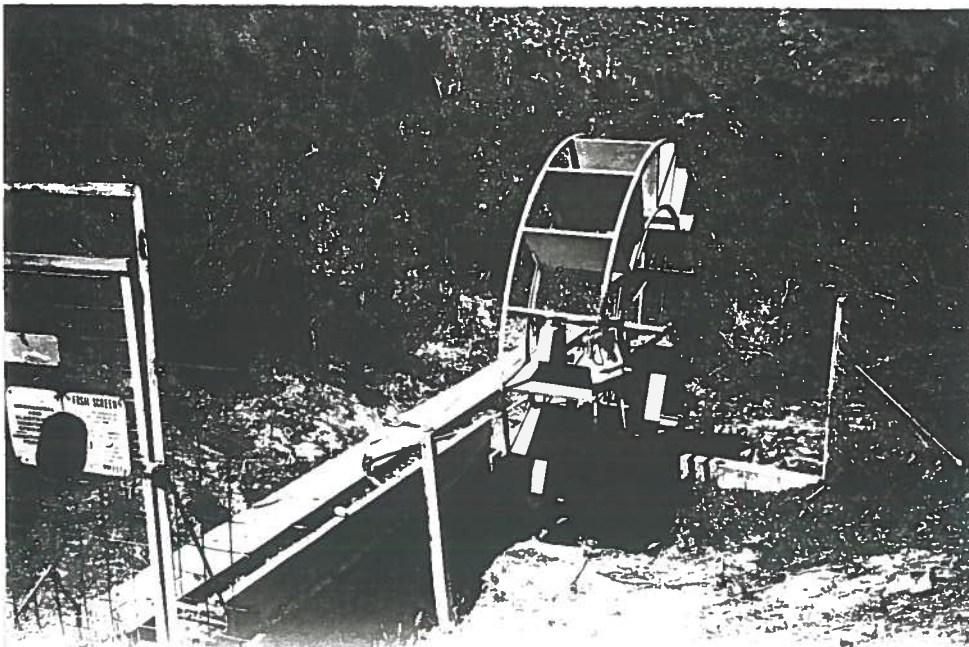
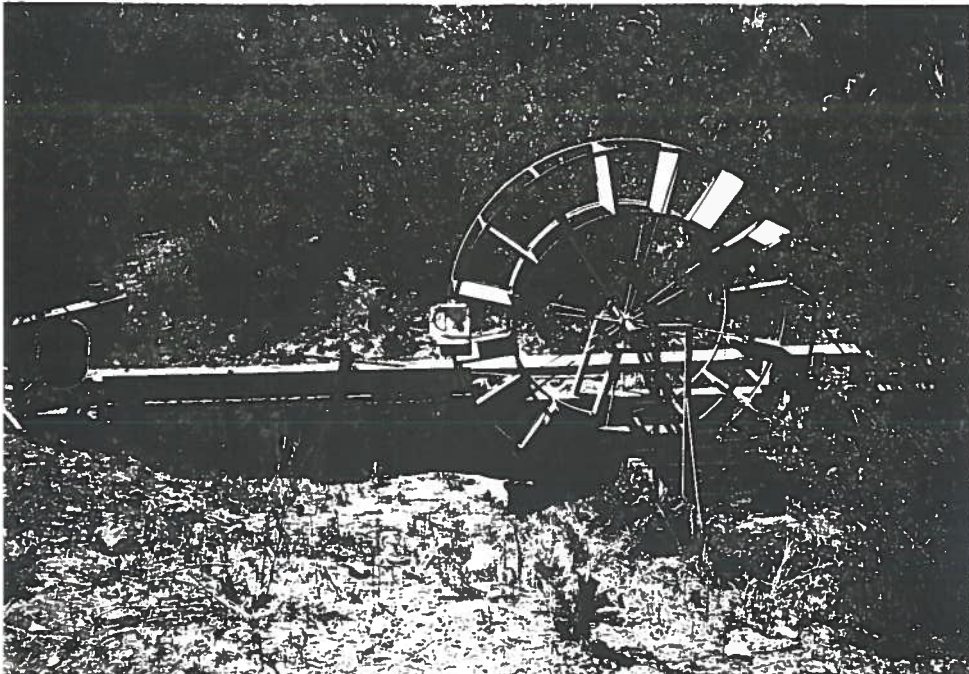
CONDITION OF GATES

ADDITIONAL COMMENTS

SCHEDULED REPLACEMENT

1990-95

A72-10513



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MAR 18 1993

C.R.P.
LEMHI-CUSTER COUNTY
STRUCTURES CONSTRUCTED
DURING YEAR
1963

A72-10513

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MAR 18 1993

S-10-B

S-12 PBSC 9

S-13 SEF 15

S-14 SEF 17

S-16 SEF 18

S-17 " 14

S-18

S-18A

P.C. 1

P-13

H.C. 1 (HERD)

" 2 A72-10513

SEF 2

SEF 3

SEF 4

SEF 5

SEF 6

SEF 7

SEF 10

SEF 10A

SEF 11

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MAR 18 1955

S-10-B
 S-12 PGSC
 S-13 SEF
 S-14 SEF
 S-16 SEF
 S-17
 S-18
 S-18A
 P.C.1
 P-13
 H.C.1 (HERD)
 " " 2
 SEF 2
 SEF 3
 SEF 4
 SEF 5
 SEF 6
 SEF 7
 SEF 10
 SEF 10A
 SEF 11

A72-10513

CORP-1963

Herd Creek 3 CU-2 2X8

Top Wall 98.63

Top footer 95.57

Bot footer 94.95

By-Pass
4" X 110'

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MAR 18 1993

OWNER
CODE

NAME & ADDRESS

PRIORITY
DATE

WATER USE

USE PERIOD
FROM TO

DIVERSION
RATE

DIVERSION
VOLUME

C STATE OF IDAHO

-04/15/1963 FISH PROPAGATION

04-15 10-15

0.46 CFS

0.46 CFS

Water Source: HERD CREEK

Tributary to: SALMON RIVER, EAST FORK

Stage: BENEFICIAL USE

Point(s) of Diversion: T10N R18E S35 NESESE

CUSTER County

Place of use Legal Description for: FISH PROPAGATION

NE

SE

NENE NWNE SENE : NENW NWNW SNNW SENW : NESW NWSW SWSW SESW : NESE NWSE SWSE SESE :

T R S : Lt Ac Lt Ac Lt Ac Lt Ac : Lt Ac Lt Ac Lt Ac Lt Ac : Lt Ac Lt Ac Lt Ac Lt Ac : Lt Ac Lt Ac Lt Ac Lt Ac :

10N 18E 35 :

POU County: CUSTER

Non-Irrigation Uses: FISH/ BYPASS PIPE AT FISH SCREEN

Other Rights: NONE

Remarks: *EXP* THE FOLLOWING RIGHT IS ALSO DIVERTED THROUGH POINT OF DIVERSION
DESCRIBED ABOVE: 72-00190.

Dates: Exam Made Date: 07/15/1993 Verified Date: Objection Filed Date:

Misc: Water District Number: Field Inspection Flag: Presumption Flag:

Comments: Date: 12/09/1993 User-ID: HITCHCOC Subject: COPIED FROM REMARKS
EASEMENT AGREEMENT EF-HC-2, FILED AT CUSTER CO. COURTHOUSE ON
11/16/99, PAGES 532, 533, 555-557, BOOK 33.
DITCH OWNERS--F. & R.A. GOSSI.

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

R PROOF

CVR

MAPS

PHOTOS

MISC

—

—

—

—

—

(REGIONAL)

Water Right Number - R72-10513

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- X
Phone - 208-000-0000

State- ID Zip- 0

+ - - Priority Date - - + + - - - Region - - - + + - - - Stage - - - + + - - - Status - - - +
04/15/1963 17 SOUTHERN J - BENEFICIAL USE

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

+ - - - - Point of Diversion - - - - - +
Twn Rng Sec Tract Lot Rflg County
10N 18E 35 NE SE SE (37) CUSTER

+ - - - - Water Use - - - - - +
Code Description Period From Period To Diversion Rate Diversion Volume
19 - FISH PROPAGATION 04/15 10/15 0.460
+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Consumptive Use - + + - KW Usage - +
0.460 0.0

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

+ - - Diversion Means - CONCRETE STRUCTURE, DITCH & BYPASS PIPE
+ - - Non-Irrigation Use - FISH/ BYPASS PIPE AT FISH SCREEN
+ - - Other Rights for Same Use - NONE

+ - - - - Remarks - - - - - +
THE FOLLOWING RIGHT IS ALSO DIVERTED THROUGH POINT OF DIVERSION
DESCRIBED ABOVE: 72-00190.

Water right number - R72-10513

Prefix Translation: RESEARCH

+ - - - - Old Water Right Numbers - - - - - +
+ - - - - 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: HITCHCOG Subject: COPIED FROM REMARKS 11/16/59, PAGES 532, 533, 555-557, BOOK 33.
EASEMENT AGREEMENT EF-HC-2, FILED AT CUSTER CO. COURTHOUSE ON
DITCH OWNERS--F. & R.A. GOSSI.

+ - - 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 - 08/16/1990 Last Amended Date - 00/00/0000 Temporary Right - P
Receipt Number - T017346 Water District -
POU Ownership Flag - N Federal/State Indicator - S
Name Connector - OR Presumption Flag -
Notice of Error Flag -

WR ELEMENT	FIELD EXAM Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	VERIFIED BY CODE	COMPLETED REVIEW WHOM/DATE	COMPLETED DATA ENTRY WHOM/DATE	VERIFIED DATE WHOM/DATE
PRIORITY DATE	Y		07-15-93	Y	62		12-02-93	
POINT OF DIV	Y			Y	1562			
SOURCE	Y			Y	1562			
PLACE OF USE	Y			Y	563			
DIV. AMOUNT CFS/VOLUME	Y	MEMO TAN 12-01-1993		Y				
CONSUMPTIVE USE	-							
PURPOSES	Y							
PERIOD OF USE	Y			Y	64			
BASIS OF CLAIM	Y							
REMARKS	Y							

VERIFIED BY CODES

TOPO MAP/ORTHO-PQ = 1
 ASCS MAP = 2
 WATERMASTER RECORDS = 3
 NAPP PHOTOS = 4
 FIELD EXAM = 5
 OTHER (SEE REMARKS) = 6

THESE CODES ARE USED TO INDICATE HOW THE FIELD EXAMINER VERIFIED THE INFORMATION
USED FOR THIS FIELD EXAMINATION. INDICATED ARE ALL CODES WHICH APPLY.

62 ITR field record
 62 BSM aerial photo
 63 measurement
 64 ITRM irrig. standard

LAST: STATE OF IDAHO
ADDRESS: P.O. BOX DEPT. OF FISH & GAME
CITY: BOISE
PHONE NUMBER: 208-334-3700
OWNER CODE: C

FIRST:
STATE: ID ZIP: 83720

83702

T: DEPT. OF FISH & GAME
ADDRESS:
CITY: X
PHONE NUMBER: 208-000-0000
OWNER CODE: K

FIRST:
STATE: ID ZIP: 0

FIELD EXAM REQUIRED?
VERIFICATION REQUIRED DUE TO REMARKS?

DATABASE Y FIELD EXAMINER

CLAIM REMARKS: EASEMENT AGREEMENT EF-HC-2, FILED AT CUSTER CO. COURTHOUSE ON
11/16/59, PAGES 532, 533, 555-557, BOOK 33.
DITCH OWNERS--F. & K.A. GOSSET.

Updated

A. AJ CLAIM: # A72-10513 PRIORITY DATE: 11-16-1959 STAGE: J

B. WR RECORD: NO WATER RIGHT RECORD TO MATCH THIS AJ CLAIM

C. FIELD EXAM REQUIRED? DATABASE Y FIELD EXAMINER

DUE TO PRIORITY DATE DISCREPANCY? (Y/N)

ARE THERE OBVIOUS REASONS TO QUESTION THE PRIORITY DATE CLAIMED? Y () N ()

REMARKS:

Priority date claimed is the date of the invention according to the Co. At that point I would use the 05-01-1963 based on photo copy of the structure. However, assumed date based on invention should date for the date.

Updated patent version of vol 4-15 to 10-15 03-15-1995 by H.

RECOMMENDED PRIORITY DATE:

~~05-01-1963~~

04-15-1963

REVIEWED BY H

DATE

12-02-1993

updated

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
472-10513	10N	18E	35		NW	SE		CUSTER

OTHER AJ CLAIMS WITH SAME AJ POD

A PREFIX R PREFIX
NONE NONE

WR RECORDS IN SAME 40 ACRE TRACT

72-00190

SOURCE: HERD CREEK

★ TRIB: EAST FORK OF SALMON RIVER

B. WR POINT OF DIVERSION AND SOURCE:

THERE IS NO WATER RIGHT RECORD WITH THE SAME CLAIM NUMBER

SOURCE: NO SOURCE FOR RECORD

TRIB: NO TRIBUTARY FOR RECORD

C. FIELD EXAM REQUIRED?

DUE TO POD DISCREPANCY?	(Y/N)	DATABASE	FIELD EXAMINER
DUE TO SOURCE DISCREPANCY?	(Y/N)	Y	---

REMARKS:

POD is NESESE. Reopened 1565 OFA 1974 1-24. IF+G-5085N 40 ACRE MAP 08-1954; BUM RECORD 2N 7B-10N 2
8164 plat #27 06-23-1981.

RECOMMENDED POINT(S) OF DIVERSION AND SOURCE:

TWP.	RGE.	SEC.	1/4	1/4	LOT	COUNTY
10N	18E	35	NE	SE	SE	CUSTER

SOURCE: HERD CREEK
REVIEWED BY: ~~---~~ TRIB: SALMON RIVER, EAST FORK
DATE: 12-02-1943

★ updated
★ updated

A. ROOT WATER RIGHT NUMBERS: A72-10513

B. POU LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA	FIELD EXAM.	RECOMM. ACRES
10N	18E	35	~~NW~~	SE		STATE OF IDAHO	A72-10513	/	14.0		
			NW	SE		BAKER, RICHARD L.	A72-00190	/			
			NW	SE		BAKER, RICHARD L.	A72-00193	/			
			NW	SE		BAKER, BETTY L.	A72-00194	/			
			NW	SE		GOSSI, ROSA A.	72-00191	/			
			NW	SE		GOSSI, ROSA A.	72-00192	/			

TOTAL ACRES A72-10513 14.00

F. IRRIGATED ACRES FOUND IN TRACTS OTHER THAN INDICATED ABOVE, Y () N ()
YES SEE ATTACHED SHEET:

C. FIELD EXAM REQUIRED? DATABASE FIELD EXAMINER POU COUNTY: CUSTER

DUE TO POU DISCREPANCY? (Y/N) Y

PRESUMPTION FLAG:

REMARKS:

Actual location of fish stream is NESE, 10N 18E S35. Review
MAD 1545 ORQ 1974 V-24; IF+G-TWO MAD 1545 QUAD. IF+G-SURE
LOCATION MAP 09-1959; BLM AERIAL LN 70-7012 8164 plat #27
06-23-1981.

COMMENDATIONS:

TOTAL ACRES: N/A

REVIEWED BY: JH

DATE: 12-22-1993

✓ updated

A. AJ CLAIMED USES:

PURPOSES
A72-10513 FISH PROPAGATION

MONTH/DAY
FROM 03-15 TO 11-15

TOTAL DIVERSION RATE/VOLUME CLAIMED

DIVERSION QUANTITY
.800 CFS
.800 CFS

B. WR RECORDED USES:

PURPOSES

MONTH/DAY

DIVERSION QUANTITY

PRESUMPTION FLAG:

C. FIELD EXAM REQUIRED?

DUE TO WATER-USE DISCREPANCY? (Y/N)
DUE TO DIVERSION RATE DISCREPANCY? (Y/N)
DUE TO PERIOD FROM/TO DISCREPANCY? (Y/N)

DATABASE FIELD
EXAMINER
Y
Y
Y

D. PERIOD OF USE:

RECOMMEND AS CLAIMED?

RECOMMEND TO WR STANDARDS OR OTHER?

Y() N()
Y() N()

Explain in remarks, below.

REMARKS:

Change to standard irrigation season dates 05-01 to 09-30.
Updated Sweet season to 4-15 to 10-15 03-15-1995 by H.

A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORDS? *N/A* Y() N()

AJ TOTAL CLAIMED DIVERSION RATE: 0.800 CFS
WR ROOT RIGHT TOTAL DIVERSION RATE: CFS

*** IF NO or IF STATUTORY CLAIM or BENEFICIAL USE then flow measurement required. ***
** If an amount smaller than the original diversion rate is **
** claimed and an exam is NOT required, explain in remarks. **

FLOW MEASUREMENT REQUIRED? FIELD
DATABASE EXAMINER

DUE TO STAGE OR DIVERSION RATE DISCREPANCY? (Y/N) Y

MEASUREMENT METHOD *MANNING'S*, SEE ATTACHED CALCULATIONS.

C. ARE OTHER WATER RIGHTS USED? Y() N() *5* IF YES COMPLETE OVERLAP REVIEW.

OTHER RIGHTS LISTED IN CLAIM: NONE

LIST ALL RIGHTS WITH A SAME POU AND IRRIGATION USAGE:

CLAIM NO.	SOURCE	NAME	DIV. RATE	DIV. RATE/ACRE	DIV. VOL.	DIV. VOL./ACRE
<i>A72-00190</i>	HERD CREEK	BAKER, RICHARD L.	0.400	0.003		
A72-00193	SALMON RIVER, EAST FORK	BAKER, RICHARD L.	5.200	0.023		
A72-00194	SALMON RIVER, EAST FORK	BAKER, BETTY L.	0.300	0.001		

NO RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION

*diverted @ same POU
FOU - standard demand*

D.

RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE

ACRES ----- X 0.02 CFS/ACRE = ----- CFS
(Taken from p/u review)

DOES AMOUNT CLAIMED EXCEED 0.02 CFS/ACRE? Y() N() *N/A*

1b. CALCULATIONS

*** IF YES ADDITIONAL WATER USE FORM FILED AND ATTACHED? Y() N() ***

2. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = ----- AE/A

ACRES ----- X CONSUMPTIVE VOL. AE/A FOR AREA ----- =

TOTAL CONSUMPTIVE USE ----- AE/A

3. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = ----- AE/A

ACRES ----- X DIVERSION VOL. AE/A FOR AREA ----- =

TOTAL DIVERSION VOLUME ----- AE/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:

SEE ATTACHED SHEET? Y(☒) N()

REMARKS: (Include limitations on CONSUMPTIVE USE for combined rights.)

*Surface water diversion rate N/A. Use is non consumptive, with
attendant to river.*

RECOMMENDATIONS:

REC. PURPOSES	REC. PERIOD		REC. DIV RATE CFS	REC. DIV VOL. AF/A	REC. CONS. USE
	FROM	TO			
FISH PROPAGATION	~~05-01~~	~~09-30~~	46		
TOTAL FOR THIS RIGHT	4-15	10-15			

REVIEWED BY: *H*

DATE: 12-02-1993

Will contact for possible amendment. - see 12-01-1993 memo TCM.

A. CHECK ONLY THE FOLLOWING THAT APPLY:

OWNERSHIP
FORFEIT/ABANDON
ADDITIONAL DIV. AMOUNT

ACCEPTED
AS CLAIMED
()
()
()
NEEDS
REVIEW
()
()
()

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 72-10513

DATABASE

EXAMINER

CFS

TOTAL DIVERSION RATE OF WR SPLITS

SPLITS:

OLD RIGHT
NUMBERS

CURRENT
CLAIM NUMBERS

DIVERSION
RATE

CURRENT "R"
CLAIM NUM.

"R" DIV.
RATE

WR RIGHT
NUMBERS

DIVERSION
RATE

472-10513

0.800

TOTAL CFS

0.800

DIVERSION RATE REVIEW

DO THE SUM CFS RATE OF THE SPLITS EQUAL THE ROOT RIGHT CFS RATE? (Y/N)
IF NO, IS THE WRITTEN REVIEW SHEET ATTACHED? (Y/N)

DATABASE

FIELD
EXAMINER

REMARKS:

AUTHENTICATION: *[Signature]*
SIGNATURE: *[Signature]*

DATE: 12-02-1993

NAME OF FIELD EXAMINER:

TITLE:

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	STATE OF IDAHO DEPT. OF FISH & GAME P.O. BOX BOISE ID 83720 (208) 334-3700	11/16/1959	FISH PROPAGATION	03-15 11-15	0.80 CFS	
				TOTAL DIVERSION:	0.80 CFS	

Water Source: HERD CREEK

Tributary to: EAST FORK OF SALMON RIVER

Stage: BENEFICIAL USE

Point(s) of Diversion:

TION RIBE S35

NWSE

CUSTER County

Place of use Legal Description for: FISH PROPAGATION

T	R	S	:	Lt	Ac	NENE	NWNE	SWNE	SENE	:	Lt	Ac	NENW	NWNW	SWNW	SENW	:	Lt	Ac	NESW	NWSW	SWSW	SESW	:	Lt	Ac	NESE	NWSE	SWSE	SESE	:
10N	18E	35	:							:							:							:							:
F																															

POU County: CUSTER

Non-Irrigation Uses: FISH/ BYPASS PIPE AT FISH SCREEN

Other Rights: NONE

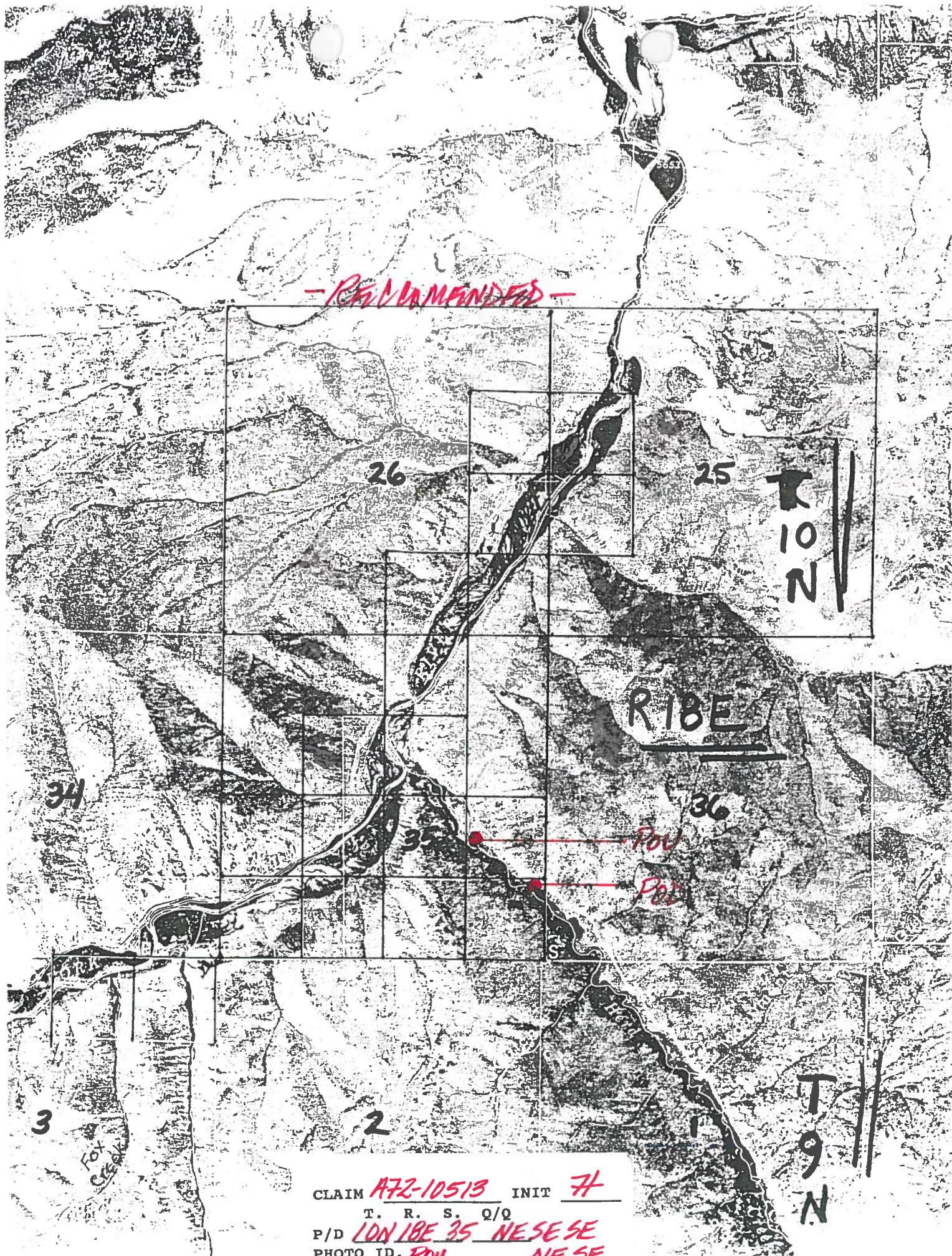
Non-Irrigation Use: FISH/ BYPASS PIPE AT FISH SCREEN

Remarks: EASEMENT AGREEMENT EF-HC-2, FILED AT CUSTER CO. COURTHOUSE ON
11/16/59, PAGES 532, 533, 555-557, BOOK 33.
DITCH OWNERS--F. & K.A. BOSSI.

Dates: Exam Made Date: Verified Date:

Misc: Water District Number:

Field Inspection Flag:
Presumption Flag:



- RECOMMENDED -

26

25

T
10
N

RIBE

34

36

35

POU

POU

3

2

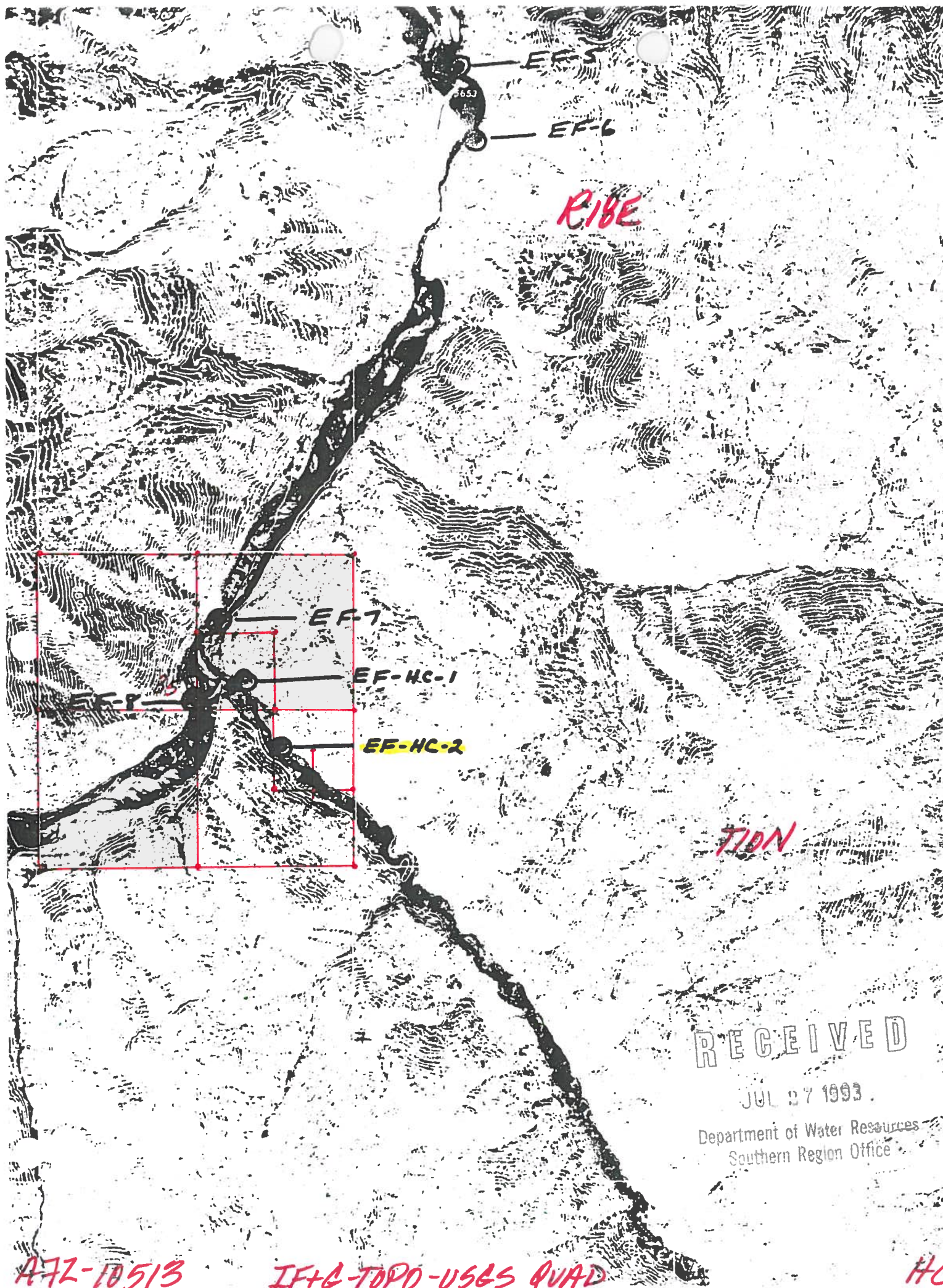
T
9
N

CLAIM A72-10513 INIT 7H
T. R. S. Q/Q
P/D LON 18E 35 NESE SE
PHOTO ID. POU NESE

A72-10513

USGS OPQ 1974 V-24

HC-2



EF-5

EF-6

RIBE

EF-7

EF-HC-1

EF-HC-2

TION

RECEIVED

JUL 27 1993

Department of Water Resources
Southern Region Office

A72-10513

IF+G-TOPO-USGS QUAD

HC

6-23-81

8164

1:12000

LN78



DEPOSITORY: BLM REGIONAL OFFICE
SALMON, ID.

06-23-1981

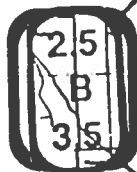
A72-10513

BLM AERIAL LN 78-RN1 8164 PLATE 27 HC



SEE REVERSE
FOR TEXT





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

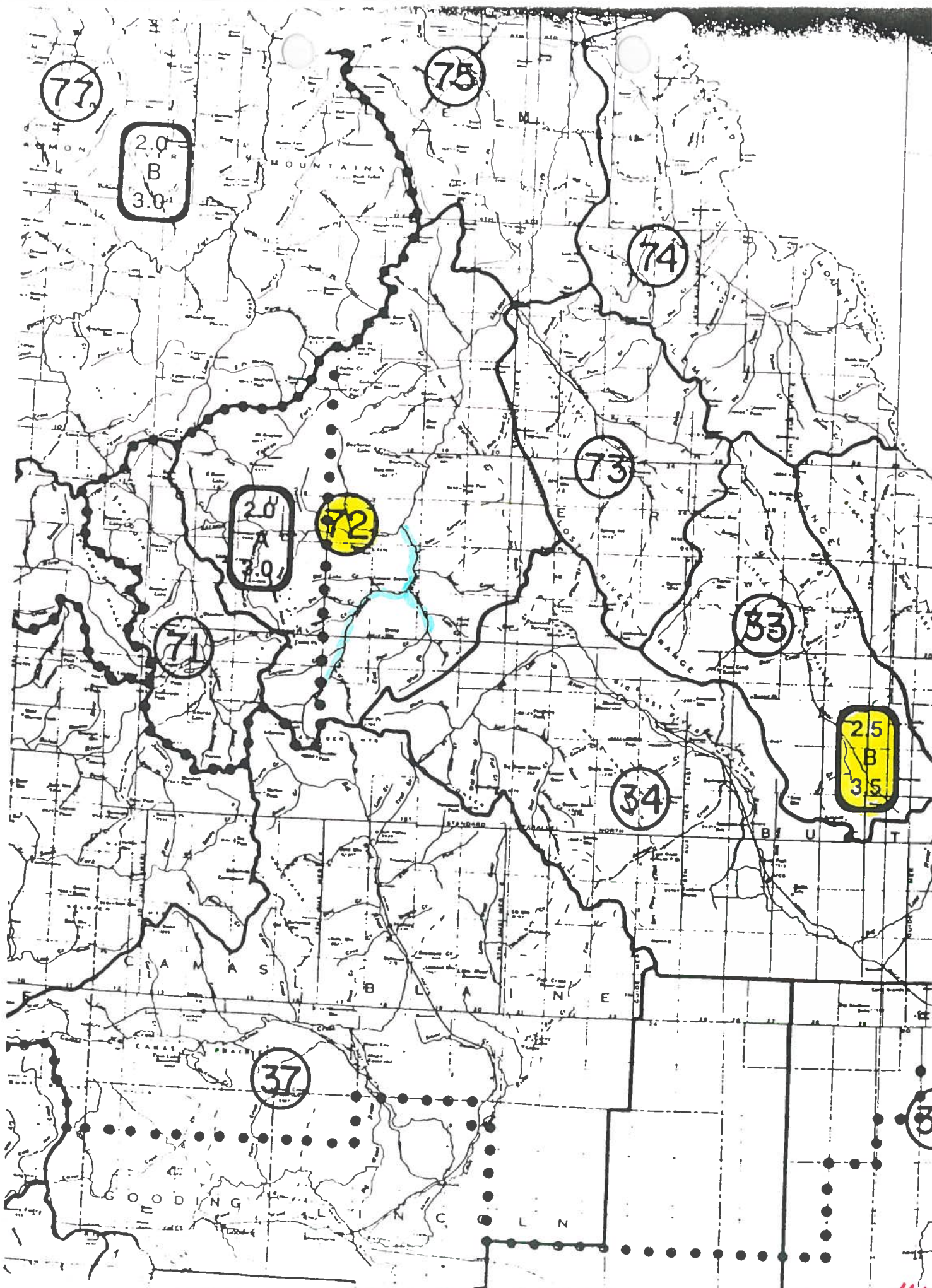
IRRIGATION SEASON OF USE

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

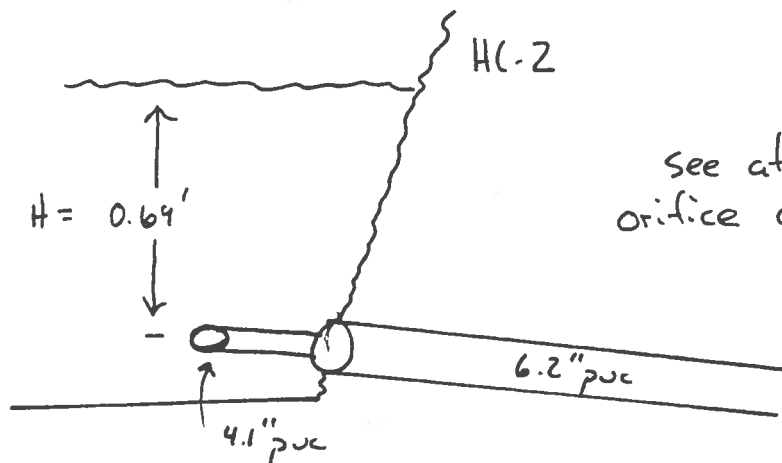
FIELD HEADGATE REQUIREMENT

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



A72-10513 IDNR SEASON BASIN MAP-USBS 1968

HL



see attached sheet for
orifice definitions & relationships

$$\begin{aligned}
 Q &= CAV = CA \sqrt{2gH} \\
 &= 0.75 \left(\pi \frac{(4.1)^2}{4} \right) \sqrt{2(32.2)(0.64')} \\
 &= 0.46 \text{ cfs}
 \end{aligned}$$

estimated discharge
coefficient (C) from
re-entrant tube
 $= 0.75$

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	0.06	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	

A72-10513

HC.

HC-2

Re-entrant tube

4" pvc then to 6" transition?

6" pvc outlet $\frac{1}{4}$ full 100% open discharge

$H = 0.52'$ from top of pipe to water surface

A72-10513 HC 2 09-07-93 1:30 PM

03-1-1994

Fox CR: have a pipeline capping down
the West side of the draw - do
this dump into? in relation
the flume.

H.C. 2: Pop well above fish screen.

Gerry: ditch goes along access road
@ fence line corner goes No. along
road - this is opposite where the
is in center of lots.

MAC MILLAN: ditch runs along access
road and then around bend to
the Gerry lots - div. box PIX -
blade plastic tubes out of ditch
10 yds So of box - PIX - then
cuts in ditch and big black pipe
50 YDS So. - cuts/taps every 20
another check frame.

Morgan: ? box No. of eqny crossing to
in signs of tape, cuts, check
ditch filled in for crossing to
SHAUGHNESSY.

Lot 22: So. 50 YDS from 22/23 corner
heavy seepage comes under trees
and out onto pasture area.

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-70513

At



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

A72-10513

HC

Prepared by Brett Bassy
on 9-3-93

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

310 WATER MEASUREMENT MANUAL

(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

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

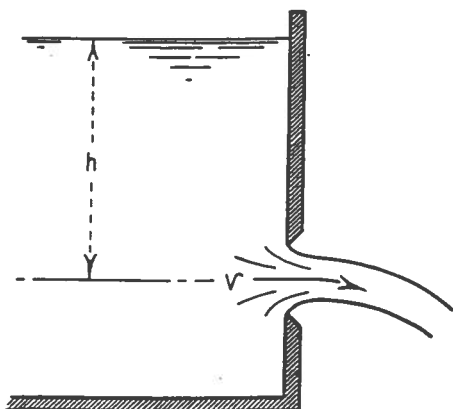


Figure 107.—Orifice flow. 103-D-986.

Water Measurement
Manual

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

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 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 contrac

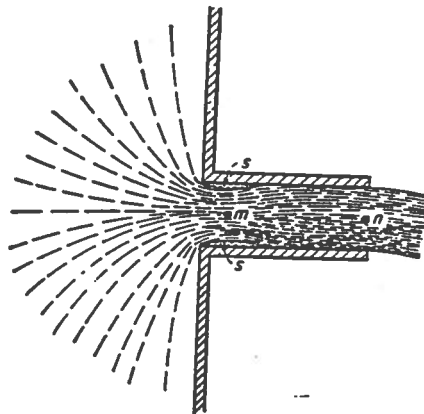


Fig. 43. Standard short tube.

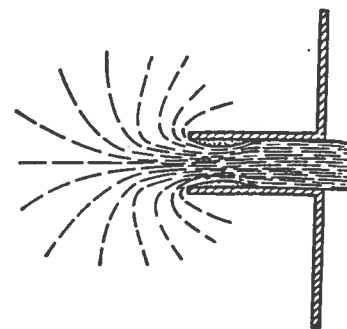


Fig. 44. Reentrant tube.

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

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

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 $h_f = 0.78v^2/2g$.

Civil Engineering Handbook
Urquhart, Leonard
McBraw-Hill Book Company
1959 pgs. 4-37-4-38

A72-10513

H

TELEPHONE MEMORANDUM

Incoming Call
X _____
Outgoing Call 10.25 AM/10.50 AM

Returning Call

TO: Phyllis Rose, Technician, Fish & Game

DATE: 12-01-1993

FROM: FH

FILE: Fish & Game Fish Screen Claims

FILE NO: A72-10539, -10492, -10532. -10530, -10514, -10513, -10515, -10516

SUBJECT: measurements lower than claimed for diversion amounts

REMARKS: Gave advance notice on those claims where the measurements came
up lower than the claimed diversion amount.

Have Chuck call re: notice of error period during the court ordered reporting
for BASin 72.

Reviewed ditch measurements re: how to resolve pipe data and resultant measure-
ment vs. ditch flows if possible.

ROUTING
INSTRUCTIONS: _____

CALENDAR
DATES: _____

A72-10513

A.

SEF-19

06/01/93	1.7	1.86	n/a
07/14/93	2.9	2.04	n/a
09/20/93	2.6	2.01	n/a

08/05/59	10.0	-	-
----------	------	---	---

SEF-20

09/20/93	0.9	1.1-1.16F	Ford River
1993	Did not get high	water measurement.	

08/24/59	2.0	-	-
----------	-----	---	---

SEFHC-01

05/25/93	OFF	Rancher leveling land	
07/12/93	4.6	1.7	n/a
09/14/93	4.8	1.64-1.7?F	n/a

08/03/59	2.6	-	-
----------	-----	---	---

SEFHC-02

05/25/93	4.7	1.2F	n/a
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SEFHC-03

05/25/93	7.2	1.5	94% Sub.
07/13/93	7.5	1.5	n/a
09/15/93	3.9	1.29-1.3F	n/a
09/07/93 ~IDWR	2.2		

08/27/59	4.8	-	-
1958 or 1959	7.0	-	-

SEFBBC-01

06/01/93	4.3	1.2F	n/a
07/14/93	4.0	1.2-1.3F	n/a
09/15/93	5.3	1.3-1.4F	n/a

07/17/59	3.3	-	-
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SEFBBC-02

06/01/93	8.4	0.75	n/a
07/14/93	2.6	0.37	n/a
09/15/93	10.2	0.46	n/a

08/20/59	3.6	-	-
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