

NAME:

F & G

CLAIM: A 72-10539

CORRESPONDENCE

EVIDENCE OF

PRIORITY

DATA ENTERED BY DB
DATE 8-16-90

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: A72-10539
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 208-334-3700
Address: DEPT. OF FISH & GAME
P.O. BOX 25
BOISE, ID 83720

2. Date of Priority: NOV 17, 1959

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	24	NE	SW			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	24	SE	NW		FISH	

11. Place of use in counties: CUSTER

A72-10539

Page 1

Date: 08/17/90

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

13. Other Water Rights Used:
NONE

14. Remarks:
EASEMENT AGREEMENT EF-5, FILED AT CUSTER CO. COURTHOUSE ON
11/17/59, PAGES 369-373, BOOK 33.
DITCH OWNERS--G. & V. LEUZINGER.

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

A72-10539

Date Received

6/19/90

Receipt Number

J017346

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 17, 19593. 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 10 N. Range 18 E. Section 24,
1/4 of NE 1/4 of SW 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 mainstream.

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EF-5

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	24								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-5, filed at Custer Co. Courthouse
on 11/17/59. Pages 369-373, Book 33.
Ditch owners - G. & V. Leuzinger

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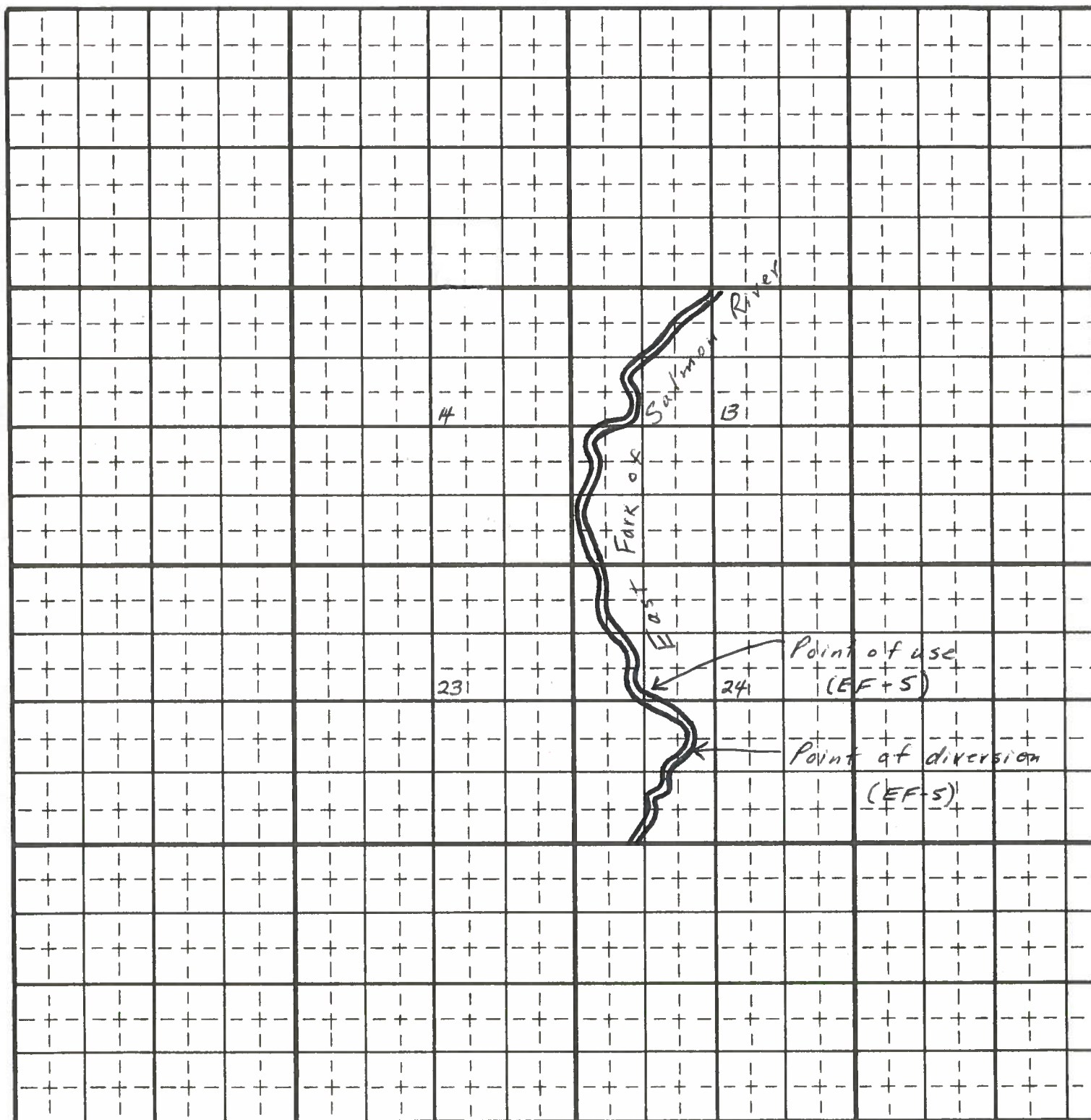
Last Name IDFG Ident No. _____

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 _____ 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
of IDAHO DEPT. OF FISH & GAME, that I have signed the foregoing
Organization Title
document in the space below as Acting Director of IDAHO DEPT. OF FISH & GA
Title Organization
and that the statements contained in the foregoing document are true and correct.

Signature of Authorized Agent Kenneth Nance

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 1990

SEAL

Notary Public Larry L. Vinkelman

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 _____

Last Name IDF&G Ident. Number _____

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MAR 19 1993

Copies White-State, Yellow-Claimant

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

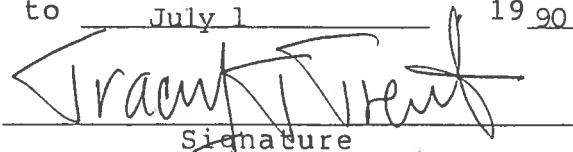
Date Claim Originally Due

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

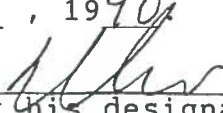
Chief, Bureau of Program Coordination
Title

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

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MAR 19 1993

4/5/1989

RBA CLAIMS RECEIVING CHECKLIST

CLAIMANT'S NAME

IDFG

CLAIM IDENT. NO.

A72-10539

DATE RECEIVED

6/19/90

CK #

T017346

AMOUNT \$

58 applied

YES

NO

Regul
Info

1. Is the name and address complete with zip code? ☒ YES ☐ NO *
2. Is a priority date entered? ☒ YES ☐ NO *
- Is the priority date acceptable in view of mandatory filing dates? ☒ YES ☐ NO *
- 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:

RET

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:

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Comments:

MAR 19 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

A72-10539
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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EVIDENCE OF PRIORITY DATES FOR SALMON RIVER
FISH SCREEN WATER RIGHT CLAIMS
(Continued)

Water Right No.	Screen No.	Proposed Priority Date	Proof of Priority Documentation
A72-10537	EF-3	1963	C.R.P. construction records (1963) and IDFG photo file
A72-10538	EF-4	1963 (rebuilt in 1989)	C.R.P. construction records (1963) and IDFG photo file
A72-10539	EF-5	1963	C.R.P. construction records (1963) and IDFG photo file
A72-10540	EF-6	1963	C.R.P. construction records (1963) and IDFG photo file
A72-10541	EF-7	1963 (rebuilt in 1982)	C.R.P. construction records (1963) and IDFG photo file

IF+G PRI. DATA

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MAR 19 1993



IDAHO FISH & GAME

600 South Walnut / Box 25
Boise, Idaho 83707

April 15, 1992

RECEIVED

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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MAR 19 1993



APR 15 1992

Department of Fish and Game
Boise, Idaho 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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RECEIVED

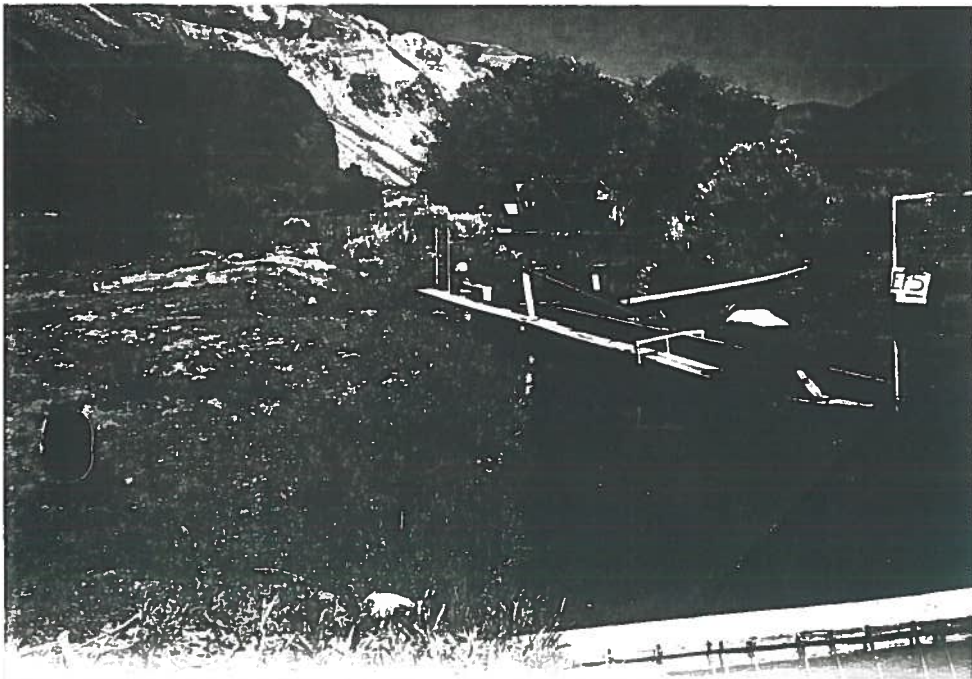
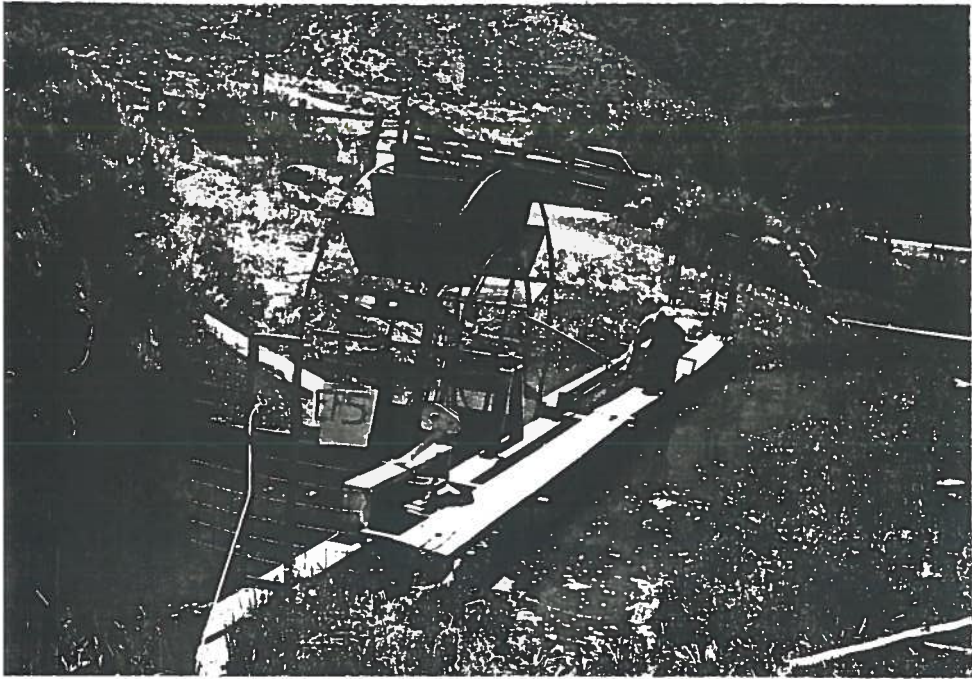
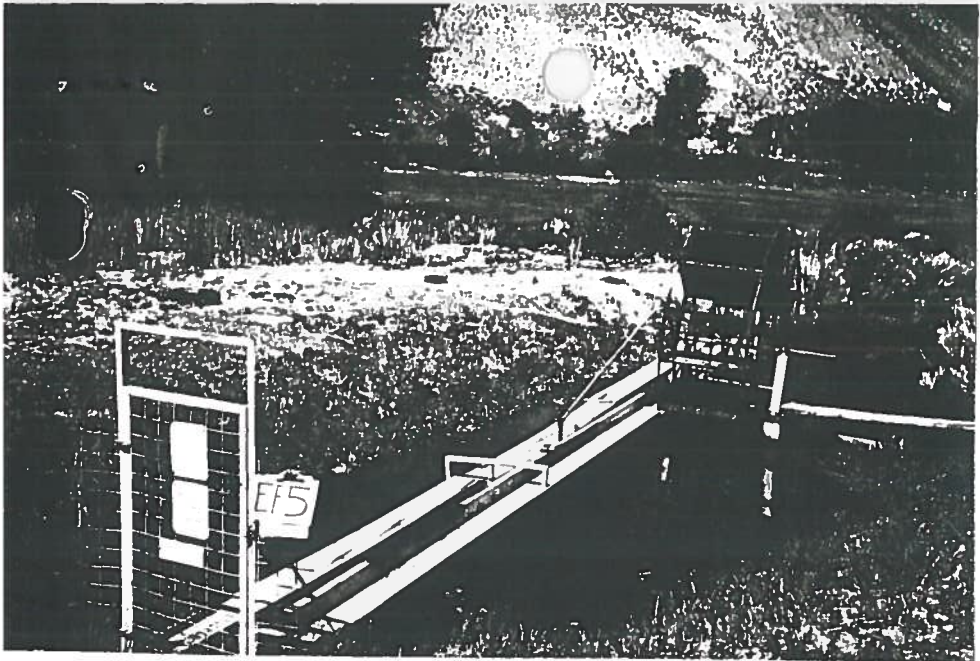
APR 10 1992

Department of Water Resources
Southern Region Office

EVIDENCE OF PRIORITY DATE FOR ADJUDICATION CLAIM NO. A72-10539

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MAR 19 1993



uilt 1963

SCREEN # EF5

APPROACHMENT DITCH SIZE $1\frac{1}{2}' \times 3'$

USE In yes

TYPE OF SCREEN Wiper, Water Wheel

SIZE OF SCREEN $3' \times 20'$

MODIFIED No

STRUCTURE Pool

CATWALKS Pool

HANDRAILS None

BYPASS SIZE $6"$

HOW REDUCED $4"$

APPROX. LENGTH 60 ft

TRASH RACK Fair

CONDITION OF ROAD

CONDITION OF GATES

ADDITIONAL COMMENTS

SCHEDULED REPLACEMENT

1990-1995

A72-10539

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MAR 19 1993

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

1963

A72-10539

NOT FILMED
MAR 19 1993

S-10-B
S-12 PBSC 9
S-13 SEE 15
S-14 SEE 17
S-16 SEE 18
S-17 " 4
S-18
S-18A
P.C. 1
P-13
H.C. 1 (NERD)
" " 2
SEE 2
SEE 3
SEE 4
SEE 5 • A72-10539
SEE 6
SEE 7
SEE 10
SEE 10A
SEE 11

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MAR 19 1993

A72-10539

CRP 1963

SE75 CUM 3X20 R H.

Top Wall 94.71

Top Footer 90.67

Bot Footer 90.03

By-pass

6" X 80'

22 bags

Access Road

260' steel

1 wooden gate

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MAR 19 1993

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM PROFILE REPORT

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
---------------	----------------	------------------	-----------------------	-------------------	---------------------

04/15/1963 FISH PROPAGATION

04-15	10-15	0.77 CFS

TOTAL DIVERSION:		0.77 CFS

Water Source:	SALMON RIVER, EAST FORK	Tributary to:	SALMON RIVER	Stage:	BENEFICIAL USE
---------------	-------------------------	---------------	--------------	--------	----------------

Point(s) of Diversion: T10N R18E S24 SWNESW CUSTER County

Place of use Legal Description for: FISH PROPAGATION

[illegible]

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

Other Rights: NONE

THE FOLLOWING RIGHTS ARE ALSO DIVERTED THROUGH POINT OF DIVERSION DESCRIBED ABOVE: 72-00230A, 72-00230B, 72-00230C, 72-00230D, 72-00230E, 72-00230G, 72-00230H, 72-00230J, 72-00230K, 72-00230L, 72-00230M, 72-00230N, 72-00230P, 72-00230R, 72-00230S, 72-00230T, 72-00230U, 72-00230V, 72-00230X AND 72-00230Y.

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

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

Comments: Date: 12/08/1993 User-ID: HITCHCOC Subject: COPIED FROM REMARKS
EASEMENT AGREEMENT EF-5, FILED AT CUSTER CO. COURTHOUSE ON
11/17/59, PAGES 369-373, BOOK 33.
DITCH OWNERS--G. & V. LEUZINGER.

Audit:	11/14/92 CLELAND	12/08/93 HITCHCOC	01/05/94 HITCHCOC	03/09/95 FHITCHCO
	03/15/95 FHITCHCO			

TELEPHONE MEMORANDUM

✓
Incoming Call
Outgoing Call
Returning Call

250/300

TO:

7H

DATE:

08-15-95

FROM:

BOB A.

FILE:

IF+B-EF-5 and A72-00230

FILE NO:

SUBJECT:

Possible replacement of EF-5
Screen site - must a list of users
through P/D

REMARKS:

Sent copy of list already
sent to IF+B - same subject on
07-27-1994.

ROUTING
INSTRUCTIONS:

cc: A72-00230 research file

CALENDAR
DATES:

Comp. by R. Foster

JUL 28 1995

Department of Water Resources
Southern Region

East Fork Salmon EF-5

Date 6-29 1995 Party Robert Foster

Width Area Vel. G. H. Disch.

Method No. secs. G. H. change. in hrs. Susp.

Method coef. Hor. angle coef. Susp. coef. Meter No.

Type of meter Swoffler 2100 Date rated Tag checked

Meter ft. above bottom of wt. Spin before meas. 3 lb. after 37.5 . . .

Meas. plots. . . . % diff. from. . . . rating. Levels obtained.

Check bar. chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge. . . . feet, mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow. fair

Cross section fair water murky

Control

Gage operating Weather clear

Intake/Orifice cleaned Air °C@ Water °C@

Record removed Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank Feed Bbl rate per min.

CSG checked Stick reading

Observer

HWM outside, in well

Remarks

.....

GPS LAT\LONG

G.H. of zero flow ft. Sheet No. of sheets

07-28-95

$$Q = 5.35 \text{ cfs}$$

ORIGINAL

River at—												
Angle coef- ficient	Dist. from initial point	Width	Depth	Observa- tion depth	Rev- olu- tions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or	Area	Discharge	
							At point	Mean in ver- tical				
REW	1.0	—	—	.16								.80
	1.5	.50	1.15				.91			.575	0.523	.85
	2.0	.50	1.15				.94			.575	0.540	
	2.5	.50	1.10				.97			.550	0.433	.90
	3.0	.50	1.10				.86			.550	0.473	
	3.5	.50	1.15				1.03			.575	0.592	.92
	4.0	.50	1.20				1.22			.600	0.732	.94
	4.5	.50	1.20				1.08			.600	0.648	.96
	5.0	.50	1.20				.80			.600	0.480	.97
	5.5	.50	1.10				.78			.550	0.429	.98
	6.0	.50	1.05				.56			.525	0.294	.99
	6.5	.50	.950				.47			.475	0.223	.99
LEW	7.0	—	—									
											5.35	
0												1.00
												.99
												.98
												.97
												.96
												.94
												.92
												.90
												.85
												.80

ORIGINAL



ORIGINAL

6/9/94

COMMUNICATION DOCUMENTATION

Claim No. A72-10539

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 30, 1995 8:31am

NAME:
EF-5 DIVERSION-EF SUBD. USAGES

RE:
MEASUREMENT FOLLOW-UP

BOB FOSTER, IDWR AGENT, SALMON OFFICE, WAS ON THE EAST FORK TO DO SOME OTHER WORK AND STOPPED AT THE SUBDIVISION DITCH TO CHECK ON THE RATE OF DIVERSION AT MY REQUEST. I AM CONCERNED THAT THE FIRST MEASUREMENT WE DID TWO WEEKS AGO ISN'T REPRESENTATIVE OF THE DITCH CAPACITY.

THE RIVER HAD DROPPED VISIBLY ACCORDING TO BOB AND HE TOOK ANOTHER READING THAT WAS MARGINALLY BETTER IN TERMS OF CFS THAN OUR PREVIOUS READING. HE ALSO PHOTOGRAPHED THE HIGH WATER MARK IN THE DITCH. HE WILL SEND ME THE RESULTS AND THE PIX IN THE NEAR FUTURE.

COPIES OF THIS ENTRY TO IF&G FILE A72-10539 DUE TO LOW FLOW READING TAKEN 09-1993 AND TO THE EAST FORK SUBD. FILE DRAWER FOR THE IRRIGATION CLAIMS IN THE SUBDIVISION SOURCING EAST FORK.

NOTE: STILL NO CONFIRMATION OF ANY YEAR-ROUND RESIDENT HAVING DONE ANY WORK PRIOR TO THE SEASON AT THE DIVERSION POINT AS REPORTED TO ME IN PREVIOUS YEARS. IT MAY BE THAT DESPITE OBSERVABLE HIGH FLOWS THAT THE DIVERSION IN THE RIVER HAS SILTED IN.

✓ 5.35 CFS V. 4.30 observed 06-13-95.
Watermark approx 4" higher - Pix taken.

IMPORTANT MESSAGE

FOR FH
DATE 6/27/95 TIME 820 AM
M. Bob A
OF _____

PHONE _____
AREA CODE _____ NUMBER 756 EXTENSION 6644

TELEPHONED	☒	PLEASE CALL	☒
CAME TO SEE YOU	☐	WILL CALL AGAIN	☐
WANTS TO SEE YOU	☐	RUSH	☐
RETURNED YOUR CALL	☐	SPECIAL ATTENTION	☐

MESSAGE _____

SIGNED mb
LITHO IN U.S.A.

LET
BASIC
TO
BASICSTM

71100

6/9/94

COMMUNICATION DOCUMENTATION

Claim No. A72-00230ctsg
" - 10423 *
- 10539 EF-5

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IDWR Employee/Agent H

Date 06-27-95

Contact Person(s) BOB A. FOSTER

Nature of Contact Review right of EF-5 - Bob
there yesterday w/ IFFG - run. sites -

Substance of Communication we w/ attempt to get back to EF-5
due to his observed report of the
ditch over flowing at SUNFEE'S site.

* Revised INSURANCE contact - Bob w/
schedule with Bureau to review +
try to get a measurement.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

A72-0023

Water Right # _____
(if applicable)

Open Channel Discharge Measurement Notes

CLEAR-HOT

A. GENERAL INFORMATION

1. Name of stream or ditch: EF-5 35' below screen

2. Location: EF SUBD @ screen site near bridge over Fes

3. Person conducting measurement: BOB FOSTER

4. Date and time of measurement: 06-13-95 2 PM / 2:30

5. Accompanied by: H

6. Measuring device size and ID no.: SWEEPER # 2100

7. Spin test before measurement OK? OK after measurement OK? _____

8. Purpose of measurement: SRBA CLAIM REVIEW

[illegible]

ORIGINAL



PAGE / OF

RECEIVER SERIAL NO.

[illegible]

COPY

R PROOF

CVR

MAPS

PHOTOS

MISC

(REGIONAL)

Water Right Number - R72-10539

Prefix Translation: RESEARCH

Old (D) Number -

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

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

1 - PO BOX 25
2 -
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 ----- +
04/15/1963 17 SOUTHERN J - BENEFICIAL USE

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

----- Twn Rng Sec Tract Lot Rflg County ----- Point of Diversion ----- +
10N 18E 24 SW NE SW (37) CUSTER

----- Code ----- Description ----- Period From ----- Period To ----- Water Use ----- Diversion Rate ----- Diversion Volume ----- +
19 - FISH PROPAGATION 04/15 10/15 0.770

----- Total Div. Rate ----- + ----- Total Div. Volume ----- + ----- Total Consumptive Use ----- + ----- KW Usage ----- +
0.770 0.770 0.0

----- Twn Rng Sec Tract Lot Acres ----- Place of Use ----- Code ----- Description ----- County ----- +
10N 18E 24 SE NW 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 RIGHTS ARE ALSO DIVERGED THROUGH POINT OF
DIVERSION DESCRIBED ABOVE: 72-00230A, 72-00230B, 72-00230C,
72-00230D, 72-00230E, 72-00230G, 72-00230H, 72-00230I,
72-00230K, 72-00230L, 72-00230M, 72-00230N, 72-00230P,
72-00230R, 72-00230S, 72-00230T, 72-00230U, 72-00230V,
72-00230X AND 72-00230Y.

(REGIONAL)

Water right number - R72-10539

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: 12/08/1993 User Id: HITCHCO Subject: COPIED FROM REMARKS 11/17/59, PAGES 369-373, BOOK 33.
+ - - - - EASEMENT AGREEMENT EF-5, FILED AT CUSTER CO. COURTHOUSE ON
+ - - - - DITCH OWNERS--G. & V. LEUZINGER.

+ - - 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 - 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		7/07-15-93	Y	62	11-	11-20-93	
POINT OF DIO	Y			Y	1,4,4,5			
SOURCE	Y			Y *	1,4,4,5 5			
PLACE OF USE	Y							
DIO AMOUNT CFS/VOLUME	Y			Y				
CONSUMPTIVE USE	-							
PURPOSES	Y							
PERIOD OF USE	Y			Y	62			
BASIS OF CLAIM	Y							
REMARKS	Y							

VERIFIED BY CODES

TOPO MAP/ORTHO-PH = 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 IFC records.
 62 Dept Summary of work.
 *. Discrepancy - all
 notes page 6.

LAST: STATE OF IDAHO
ADDRESS: ~~DEPT~~ OF FISH & GAME
CITY: ~~PO BOX 25~~ BOISE
PHONE NUMBER: 208-334-3700
OWNER CODE: C

FIRST:
STATE: ID ZIP: 83720

83702

T: DEPT. OF FISH & GAME
ADDRESS: X
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-5, FILED AT CUSTER CO. COURTHOUSE ON
11/17/59, PAGES 369-373, BOOK 33.
DITCH OWNERS--G. & V. LEUZINGER.

POI 10 18 24 SE NW

-10542
-00230B
-00230C

Easement agreement date cited as priority date - made corrected

data input
on 6/10/92

CONTACT PERSON: _____

PHONE NUMBER: (____) _____

DATE OF FIELD EXAM: 07/15/93

APPOINTMENT MADE: Y(____) N(____) ✓

TIME: 1:30 A(____) P(11) _____

ACCOMPANIED BY: _____

PHONE NUMBER: (____) _____

RELATIONSHIP TO CLAIMANT: _____

DIRECTIONS TO PROPERTY / REMARKS:

@ bridge across EF 20 of Road Dr. No side - gate in fence.

POD for this channel is well up/around bend of river south from site.

09-02-93

Measurement done w/ Butch Smay

A. AJ CLAIM: # A72-10539

PRIORITY DATE: 11-17-1959

STAGE: J

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

C. FIELD EXAM REQUIRED?

DUE TO PRIORITY DATE DISCREPANCY? (Y/N)

DATABASE
Y

FIELD
EXAMINER

ARE THERE OBVIOUS REASONS TO QUESTION THE PRIORITY DATE CLAIMED? Y() N()
IF YES EXPLAIN.

REMARKS:

Priority date claimed is the date of the document according to Section 10. However that was filed on 05-01-1963. I was 05-01-1963. I was on photograph of construction records. Assumed that was on location when date for the area.

Correct date is 4-15-1963; 03-15-1965 by H.

RECOMMENDED PRIORITY DATE:

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

REVIEWED BY

H

DATE

11-29-93

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A72-10539	10N	18E	24		NE	SW		CUSTER

OTHER AJ CLAIMS WITH SAME AJ POD
A PREFIX R PREFIX
NONE NONE
WR RECORDS IN SAME 40 ACRE TRACT
72-04097
72-04216

★ SOURCE: EAST FORK OF SALMON RIVER TRIB: 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 NR SW NE SW. Reviewed USGS OPO 1-24 1974, NAPP
443-47 09-14-1988 BLM 06-23-1981 BLM 4 plate 30, IF+G TWO
and some variations. 12-08-1993.

RECOMMENDED POINT(S) OF DIVERSION AND SOURCE:
TWP. RGE. SEC.

1/4 1/4

LOT

COUNTY

10N 18E 24

SW NE

SW

CUSTER

SOURCE: SALMON RIVER, EAST FORK

REVIEWED BY: SA

DATE: 11-29-93

★ *data entry standard update*

A. ROOT WATER RIGHT NUMBERS: A72-10539

B. POU LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA	FIELD EXAM.	RECOMM. ACRES
TON 18E	24	SE	NE	NE		STATE OF IOWA	A72-10539 7	-	23.0		
		SE	NE	NE		DUNEE FAMILY TRUST	A72-10542 /	-	/		
		SE	NE	NE		LIGHT, JEAN	A72-00230C / 5.0	-	/		
		SE	NE	NE		DUNEE FAMILY TRUST	A72-00230B / 10.5	-	/		
		SE	NE	NE		LEUZINGER, FREDOLIN	72-00230 /	-	/		

TOTAL ACRES A72-10539

23.00

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

FIELD EXAM REQUIRED?

DUE TO POU DISCREPANCY? (Y/N)

DATABASE Y

FIELD EXAMINER

POU COUNTY: CUSTER

PRESUMPTION FLAG:

REMARKS:

Actual location of fish stream is POU is N/SEW as determined by
review of 1965 OPD & 1974 V-24, BLM aerial & N78-RN2 8164 #130
16-23-1981. Timber stream being IF&G for my and stream location.
all exhibits marked as above.

RECOMMENDATIONS:

TOTAL ACRES:

N/A

REVIEWED BY:

JH

DATE:

11-29-1995

*let stand as claimed... SENW. Review 12-08-93

A. AJ CLAIMED USES:

PURPOSES
A72-10539 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

SUMPTION 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

D. PERIOD OF USE:

RECOMMEND AS CLAIMED?

RECOMMEND TO WR STANDARDS OR OTHER?

REMARKS:

*Change to irrigation season dates 05-01 to 10-15 (see exhibits)
inserted 03-15-1995 by #*

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

Explain in remarks, below.

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

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

C. ARE OTHER WATER RIGHTS USED? Y() N() 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. VOLUME
A72-00230B	SALMON RIVER, EAST FORK	DUNFEE FAMILY TRUST	0.460	0.020		
A72-00230C	SALMON RIVER, EAST FORK	LIGHT, JEAN	0.100	0.020		

LIST ALL RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION.

CLAIM NO.	PURPOSES	NAME	MONTH/DAY	RATE	VOLUME
A72-10542	DOMESTIC	DUNFEE FAMILY TRUST	FROM 01-01 TO 12-31	.040 CFS	

* *diverted @ same POU - as well as any other usage claiming a portion of-00230.*
For - standard sample

D. RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE
ACRES _____ X 0.02 CFS/ACRE = _____ CFS
(Taken from p/u review) *N/A*
DOES AMOUNT CLAIMED EXCEED 0.02 CFS/ACRE? Y() N()

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.)

is returned to the land *not is nonconsumptive, under*

RECOMMENDATIONS:

REC.
PURPOSES

REC. PERIOD
FROM TO

REC. DIV
RATE CFS

REC. DIV
VOL. AF/A

REC. CONS.
USE

DATABASE EXAMINER

DATABASE EXAMINER

DATABASE EXAMINER

FISH PREPARATION

~~05-01~~ ~~04-30~~
4-15 10-15

77

N/A

N/A

TOTAL FOR THIS RIGHT

REVIEWED BY:

77

DATE: 11-29-93

see measurement data exhibit and memo over TEN IFS
about normal diversion amount.

scheduled for measurement in 1995 season.

A. CHECK ONLY THE FOLLOWING THAT APPLY:

OWNERSHIP
FOREFEIT/ABANDON
ADDITIONAL DIV. ARDONT

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

B. SPLIT WATER RIGHT REVIEW

N/A
ROOT WATER RIGHT NUMBER: 72-10539
TOTAL DIVERSION RATE OF WR SPLITS

DATABASE

EXAMINER

CFS

SPLITS:

OLD RIGHT
NUMBERS

CURRENT
CLAIM NUMBERS

DIVERSION
RATE

CURRENT "R"
CLAIM NUM.

"R" DIV.
RATE

WR RIGHT
NUMBERS

DIVERSION
RATE

A72-10539

0.800

-

-

TOTAL CFS

0.800
.77

DATABASE

FIELD
EXAMINER

DIVERSION
RATE

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)

REMARKS:

AUTHENTICATION: *[Signature]*
SIGNATURE: *[Signature]*
NAME OF FIELD EXAMINER: *[Signature]*
DATE: 11-29-93
TITLE:

CLAIM NUMBER: A72-10539

DIVERSION
VOLUME

0.80 CFS

0-80 CES

83702

Tributary to: SALMON RIVER

T10N R18E S24

NEWS

Stage: BENEFICIAL USE
CUSTER County

T	R	S	F									
NENE	NAME	NAME	NAME	NAME	NAME	NAME	NAME	NAME	NAME	NAME	NAME	NAME
Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt
10N	18E	24										

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-5, FILED AT CUSTER CO. COURTHOUSE ON 11/17/59, PAGES 369-373, BOOK 33. DITCH OWNERS--G. & V. LEUZINGER.

Dates: Exam Made Date: Verified Date:

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

RIBE

- RECOMMENDED -

TION

POU

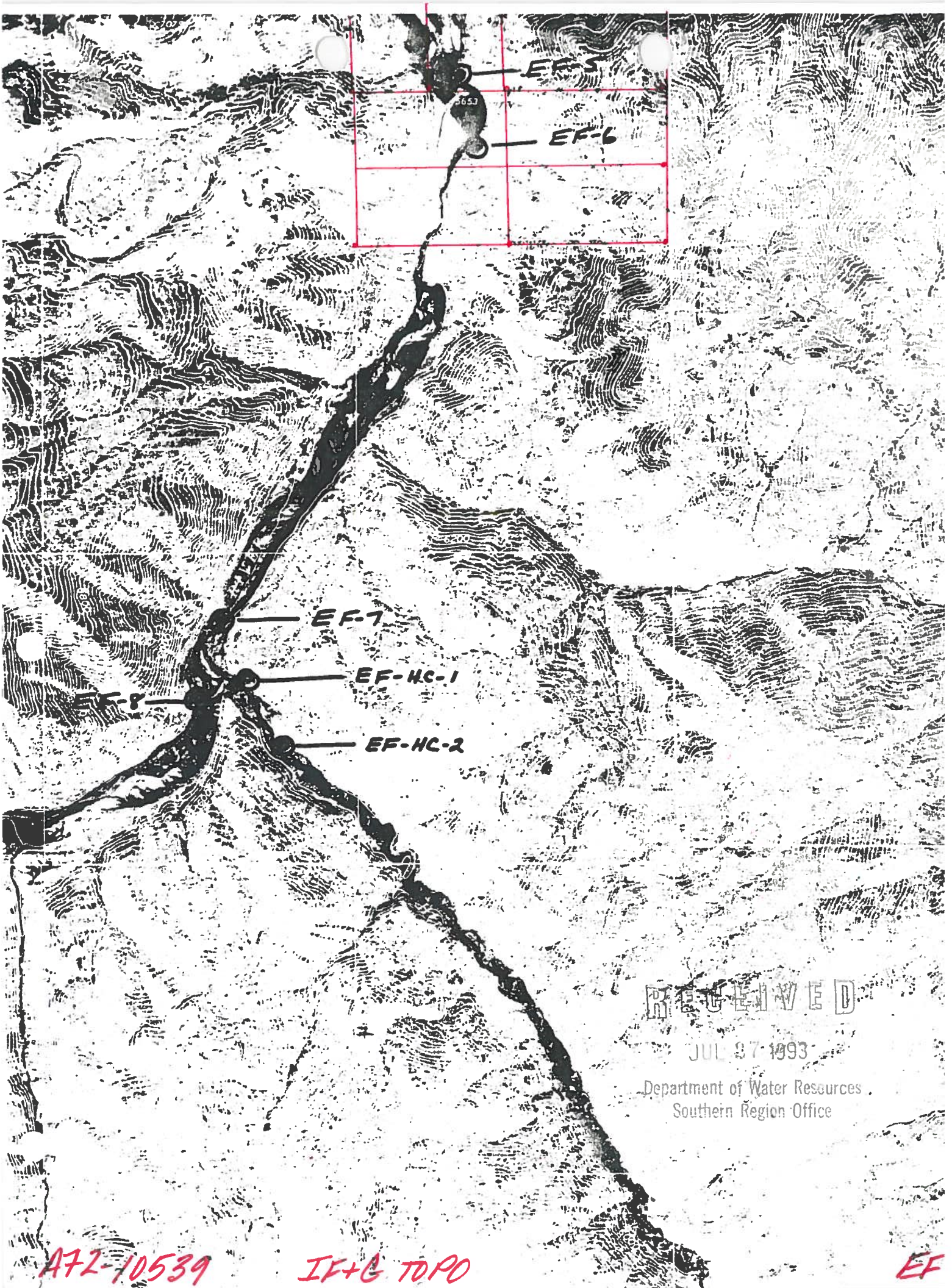
POD

A72-10539

USGS OPQ 1974

V-24

EF-



RECEIVED

JUL 27 1993

Department of Water Resources
Southern Region Office

A72-10539

IF+G TOPO

EF



IF+G SCREEN LOCATIONS

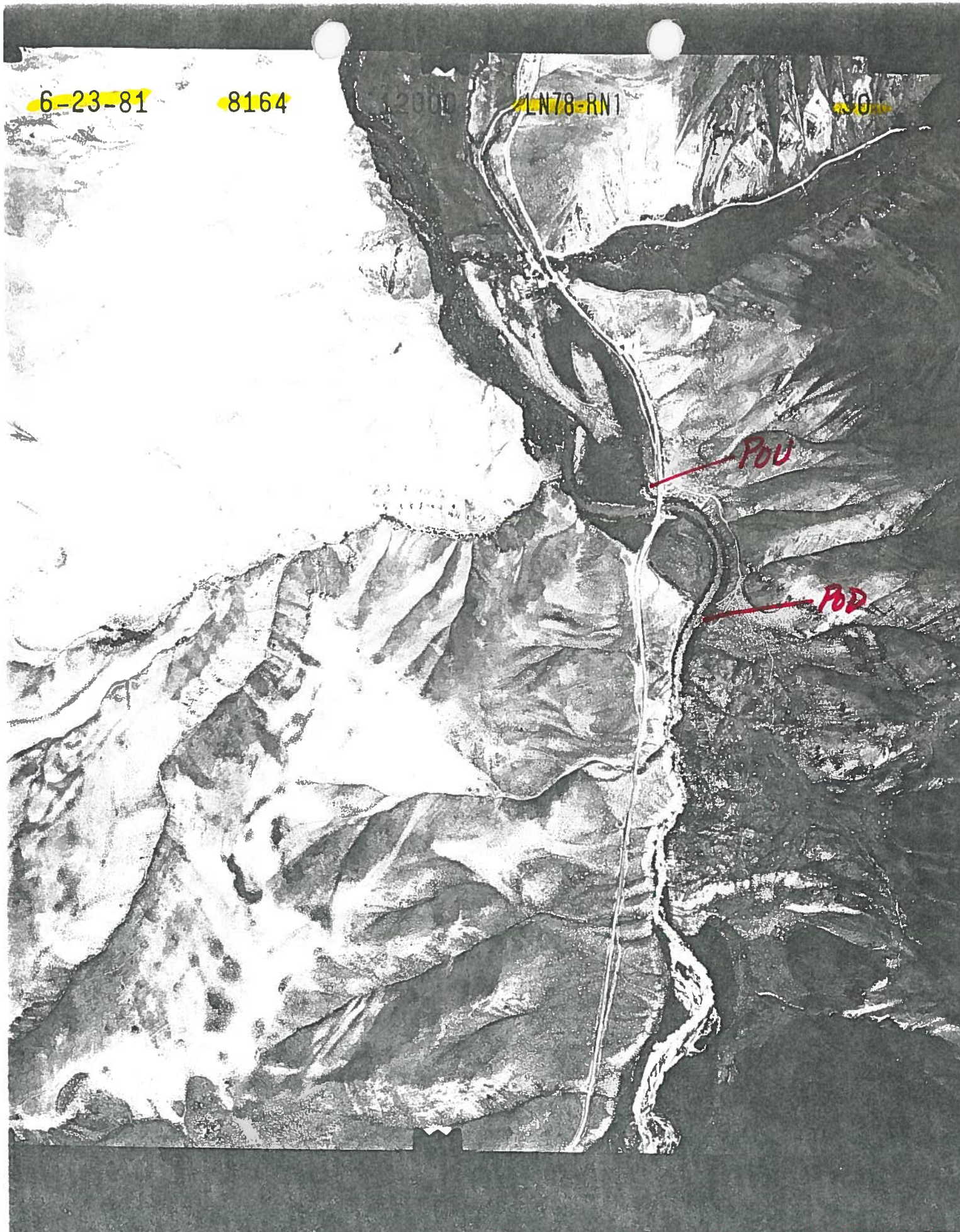
6-23-81

8164

2000

LN78-RN1

40



BLM 06-23-1981 8164 Plate 30 LN78-RN1
A72-10539 EF-5



POU



POD



HIGH WATER MARK/LINE

PIX #13 EF5 125 PM

looking NO. over EF5
towards ROAD CR-Channel
near EF @ bridge so.
of DUNFEE - E. FORK SUBD.

PIX 12 EF5-POD 145 PM

looking SO. @ POD from EF
for EF5

07-15-93 Roll 10 #

07-15-93 Roll 10-13 #

PIX # 16 EF-5 09-10-93

water line high-water mark
below junction box for E.F.
diversion into E.F. SUBD. ditch

1055 PM Roll 41 #

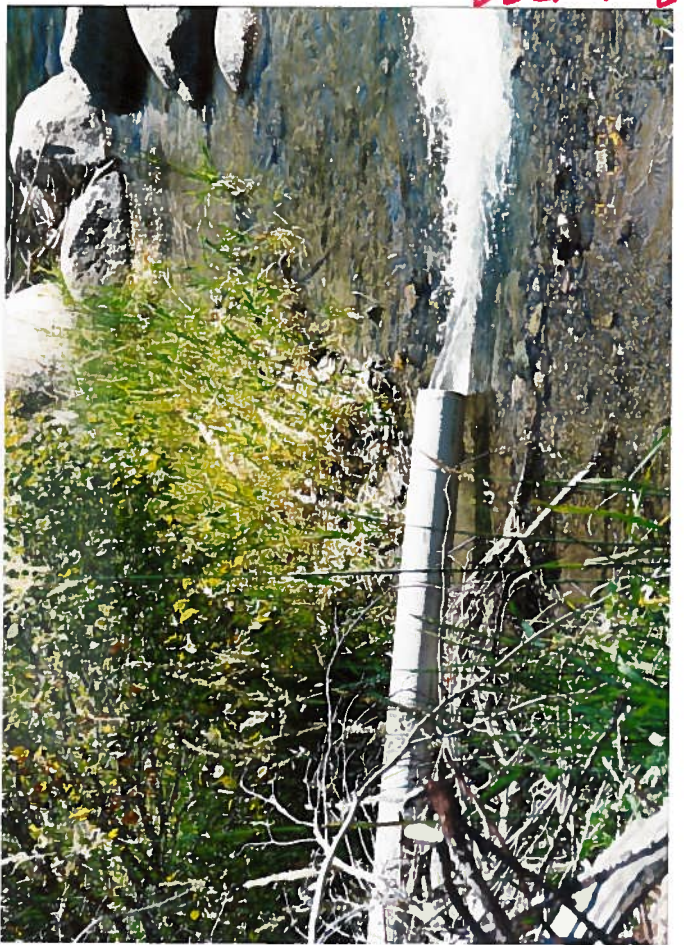
POU

HIGH WATER MARK/LINE

A72-10539

TEXT ON REVERSE

EF-5



TEXT ON REVERSE

Pix #15

EF-5

09-02-93

Looking NE over tree

1:45 PM

Roll 39

#

Pix #14

EF-5

09-02-93

NE over tree towards
Pod for AWWFEE usage

1:45 PM

Roll 39

#

Pix #13

EF-5

09-02-93

Looking SO. over screen
towards discharge pipe

1:50 PM

Roll 39

#

Pix #12

EF-5

09-02-93

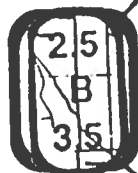
Looking SE down E.F. over
discharge pipe - partial.

1:50 PM

Roll 39

#

TEXT ON REVERSE



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

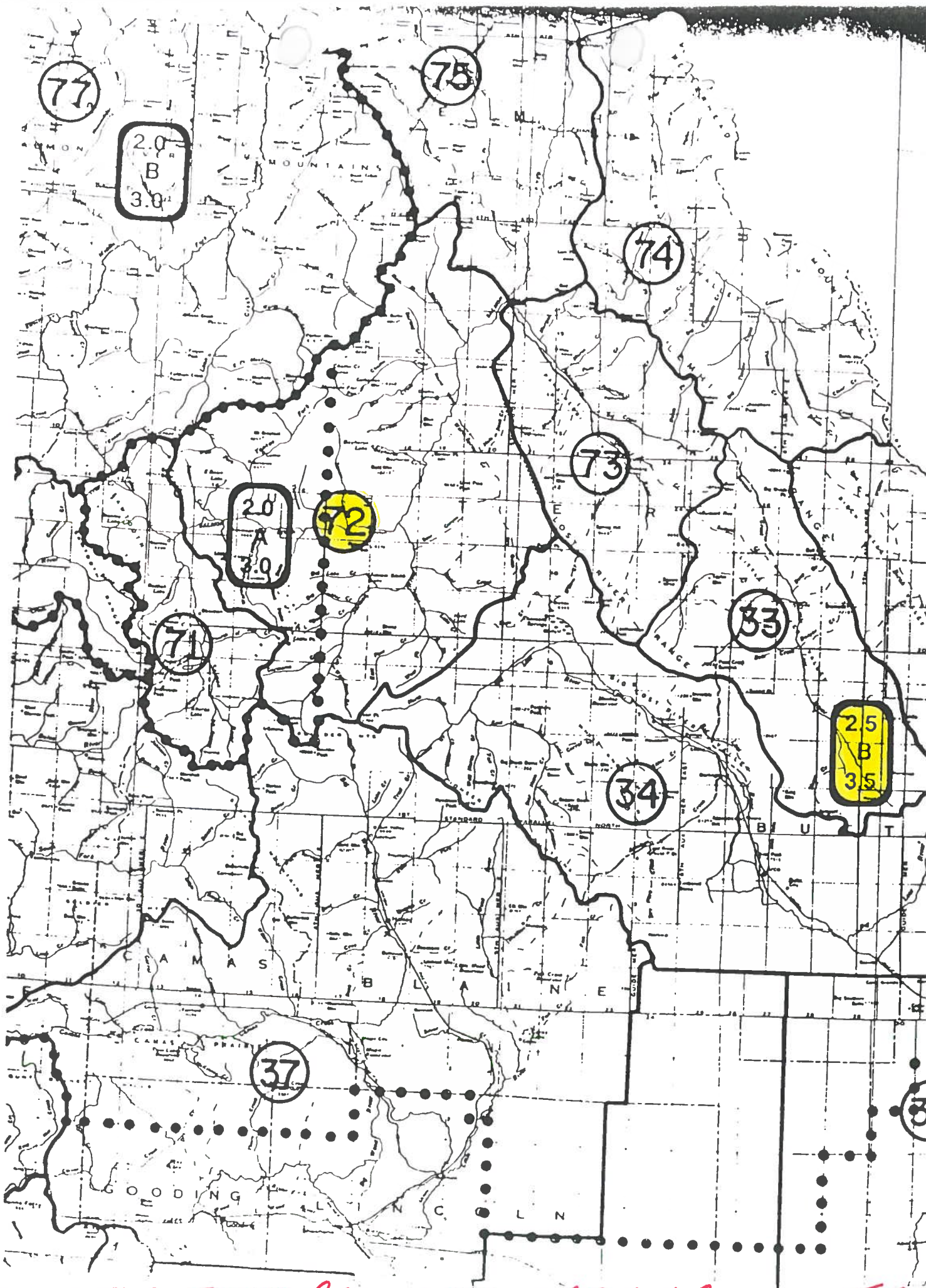
IRRIGATION SEASON OF USE

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



A72-10539 IDWR BASIN MAP-USGS 1968

EE-5

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).

A72-10539

EF



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

A72-10539

EF-5

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

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(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

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

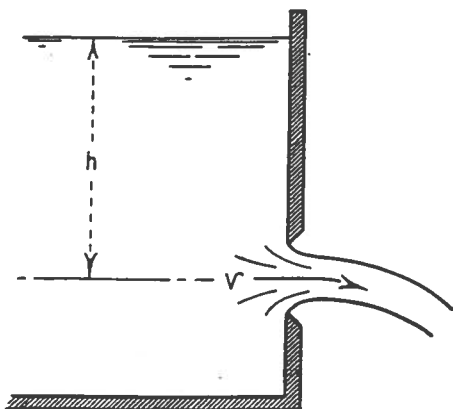


Figure 107.—Orifice flow. 103-D-986.

Water Measurement
Manual

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

A72-10539

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 slanted 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 contraction is

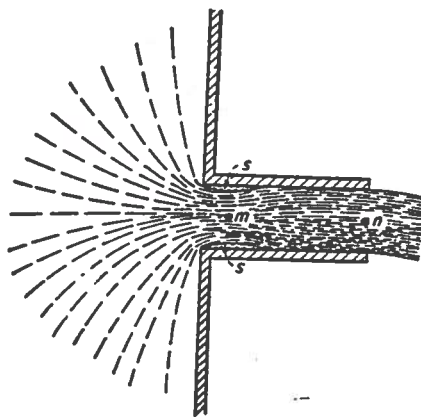


Fig. 43. Standard short tube.

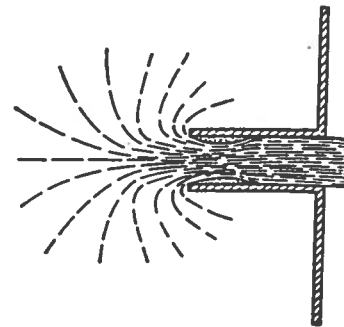


Fig. 44. Reentrant tube.

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

$$h_l = 0.50 \frac{v^2}{2g} \quad (61)$$

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
Vargha, Leonard
McGraw-Hill Book Company
1959 pgs. 4-37-4-38

EL

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	

A72-10539

EF-

EF.5

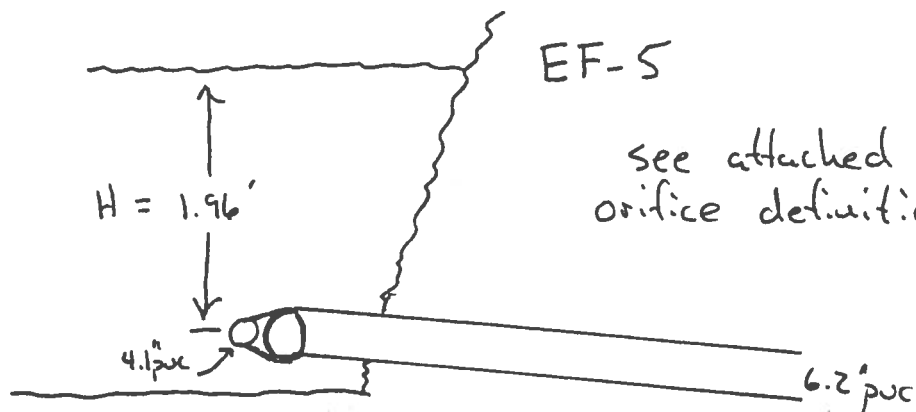
$H = 1.7'$ from water surface to top of pipe
4" pvc ~ then transition ^{to} 6" ~~transition~~
pvc immediately

6" pvc outlet

100% open discharge

about 60% full

98' pipe length
re-entrant tube entrance



see attached sheets for
orifice definitions & relationships

$$\begin{aligned}
 Q &= CA\sqrt{2gH} \\
 &= 0.75 \left(\pi \frac{(4.1)^2}{4} \right) \sqrt{2(32.2)(1.96')} \\
 &= \underline{0.77 \text{ cfs}}
 \end{aligned}$$

estimated discharge
coefficient (C) from
reentrant tube
= 0.75

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 measurement vs. ditch flows if possible.

ROUTING
INSTRUCTIONS: _____

CALENDAR
DATES: _____

A72-10539

EF.

CANAL FLOW MEASUREMENTS

Revised 10/21/93

SCREEN #	CANAL "Q"	STAFF GAUGE	APPROACH VELOCITY
<u>SEF-01</u>			
05/25/93	8.2	1.81	n/a
07/14/93	6.5	1.73	n/a
09/14/93	6.5	1.74	n/a
09/02/93 ~IDWR	5.4 Above		
07/24/59 *	5.2	-	-
<u>SEF-02</u>			
05/24/93	16.9 Above	1.3	n/a
07/12/93	16.5 Above	1.25	n/a
07/12/93	10.6	1.25	n/a
09/14/93	13.8	1.34	n/a
09/02/93 ~IDWR	17.74		
07/17/59	23.6	-	-
<u>SEF-03</u>			
05/24/93	19.6	1.75F	n/a
07/12/93	14.7	1.5-1.6F	n/a
09/14/93	17.1	1.65-1.7	n/a
09/02/93 ~IDWR	18.64		
08/27/59	12.5	-	-
1958 or 1959	14.8	-	-
<u>SEF-04</u>			
05/24/93	28.2	2.23	n/a
07/12/93	21.5	1.99	n/a
09/14/93	12.7	1.6-1.61F	n/a
09/02/93 ~IDWR	16.6		
07/24/59	20.3	-	-
<u>SEF-05</u>			
05/26/93	7.0	2.46	n/a
07/13/93	3.6	1.96F	n/a
09/02/93 ~IDWR	1.56		
07/17/59	15.2	-	-

RECEIVED

NOV 22 1993

Department of Water Resources
Southern Region Office

A72-10539

IF+G 1993/1959 DATA

EF-5