

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: A72-10531
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: JAN 24, 1961

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
09N	17E	2	SW	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
09N	17E	2	SW	SE		FISH	

11. Place of use in counties: CUSTER

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

13. Other Water Rights Used:
NONE

14. Remarks:

EASEMENT AGREEMENT EF-15, FILED AT CUSTER CO. COURTHOUSE ON
1/24/61, PAGES 45-47, BOOK 34.

DITCH OWNERS--R. & E. KEPPNER & ELECTRICAL CONTRACTORS SUPPLY CO.

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)
) SS.
County of _____)

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 A72-10531
Date Received 6/19/90
Receipt Number T017344

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) 334-3700
Mailing Address 600 South Walnut, Box 25, Boise, Idaho Zip 83707
2. Date of Priority (Only one (1) per claim) January 24, 1961
3. Source of water supply (a) East Fork of Salmon River
which is tributary to (b) Salmon River
4. a. Location of existing point of diversion is: Township 9N. Range 17E. Section 2,
1/4 of SW 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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COPY

EF-15

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:

- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- 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	
9N	17E	2															4		

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-15, filed at Custer Co Courthouse
on 1/24/61. Pages 45-47, Book 34.
Ditch owners - R. Keppner & Electrical Contractors Supply Co.

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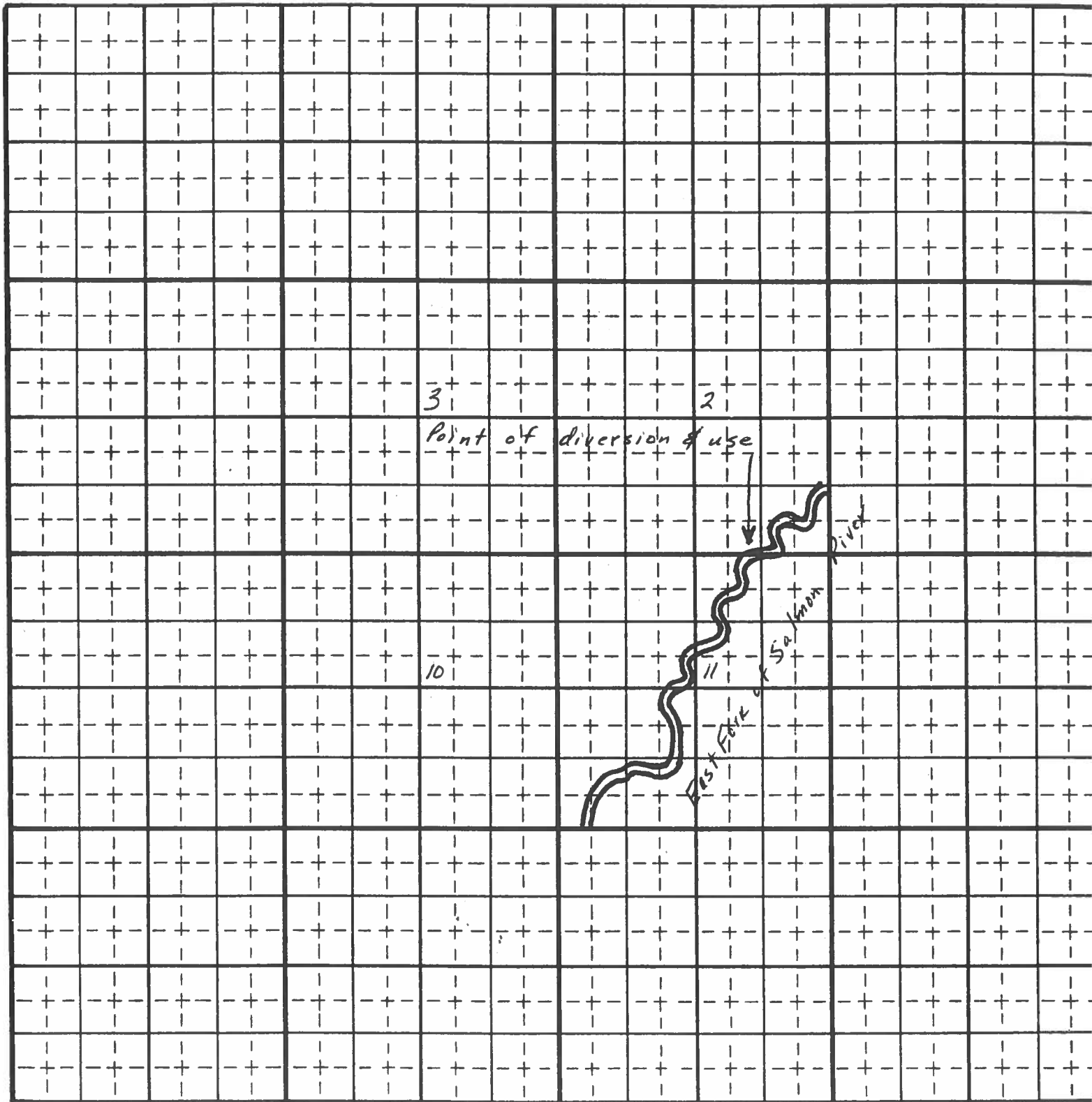
Last Name IDF#G Ident No. _____

Copies: White -State, Yellow-Claimant

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

Scale: 2 inches equals 1 mile

T. 9 N. R. 17 E



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MAR 19 1993

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

Organization

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

Title

Organization

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

Signature of Authorized Agent Kenneth M. Meier

Title and Organization

Assistant Director
IDAHO DEPT. OF FISH & GAME

Date 3-13-90

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. Winkelman

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 IDFG Ident. Number _____

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MAR 19 1993

Copies White-State, Yellow-Claimant

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

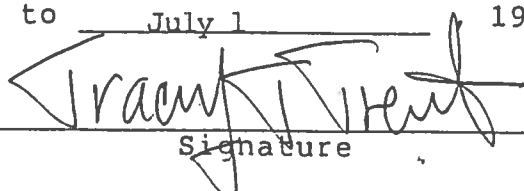
Date Claim Originally Due

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

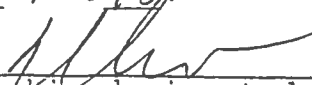
Chief, Bureau of Program Coordination
Title

=====

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

The above request for extension of time is hereby X granted _____ denied, **MICROFILMED**
and the filing deadline extended to June 30, MAR 19 1993

Signed this 2 day of June, 1990


Director or his designated agent

DAVID B. SHAW

4/5/1989

SRBA CLAIMS RECEIVING CHECKLIST 12

CLAIMANT'S NAME

IDFG

CLAIM IDENT. NO.

A72-10531

DATE RECEIVED

6/19/90

CK #

T017346

AMOUNT \$

58 applied

YES

NO

Require
Info?

1. Is the name and address complete with zip code? ☒ YES ☐ NO ☐ Require Info? *
2. Is a priority date entered? ☒ YES ☐ NO ☐ Require Info? *
- 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 ☐ Require Info? *
3. (a) Is a source entered? ☒ YES ☐ NO ☐ Require Info? *
- (b) Is a tributary to entered? (if required) ☒ YES ☐ NO ☐ Require Info? *
4. Is the legal description of the p.d. sufficient? ☒ YES ☐ NO ☐ Require Info? *
5. Is there a description of the diverting works? ☒ YES ☐ NO ☐ Require Info? *
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 ☐ Require Info? *
- Is the period of use included? ☒ YES ☐ NO ☐ Require Info? *
- Is a quantity claimed for each use? ☒ YES ☐ NO ☐ Require Info? *
7. Is a total quantity claimed entered? ☒ YES ☐ NO ☐ Require Info? *
8. If required is a consumptive use entered? ☒ YES ☐ NO ☐ Require Info? *
- Is the consumptive use correct? ☒ YES ☐ NO ☐ Require Info? *
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 ☐ Require Info? *
10. Is (are) the place(s) of use and purpose(s) indicated? ☒ YES ☐ NO ☐ Require Info? *
11. Is (are) the county(ies) entered? ☒ YES ☐ NO ☐ Require Info? *
12. Is the ownership of p.u. checked? ☒ YES ☐ NO ☐ Require Info? *
13. Are other water rights listed or "none" indicated? ☒ YES ☐ NO ☐ Require Info? *
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 ☐ Require Info? *
15. Is the basis of the claim indicated? ☒ YES ☐ NO ☐ Require Info? *
16. If the claimant requested a monthly docket sheet, is payment enclosed? (If yes, describe payment status in "Comments" below.) ☒ YES ☐ NO ☐ Require Info? *
17. Is the claim signed by the claimant, and is the signature appropriate? Organizations must complete the organization block. ☒ YES ☐ NO ☐ Require Info? *
18. Has the claim been signed, sealed, and dated by a notary? ☒ YES ☐ NO ☐ Require Info? *
19. Was this claim filed on time, or was an extension granted? ☒ YES ☐ NO ☐ Require Info? *
20. Is the fee enclosed correct? ☒ YES ☐ NO ☐ Require Info? *
21. If this claim is based on an existing water right, has the identification number been entered? ☒ YES ☐ NO ☐ Require Info? *
22. Should this claim be data entered? ☒ YES ☐ NO ☐ Require Info? *

Claim checked by: RedDate: 8-1-90Claim must be returned to claimant: ☐ (Yes) ☒ (No)Claimant must be notified of modifications: ☐ (Yes) ☒ (No)

Receipt Prepared by: _____

Date: _____

Claim data entered by: _____

Date: _____

Sent to claimant by: _____

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) 736-3033

CECIL D. ANDRUS
Governor

March 2, 1992

R. KEITH HIGGINSON
Director

A72-10531
STATE OF IDAHO
DEPT. OF FISH & GAME
P.O. BOX 25
BOISE

ID 83720

RE: Evidence of Priority

RESPONSE DEADLINE

MAY 1, 1992

Dear Claimant:

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

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

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

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

Respectfully submitted,

Allen Merritt, P.E.
Water Rights Supervisor

Enclosures

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MAR 19 1993

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
A72-10515	EF-BBC-3	1965	C.R.P. construction records (1965)
A72-10516	EF-BBC-2	1965	C.R.P. construction records (1965)
A72-10520	EF-28	1964	C.R.P. construction records (1964)
A72-10521	EF-27	1964	C.R.P. construction records (1964)
A72-10522	EF-25	1964	C.R.P. construction records (1964)
A72-10527	EF-19	1964	IDFG photo files
A72-10528	EF-18	1963 (rebuilt in 1991)	C.R.P. construction records (1963)
A72-10529	EF-16	1963 (rebuilt in 1983)	IDFG photo file
A72-10530	EF-17	1963 (rebuilt in 1983)	C.R.P. construction records (1963) and IDFG photo file
A72-10531	EF-15	1963 (rebuilt in 1988)	C.R.P. construction records (1963) and IDFG photo file
A72-10532	EF-13	1964	C.R.P. construction records (1964) and IDFG photo file
A72-10533	EF-12	1964	C.R.P. construction records (1964) and IDFG photo file
A72-10534	EF-11	1963 (rebuilt in 1989)	C.R.P. construction records (1963) and IDFG photo file
A72-10535	EF-1	1963 (rebuilt in 1982)	IDFG photo file
A72-10536	EF-2	1963	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

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APR 17 1992

Department of Water Resources
Sawtooth 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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APR 16 1992

Department of Fish and Game
Bozeman, Montana 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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MAR 19 1993

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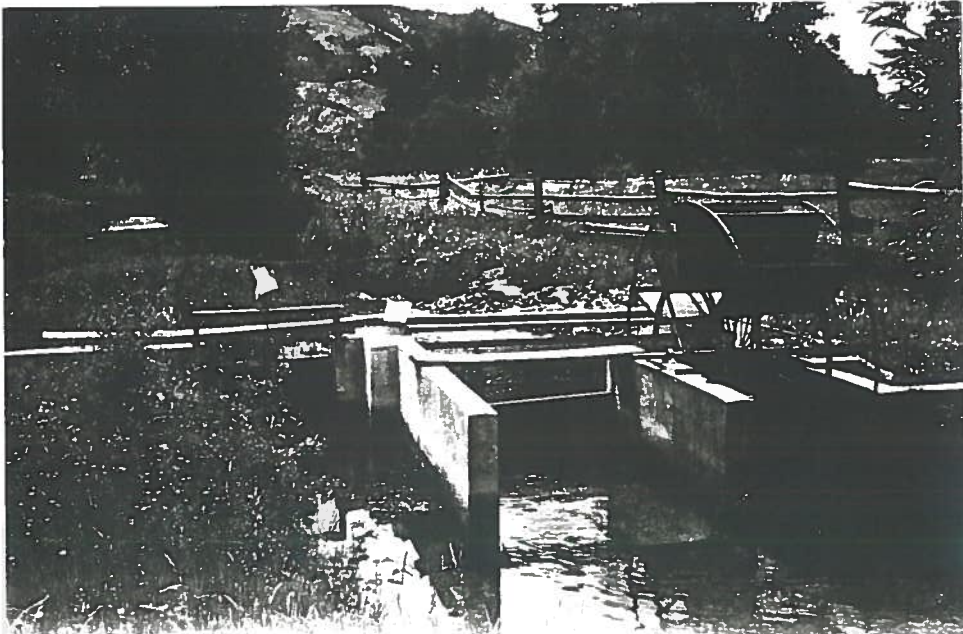
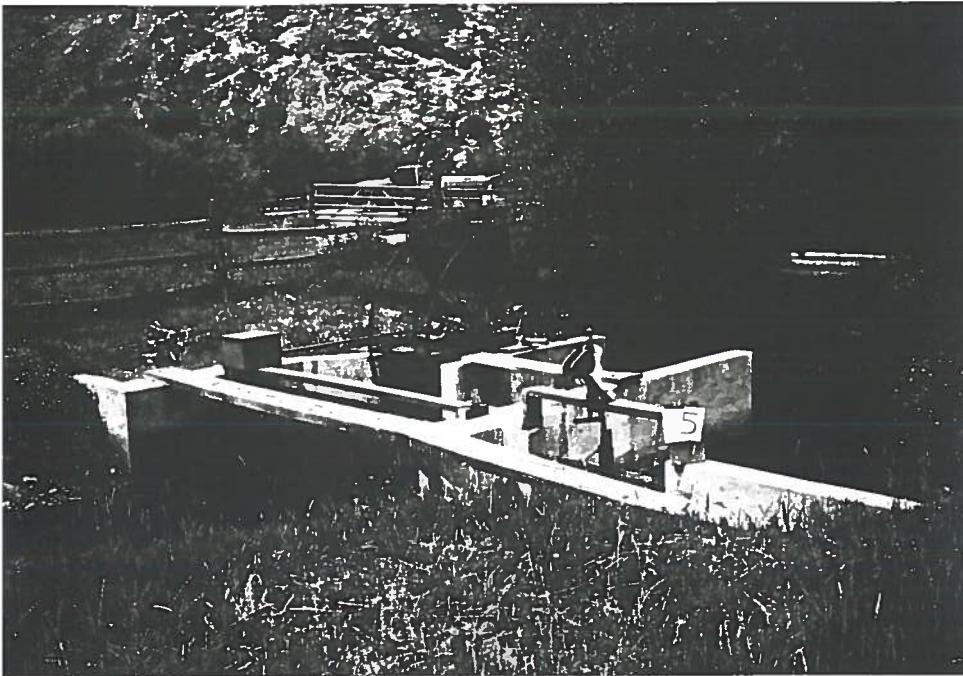
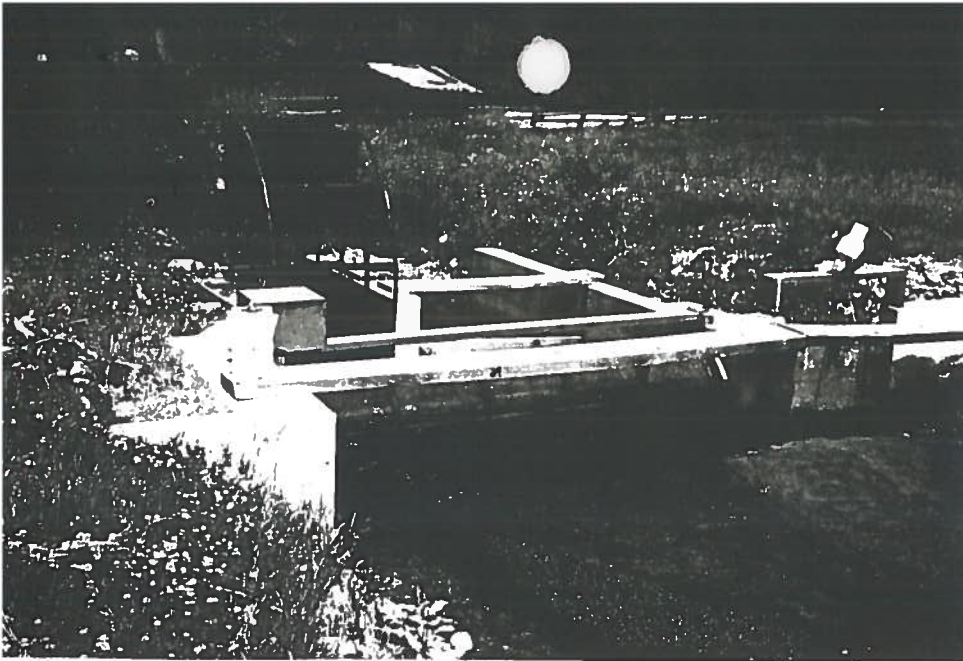
APR 16 1992

Department of Water Resources
Southern Region Office

EVIDENCE OF PRIORITY DATE FOR ADJUDICATION CLAIM NO. **A72-10531**

MICROFILMED

MAR 19 1993



Run 1963
10.8.82

SCREEN # SEF 15

APPROACHMENT DITCH SIZE 1' x 2'

USE Dr. yes

TYPE OF SCREEN Rotary Water Wheel

SIZE OF SCREEN 36" x 10 ft

MODIFIED _____

STRUCTURE Excellent

CATWALKS 1'

HANDRAILS None

BYPASS SIZE 6"

HOW REDUCED 4"

APPROX. LENGTH 100 yds

TRASH RACK Fair

CONDITION OF ROAD _____

CONDITION OF GATES _____

ADDITIONAL COMMENTS
Bypass needs work

SCHEDULED REPLACEMENT
2015

A72-10531

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MAR 19 1993

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

1963

A 72-10531

WESTHOFF FILM
MAR 19 1963

19-10-B

S-12 PBSC 9

S-13 SEF 15 A72-10531

S-14 SEF 17

S-16 SEF 18

S-17 " 4

S-18

S-18A

P.C. 1

P-13

HC 1 (NERD)

" " 2

SEF 2

SEF 3

SEF 4

SEF 5

SEF 6

SEF 7

SEF 10

SEF 10A

SEF 11

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MAR 19 1993

A72-10531

CRF-22-1963

SE7-15 CBW-3 3132 L H

Top wall 94.28

Top footer 95.24

Bot footer 94.60

Bx Pass

6" X 150'

Access Road

1 wooden culvert

2 wooden gates

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MAR 19 1993

Hancock, Vikie

From: Shaff, Don
Sent: Monday, December 20, 1999 9:40 AM
To: Hancock, Vikie
Subject: RE: The BLM (a big subject)

Hi Vikie,

You know I guess I fall on the side if BLM and IDFG want and agree on such precision, IDWR should not stand in their way despite the possibility a later survey could throw the POU into other tracts. My approach if the issue comes to these locations are not absolutely correct and require a change, the right holder will have to file a transfer application. At least we have moved beyond a BLM special remark about the POU above not including any public land.

Don
208/327-7932
dshaff@idwr.state.id.us

-----Original Message-----

From: Hancock, Vikie
Sent: Monday, December 20, 1999 8:23 AM
To: Shaff, Don
Subject: The BLM (a big subject)

Morning, Don -

Doug got an email from Sara last week outlining a settlement between the BLM and IDFG regarding a fish screen location on the East Fork Salmon, **72-10531**. They propose to add a remark that states "The use of this right is limited to the NESEWSE, SESEWSE, and SWSEWSE within the above described place of use." Doug suggested that we run it by you to see what you thought, or if we had already set this precedent. I checked, and from the info available to me, it does appear that the use is limited to the above acres, however I never GPS'd the site.

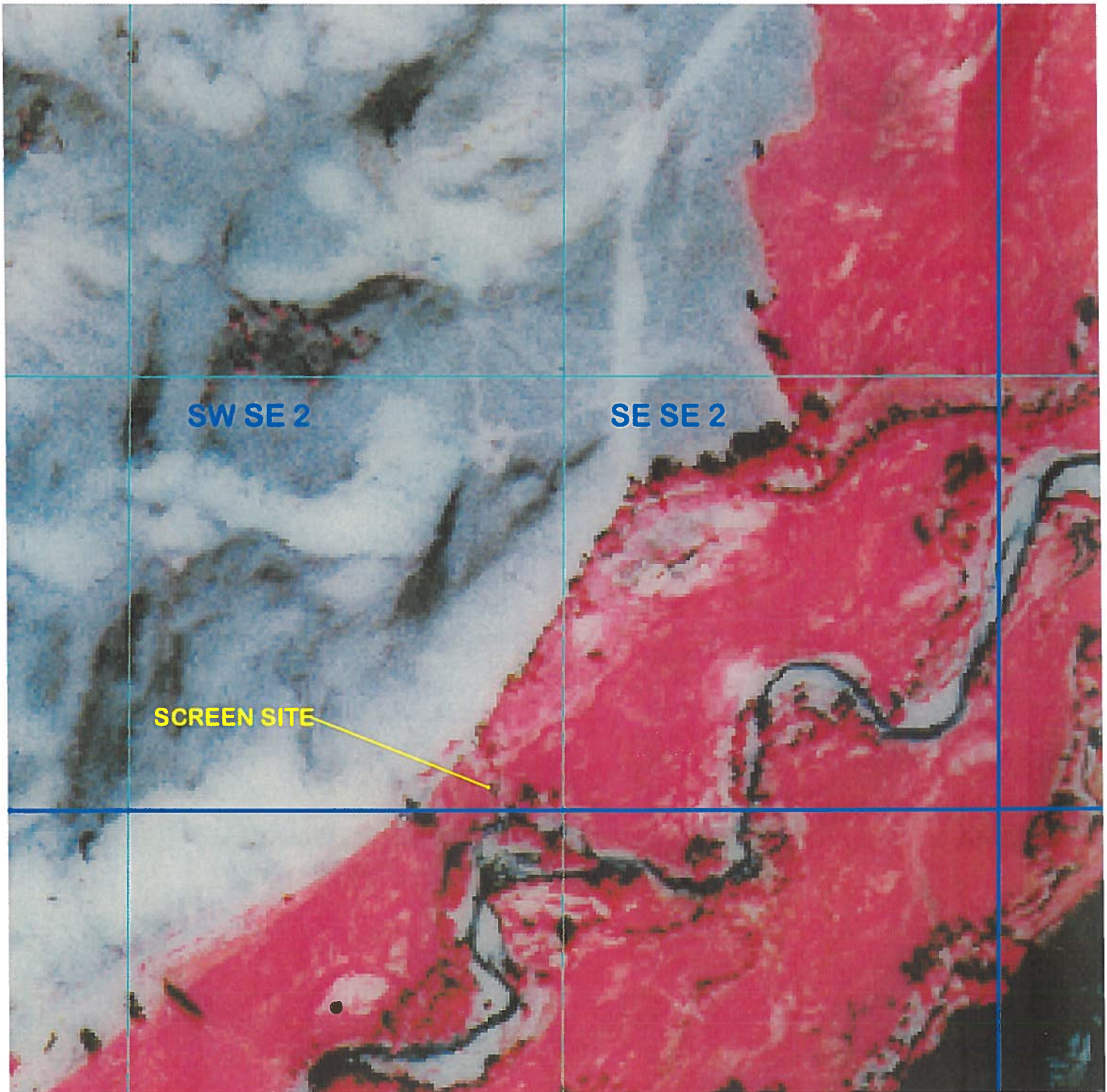
Awaiting your reply,

Vikie

OK.
POU Remark added by
Carter Fertchle, State Office
1-6-2000

A72-10531

T 09N, R 17E, SEC 2



VH

RECEIVED
JUN 29 1999
Department of Water Resources
Sutton Region

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

In Re SRBA	)	A. Subcase <u>72-10531</u>
	)	(Insert water right number)
Case No. 39576	)	
	)	STANDARD FORM 1
	)	OBJECTION
_____	)	

Please fill in the following information:

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

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

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

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

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

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

11. **I object because:**

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

E. REASONS SUPPORTING OBJECTION(S):

The legal description for element nine (POU) above may include Federal land. The description should be specific enough to exclude Federal land.

F.

VERIFICATION (Must be Completed)

State of Idaho)

) ss.

County of Ada)

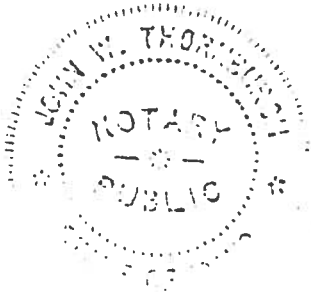
Gary A. Madenford, Water Rights Team Leader, duly sworn, upon oath, deposes and says:
(Name of person filing objection)

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

Gary A. Madenford
(Signature of person filing objection)

Carly A. Brown
(Attorney signing in representative capacity)

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



John W. Thornburgh

Notary Public for Idaho

Residing at: Boise

My Commission Expires: 05-16-2003

INSTRUCTIONS FOR MAILING

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

G. CERTIFICATE OF MAILING

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

1. Original to:

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

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

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

3. Copies to:

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

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

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


Signature of Objector or attorney mailing on Objector's behalf

AJ5856NP

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

DATE: JAN-25-1999
PAGE: A-892

RIGHTS FROM: SOURCE: SALMON RIVER, EAST FORK TRIBUTARY: SALMON RIVER
RIGHT NUMBER: 72-10531

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

SOURCE: SALMON RIVER, EAST FORK TRIBUTARY: SALMON RIVER

QUANTITY: 0.8 CFS

PRIORITY DATE: 04/15/1963

POINT OF DIVERSION: T09N R17E S11 NENWNE PVT Within CUSTER County

PURPOSE AND PERIOD OF USE: PURPOSE OF USE PERIOD OF USE QUANTITY
FISH PROPAGATION FISH/ BYPASS PIPE 04-15 10-15 0.8 CFS

PLACE OF USE: FISH PROPAGATION Within CUSTER County
T09N R17E S02 SWSE BLM/PVT

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

THE FOLLOWING RIGHTS ARE ALSO DIVERTED THROUGH THE DIVERSION
DESCRIBED ABOVE: 72-10303 AND 72-10304.

EXPLANATORY MATERIAL: BASIS OF CLAIM - BENEFICIAL USE

Unauthorized

CLARIFY POU SUCH THAT IT IS
CLEAR WHERE WITHIN THE
POU THAT THE USE IS CONDUCTED.

NE + NE 4-11

NY-5E-2

NE45E4-2

Salmon River Electric
Power Line
Idaho 25 Custer

Electric
ter
24.25' to Angle Pole #185

SW-SEA-2

T-9N, R-17EBM

MSB/M

SEA SEA 2

Access entry to sites:
EF-15 & 16 is approx.
2.2 miles above road
junction at Jimmy
Smith Lake Creek.

access road from ford
in fall is along river
bank springing hayfield - SIV & SIV.1
on L.O.S. grant.

RECEIVED

JUL 27 1993

Department of Water Resources
Southern Region Office

STATE OF IOWA - FISH & GAME DEPARTMENT
FISHERIES DIVISION - COMMUNITY ACTION PROGRAM
SCREEN LOCATION MAP, EF-15416

21 Feb 1961

diffic.

MG1B50N
MG1B50N

17.200' 55.200'

Water Right Number - R72-10531

Prefix Translation:

RESEARCH

Old (D) Number -

*** C - CURRENT OWNER ***
STATE OF IDAHO*** K - ALSO KNOWN AS ***
FISH & GAME1 - DEPT OF FISH & GAME
2 - PO BOX 25
3 -
City- BOISE
Phone - 208-334-3700

State- ID Zip- 83702

1 -
2 -
3 -
City- X
Phone - 208-000-0000

State- ID Zip- 0

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

+ - - Status - - - +

+ - - Source - - - - - +
SALMON RIVER, EAST FORK+ - - Tributary - - - - - +
SALMON RIVER+ - - Twn Rng Sec Tract Lot RFlg County Point of Diversion - - - - - +
09N 17E 2 SE SW SE (37) CUSTER+ - - Code Description Period From Period To Water Use Diversion Rate Diversion Volume
19 - FISH PROPAGATION 04/15 10/15 0.800+ - Total Div. Rate - + + - Total Div. Volume - +
0.800+ - Total Consumptive Use - + + - KW Usage - +
0.0+ - - Twn Rng Sec Tract Lot Acres Code Description County
09N 17E 2 SW 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 RIGHTS ARE ALSO DIVERTED THROUGH THE DIVERSION
DESCRIBED ABOVE: 72-10303 AND 72-10304.

Water right number - R72-10531

Prefix Translation: RESEARCH

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

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

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

+ - - - - Comments - - - - - +
Date: 12/16/1993 User Id: HITCHCOC Subject: COPIED FROM REMARKS 1/24/61, PAGES 45-47, BOOK 34.
EASEMENT AGREEMENT EF-15, FILED AT CUSTER CO. COURTHOUSE ON
DITCH OWNERS--R. & E. KEPNER & ELECTRICAL CONTRACTORS SUPPLY CO.

+ - - Audit Fields - - - +
03/16/95 FHITCHCO

+ - - - - Adjudication Rights Dates and Flags Area - - - - - +
Court Report Filing - 00/00/0000 Field Inspection Made - 09/09/1993 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 - P
Claim Received Date - 08/16/1990 Last Amended Date - 00/00/0000 Temporary Right -
Receipt Number - T017346 Water District -
POU Ownership Flag - N Federal/State Indicator - S
Name Connector - OR Presumption Flag -
Notice of Error Flag -

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

10:35:31
06/07/92

PAGE: 11
QUICKLOOK INFORMATION

CLAIM NUMBER: A72-10531

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		09-08-93	Y	6'		12-16-93	
POINT OF DIV	Y			Y	15+62			
SOURCE	Y							
PLACE OF USE	Y							
DIV. AMOUNT CFS/VOLUME	Y	moving 1044-93 to 11+6						
CONSUMPTIVE USE	-							
PURPOSES	Y							
PERIOD OF USE	Y				63			
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.

6' 15+6 material.
6' 2 Acres, alluvial.
6' 3 Acre long. Standard.

PAGE: 1
GENERAL INFORMATION

CLAIM NUMBER: A72-10531

LAST: STATE OF IDAHO FIRST:
ADDRESS: DEPT OF FISH & GAME
P.O. BOX 25
CITY: BOISE STATE: ID ZIP: 83720
PHONE NUMBER: 208-334-3700
OWNER CODE: C

DEPT OF FISH & GAME FIRST:
ADDRESS: STATE: ID ZIP: 0
CITY: X
PHONE NUMBER: 208-000-0000

OWNER CODE: K

FIELD EXAM REQUIRED?

VERIFICATION REQUIRED DUE TO REMARKS?

DATABASE FIELD
EXAMINER
Y

CLAIM REMARKS: EASEMENT AGREEMENT EF-15, FILED AT CUSTER CO. COURTHOUSE ON
1/24/61, PAGES 45-47, BOOK 34.
DITCH OWNERS--R. & E. KEPNER & ELECTRICAL CONTRACTORS SUPPLY CO.

Updated
BUD Z

CONTACT PERSON: _____

PHONE NUMBER: (____) ____-____

DATE OF FIELD EXAM: 07/20/93

APPOINTMENT MADE: Y(____) N(____) ☒

ACCOMPANIED BY: _____

TIME: 1:00 A(____) P(M) ☒

RELATIONSHIP TO CLAIMANT: _____

DIRECTIONS TO PROPERTY / REMARKS:

marked @ gate room all within along so. road between Boxer
home

A. AJ CLAIM: # A72-10531 PRIORITY DATE: 01-24-1961 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 ()

REMARKS:

Not heard re 01-24-1961 based on documents submitted. According to letter to. stated that construction was occurred at the time. Construction of the diversion canal was full into construction from 1963 onwards. Use stream of use after 05-01 to 09-30 as priority stream 05-01-1963. I believe correct stream of use to 4-15 to 10-15 03-16-95 by H.

RECOMMENDED PRIORITY DATE:

~~05-01-1963~~ 04-15-1963

REVIEWED BY

H

DATE

12-16-1993

✓ updated

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A72-10531	09N	17E	2		SW	SE		CUSTER

OTHER AJ CLAIMS WITH SAME AJ POD
A PREFIX R PREFIX
NONE NONE

WR RECORDS IN SAME 40 ACRE TRACT
NONE

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 appears to be SE SW SE & 2. Found 1365 OFD 1974 1-24.
It is 7000-1365 QUID; It is 4 section locations; 1364 ALUM N178-1012
8164 plate #9.

RECOMMENDED POINT(S) OF DIVERSION AND SOURCE:
TWP. RGE. SEC. 1/4 1/4 1/4 LOT COUNTY

09N 17E 2 SE SW SE CUSTER

SOURCE: Salmon River, East Fork
REVIEWED BY: JH
TRIB: Salmon River
DATE:

Updated

A. ROOT WATER RIGHT NUMBERS: A72-10531

B. POU LISTING

TWP RNG SEC 1/4 1/4 LOT NAME

AJ
#/ACRES

WR
#/ACRES

LANDSAT
DATA

FIELD
EXAM.

RECOMM.
ACRES

09N 17E 2 SW SE STATE OF UTAH

A72-10531 7

3.00

3.00

3.00

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

C. FIELD EXAM REQUIRED?

DUE TO POU DISCREPANCY? (Y/N)

DATABASE
Y

FIELD
EXAMINER

POU COUNTY: CUSTER

PRESUMPTION FLAG:

REMARKS:

Recommend as claimed.

RECOMMENDATIONS:

TOTAL ACRES:

N/A

REVIEWED BY:

71

DATE:

12-16-1995

A. AJ CLAIMED USES:

PURPOSES 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

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 to correct season of use 4-15 to 10-15 03-16-1995 by JF.

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 *PARANINE'S* FLOW MEASUREMENT
SEE ATTACHED CALCULATIONS.

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

OTHER RIGHTS LISTED IN CLAIM: NONE

NO CLAIMS FOUND WITH SAME POU AND IRRIGATION USAGE

NO RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION

A72-10303 diverted @ same POU
For Standard Remarks.

D. RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE
ACRES ----- $\times$ 0.02 CFS/ACRE = CFS
(Taken from p/u review)

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

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

2. IRRIGATION CONSUMPTIVE USE
CLAIMED CONSUMPTIVE USE = AF/A
ACRES ----- $\times$ CONSUMPTIVE VOL. AF/A FOR AREA =
TOTAL CONSUMPTIVE USE AF/A

3. IRRIGATION DIVERSION VOLUME
CLAIMED DIVERSION VOLUME = AF/A
ACRES ----- $\times$ DIVERSION VOL. AF/A FOR AREA =
TOTAL DIVERSION VOLUME AF/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:
SEE ATTACHED SHEET? Y(☒) N()

REMARKS: (Include limitations on CONSUMPTIVE USE for combined rights.)
Simple water diversion not N/A. Not in same consumptive
with amount to limit.

RECOMMENDATIONS:

REC.
PURPOSES

REC. PERIOD
FROM TO

REC. DIV
RATE CFS

REC. DIV
VOL. AF/A

REC. CONS.
USE

FISH REAPPLICATION

~~03-04~~ ~~09-10~~
4-15 10-15

TOTAL FOR THIS RIGHT

REVIEWED BY:

DATE:

recommended 1.52 cfs, allowed .80 cfs; contacts for possible amendment.

A. CHECK ONLY THE FOLLOWING THAT APPLY:

OWNERSHIP
FOREFEIT/ABANDON
ADDITIONAL DIV. AMOUNT

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

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 72-10531

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

- A72-10531

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
N

FIELD
EXAMINER

REMARKS:

AUTHENTICATION
SIGNATURE: *J. S. Witham*

DATE: 12-16-1995

NAME OF FIELD EXAMINER:

TITLE:

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

11:01:35
06/07/92

PAGE: 12
PROFILE REPORT

CLAIM NUMBER: A72-10531

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 25 BOISE ID 83720 (208) 334-3700	01/24/1961	FISH PROPAGATION	03-15 11-15	0.80 CFS	
			TOTAL DIVERSION:		0.80 CFS	

Water Source: EAST FORK OF SALMON RIVER Tributary to: SALMON RIVER Stage: BENEFICIAL USE
Point(s) of Diversion: TOWN RIZE S02 SWSE CUSTER County

Place of use Legal Description for: FISH PROPAGATION

	NE	ENE	SE	ENE	SE	SW	SW	SW	SE	SE
T R S	: Lt	: Ac	: Lt	: Ac	: Lt	: Ac	: Lt	: Ac	: Lt	: Ac
09N 17E 2	:	:	:	:	:	:	:	:	:	:

POU County: CUSTER

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

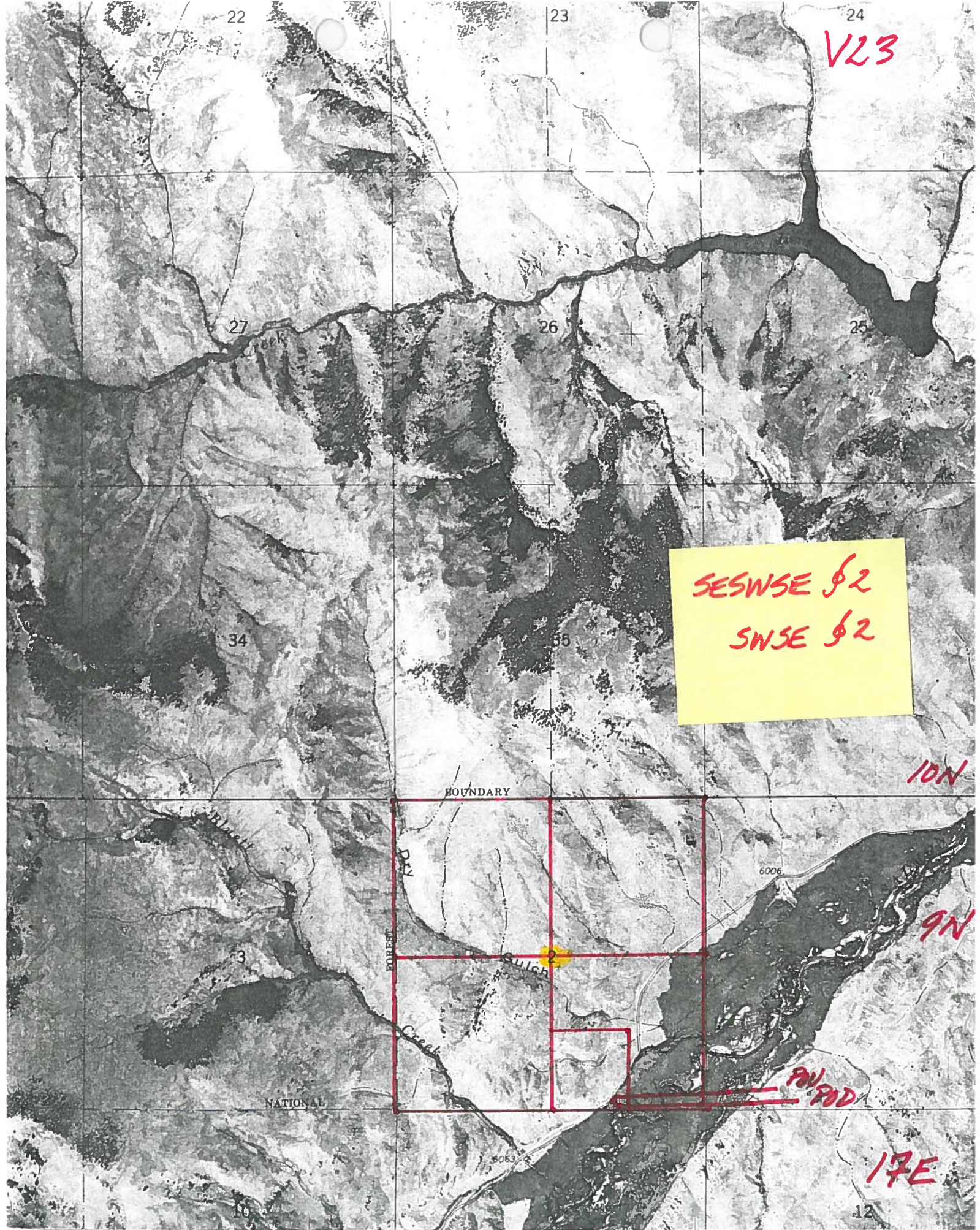
Other Rights: NONE

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

Remarks: EASEMENT AGREEMENT EF-15, FILED AT CUSTER CO. COURTHOUSE ON
1/24/61, PAGES 45-47, BOOK 34.
DITCH OWNERS--R. & E. KEPNER & ELECTRICAL CONTRACTORS SUPPLY CO.

Dates: Exam Made Date: Verified Date:

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



RECEIVED

JUL 27 1993

Department of Water Resource
Southern Region Office

Jimmy Smith Lake

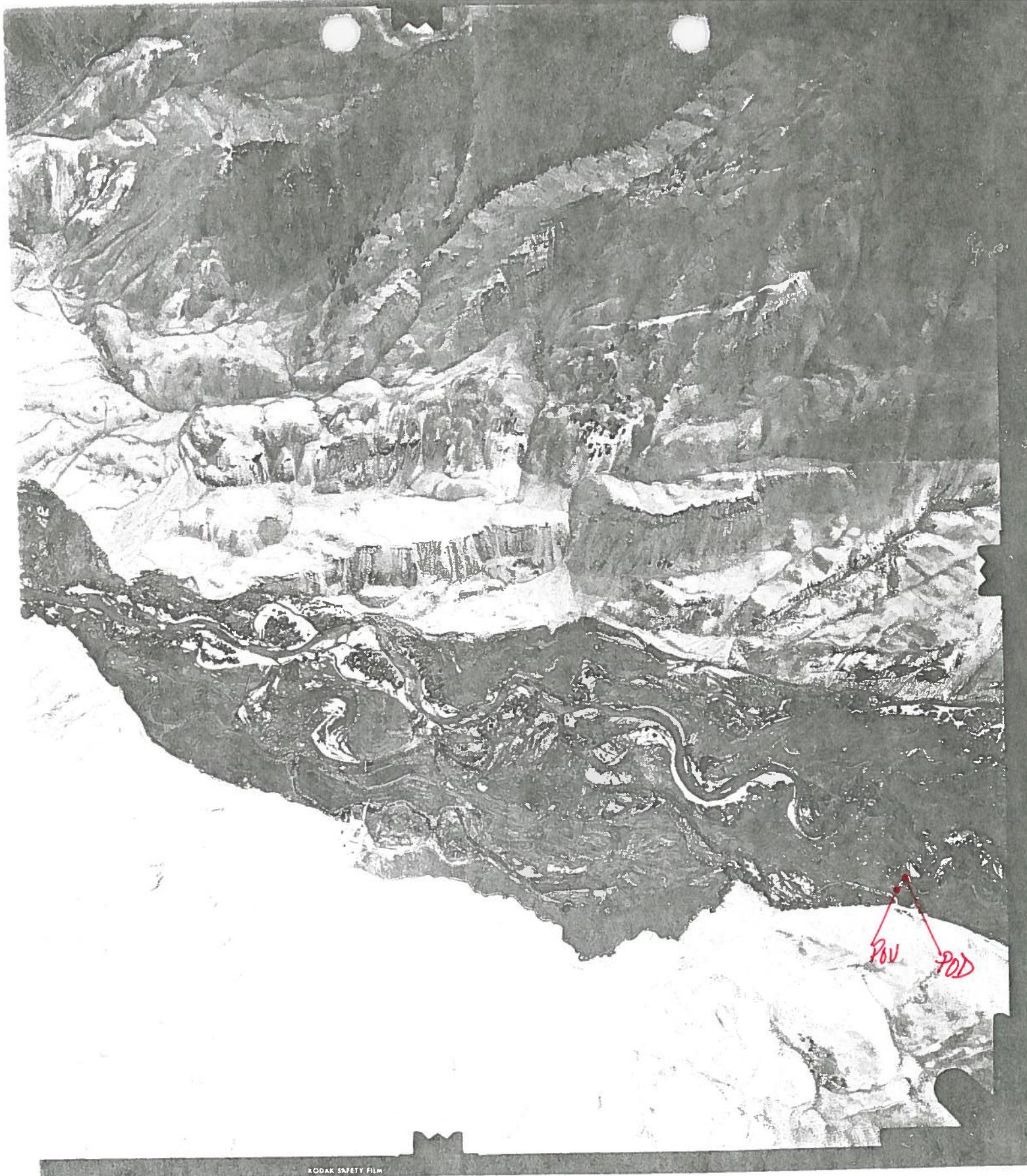
EF13

EF-15

EF 14

A72-10531 EF-17 IF+G-TOPO 11565 QUAD

EF-



06-23-1981 in directory BLM-SANJON office
A72-10531 BLM AERIAL LN78-RN2 8164 plate # EF-1



SEE REVERSE
FOR TEXT



A72-10531

EF-15

Pix #13

EF-15

1:45 PM

looking NW towards County
Road @ POV

12-20-1993

Roll 12

#

Pix #32

EF-15

1:50

Looking over survey road
No. along EF to discharge
pipe in distance beyond clump
of foliage in background.

Roll 41

#

SEE REVERSE
FOR TEXT

Pix #33

EF-15

1:25

Looking almost due W.
towards EF road from the
discharge end - very partial
contents.

09-09-1993

Roll 41

#

EF-15



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

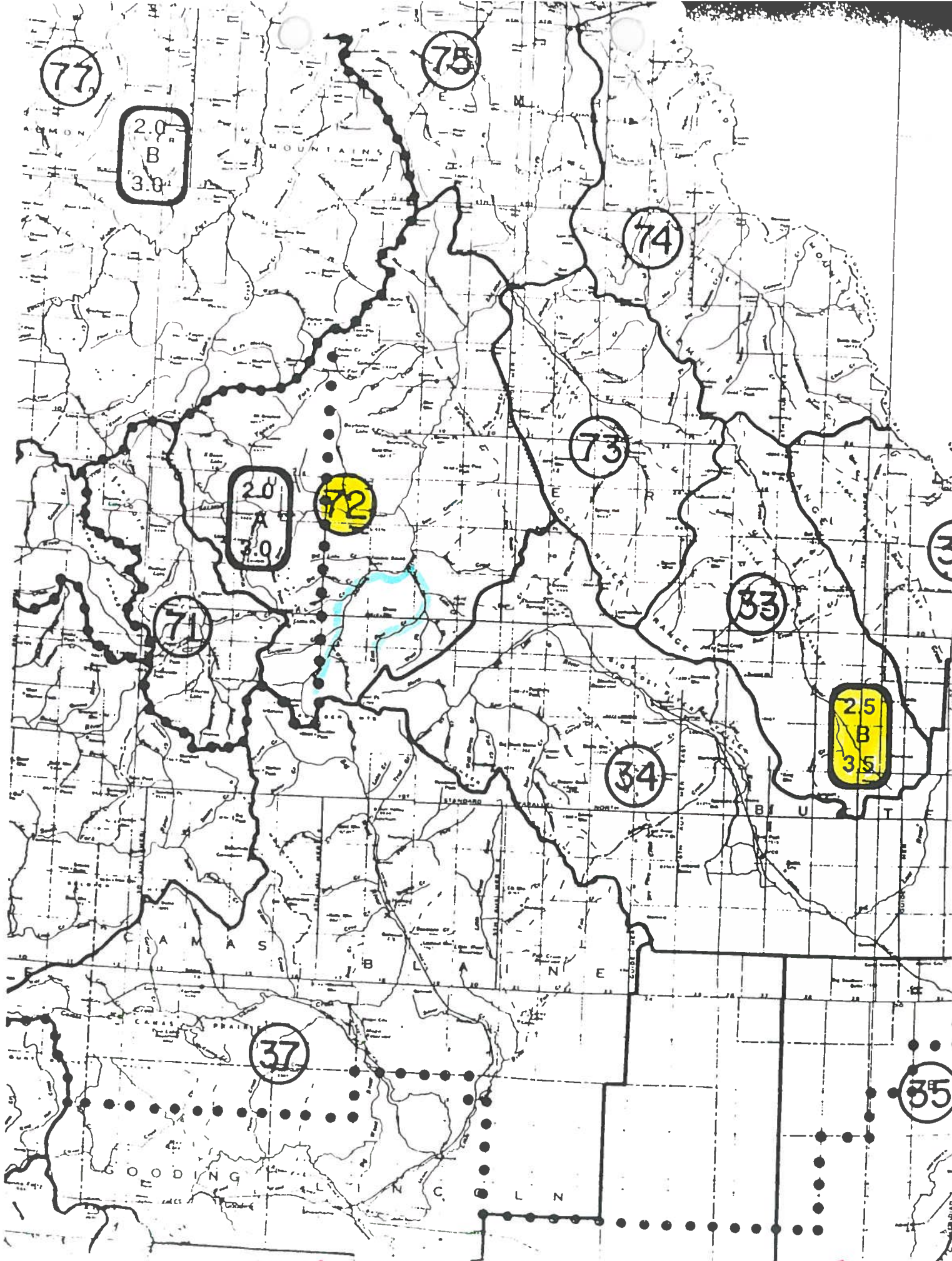
IRRIGATION SEASON OF USE

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



A72-10531

TDNR SEASON BASIN MAP

EE-15

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).

A72-10531

EF-13



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

A72-10531

EF-1

Prepared by Brett Barry
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

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

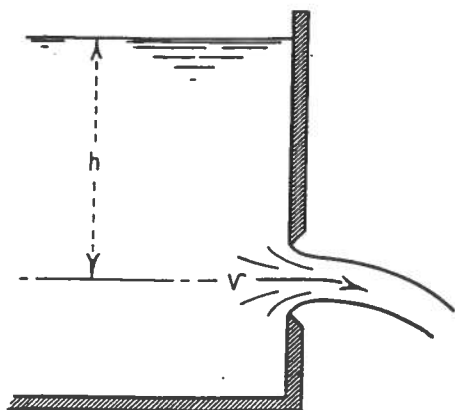


Figure 107.—Orifice flow. 103-D-986.

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 the jet to contract, but it soon expands and fills the tube. The space s surrounding the contracted jet is filled with air and eddying water. Since the velocity at m in the contracted

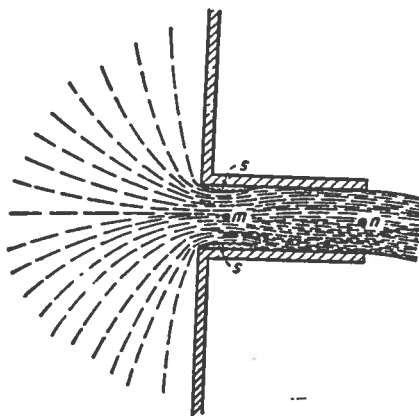


Fig. 43. Standard short tube.

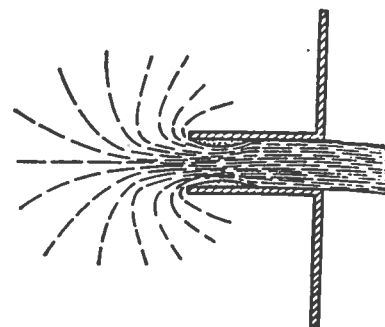


Fig. 44. Reentrant tube.

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

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

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

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

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

A72-10531

EFY

Open Channel Discharge Measurement Notes

hot, windy,

A. GENERAL INFORMATION

- GENERAL INFORMATION
1. Name of stream or ditch: BAKER, FIDDLE SR. / JR.
2. Location: 55-15-35' ND 1/4 sec along CO. ROAD
3. Person conducting measurement: BOB FOSTER
4. Date and time of measurement: 06-13-95 3:35 / 4:10
5. Accompanied by: Z. BAKERS SR, JR.
6. Measuring device size and ID no. SUNDEFER 200
7. Spin test before measurement OK? OK after measurement OK? _____
8. Purpose of measurement: SRBA CLAIM REVIEW

B. MEASUREMENT DATA

rocky cobble-wide, uniform ditch-shade

[illegible]

ORIGINAL

IDAHO DEPARTMENT OF WATER RESOURCES
GPS FIELD LOG FORM

IDWR-GPS 02, Ed. 4/93

NAME: FRANK HITCHCOCK - SD. REGION

PAGE 1 OF

PROJECT: BASIN 72 - SERBA CLAIM REVENUE

RECEIVER SERIAL NO.

Date	Time	GPS File Name	Well-Owner	T., R., Sec.	Other Well Name	Comments
06-12-95	4:00	unable to	SAMON R., E.F.		EF-27	Q collection - on 12-29
06-13-95	10:10	R061316A	ARMANDA CR.		EF-61-29	Tag A8883846 - ser 12
" "	12:00	R061318A	EF-6-S.R.F.F.		EF-6-CLIP	" 47 - on 12-29
" "	2:15	R061320A	EF-5-S.R.F.F.		EF-SUBD	" 48 - on 12-29
06-14-95	4:00	R061421A	HC-3-H.C.		H.C.3-BANNERS	" 49 - on 12-29
" "	11:00		EF		CHAMPAGNES	ALBERT FOSTER W/
" "	11:00		EF		CHAMPAGNES	SEND DATA TO ME
06-15-95	9:30	R061515A	ROAD CR		EF-SUBD, EX 2	Q able to do so
06-13-95	3:35		EF-15		E. BAKER	new div. note

COPY

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		2.77	
EF-15	1.52	1.46	
EF-16	1.24		
EF-17	0.75	1.76	
EF-18	1.05		
EF-19	1.74	1.60	
EF-20	0.82	1.50	
HC-1	0.73	1.75	
HC-2	0.46	0.69	
HC-3	0.71	1.40	
BBC-1	0.77	1.97	
BBC-2	0.78	2.00	
WSC-1	0.28	0.86	

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EF-13

EF-168

6" pvc pipe inlet re-entrant tube

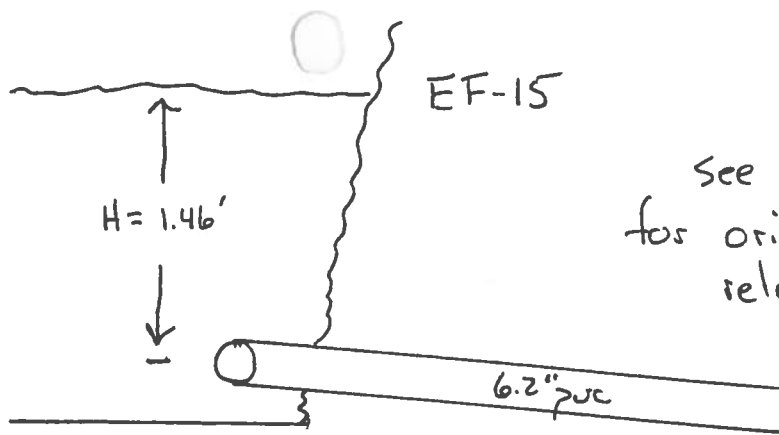
6" pvc pipe outlet

100% open discharge
about $\frac{1}{8}$ full

a very, very long pipe

$H = 1.2'$ from water surface to top of pipe

water mark is very close to vent or past



See attached sheet
for orifice definitions &
relationships

$$Q = CA V = CA \sqrt{2gH}$$

$$= 0.75 \left(\pi \frac{(6.2)^2}{4} \right) \sqrt{2(32.2)(1.46)} \text{ reentrant tube}$$

$$= \underline{1.52 \text{ cfs}}$$

estimated discharge
coefficient (C) from
= 0.75

TELEPHONE MEMORANDUM

Incoming Call
X _____
Outgoing Call 1.10 PM to 1.35PM

Returning Call

TO: Chuck Keller, Program Director

DATE: 10-19-1993

FROM: FH

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

FILE NO: _____

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

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

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

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

ROUTING
INSTRUCTIONS: _____

CALENDAR
DATES: _____

A72-10531

EF-15

SEF-13

06/01/93	15.0	1.5F	Overtopping
07/14/93	10.0	1.4F	n/a
09/10/93	18.3 @ P of D	-	-
	5.2 Water diverted back to river	-	-
	13.3 Below Screen	-	Springs in area
09/16/93	18.2 @ P of D	-	-
	18.7 Above Screen	-	-
	11.8 Below Screen	-	-
	6.6 Water diverted back to river above bypass outfall		
	7.6 Water diverted back to river below bypass outfall		
	Springs in area		
08/20/59	9.0	-	-

SEF-15

05/27/93	15.9 Above	1.4	n/a
07/13/93	16.7 Above	1.46	n/a
09/15/93	12.9 Above	1.26	n/a
09/09/93	~IDWR 14.5 Above		
08/11/59	24.7 Above	-	-

Not able to stop log; backs water out of ditch.

SEF-16

05/27/93	14.1	-	n/a
07/14/93	14.0	1.16	n/a
09/20/93	20.5	1.26-1.35F	n/a
08/27/59	11.6	-	-

SEF-17

05/27/93	9.9	2.25	n/a
07/14/93	9.0	2.52	85% Sub.
09/20/93	8.3	2.14-2.15F	n/a
08/24/59	15.0	-	-

SEF-18

06/01/93	7.1	2.38	n/a
07/14/93	4.4	1.97F	n/a
09/20/93	1.0	-	n/a
08/24/59	19.3	-	-

One irrigation channel below screen has been filled in, NIU.

RECEIVED

NOV 22 1993

Department of Water Resources
Southern Region Office

A72-10531

IF+G 1993/1959 DATA

EE-15