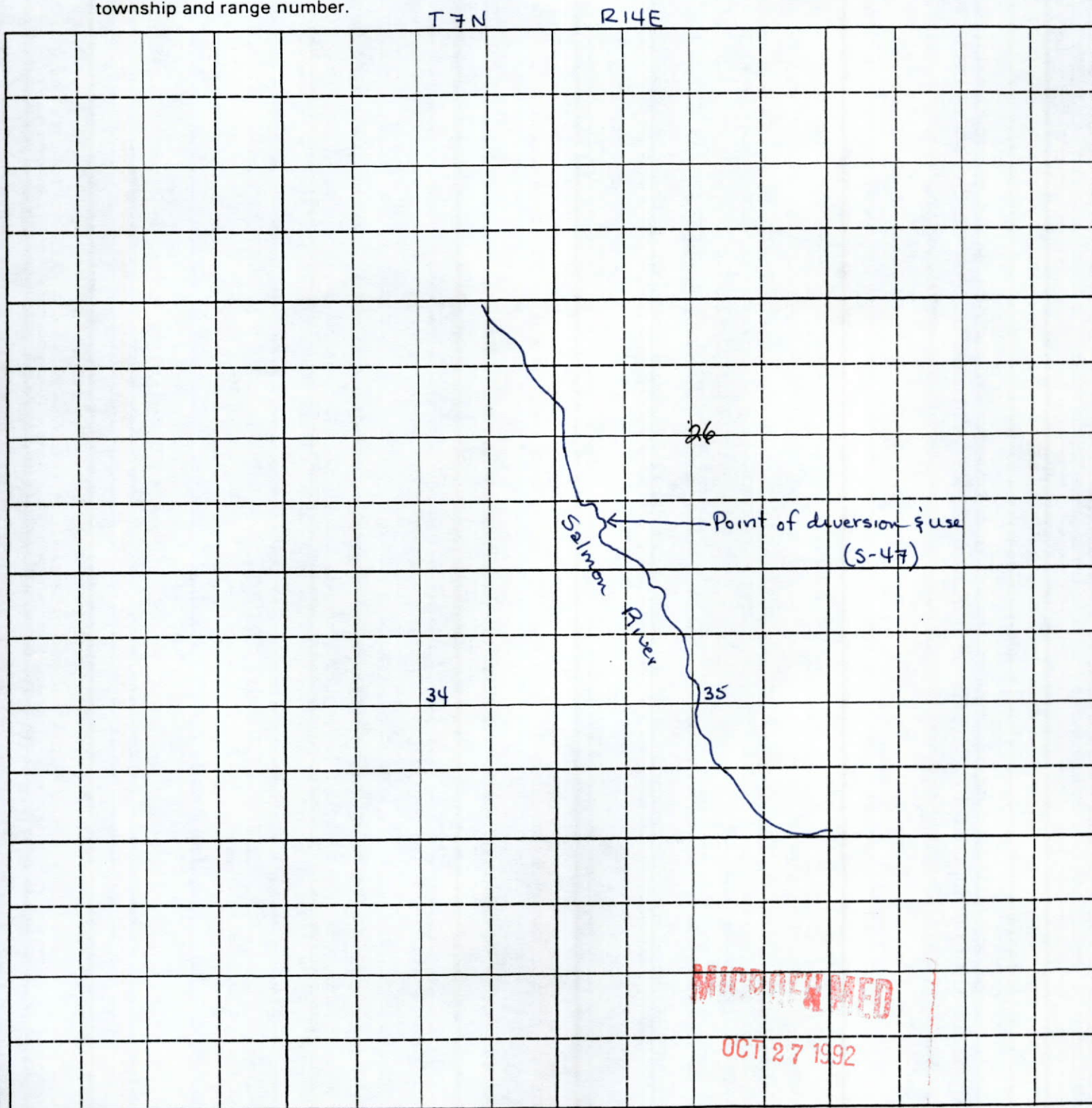


71-7161

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

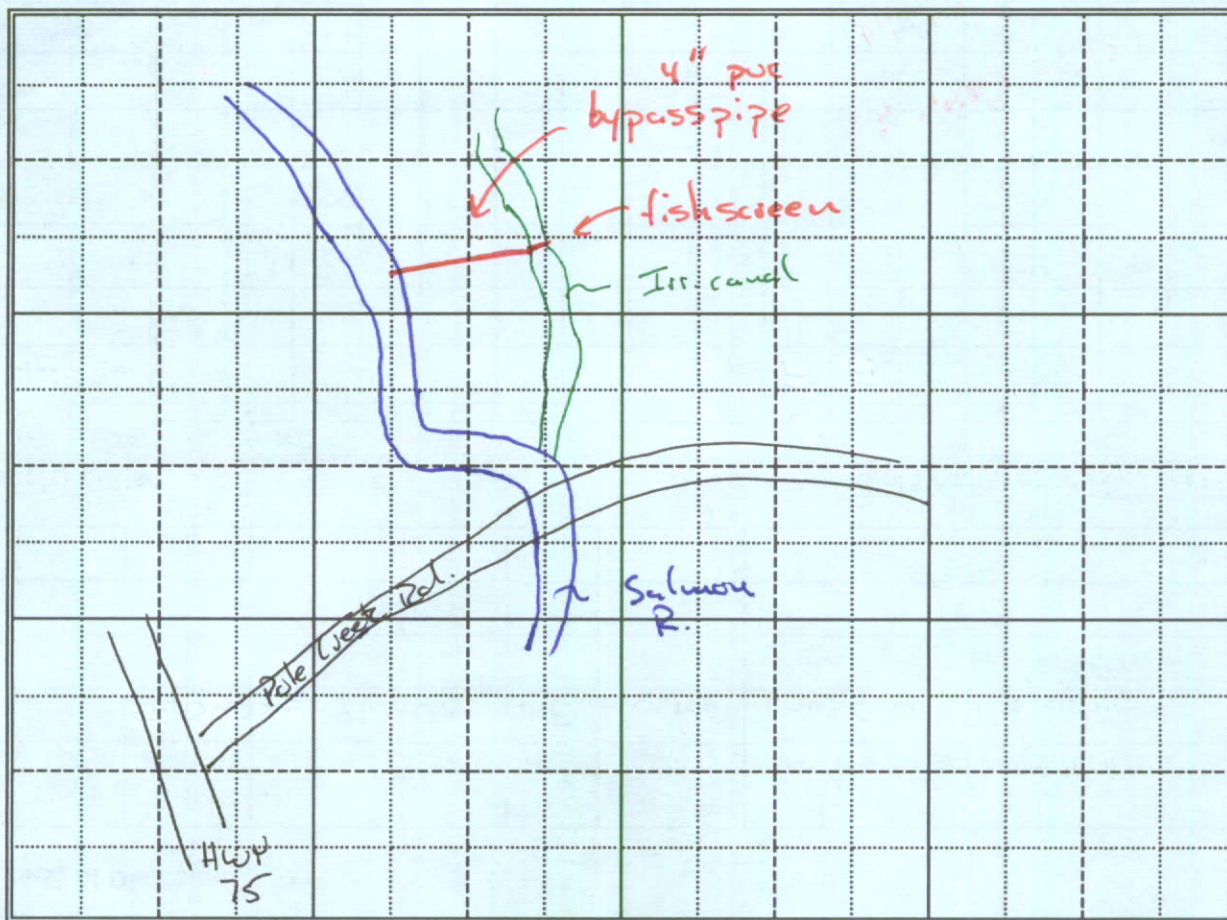


Scale: 2 inches equal 1 mile.

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

Cynthia Robertson IDFG
(Applicant)

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____ Not to Scale

☒ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

☐ Aerial Photo Attached (required for irrigation of 10+ acres)

☒ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A					

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

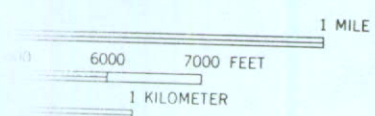
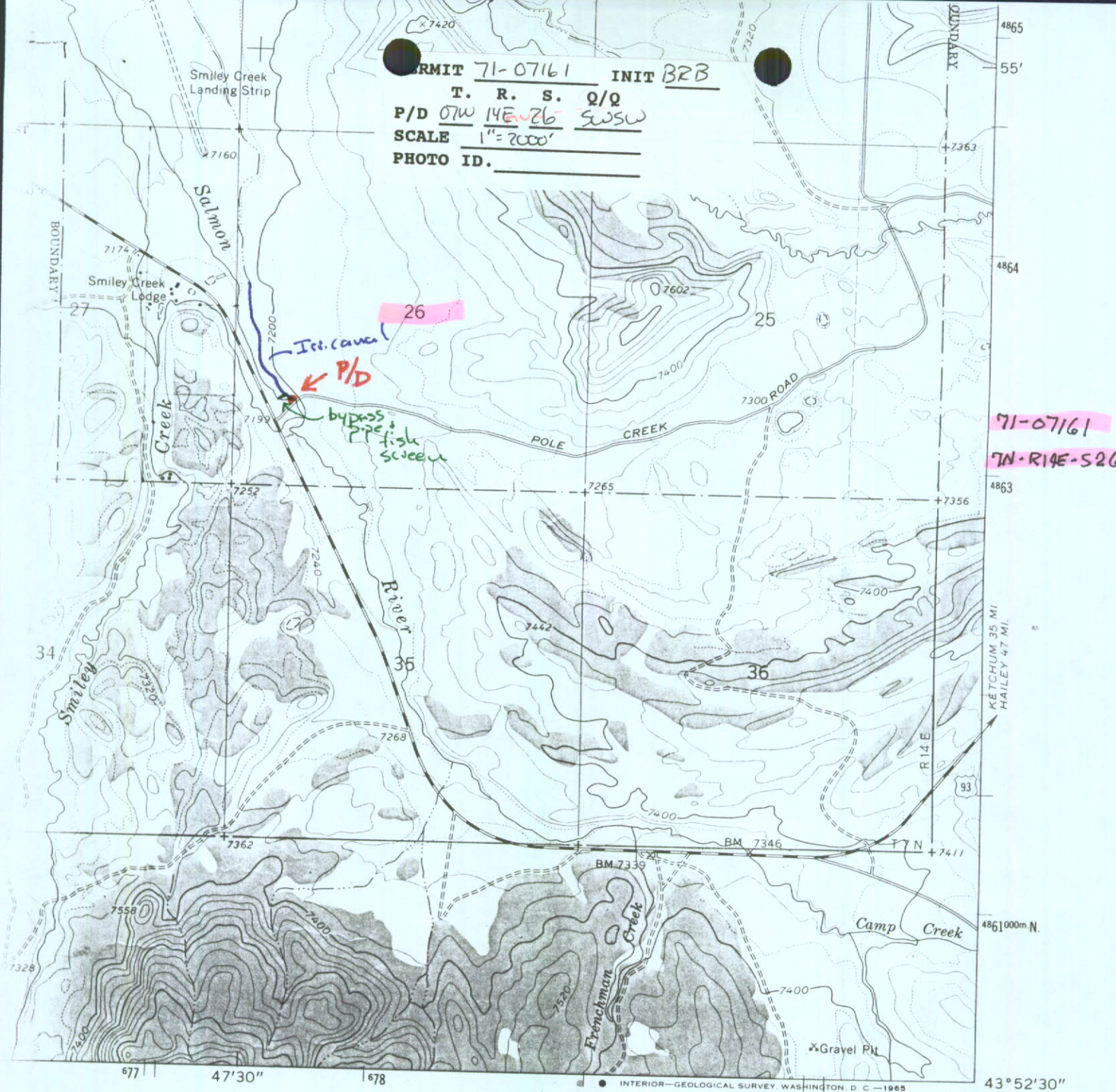
1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Automatic level	CSE	Solteksha / Lietz	153294 10347			
Tripod & Survey Rod						

2. Measurements: Height of H₂O above middle of inlet = 0.51'
 Water Surface at fish screen inlet = 6.90' Head = 1.38'
 Top of pipe at outlet = 8.28'

AUG 15 1994

PERMIT 71-07161 INIT BRB
 T. R. S. Q/Q
 P/D 07W 14E-26 SWSW
 SCALE 1"=2000'
 PHOTO ID. _____



ROAD CLASSIFICATION
 Medium-duty ——— Light-duty ———
 Unimproved dirt =====
 U. S. Route

STANDARDS
 FOR WASHINGTON 25, D. C.
 AVAILABLE ON REQUEST

ALTURAS LAKE, IDAHO
 N4352.5—W11445/7.5

1963
 AMS 3071 IV NE—SERIES V893

AUG 15 1994

electric diison down

P-71-7161

These photos
were taken on
August 3, 1993.

This photo is
looking west
towards the
Salmon R.



re-entrance
tube entrance is located here



This photo is
looking
northeast.

UNRECORDED

AUG 15 1994

P 71-7162 This photo was taken
on August 3, 1993.



The outlet pipe is open discharge
into the Salmon R. The outlet was
somewhat oval from being crushed.

MICROFILMED

AUG 15 1994

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 71-07161

Priority: June 9, 1992

Maximum Diversion Rate:

0.35 CFS

This is to certify, that STATE OF IDAHO

DEPT OF FISH & GAME

PO BOX 25

BOISE ID 83707

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated June 9, 1992; and has submitted Proof of Beneficial Use on January 13, 1993. An examination indicates that the works have a diversion capacity of .350 cfs of water from:

SALMON RIVER

tributary to **SNAKE RIVER**

source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
FISH PROPAGATION	05/01 to 09/30	0.35 CFS	

LOCATION OF POINT(S) OF DIVERSION:

SWSW , Sec. 26, Township 07N, Range 14E
CUSTER County

PLACE OF USE: FISH PROPAGATION

TWN RGE SEC

07N 14E 26

SWSW

CONDITIONS/REMARKS:

1. This water right is appurtenant to the described place of use.
2. This right is subject to all prior water rights and may be forfeited by five years of non-use.
3. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
4. Use of water under this right shall be non-consumptive.
5. The issuance of this right in no way grants any right-of-way or easement across the land of another.
6. Fish propagation use is for fish protection through the installation of a deflecting screen at a diversion canal entrance and a bypass pipe to flush the fish back to the Salmon River.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. Witness the seal and signature of the Director, affixed at Boise, this 19TH day of July, 1994.

Acting for

R. Keith Higginson, Director

AUG 15 1994

RECEIVED

JAN 13 1993

Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

OFFICE USE ONLY
Amt. of Fee \$ 100.00
Date 1-14-93
Receipt No. 026514
Receipt by [Signature]

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee, when necessary, or a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

1. Permit No. 71-07161 Telephone No. (208)334-3700

2. Name(s) of Permit Holder(s): Idaho Department of Fish and Game

3. Mailing Address: 600 S. Walnut, Boise, Idaho 83707

4. Source of Water: Salmon River, tributary of Snake River

If GROUNDWATER, Well Driller's Name: _____ Date Drilled: _____

OPTIONAL:

Pump horsepower: _____ Pressure (psi): _____ Dynamic pumping level (ft.): _____

5. Extent of Use (as authorized by the permit):

Domestic _____ (No. of households) Stockwater _____ (No. and type of stock)

Irrigation _____ (No. of acres) Other Fish Propagation

6. Total rate and/or volume for which proof is submitted 0.80 cfs OR _____ acre/feet

7. Refer to the approval conditions on your permit and respond accordingly:

Measuring device: Required? _____ Yes X No Installed? _____ Yes _____ No

OR

Flow Measurement Port: Required? _____ Yes X No Installed? _____ Yes _____ No

8. Fee Enclosed: \$ 100.00 (See License Fee Schedule on back of Instruction Sheet)

9. Person to contact to accompany the Department representative during field examination of the water system.

Jim Blake (208) 756-2271
Name Telephone No.

P.O. Box 1336, Highway 93 N, Salmon, Idaho 83467
Address

10. The above information is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the state of Idaho.

Ministry

FEB 05 1993

12-10-92 Jim Blake, Const. Supervisor & DFR
Date Signature (and title, if on behalf of a company or organization)

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 71-07161

Proposed Priority: June 9, 1992 Maximum Diversion Rate: 0.80 CFS
This is to certify, that STATE OF IDAHO

DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83707

has applied for a permit to appropriate water from:

SALMON RIVER tributary of SNAKE RIVER

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
FISH PROPAGATION	03/15 to 11/15	0.80 CFS

LOCATION OF POINT(S) OF DIVERSION: SWSW , Sec. 26, Township 07N, Range 14E
CUSTER County

PLACE OF USE: FISH PROPAGATION
TWN RGE SEC

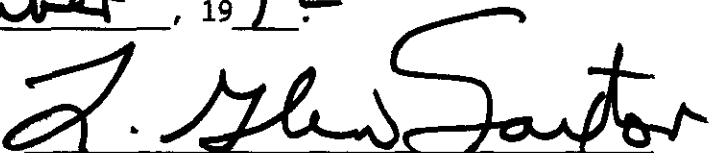
07N 14E 26 SWSW

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before November 1, 1993.
2. Subject to all prior water rights.
3. Use of water under this right shall be non-consumptive.
4. The issuance of this right in no way grants any right-of-way or easement across the land of another.
5. Fish propagation use is for fish protection through the installation of a deflecting screen at a diversion canal entrance and a bypass pipe to flush the fish back to the Salmon River.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the signature of the Director, affixed at Boise, this

29th day of September, 1992

for 
R. Keith Higginson, Director

MICROFILMED

OCT 27 1992

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Ident No. 71-7161

RECEIVED

To appropriate the public waters of the State of Idaho

OCT 13 1992

Department of Water Resources
Southern Region Office
Phone 334-3700

1. Name of applicant Idaho Department of Fish and Game Phone 334-3700

Post office address 600 S. Walnut, P.O. Box 25 Boise ID. 83707

2. Source of water supply Salmon River which is a tributary of Snake River

3. Location of point of diversion is NE $\frac{1}{4}$ of SW $\frac{1}{4}$ of SW $\frac{1}{4}$, Govt. Lot _____

Sec. 26 Township 7N Range 14E B.M. Custer County; additional
points of diversion if any: _____

4. Water will be used for the following purposes:

Amount 0.8 for fish propagation purposes from 3/15 to 11/15 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated is (a) 0.8 and/or (b) _____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Concrete structure in ditch
with screen and bypass pipe

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet; period of year when water will be diverted to storage:
_____ to _____ inclusive.

c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.

d. Is ground water with a temperature of greater than 90°F being sought? no

7. Time required for the completion of the works and application of the water to the proposed beneficial use is
Screen built in 1980 and has operated since that time
1 years (minimum 1 year).

MICROFILMED

OCT 27 1992

8. Description of proposed uses (if irrigation only, go to item 9):

- Hydropower; show total feet of head and proposed capacity in KW. _____
- Stockwatering; list number and kind of livestock. _____
- Municipal; show name of municipality. _____
- Domestic; show number of households. _____
- Other; describe fully. Fish - screen prevents fish from entering irrigation ditch and bypass pipe returns fish and water to river.

9. 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 the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
7N	14E	26											H						

Total number of acres to be irrigated _____

10. Describe any other water rights used for the same purposes as described above. none

11. a. Who owns the property at the point of diversion? not known

b. Who owns the land to be irrigated or place of use? not known

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. _____

12. Remarks: No easement agreement found for S-47

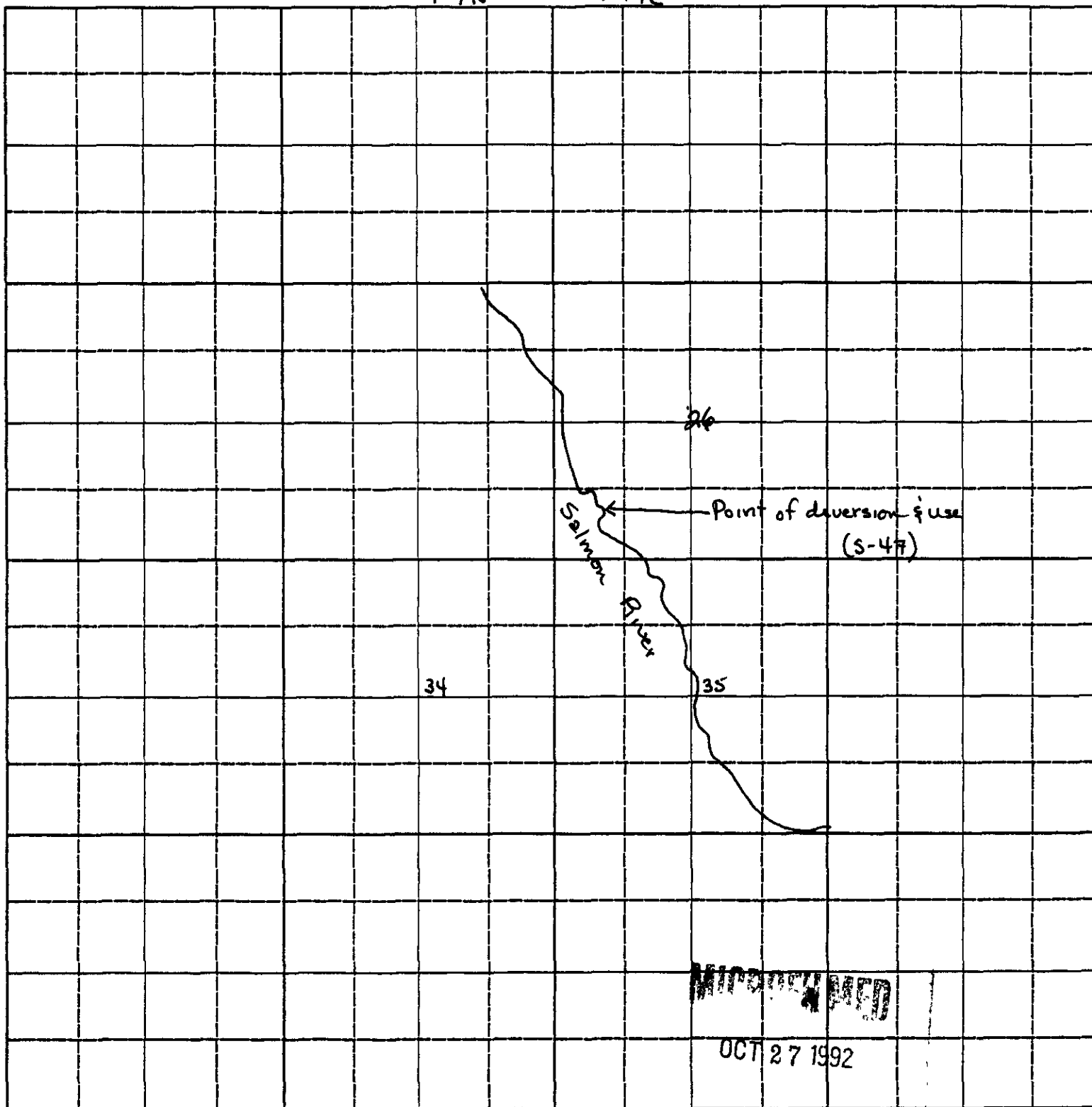
OCT 27 1964

71-7161

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

T 7 N

R 14 E



Scale: 2 inches equal 1 mile.

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

Cynthia Robertson IDFG
(Applicant)

Received by SC Date 11/21/92 Time 2:30 Prelim _____ eck by MTS
Fee \$ 45⁰⁰ Received by SC # C024477 Date 4/10/92 turned 6/9
Publication prepared by mb Date 7/6/92 Published in Challis Messenger
Publication approved M Baldwin Date 8-24-92

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. _____, and said application is hereby _____.

1. Approval of said application is subject to the following limitations and conditions:

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before _____, 19 ____.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.

e. Other:

MICROFILMED
OCT 27 1992



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

July 20, 1994

STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83707

RE: WATER RIGHT NO. 71-07161

Dear Water Right Holder(s):

Enclosed herewith is a copy of the Water Right License issued on the above referenced permit. If you have any questions, please contact me within 10 days of receipt of this license.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Jim Johnson', followed by a horizontal line.

JIM JOHNSON, Manager
Water Right Permits Section

JJ:dc

Enclosure

RECEIVED

AUG 15 1994

WR0749NP
No. L71-07161

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 06/24/94
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	STATE OF IDAHO DEPT OF FISH & GAME PO BOX 25 BOISE ID 83707 (208) 334-3700	06/09/1992	FISH PROPAGATION	05-01 09-30	0.35 CFS	
TOTAL DIVERSION:					0.35 CFS	

Water Source: SALMON RIVER

Tributary to: SNAKE RIVER

Stage: LICENSE

Point(s) of Diversion Capacity: 0.35 CFS

Point(s) of Diversion: T07N R14E S26 SWSW

CUSTER County

Place of use Legal Description for: FISH PROPAGATION

				NE				NW				SW				SE							
T	R	S	:	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	:			
07N	14E	26	:																	:			
												F											

Pou County: CUSTER

Other Water Rights Listing Overlapping Place(s) of use:
71-02091

Conditions of Approval:

- 027 - Use of water under this right shall be non-consumptive.
- 004 - The issuance of this right in no way grants any right-of-way
- or easement across the land of another.

Remarks: Fish propagation use is for fish protection through the
installation of a deflecting screen at a diversion canal
entrance and a bypass pipe to flush the fish back to the Salmon
River.
~~This right is subordinate to all existing rights at the point
of diversion.~~

Removed

Dates: App. Received: 06/09/1992 Priority Date: 06/09/1992
Proof Due Date: 11/01/1993 Proof Made Date: 01/13/1993
Exam Made Date: 08/03/1993 Exam Sent to S.O.: 06/16/1994
Licensed Date:

Misc: Water District Number: Field Exam Fee: R (Received)

Comments: Date: 09/24/1992 User-ID: MILLER Subject: SCREEN NUMBER
The screen number for this permit is S-47.

Date: 09/24/1992 User-ID: MILLER Subject: MORATORIUM EXEMPTION

WR0749NP
No. L71-07161

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 06/24/94
PAGE: 2

=====

Comments: Date: 09/24/1992 User-ID: MILLER Subject: MORATORIUM EXEMPTION
This permit falls within the acceptable parameters of the
Salmon-Clearwater Moratorium.

Date: 01/14/1993 User-ID: VAULT Subject: Proof of Beneficial Use Rcvd
Proof of Beneficial Use Rcvd

Audit: 06/24/94 BCHAPMAN

LICENSE REVIEW CHECKLIST

PERMIT NO. 71-7161

DATE 6-24-94



NAME	Yes ☐ No ☒	Or Address Change?
PRIORITY DATE	☐ ☒	Advance? ☐ Advanced to: ☐ Order to reinstate needed? ☐ Incorrect fee for rate recommended? ☐
SOURCE	☐ ☒	Changes or just clarification of originally intended source? ☐ Notice of Intent to Void necessary? ☐
POINT OF DIV	☐ ☒ ☐ ☒	Amendment needed? <u>NO GOU LOT</u> Overlaps? ☐
PLACE OF USE	☐ ☒ ☐ ☒	Amendment needed? <u>NO GOU LOT</u> Overlaps? ☐
DIV RATE	☐ ☒	Measurement Q = <u>.35</u> Theoretical Q = ☐
Capacity: <u>.35</u> Combined rates exceed capacity ☐ Permit/fee limits: <u>.80</u> Allowable: <u>.35</u>		
ANNUAL VOLUME	<u>-NA-</u>	Season of use: <u>5/1 to 9/30</u> Calculations: ☐
Flow limit: ☐ cfs x ☐ x 1.9835 = ☐ Combined volumes exceed capacity/allowable ☐		
USES	☐ ☒	Change in Nature of Use or additional uses? ☐ Amendment necessary? ☐
REMARKS	☒ ☒	Multiple p/d(s) in 1/4 1/4? ☐ Other <u>Subordination Remark</u>
CONDITIONS	☐ ☒ ☐ ☒ ☐ ☒ ☐ ☒ ☒ ☐	Measuring/Locking Devices ☐ Watermaster control - District ☐ Irrigation Overlap ☐ Water Quality ☐ Other <u>004, 027</u>

COMMENTS: _____

RECOMMENDED

CFS

VOLUME

LICENSE ☒

FISH PROP

.35

1ST AMENDMENT LETTER ☐

FINAL AMENDMENT LETTER ☐



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JUN 17 1994

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 71-07161

1. Owner: State of Idaho Dept. of Fish & Game Phone No. 334-3700

Current Address: 600 S. Walnut, P.O. Box 25 Boise 83707

2. Accompanied by: Robert Downing-Sweeney EXAM DATE: 8-3-93
Met Schutte IDWR

Address: _____ Phone No. 774-3613

Relationship to Permit Holder: _____

3. Source: Salmon River tributary to Snake River

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE

2. Other water rights with the same point of diversion: A71-00062 - (Salmon Falls Sheep Co.)
A71-00060 - Split Right

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			SW	SW	26	07W	14E	Custer	USGS Quad, Inspection

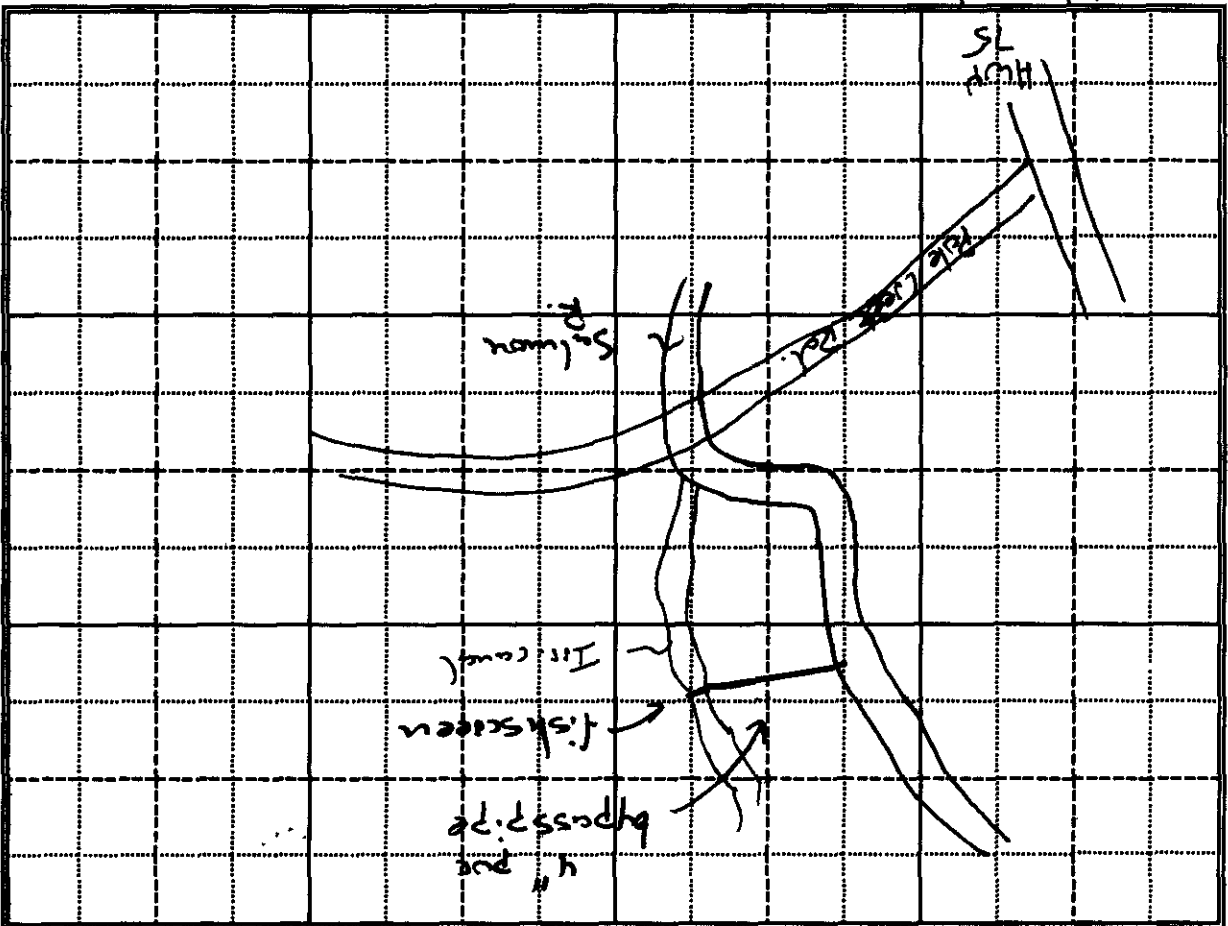
2. Place(s) of Use:

Indicate Method of Determination Inspection, USGS Quad

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07W	14E	26											H						H

MAINTAINED
AUG 1 1994

3. Delivery System Diagram: Indicate all major components and distances between components. Indicate well size/ditch size/pipe l.d. as applicable.



Scale: 1" = _____
 ✓ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required)
 ✓ Aerial Photo Attached (required for irrigation of 10+ acres)
 ✓ Photo of Diversion and System Attached

Well or Diversion No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
N/A					

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Automatic Level	(3E)	Sobit Shu	153294	10347		
Tripod & Survey Rod						

2. Measurements: Height of H₂O above middle of inlet = 0.51' *Subsequent points*

Water Surface of fish screen inlet = 6.90' *Height = 1.38'*

Top of pipe of outlet = 8.28'

ADJ 1 5 1984

RECEIVED

E. NARRATIVE/REMARKS/COMMENTS

A 4" pvc pipe with a re-entrant inlet runs 65.8' west into the Salmon River. The outlet was completely full but discharging open into the river.

The fish screen drum was powered electrically.

The water use is ^{for} non-consumptive use only.

This right is subordinate to all other water rights located at this point of diversion.

The system is limited to the system capacity found at the time of the exam, 0.35 cfs.

An amendment is needed to change the P/D to match the P/D for the adjudication claim (i.e. canal right).

Water returns to Salmon River in the SWSW, S26, 7N, 14E

Have conditions of permit approval been met? ☒ yes ☐ no

PERMIT

AUG 15 1994

F. FLOW CALCULATIONS

Measured Method:

☒ Additional Computation Sheets Attached

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: *N/A*

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

Water Use is for Non-Consumptive Use Only

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<i>Fish Propagation</i>	<i>3/15</i>	<i>11/15</i>	<i>0.35 cfs</i>	<i>—</i>
	<i>5-1</i>	<i>9-30</i>		
Totals:			<i>0.35 cfs</i>	<i>—</i>

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name *Brett Bailey* Date *8-11-93*

Reviewer _____ Date _____



DATE: August 10, 1993
FROM: Brett Barry
TO: FILES 71-7146 through 71-7162
SUBJECT: Fish Screens - Measurement

In the Salmon River drainage basin, near Stanley, the IDFG 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 IDFG filed adjudication claims on these fish screens but then withdrew their claims. These permits are taking the place of the withdrawn claims.

On August 3 and August 4, Mel Schulte and I conducted the field examinations for the above water permits. Each fish screen, or permit, had a unique structure and bypass pipe. The water permit was for the diversion of water from the irrigation canal to the bypass pipe at the fish screen.

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 structure 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.

The program is very useful for calculating the discharge on longer pipes. But, when the bypass pipes are very short, the minor losses control the head loss and cannot be estimated accurately enough for predictable results.

Therefore, on very short bypass pipes and where the discharge at the outlet of the bypass pipe is not full, a measurement was obtained by treating the system as an orifice with a certain amount of head.

5 1994

IDAHO DEPARTMENT OF WATER RESOURCES
WORKSHEET TO CALCULATE FISH SCREEN BYPASS

=====

PERMIT NUMBER:	71-7161	Lotus program: FISHSCRE.WK3
LOCATION:	Salmon River	Created by: Allen Merritt
BY:	BRB	Date last revised:
DATE:	8-10-93	8-10-93 BY ADM

PVC KIND OF PIPE
4.1 DIAMETER IN INCHES
1.38 HEAD IN FEET (DIFF BETWEEN HEAD & TAILWATER)
65.8 LENGTH OF PIPE IN FEET
0.009 MANNINGS ROUGHNESS COEF
2 MINOR LOSSES K VALUE
(INLET) RE-ENTRANT = 1 FLUSH = 0.10-0.50
(OUTLET) OPEN = 1 SUBMER = 1
(TRANSITION) 0.0-1.0

0.341667 dia in feet
0.170833 pipe radius in feet
0.085417 hydraulic radius in feet
0.020973 hydraulic slope
0.091685 cross section area of pipe

0.348734 CFS (DIRECTLY CALCULATED FROM MANNINGS)

Balloon method 65.8' in 18.29s
 $\bar{V} = 3.60 \text{ ft/sec}$ or 0.33 cfs
System Capacity 0.35 cfs

MAINTENANCE
AUG 15 1994

STANDARDS
FOR WASHINGTON 25, D. C.
AVAILABLE ON REQUEST

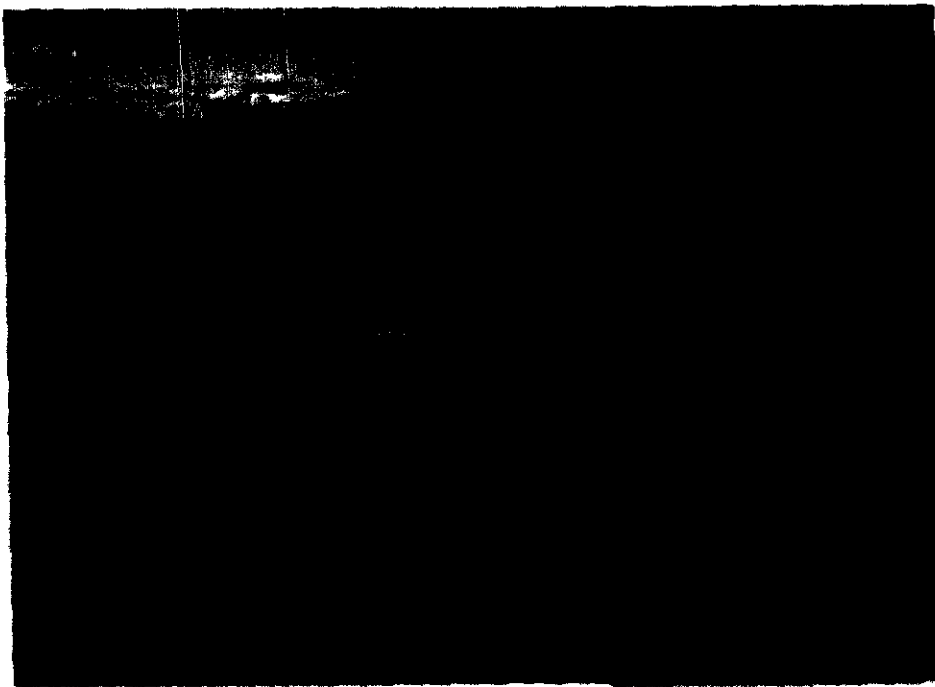
electric division down P-71-716a

These photos
were taken on
August 3, 1993.

This photo is
looking west
towards the
Salmon R.



re-entrance
tube entrance is located here

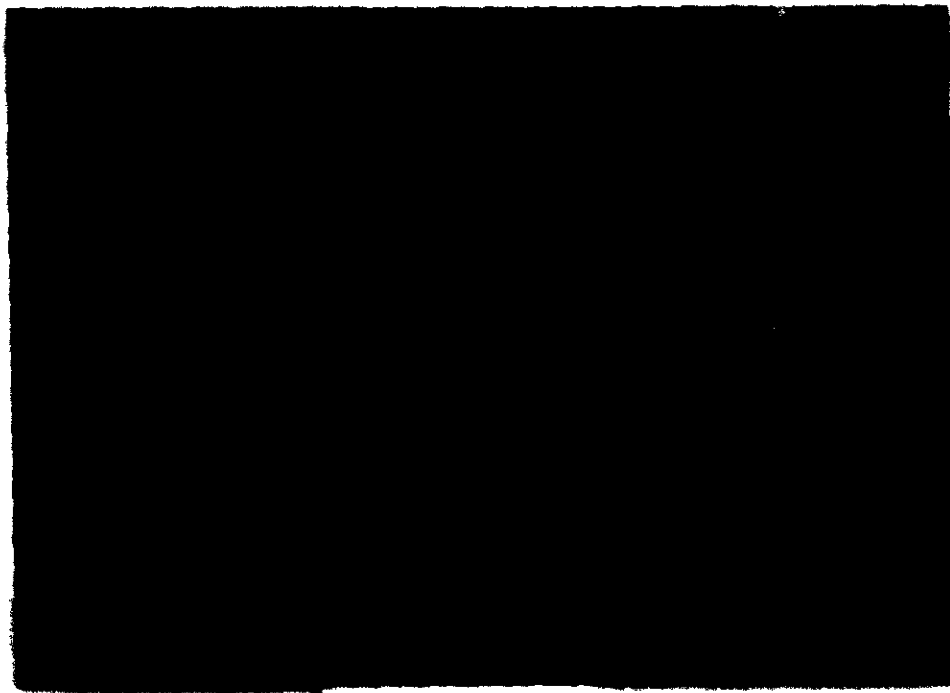


This photo is
looking
northeast.

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P71-7162 This photo was taken
on August 3, 1993.



✓ The outlet pipe is open discharge
into the Salmon R. The outlet was
somewhat oval form being crushed.

MS. 179

AUG 15 1994

January 15, 1993

STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83707

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 71-07161

Dear Permit Holder:

The department acknowledges receipt of the proof of beneficial use form submitted for the above referenced permit. The next step in the process of developing a water right is for the department to conduct a field examination to determine and confirm the use being made of the water.

If you have questions concerning this matter, please feel free to contact the SOUTHERN Regional Office in Twin Falls at (208)736-3033.

Sincerely,

Karen L. Gustafson
Secretary/Records Manager

c: IDWR - Region

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FEB 05 1993



State of Idaho
DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

October 2, 1992

STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83707

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 71-07161

Dear Permit Holder:

Enclosed is a copy of your approved application for permit. We direct your attention to the conditions of approval on the final page.

Enclosed is a form entitled "Instructions for Proof of Beneficial Use". Please read the instructions carefully since you must take further action to develop this permit. Also enclosed is a form entitled "Proof of Beneficial Use". If your project is already completed you should complete and submit this form immediately.

Sincerely,

BRENDA L. MILLER
Water Resource Agent

BLM:cz

Enclosures

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OCT 27 1992



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

CECIL D. ANDRUS
Governor

08-Jul-1992

R. KEITH HIGGINSON
Director

ATTN CINDY ROBERTSON
FISHERY BIOLOGIST
IDAHO FISH & GAME
PO BOX 25
BOISE ID 83707-0025

Re: Applications for Permit Nos. 71-07146 thru 71-07166,
72-07482 thru 72-07499

Dear Ms. Robertson:

The Department of Water Resources acknowledges receipt of 39 water right applications for permit. Each application has been assigned an identification number. Please refer to this number in all further correspondence. A computer produced proof report for each application is enclosed for your information and reference.

This office will be advertising the applications with points of diversion located within Custer County in the Challis Messenger on 8/6 & 8/13/92. Application No. 71-07160 will be advertised in the Wood River Journal on 8/5 & 8/12/92 because it has a point of diversion located within Blaine County. A period of ten days following the second publication will be allowed for the submittal of protests.

If an application is protested you will be sent a copy of the protest. The protest must be resolved before the application is approved or denied. If the protest is not resolved voluntarily, this Department will conduct a conference and/or hearing on the matter.

If the application is not protested, it will be forwarded to our State Office in about five weeks. State office personnel will conduct a complete review prior to final processing of the application and will notify you of the outcome of this review. When a permit is issued, you will be sent a copy. A

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Idaho Fish & Game
Page 2
08-Jul-1992

typical processing time for an unprotested application is about eight weeks.

Please feel free to contact this office if you have any questions regarding this procedure.

Very truly yours,

Mel Schulte
Water Right Agent

MS:MB

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STATEMENT

OCT 27 1992



Department of Water Resources

Custer Publishing, Inc.

Phone 879-4445

P.O. Box 405

Challis, Idaho 83226

Dept. of Water
232 Shoshone St. East
Twin Falls, Id 83301

Job No.	Date	DESCRIPTION	Amount
544 lines	8-20-92	Notice of Application for Water Right 8/6/13/92 # 71-07146, 71-07147, 71-07148, 71-07149, 71-07150, 71-07151, 71-07152, 71-07153, 71-07154, 71-07155, 71-07156, 71-07157, 71-07158, 71-07159, 71-07161, 71-07162, 71-07163, 71-07164, 71-07317, 71-07318, 72-07482, 72-07483, 72-07484, 72-07485, 72-07486, 72-07487, 72-07488, 72-07489, 72-07490, 72-07491, 72-07492, 72-07493, 72-07494, 72-07495, 72-07496, 72-07497, 72-07498, 72-07499	\$ 1280 OK MB 8-24-92

A finance charge of 1 1/2 percent (annual percentage rate of 18%) with a minimum charge of 50¢ will be charged to all accounts not paid within 30 days of billing.

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NOTICE OF APPLICATION FOR WATER RIGHT

The Following application(s) have been filed to appropriate the public waters of the State of Idaho:

71-07161

STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE, ID 83707

Source: SALMON RIVER

Tributary: SNAKE RIVER

Diversion Pt: SWSW Sec 26 T 07N R 14E in CUSTER County.

Use: FISH PROPAGATION (.800 CFS)
Total Diversion: (.800 CFS)

Date Filed: 6/ 9/1992

In: CUSTER County
T07N R14E S26 SWSW

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Southern Region, 222 Shoshone Street East, Twin Falls, ID 83301 on or before AUGUST 24, 1992.

R. KEITH HIGGINSON, Director

Published: 8/ 6/1992 & 8/13/1992

7 1992

Legal OK in
8/6/92 issue of CM.
MB
8-11-92

S T A T E O F I D A H O
DEPARTMENT OF WATER RESOURCES
Southern Region
222 Shoshone Street East
Twin Falls, ID 83301
(208)736-3033

JULY 6, 1992

CUSTER PUBLISHING COMPANY
PO BOX 405
CHALLIS, ID 83226

Gentlemen:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before AUGUST 24, 1992.

Yours truly,

Mary Baldwin
Secretary/Office Coordinator

Enclosure

OCT 27 1992



IDAHO FISH & GAME

600 South Walnut
P.O. Box 25
Boise, ID 83707-0025

June 3, 1992

Mr. Jim Johnson
Idaho Department of Water Resources
STATEHOUSE MAIL
Boise, ID 83720

Re: Water Right Application for Fish Screens

Dear Mr. Johnson:

I have enclosed 33 applications for permit and a check for \$1,485.00 for fish screens in the Salmon River Basin. These applications are for nonconsumptive uses of water. The screens prevent fish from entering irrigation ditches and becoming stranded. The fish are shunted into bypass pipes near the screens and are returned back to the stream below the irrigation ditch.

I have had several conversations with Water Resources personnel regarding the need to apply for water right permits for these fish screens and have received conflicting responses. When I filed our Department's claims for the Snake River Basin Adjudication, I was told that we should file claims for existing fish screens and applications for permit for screens that were built after 1971. Conversely, since filing our adjudication claims, I have been told that because the use of the water is nonconsumptive and no additional water is diverted down the ditches to run the screens, we do not need a water right to use them.

Could you clarify for me whether or not we need to file applications for the fish screens? If we do not need to file the enclosed applications, please return them to me with the check. If we are required to file applications, then you have them and the payment for processing them. If I can provide you with any further information regarding these applications, please call me at 334-2597. Thank you in advance for your help in this matter.

Sincerely,

Cindy Robertson

Cindy Robertson
Fishery Biologist

CR:tlv

Enclosure

cc: Jim Blake, Salmon
Lee VanDeBogart, Engineering

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

Equal Opportunity Employer



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APPLICATIONS FOR WATER RIGHT PERMITS FOR FISH SCREENS
IN THE SALMON RIVER BASIN

<u>Screen Number</u>	<u>Cost</u>
EF-14 ✓	\$45.00
EF-20	45.00
EF-22	45.00
EF-24	45.00
EF-HC-3	45.00
S-1	45.00
S-8	45.00
S-20	45.00
S-21	45.00
S-21A	45.00
S-23	45.00
S-24	45.00
S-28	45.00
S-32	45.00
S-33	45.00
S-38	45.00
S-39	45.00
S-39A	45.00
S-40	45.00
S-41	45.00
S-42	45.00
S-43	45.00
S-44	45.00
S-45	45.00
S-47	45.00
S-PC-1	45.00
S-VC-1	45.00
S-VC-2	45.00
S-VC-3	45.00
S-VC-4	45.00
S-VC-6	45.00
S-WSC-1	45.00
S-WCS-2	45.00

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