

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

T 23N

SECTION 25

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.

Stanley Patts
(Applicant)

DEC 29 1994

T
23
N
R16E

F O R E S T

SALMON

Cable

Gravel
Pit

POINT OF DIVERSION

PLACE OR USE

AIRSTRIP

VABM

Colsc

309

75-07615

MICROFILMED
AUG 20 1997

T
23
N
R16E

Colson Creek
Guard Station

23

24

W O R E T

SALMON

Crossing

USLM
NG 199

POINT OF DIVERSION

PLACE OF USE

75-07615

RECORDED
AUG 20 1997

173

26



INTAKE TO
POWER
ALTERNATOR

PHOTO #1



Discharge Pipe

PHOTO #2

MICROFILMED
AUG 20 1997

75-07615

POINT OF DIVERSION

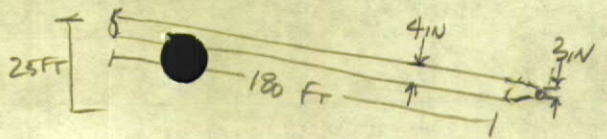
Inlet hole in drum
covered with screen
outlet - Two 1½" Lines
ONE 2" line



PHOTO #3

MICROFILMED
AUG 20 1997

75-7615



$$\frac{P_1}{\gamma} + \frac{V_1^2}{2g} + z_1 = \frac{P_2}{\gamma} + \frac{V_2^2}{2g} + z_2 + h_{L_{TOTAL}}$$

$$h_{L_{PIPE}} = \frac{f L V^2}{D \cdot 2g} = \frac{(.000001) \times 180}{\left(\frac{4}{12}\right)} (.562)^2 \frac{V_j^2}{2g} = .00017 \frac{V_j^2}{2g}$$

$$V_p = \frac{V_j A_j}{A_p} = \frac{9}{16} V_j = 0.562 V_j$$

For CONTRACTION

$$h_{L_{CON}} = K_c \frac{V_j^2}{2g} = .05 \frac{V_j^2}{2g}$$

$$25 \text{ ft} = \frac{(12 \text{ LB/IN}^2) \left(\frac{144 \text{ IN}^2}{\text{FT}^2} \right)}{62.4 \text{ LB/FT}^3} + \frac{V_j^2}{2g} + .00017 \frac{V_j^2}{2g} + .05 \frac{V_j^2}{2g}$$

$$\frac{25(62.4)}{12(144)} \text{ FT} = .903 = \frac{1.0502 V_j^2}{2g}$$

$$\frac{2(32.2 \text{ FT/s}^2)(.903 \text{ FT})}{1.0502} = V_j^2$$

$$V_j = 7.44 \text{ FT/s}$$

$$Q_j = V_j A_j = (7.44 \text{ FT/s}) \left(\frac{\pi \left(\frac{3}{12} \right)^2}{4} \right) = 0.365 \text{ CFS}$$

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DEC 29 1994

IF $z_1 = 12 \text{ FT (HEAD)}$ THEN $V_j = \sqrt{\frac{12(62.4)(64.4)}{12(144)(1.0502)}} = 5.15 \text{ FT/s}$

THEN $Q_j = (5.15) \left(\frac{\pi \left(\frac{3}{12} \right)^2}{4} \right) = 0.253 \text{ CFS}$

SALMON NATIONAL FOREST

P.O. Box 729, HWY 93 S., Salmon, ID 83457, (208) 756-2215

FACSIMILE TRANSMISSION SHEET

DATE:

8/05

PAGE

OF

3

TO:

Harold Jones

FROM:

Betty Rieffleberger

SUBJECT:

Appt for Patient # 75-07615 (first pt)

If you have had any problems in receiving this transmission, please call (208) 756-2215.
Our facsimile phone number is (208) 756-5151. Thank You!

MESSAGE:

Harold,

I talked to Sandy Carlson in our Regional Office.
She did not keep the receipt from Feb. 11, but
has the Contactor #. The information on
page 2 of the letter she obtained by
calling Twp Ex and having them look up
the contact number in their computer.
Hope this helps.

Betty Rieffleberger

13-6200-5 (8/93)

RECEIVED

AUG 29 1994

**NOTICE OF APPLICATION
FOR WATER RIGHT**

The Following application (s)
have been filed to appropriate the
public waters of the State of Idaho:
No.75-07614

DUNPHY, MICHAEL
PO BOX 412

SALMON, ID 83467

Source: TOWER CREEK Tributary:
SALMON RIVER

Diversion Pt: SENW Sec 4 T 23N R
22E in LEMHI County.

Use: RECREATION
RECREATION STORAGE
(.200 CFS)

Total Diversion: (.200 CFS)

Date Filed: 6/20/1994

In: LEMHI County

T23N R22E S04 SENW
No.75-07615

POTTS, STANLEY

HC 64 BOX 61

SHOUP, ID 83469

Source: COLSON CREEK Tribu-
tary: SALMON RIVER

Diversion Pt: NWSESE Sec 25 T
23N R 16E in LEMHI County.

Use: POWER (.600CFS)

Total Diversion: (.600 CFS)

Date Filed: 6/28/1994

In: LEMHI County

T23N R16E S25 SESE

The permit(s) will be subject to all
prior water rights. Protests must be
filed with the Director, Dept. of Water
Resources, Eastern Region, 900 N
Skyline, Idaho Falls, Idaho 83402 on
or before AUGUST 8, 1994.

R, KEITH HIGGINSON, Director
Published: 7/21/1994 & 7/28/1994

7-21-2tc

Affidavit of Publication

STATE OF IDAHO

County of Lemhi

ss.

RICKY G. HODGES

, being first duly sworn, deposes
and says he is one of the printers (publishers) of the RECORDER-HERALD, a newspaper published
weekly at Salmon, Lemhi County, Idaho, and of general circulation therein.

That the DEPT OF WATER RESOURCES WATER RIGHT

....., a true
printed copy of which is attached to the margin hereof, has been and was correctly printed and pub-
lished in the regular and entire issue of every number of said newspaper and not in any supplement
thereof or thereto for TWO (2) consecutive issues, commencing with the issue
dated 7/21 1994 and ending with the issue dated 7/28
1994....

STATE OF IDAHO

COUNTY OF LEMHI

ss.

On this 28 day of JULY in the year of 1994...
before me, A Notary Public, personally appeared RICKY G. HODGES
known or identified to me to be the person whose name subscribed to the within instrument, and being
by me first duly sworn, declared that the statements therein are true, and acknowledged to me that he
executed the same.

Rachel E. Snook

Notary Public for Idaho

Residing At Salmon, Idaho

My Commission expires: 10-18-97

Publication Fee \$ 46.44

#630

DEC 29 1994

ARLA BOOTS
LEMHI COUNTY ASSESSOR
LEMHI COUNTY COURTHOUSE
206 COURTHOUSE DRIVE
SALMON, ID 83467

ADDRESS CORRECTION REQUESTED

CATEGORY DESCRIPTION

15 RUR SUB RES
37 BLDG RES SUB
LESS HOMEOWNER

EXEMPTION
1.027

TAX CODE

LOTS / ACRES

1.027 AC

IMPORTANT NOTICE - THIS IS NOT A BILL

PARCEL NO.

RP 00060000001A A

4-00

MARKET VALUE

17,153
68,318
34,159
51,312*

1994
TAXPAYERS
VALUATION

ASSESSMENT NOTICE

Taxes are based on the valuation
listed on this statement.
IF THERE ARE ANY QUESTIONS
REGARDING THIS STATEMENT
NOTIFY THE ASSESSOR'S OFFICE BEFORE

JUNE 17, 1994

See the reverse side for further references
KEEP THIS COPY FOR YOUR RECORDS

PROPERTY ADDRESS
PREVIOUS NUMBER

AMARLU SUPD. 3
LOT 1 LESS T-3335

RP000600000010A

Mail To:

POTTS, STANLEY
& POTTS, JOY
HC 64 BOX 61
SHOUP, ID 83469

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DEC 29 1994

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 75-07615

Priority: June 28, 1994

Maximum Diversion Rate: 0.13 CFS
Maximum Diversion Volume: 94.0 AF

This is to certify, that STANLEY POTTS

HC 64 BOX 61

SHOUP ID 83469

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated June 28, 1994; and has submitted Proof of Beneficial Use on April 12, 1995. An examination indicates that the works have a diversion capacity of 0.170 cfs of water from:

COLSON CREEK

tributary to SALMON 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>
POWER	01/01 to 12/31	0.13 CFS	94.0 AF

LOCATION OF POINT(S) OF DIVERSION:

SESE, Sec. 25, Township 23N, Range 16E
LEMHI County

PLACE OF USE: POWER

TWN RGE SEC

23N 16E 25

SESE

CONDITIONS OF APPROVAL AND REMARKS

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. This right does not constitute Idaho Public Utilities Commission or Federal Energy Regulatory Commission approval that may be required.
6. Use of water under this right shall be non-consumptive.
7. Water used under this right if discharged into a natural channel shall meet Idaho Water Quality Standards.

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AUG 20 1997

State of Idaho
Department of Water Resources**WATER RIGHT LICENSE**

WATER RIGHT NO. 75-07615

CONDITIONS OF APPROVAL AND REMARKS

8. The rights for the use of water confirmed in this license shall be junior and subordinate to all rights for the use of water other than hydropower, within the State of Idaho that are initiated later in time than the priority of this right and shall not give rise to any right or claim against any future rights for the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this right.
9. An intake screen of 1/8 inch or smaller mesh shall be maintained at the point of diversion to prevent any negative impact on juvenile fish.
10. The diversion and use of water for hydropower purposes under this license is subject to review by the Director on or after May 1, 2005. Upon appropriate findings relative to the interest of the public, the Director may cancel all or any part of the use authorized herein and may revise, delete or add conditions under which the right may be exercised.

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 29th day of MAY 1997.

Acting for


KARL J. DREHER, Director

MICROFILMED

AUG 20 1997



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APR 12 1995

FOR OFFICE USE ONLY

Amt. of Fee \$: 50.00

Receipt No. E02088

Receipt By: HWT

Date Received: 4-12-95

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED

APR 17 1995

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 be accompanied by a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

1. Permit No. 75-07615 Telephone No. (208) 394-2135

2. Name(s) of Permit Holder(s): Stanley and/or Jay E. Potts

3. Mailing Address: HC-64 Box 61 Shoup ID 83469

4. Source of Water: Colson Creek If **GROUNDWATER** (well), Date Drilled: mo. / yr.

a. Well Driller: N/A Drilling Permit Number: - -

b. **OPTIONAL:**

Pump Horsepower: Pressure (psi): Dynamic pumping level (ft):

5. Use(s) (as authorized by the water right permit):

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

Irrigation (No. of acres): Other: Power

6. Total rate of diversion and/or volume for which proof is submitted: 0.130 cfs OR acre feet

7. Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)

(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)

Measuring Device: Is a measuring device required? Yes or No
Has the measuring device been installed? Yes or No

Flow Measurement Port: Is a flow measurement port required? Yes X or No
Has the measurement port been installed? Yes X or No

8. Fee Enclosed: \$ \$50.00 (See Fee Schedule on back of the instructions for filing proof of beneficial use)

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

Name: same as above Telephone Number:

Address:

10. The information given on this form 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.

Signature of permit holder: Stanley Potts
(include your title, if on behalf of company or organization)

Date: 4/11/95

APR 25 1995

State of Idaho
Department of Water Resources
Permit To Appropriate Water

NO. 75-07615

Proposed Priority: June 28, 1994

Maximum Diversion Rate:

0.13 CFS

This is to certify, that **STANLEY POTTS**
HC 64 BOX 61
SHOUP ID 83469

has applied for a permit to appropriate water from:

COLSON CREEK

tributary of **SALMON RIVER**

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

BENEFICIAL USE

PERIOD OF USE

RATE OF DIVERSION

POWER

01/01 to 12/31

0.13 CFS

LOCATION OF POINT(S) OF DIVERSION:

NWSESE , Sec. 25, Township 23N, Range 16E
LEMHI County

PLACE OF USE: POWER

TWN RGE SEC

23N 16E 25

SESE

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before **December 1, 1996**.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. A separate stream alteration permit from the IDWR is required for any activity in the stream channel other than construction and/or maintenance of the diversion structure. If the proposed construction or operation involves construction of an outfall or any other work in the stream channel other than a water diversion, the right holder contact the Department and obtain a Stream Channel Alteration permit prior to the start of construction.
5. This right is subject to the provisions of Sections 42-205 through 42-210, Idaho Code, restricting the sale, transfer, assignment, or mortgage of this right. Failure to comply with these provisions is cause for immediate cancellation of this right.
6. The water right acquired under this permit 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 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.

W. B. G. ME
DEC 28 1994

State of Idaho
Department of Water Resources**Permit To Appropriate Water**

NO. 75-07615

CONDITIONS/REMARKS:

7. This right does not constitute Idaho Public Utilities Commission or Federal Energy Regulatory Commission approval that may be required.
8. Use of water under this right shall be non-consumptive.
9. The right holder shall either install a measuring device or a flow measurement port or provide a certified measurement or computation of flow based upon system design to be prepared by a professional engineer.
10. Water used under this right if discharged into a natural channel or subsurface system shall meet Idaho Water Quality Standards.
11. The Director retains jurisdiction of this right in order to limit the use of water for hydropower generation purposes to a specific term of years as required by Section 42-203B(7), Idaho Code.
12. An intake screen of 1/8 inch or smaller mesh shall be installed at the point of diversion to prevent any negative impact on juvenile fish.

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

19th day of December, 1994.

R. Keith Higginson
for R. Keith Higginson, Director

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DEC 29 1994

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AUG 11 1994

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Ident. No. 75-2615

Department of Water Resources To appropriate the public waters of the State of Idaho

1. Name of applicant STANLEY POTTS Phone 208-394-2135
Post office address HC 64 - Box 61 SHoup, ID, 83469
2. Source of water supply COLSON CREEK which is a tributary of SALMON RIVER
3. Location of point of diversion is NW ¼ of SE ¼ of SE ¼, Govt. Lot _____
Sec. 25 Township 23N Range 16E B.M. LEMBI County; additional
points of diversion if any: ALSO KNOWN AS LOT 1 AMARLO SUB. #3
* Change as per letter from applicant 7-26-1994 HWT
4. Water will be used for the following purposes:
* 0.13 cfs
Amount 0.60 for POWER GENERATION purposes from 1-1 to 12-31 (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) 0.60 ^{0.13} and/or (b) _____
cubic feet per second acre feet per annum
6. Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. PIPE WITH SCREENED BOX
DIVERTING FROM CREEK. APPROX. 180' TO 4" PELTON
WHEEL HYDRO-CHARGER ON 24 VOLT ALTERNATOR. WATER
DISCHARGE RETURNS INTO SAME CREEK CHANNEL.
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 _____
_____ to _____ inclusive.
- c. Proposed well diameter is _____ inches; proposed depth of well _____ feet.
d. Is ground water with a temperature of greater than 85°F being sought? _____
e. If well is already drilled, when? _____; Drilling firm _____;
Well was drilled for (well owner) _____
7. Time required for the completion of the works and application of the water to be proposed beneficial use is
2 years (minimum 1 year).

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DEC 01 1994

Department of Water Resources

DEC 29 1994

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

- a. Hydropower; show total feet of head and proposed capacity in KW. APPX. 12' HD. .096 KW
- b. Stockwatering; list number and kind of livestock. _____
- c. Municipal; show name of municipality. _____
- d. Domestic; show number of households. _____
- e. Other; describe fully. _____

9. 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 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	
23N	16E	25																P	

Total number of acres to be irrigated _____

10. Describe any other water rights used for the same purposes as described above. A 175-10044 used to irrigate orchard & Garden which not going thru Hydrographer?
11. a. Who owns the property at the point of diversion? STANLEY POTTS
- b. Who owns the land to be irrigated or place of use? STANLEY POTTS
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. _____

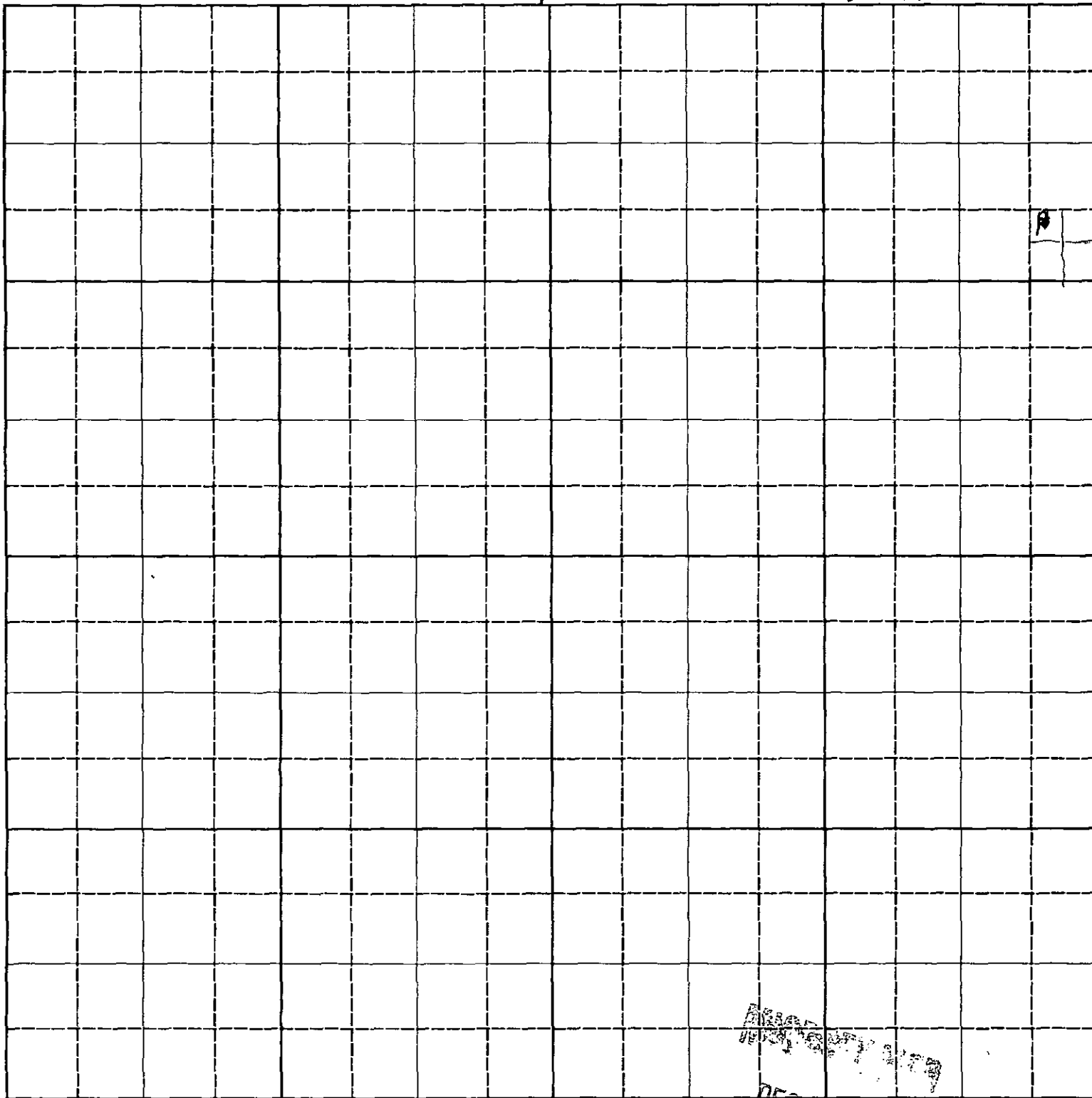
12. Remarks: _____

DEC 29 1994

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

T 23N

SECTION 25



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.

Stanley Patts
(Applicant)

Received by WM Date 6/28/94 Time 9:50 CE# 1497 \$ 145.00
Fee \$ 45.00 Received by HWS # E09981 Date 6-30-94
Publication prepared by RB Date 7-21-28-94 Published in Recorder-Herald
Publication approved RB Date 8-8-94

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:

RECEIVED

DEC 29 1994



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

May 30, 1997

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

STANLEY POTTS
HC 64 BOX 61
SHOUP ID 83469

RE: WATER RIGHT NO. 75-07615

Dear Water Right Holder(s):

The Department of Water Resources (the Department) has issued the enclosed license confirming that a water right has been established in accordance with the permit referenced above. The license is a preliminary order issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action of the Department unless a party petitions for reconsideration or files an exception and/or brief as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the Department within fourteen (14) days of the service date of this order. The Department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See section 67-5243(3), Idaho Code.

EXCEPTIONS AND BRIEFS

Within twenty-one (21) days after (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding. Otherwise, this preliminary order will become a final order of the Department.

If any party appeals or takes exceptions to this preliminary order, opposing parties shall have twenty-one (21) days to respond to any party's appeal. Written briefs in support of or taking exceptions to the preliminary order shall be filed with the Department. The Department retains the right to review the preliminary order on its own motion.

MICROFILMED

AUG 20 1997

ORAL ARGUMENT

If the Department grants a petition to review the preliminary order, the Department shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Department will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Department orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Department in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with Rules of Procedure 302 and 303.

FINAL ORDER

The Department will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Department may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The Department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its issuance if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) the petition for reconsideration is disposed of; or
- (b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

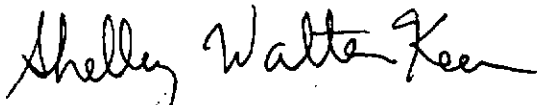
APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 87-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

Sincerely,

A handwritten signature in cursive script that reads "Shelley W. Keen". The signature is written in dark ink and is positioned above the typed name.

Shelley W. Keen
Water Rights Supervisor

SK:ph

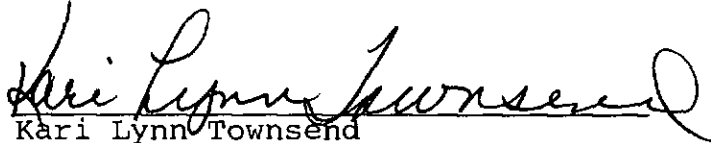
Enclosure

CERTIFICATE OF MAILING

I hereby certify that on the 30th day of May, 1997, I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER (Approved License) to the person(s) listed below:

Water Right No. 75-07615

STANLEY POTTS
HC 64 BOX 61
SHOUP ID 83469


Kari Lynn Townsend
Secretary

MICROFILMED

AUG 20 1997

MEMORANDUM

TO: File 75-07615

FROM: Sharla

DATE: May 29, 1997

RE: Recommendation Adjustment(s)

The final license recommendations for Right 75-07615 are based on the following:

H. RECOMMENDATIONS

Power	1/1 - 12/31	0.13 cfs	94.0 afa
-------	-------------	----------	----------

Volume is required to be listed on the license and is based on continuous flow, per a telephone conversation on this date between Cindy Bird of this office and the right holder.

Power use is for an individual power facility which does not require licensing from FERC. Since power is solely used by the right holder and is not sold, there is no power purchase contract. Therefore, the term of years to be listed on the license is not pre-determined by the above. As set forth in Section 42-203B(7), the term of years (once determined) is calculated as commencing at the time of the proof of beneficial use filing. Previously issued licenses falling in this category have had a term set for 10 years. In this case, the term will expire May 1, 2005.

Examiner: Bob Foster
Exam Date: March 21, 1995

MICROFILMED

AUG 20 1997

LICENSE REVIEW CHECKLIST

PERMIT NO. 75-07615

DATE 5/29/97

REVIEWER: SHARLA

	Change	OK
NAME	—	<u> </u>

Address Change N

SOURCE _____ ✓

Is change/clarification of originally intended source? ____

POINT OF DIV ✓

If not, prepare Notice of Intent to Void _____
Amendment required NO

PLACE OF USE ✓

Amendment required NO

Does map agree with written description? ☒ yes ☐ no

OVERLAPS ___ P/D ___ P/U

RATE OF DIV

Permitted Rate 13 cfs

Fee limit 20 cfs \$50-

Measured .17 cfs

Theoretical cfs

Recommended Total Div Rate .13 cfs

ANNUAL VOLUME/
NATURE OF USES _____

Use

Powers

Volume Calculation

af

af

af

af

SUBTOTAL _____ af

Flow rate .13 cfs X 365 days X 1.983 = 94.0 af

Total volume recommended _____ af

(SUBTOTAL or Flow Rate, whichever is less)

REMARKS

W42 5/1/2005

CONDITIONS Watermaster Control WD#

__ GW Measurement/Measuring Device

Overlap

— Use-specific conditions

Advancement of Priority Date Required ☐ yes ☒ no

SRBA Claim Filed NA

1st Amend Letter

Adjustment Memo volume
term limit

2nd Amend Letter

RECEIVED

JAN 02 1997

Form 219
6/86

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 75-07615

1. Owner: Stanley or Joy E. Potts
Current Address: HC 64 Box 61 Shoup Id 83469

Phone No. (208) 394-2135

2. Accompanied by: Mr. Potts EXAM. DATE: 21 Mar 1995

Address: same Phone No. _____

Relationship to Permit Holder: _____

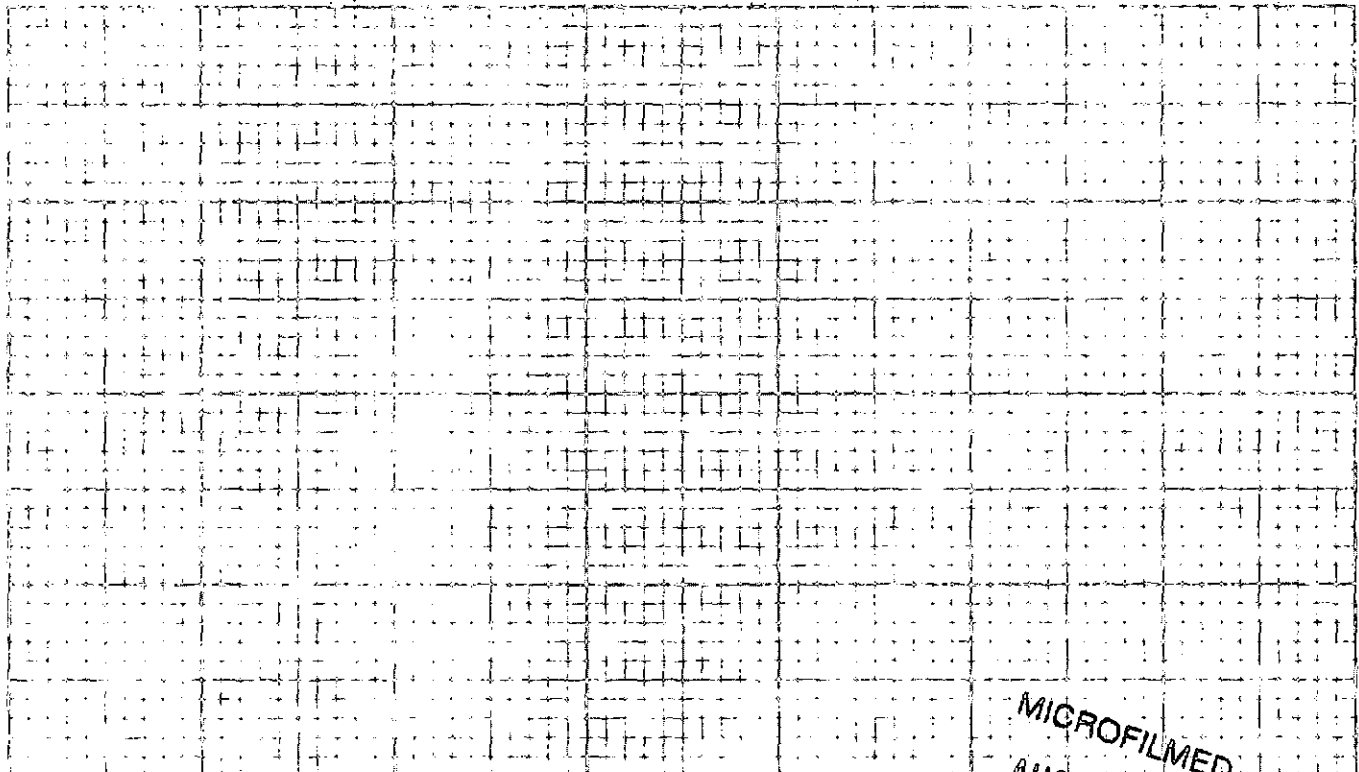
3. Source: Colson Creek tributary to Salmon River

B. OVERLAP REVIEW

1. Other water rights with same place of use: _____
_____ ☐ Copies Attached
2. Other water rights with same point of diversion: _____
_____ ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☒ Alternative diagram attached



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AUG 20 1997

Scale: 1" = _____

2. ☒ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required).
- ☒ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).
- ☐ Aerial Photo Attached
(required for irrigation of 10 acres or more).

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

SEE ATTACHED MEMO

☐ See Remarks on page 4 for continuation

4.

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

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			SE	SE	25	23 N	16 E	Lemhi	ON SITE US FOREST SVC MAP

6. Place(s) of Use:

Indicate Method of Determination US FOREST SVC MAP / ON SITE

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
23 N	16 E	25																P	

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AUG 20 1997

Do not use this space

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: (SEE ATTACHED MEMO)

$Q = 0.17 \text{ cfs.}$

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

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

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

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AUG 20 1997

H. REMARKS AND OVERLAP REVIEW ANALYSIS

Q LIMITED By PERMIT Q = 0.13 cfs

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Power	1/1	12/31	0.13 cfs	-
Totals:			0.13 cfs	

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 |

J. AUTHENTICATION

Field Examiner's Name Bob Foster

Signature _____

Certification Date _____

Field Report Preparation Date _____

CONSULTANT SEAL

- K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

MICROFILMED

AUG 20 1997

Proof Due 12-1-1996

MEMORANDUM

DATE: March 21, 1995

TO: H.W. Jones, Eastern

FROM: Bob Foster, Salmon *et*

RE: 75-07615, Stanley Potts

RECEIVED

MAR 31 1995

Department of Water Resources
Eastern District Office

On the above date I made an on-site visit to Stanley Potts' hydro-electric project located on Colson Creek to measure the discharge of water from the power generator. (see photo # 2)

The diversion works located in Colson Creek consists of a metal drum with a inlet hole covered with screen to prevent fish from entering. (see photo # 3)

The outlet of the drum consists of one two (2) inch line and two (2) one and one-quarter inch lines leading to the power converter. (see photo # 1)

The measurements were taken utilizing a five (5) gallon bucket and a stopwatch. I have listed the measurements below.

At the time of the visit the lines were on top of the ground. Mr Potts stated the lines would be buried within the next week to ten days. This may decrease the discharge by reducing the fall between the point of diversion and the discharge pipe.

Measurement #1 5.0 gal. 3.94 seconds

Measurement #2 5.0 gal. 3.89 seconds

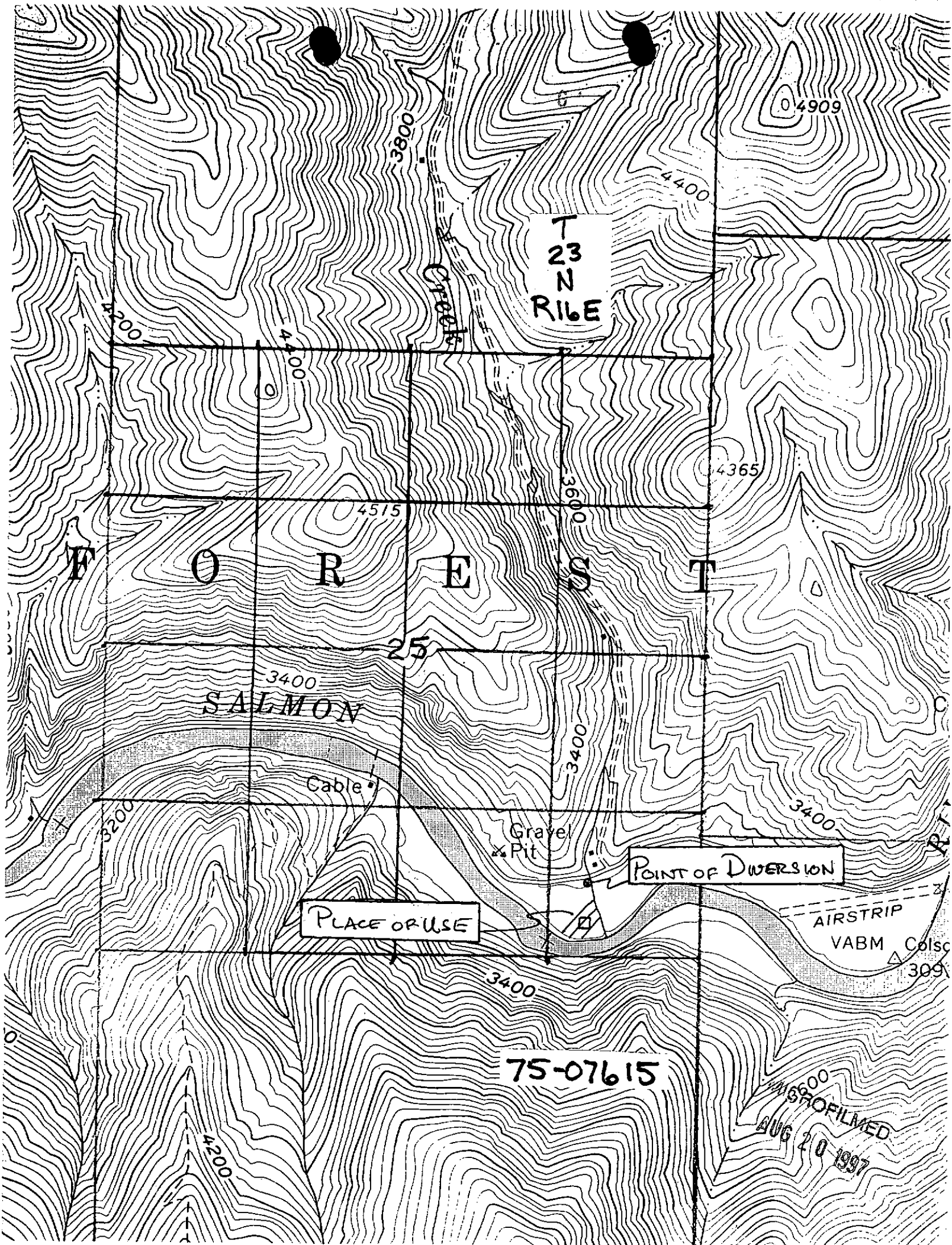
Measurement #3 5.0 gal. 3.96 seconds

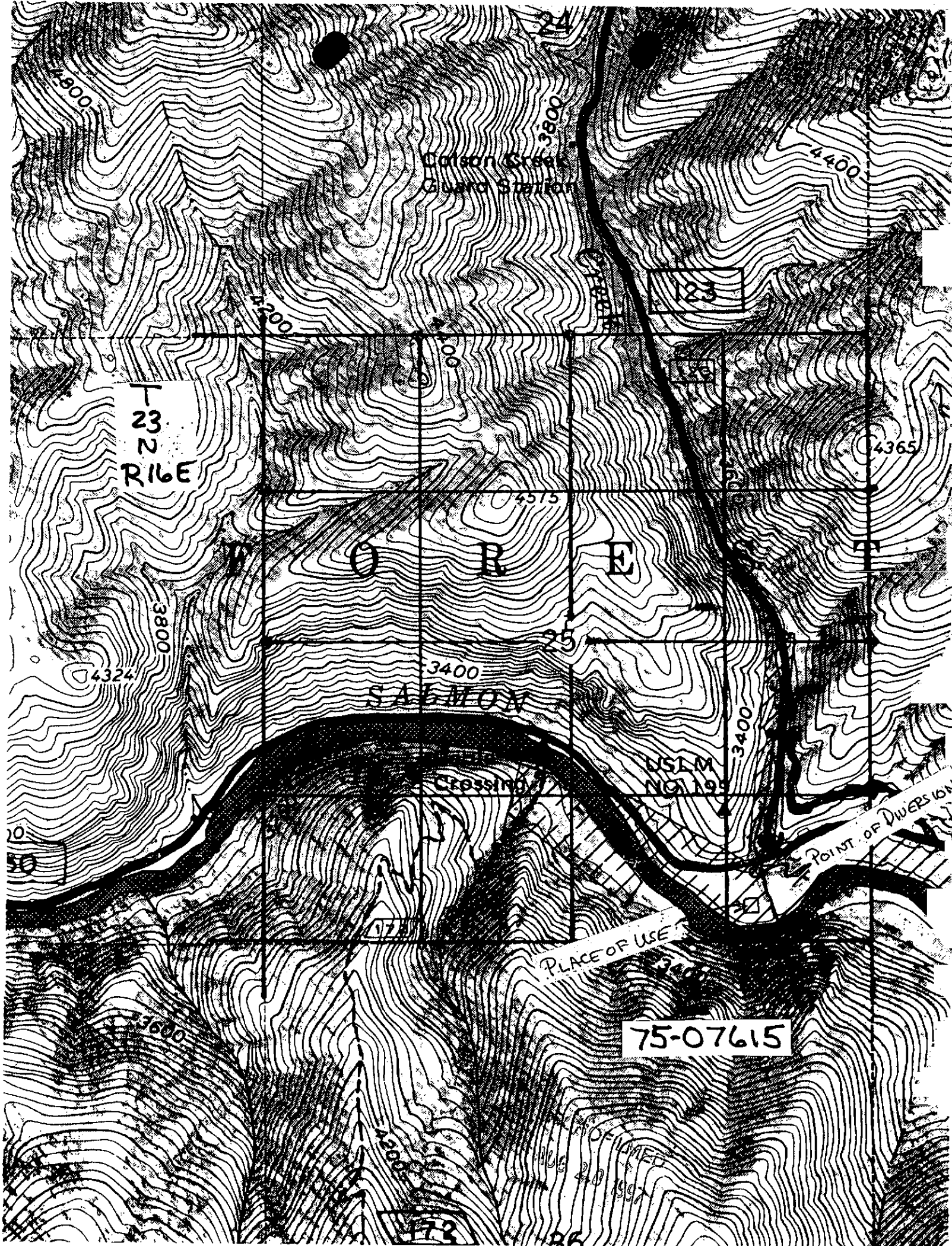
Average 5.0 gal. 3.93 seconds = 1.27 gal per second

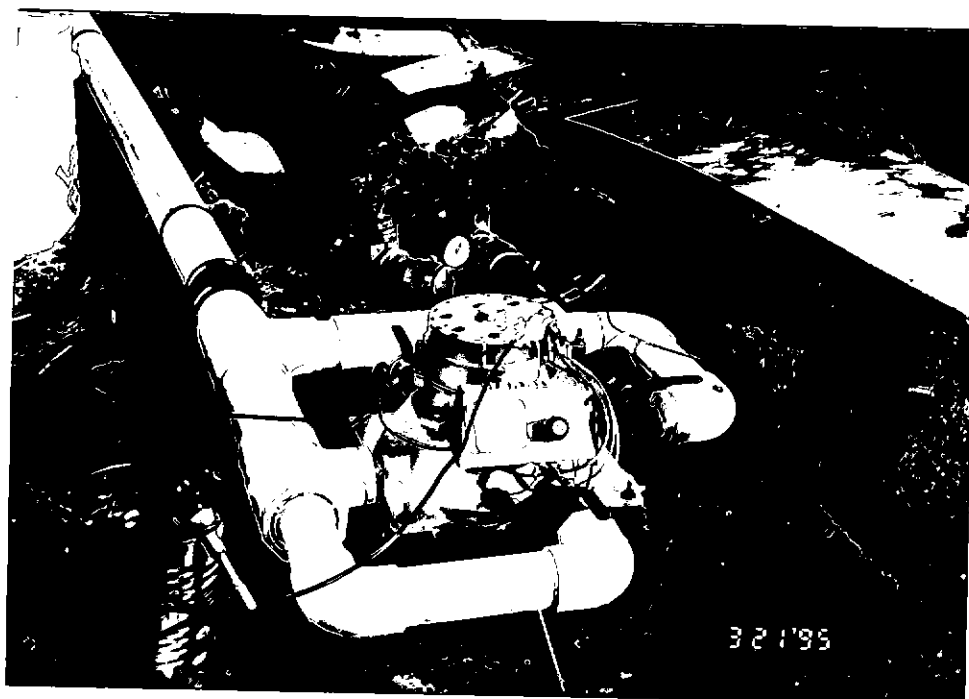
1.27 gal per second x 60 = 76.3 gpm

76.3 gpm divided by 448.8 = 0.170 cfs

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AUG 20 1997







INTAKE TO
POWER
ALTERNATOR

PHOTO #1



Discharge Pipe

PHOTO #2

MICROFILMED
AUG 20 1997

75-07615

POINT OF DIVERSION

Inlet hole in drum
covered with screen
outlet - Two $1\frac{1}{2}$ " lines
ONE 2" line



Photo #3

MICROFILMED
AUG 20 1997

75-7615

**ANALYSIS SHEET
FOR
PROOF OF BENEFICIAL USE**

Permit No. 75-07615 Reviewed by [Signature] Date 4-21-95

GENERAL CONSIDERATIONS

yes Name same as permit?
yes Address same as permit?
yes Proof timely received?
If not, complete calculation below.

TYPES OF USE

Power

Correct Uses? yes

SOURCE OF WATER

☒ Surface water source

☐ Ground water source

☒ Drilling permit required?
☒ Copy in the file? Drilling Permit No. _____
☒ Amount paid for permit _____ Correct?
☒ Well log in the file?

LICENSE EXAMINATION FEE

yes Required?
50.00 Amount Submitted
yes Correct?

MEASURING DEVICE

yes Required?
yes Installed?
_____ Waiver requested?

PRIORITY CALCULATION

Date proof received	_____	- = + X	_____
Date proof due	_____		_____
No. of days late	_____		_____
Priority Date	_____		_____
New Priority Date	_____		_____

DEFICIENCIES OR ACTION ITEMS

Proof acceptable

DATA ENTRY

New Address _____ Proof Made 4-12-95

April 24, 1995

STANLEY POTTS
HC 64 BOX 61
SHOUP ID 83469

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 75-07615

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 EASTERN Regional Office in Idaho Falls at (208)525-7161.

Sincerely,

JULIE L. YARBROUGH
Senior Secretary

c: IDWR - Region

APR 25 1995



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

December 20, 1994

STANLEY POTTS
HC 64 BOX 61
SHOUP ID 83469

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 75-07615

Dear Permit Holder:

Enclosed is a copy of your approved application for permit. Please be sure to thoroughly review the "CONDITIONS/REMARKS:" listing on the permit.

As a permit owner you must commence the excavation or construction of the diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The date shown under condition no. 1 is the date when the project must be completed.

The Department will send you a "Proof Due Notice" approximately 60 days prior to the above referenced date requesting you to file either a Proof of Beneficial Use form or a Request for Extension of Time form.

Sincerely,

JIM JOHNSON, Manager
Water Right Permits Section

JJ:dc

Enclosures

RECEIVED

DEC 29 1994

**APPLICATION FOR PERMIT
STATE OFFICE REVIEW**
by Cindy Zimmerman

No.: 75-7615 Name: Potts Date: 12/7/94 Correct Fee? ✓

AREA OF CONCERN? - No/Yes S/C Mor GWMA Trust/Non-trust

SYSTEM COMPLETED:

No

Complete in 1 year

Yes

Proof not submitted

Proof submitted

GROUNDWATER:

+ 0.2 cfs <FLO-CH>

- 0.2 cfs

Drilling Permit:

Included w/permit

Existing well

No WD permit?

SURFACE WATER: not in WD

LOCATION:

Water District (~~dem~~)

*Surface water

(doesn't sink)

Groundwater

In stream channel

Irr Dist/Canal Co.

Drainage Districts

Flood Control Dist.

Boise Front (63)

Swan Falls Flag

Trust

Non Trust <1>

RIVER BASINS (*Surface water):

Boise R(63)

Payette R(65)

Snake R(01/02/03)

USE:

Fish Propagation

Irrigation

Power

Mining

Storage (✓ 3 compo.)

Domestic (surface)

OWNERSHIP:

Non land owner

PROTESTED:

OTHER CONDITIONS:

REMARKS:

BENEFICIAL USE DUE:

COMMENTS:

Send Copies

Dist. for staffing
Submitted for advertising 7-12-94

Form No. 202a
4/87

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATIONS FOR PERMIT ANALYSIS SHEET

INITIAL REVIEW BY HWT DATE 7-11-94 APPLICATION NO. 25-2615
Stanley Potts
REQUIRED INFORMATION

- ☒ Name (If applicant is a corporation or partnership, names must be provided for the director, officers, & other partners.)
☒ Address
☒ Source (See USGS Quad for names of water sources)
☒ Point of Diversion (10 acres for spring, lot & block descriptions for subdivisions, local name, flow and/or volume)
☒ County
☒ Quantity (flow and/or volume)
☒ Period of Use
☒ Nature of proposed use (Include description of use.)
☒ Description of diverting works
☒ Time required for beneficial use of water
☒ Place of use or acres irrigated
☒ Map
☒ Signature (If applicant is corp. partnership, or municipality, title of signator is required)
☒ Fee
☒ Yes ☐ No* In form to receipt

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DEC 01 1994

Department of Water Resources

ADDITIONAL INFORMATION

- ☒ Overlapping place of use (Describe source & relationship to present application on the back.)
Overlapping point of diversion
☐ Yes ☒ No Field check required
Field check by _____
☐ Yes ☒ No Field report attached
☐ Yes ☒ No Critical groundwater area
☐ Yes ☒ No Groundwater management area
☐ Yes ☒ No Send dam safety information
☐ Yes ☒ No Send power requirement letter
☐ Yes ☒ No Send fish farm requirement letter
☐ Yes ☒ No Power residency affidavit
☐ Yes ☒ No Power efficiency form
☐ Yes ☒ No Within trustwater boundary (If yes, attach trust water supplementary analysis sheet.)
☐ Yes ☒ No Diversion greater than 5 cfs or 500 acre ft. (If yes, attach large diversion supplementary analysis sheet.)

RECEIVED
AUG 11 1994

Department of Water Resources

See reverse side for additional information

*REQUEST THE FOLLOWING ADDITIONAL INFORMATION FROM THE APPLICANT

Refund requested 7-11-94

Date Requested _____

PROCESSING ☒ Yes ☐ No In form for advertising
☒ Yes ☐ No Statewide advertising
☒ Yes ☐ No Fee amount, receipt date & No. recorded on application

SEND COPIES TO ☐ Idaho Dept. of Health & Welfare ☐ U.S. BLM
☒ Idaho Dept. of Fish & Game ☐ U.S. Forest Service
☐ Idaho Dept. of Lands ☐ Water District
☐ Adjudication Bureau Unit ☐ Other _____

FINAL REGIONAL PROCESSING REVIEW

☒ Yes ☐ No Affidavit of publication received
☒ Yes ☐ No Application published correctly. If not, record action taken.

☒ Yes ☐ No Publication dates & paper, recorded on application
☐ Yes ☒ No Protests received
Final date for protest 8-8-94
☐ Yes ☐ No Protests, dates, resolution of protest, recorded on application
☐ Yes ☒ No Recommendations, attached
☐ Yes ☒ No Measuring device required
☐ Yes ☒ No Access port required
☐ Yes ☒ No Will water be delivered by watermaster? If yes, what Dist. _____
☒ Yes ☐ No Special conditions of approval or cover letter below. _____

See below for additional information
Date of priority recommended 6-28-1994
By AWT Date 8-8-94

STATE OFFICE REVIEW

See below for additional information
By _____ Date _____

ADDITIONAL INFORMATION

* Applicant should submit specifications of hydro-plant which demonstrate it is built or will be supplied with 0.13 cfs or less.
* Conditioned; That diversion works will be screened to prevent fish entry

LOCAL PUBLIC INTEREST

Comments received from

<u> </u> City	<u> </u> Idaho Fish & Game	<u> </u> Irrigation District
<u> </u> County	<u> </u> Idaho Health & Welfare	<u> </u> Canal Company
<u> </u> Reservations	<u> </u> Division of Environment	<u> </u> Other

Project impacts/implications report

COMMENTS

[illegible]

INTER-DEPARTMENT MEMO

TO: File 75-07615

SUBJECT: cfs used in Pelton Wheel

FROM: H.W. Jones

DATE: 11-3-94

Mr. Stanley Potts called & gave the following specs on his diversion
& use of his Pelton wheel.

a/ 25' head

b/ 180' of 4" plastic pipe

c/ 4amps generated

d/ running at 12 psi

RECEIVED
NOV 10 1994

Manning eqn. for Round pipe shows; 0.89 cfs

DEC 29 1994

Additional Computations (attached) show 0.36 cfs

Applicant states bucket & stopwatch show 0.13 cfs.

On-site for verification in Nov. 1994 shows system completely frozen!

(X) For your information

() Response required

H.W. Jones
signature

Manning's

$$Q = \frac{0.463}{0.010} \times 0.33^{2.447} \times 0.138^{0.5}$$

$$= 46.3 \times 0.0519 \times 0.371$$

$$= 0.89 \text{ cfs}$$

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DEC 29 1994

Ag 211-Williams

$$Q = 0.432 \times 140 \times .35^{2.63} \times 0.138^{0.54}$$

$$0.432 \times 140 \times 0.054 \times 0.34$$

$$= 1.10 \text{ EF}$$

11-12-94

DEC 29 1994

November 29, 1994

STANLEY POTTS
HC 64 BOX 61
SHOUP ID 83469

RE: Application for Permit No. 75-07615

Dear Applicant:

This letter is to advise you that the protest filed by the USDA FOREST SERVICE against approval of the above referenced application has been withdrawn.

If you have any questions, please feel free to contact this office.

Very truly yours,


Harold W. Jones
Water Right Supervisor

HWJ/rb

RECEIVED
DEC 29 1994

November 29, 1994

USDA FOREST SERVICE
324 25TH ST
OGDEN UT 84401-2310

RE: Application for Permit No. 75-07615
Stanley Potts

Dear Mr. Bosworth:

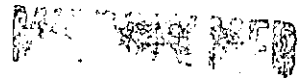
This letter acknowledges receipt of the withdrawal of protest against the above referenced application.

If you have any questions, please feel free to contact this office.

Very truly yours,


Harold W. Jones
Water Right Supervisor

HWJ/rb



DEC 29 1994



United States
Department of
Agriculture

Forest
Service

Intermountain
Region

324 25th Street
Ogden, UT 84401-2310

File Code: 2540-1-3

Date: OCT 28 1994

RECEIVED

OCT 31 1994

Department of Water Resources
Eastern District Office

Mr. Ronald Carlson
Idaho Department of Water Resources
900 N. Skyline Dr.
Idaho Falls, Idaho 83402

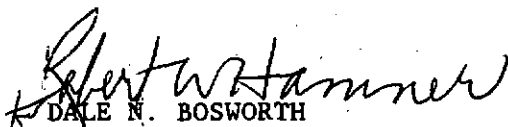
Dear Mr. Carlson:

We are writing regarding our protest of Application for Permit No. 75-07615 filed by Stanley Potts to appropriate 0.6 cfs from Colson Creek for hydropower purposes. We now understand, based upon a phone call from Mr. Harold Jones of your office to Betsy Rieffenberger, the Hydrologist on the Salmon/Challis National Forest, that you have received a written request from Mr. Potts asking that his Application be changed. We understand that Mr. Potts requests that his Application for Permit No. 75-07615 be changed to show a diversion amount of 0.13 cfs, rather than 0.6 cfs as shown on his original Application, and that this new water right would be used in conjunction with his existing irrigation diversion that was claimed in the Snake River Adjudication (Claim No. A75-10044). We assume this means his total rate of diversion would not exceed 0.13 cfs at any time in the year and that his existing irrigation diversion of 0.13 cfs would become a year-round diversion to provide for hydropower generation.

Provided that our understanding of his proposed changes, as described above, are correct and that his diversion from Colson Creek be screened to prevent fish entry, we agree to withdraw our protest of Application for Permit No. 75-07615. We would like a written letter from your office to confirm our understanding of Mr. Potts proposed changes. We want to be sure that we understand correctly his new Application changes and how his new hydropower use would be used in conjunction with his existing irrigation diversion.

We still take exception to the fact that the State of Idaho considers hydropower use as a nonconsumptive use which exempts it from the current moratorium for new water right applications. We disagree with this determination because taking water for hydropower use would be consumptive for the particular stream reach between the point of diversion and the point of return flows.

Sincerely,


DALE N. BOSWORTH
Regional Forester

RECEIVED

DEC 29 1994



Caring for the Land and Serving People

FS-6200-28b(4/88)

November 1, 1994

Dale Bosworth
Regional Forester, USFS
324 25th St
Ogden UT 84401-2310

Mr. Bosworth:

Enclosed are copies of amended application 75-07615 in the name of Stanley Potts and claim A75-10044 for the same individual. It was my instructions to reduce the amount applied for on application 75-07615 from 0.60 cfs to 0.13 cfs. Mr. Potts explained he originally meant 60 gpm not 0.60 cfs.

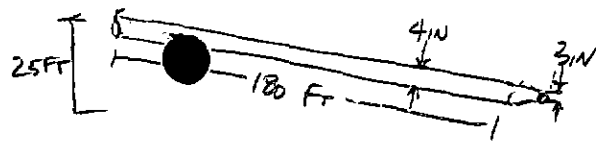
As you can see, the Domestic/Stockwater claim A75-10044 states 0.04 cfs is used for Domestic use (house and 1/2 acre) and 28 head of stock. Application 75-07615 states on line 10 that the 0.04 cfs for claim A75-10044 will be taken out of the same line delivering 0.13 cfs for the pelton wheel. My interpretation is that no more than 0.13 cfs will be diverted at the headworks at any one time.

Sincerely,

Harold W. Jones
Water Resource Supervisor

HWJ:lk

RECEIVED
DEC 29 1994



$$\frac{P_1}{\gamma} + \frac{V_1^2}{2g} + z_1 = \frac{P_2}{\gamma} + \frac{V_2^2}{2g} + z_2 + h_{L_{TOTAL}}$$

$$h_{L_{PIPE}} = f \frac{L}{D} \frac{V^2}{2g} = \frac{(0.000001) \times 180}{\left(\frac{4}{12}\right)} \left(0.562\right)^2 \frac{V_j^2}{2g} = 0.00017 \frac{V_j^2}{2g}$$

$$V_p = \frac{V_j A_j}{A_p} = \frac{9}{16} V_j = 0.562 V_j$$

For CONTRACTION

$$h_{L_{CON}} = K_c \frac{V_j^2}{2g} = 0.05 \frac{V_j^2}{2g}$$

$$25 \text{ ft} = \frac{(12 \text{ LB/IN}^2) \left(\frac{144 \text{ IN}^2}{\text{FT}^2}\right)}{62.4 \text{ LB/FT}^3} + \frac{V_j^2}{2g} + 0.00017 \frac{V_j^2}{2g} + 0.05 \frac{V_j^2}{2g}$$

$$\frac{25(62.4)}{12(144)} \text{ FT} = 0.903 = \frac{1.0502 V_j^2}{2g}$$

$$\frac{2(32.2 \text{ FT/s}^2)(0.903 \text{ FT})}{1.0502} = V_j^2$$

$$V_j = 7.44 \text{ FT/s}$$

$$Q_j = V_j A_j = (7.44 \text{ FT/s}) \left(\frac{\pi \left(\frac{3}{12}\right)^2}{4} \right) = 0.365 \text{ CFS}$$

IF $z_1 = 12 \text{ FT}$ (head) THEN $V_j = \sqrt{\frac{12(62.4)(64.4)}{12(144)(1.0502)}} = 5.15 \text{ FT/s}$

THEN $Q_j = (5.15) \left(\frac{\pi \left(\frac{3}{12}\right)^2}{4} \right) = 0.253 \text{ CFS}$

MECH 210

DEC 29 1994

P.O. Box 122, Waco, Texas 76787, (817) 766-2255

EXPOSITION SHEET

245

PAGE 01

70

1. 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629,

SECRET

If you have had any problems in receiving this transmission, please call (202) 755-6211. Our facility's phone number is (202) 755-6151. Thank You.

[illegible]

11-11-68

RECEIVED

7-20-9 1994

United States
Department of
Agriculture

Forest
Service

Intermountain
Region

324 25th Street
Ogden, UT 84401-2310

Reply to: 2560-1

Date: AUG 24 1994

Mr. R. Keith Higginsen, Director
Idaho Department of Water Resources
1301 North Orchard Street
Statehouse Mail
Boise, ID 83720

Dear Mr. Higginsen:

We are writing to protest Application for Permit No. 75-07615 filed by Stanley Potts to appropriate 0.6 cfs from Colson Creek for hydro power purposes. Our reasons are as follows:

1. Colson Creek is listed in the Northwest Power Planning Council's January 1991 Anadromous Species Presence/Absence File for the Upper Salmon Basin as a steelhead trout producing stream. Also, in the 1990 USDA Forest Service Region-4, Salmon National Forest General Aquatic Wildlife System (GAWS) Level-I Stream Habitat Inventory, Colson Creek is listed as supporting rainbow trout, bull trout, and steelhead trout populations. Bull trout were found by the U.S. Fish and Wildlife Service as warranted for Federal listing, but precluded at this time for priority reasons under the Endangered Species Act (ESA). Also, the steelhead trout have recently been petitioned for listing under the ESA.
2. Additional water diversions from Colson Creek will severely limit fish migration from the mainstem Salmon River to-and-from Colson Creek.
3. The Forest Service's ability to manage the National Forest for multiple uses, including fish habitat as mandated by Congress, will be impaired if this application is approved.
4. Colson Creek's mean and monthly flows, as cited in the Lower Mainstem Salmon River Sub-Basin's Biological Assessment for National Marine Fisheries Service are: 2 cfs during November through March, 4 cfs during April peak flows in May and June of 18 and 24 cfs respectively, dropping in July to 8 cfs, and continuing to drop to 2 cfs during August through October. Diverting 20-30% of the Colson Creek stream flow, in addition to the existing diversions, will adversely affect the fisheries resource and fish migration opportunities 9 months of the year.
5. It is our understanding that the State of Idaho considers hydro power use as a nonconsumptive use which exempts it from the current moratorium for new water right applications. Hydropower generation might be a nonconsumptive

MISSOURI 1994

DEC 29 1994

RW FILE

Mr. R. Keith Miggiano

2

use, however, this does not mean fish resources and habitat will not be affected. Passage is precluded, thus denying the upstream spawning grounds to fish. This confirms the State's beneficial uses of fish habitat, aquatic life, and recreation.

For these reasons, Permit No. 75-07613 should be denied.

Sincerely,

Jack A. Blackwell for

DALE N. BOSWORTH
Regional Forester

cc:

Salmon NF

R. Brumer, OGC, Boise

Lois Witta, OGC, Denver

RW:G Doyle:hc.08/02/94

I enclose C. Boyle 08/03/94 (Acting)

Overnight Mail 8/4 Control # 1693973046
Administrative 8/5 is on an by R. Lusk

UNRECORDED

DEC 29 1994



United States
Department of
Agriculture

Forest
Service

Intermountain
Region

324 25th Street
Ogden, UT 84401-2310

RVA

Reply to: 2540-1

Date: AUG 04 1994

Mr. R. Keith Higginson, Director
Idaho Department of Water Resources
1301 North Orchard Street
Statehouse Mail
Boise, ID 83720

Dear Mr. Higginson:

We are writing to protest Application for Permit No. 75-07615 filed by Stanley Potts to appropriate 0.6 cfs from Colson Creek for hydro power purposes. Our reasons are as follows:

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5. It is our understanding that the State of Idaho considers hydro power use as a nonconsumptive use which exempts it from the current moratorium for new water right applications. Hydropower generation might be a nonconsumptive

Receipt # C031055

MISSISSIPPI

DEC 29 1994



Caring for the Land and Serving People

FS-6200-28b(4/88)

use, however, this does not mean fish resources and habitat will not be affected. Passage is precluded, thus denying the upstream spawning gravels to fish. This defeats the State's beneficial uses of fish habitat, aquatic life, and recreation.

For these reasons application Permit No. 75-07615 should be denied.

Sincerely,

Jack A. Bosworth
DALE N. BOSWORTH
Regional Forester

RECEIVED
DEC 29 1994



IDAHO FISH & GAME

SALMON REGION
P.O. Box 1336
Salmon, ID 83467-1336
(208) 756-2271

RECEIVED

AUG 17 1994

Department of Water Resources
Eastern District Office

August 10, 1994

Harold W. Jones
Water Rights Supervisor
Idaho Department of Water Resources
900 North Skyline Drive
Idaho Falls, Idaho 83402-1718

RE: 75-7615

Dear Harold:

In reference to the water right application for Mr. Stanley Potts, on Colson Creek, Mike Larkin met with Mr. Potts and they agreed on the following conditions:

- 1) the intake screen will have openings of less than $\frac{1}{8}$ inch.
- 2) the water amount should be 60 gallons per minute (not 0.60 cfs)

With these changes the Department of Fish and Game has no protest.

Sincerely,

Gary Power
Regional Supervisor
Salmon Region

GP:ML:vh

c: U.S. Fish and Wildlife Service
Bureau of Fisheries
Natural Resource Bureau
Stan Potts

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

RECEIVED

DEC 29 1994



Working for wildlife - since 1938

MEMORANDUM

DATE: August 16, 1994
TO: Eastern Region
THRU: Jim Johnson
FROM: Cindy Zimmerman
SUBJECT: Review of Application for Permit No. 75-07615

=====

The State Office received a copy of a letter of protest dated August 4, 1994 and the filing fee from US Forest Service on August 16, 1994. I understand from Rita that the original letter of protest was received at region on August 11, 1994.

As I am not certain whether or not this is a valid protest, I am returning the file to you for clarification and whatever action you determine is appropriate.

Thanks,

Cindy

DEC 29 1994

\$25.00 Filing Fee
Receipt #031055
8/14/94

United States
Department of
Agriculture

Forest
Service

Intermountain
Region

324 25th Street
Ogden, UT 84401-2310

Reply to: 2540-1

Date: AUG 04 1994

Mr. R. Keith Higginson, Director
Idaho Department of Water Resources
1301 North Orchard Street
Statehouse Mail
Boise, ID 83720

RECEIVED
AUG 16 1994
Department of Water Resources

Dear Mr. Higginson:

We are writing to protest Application for Permit No. 75-07615 filed by Stanley Potts to appropriate 0.6 cfs from Colson Creek for hydro power purposes. Our reasons are as follows:

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DEC 29 1994

RW FILE

Mr. R. Keith Higginson

2

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For these reasons application Permit No. 75-07615 should be denied.

Sincerely,

Jack A. Blackwell for

DALE N. BOSWORTH
Regional Forester

cc:

Salmon NF

R.Bramer, OGC, Boise

Lois Witte, OGC, Denver

RW:G.Boyle:hc:08/02/94

I concur G.Boyle 08/03/94 (Acting)

DEC 29 1994

DEC 29 1994

Stanley Potts Outfitters

July 26, 1994

Idaho Dept of Water Resources
900 N. Skyline Dr.
Idaho Falls, Idaho 83402

RECEIVED
JUL 28 1994

Department of Water Resources
Eastern District Office

attn: Harold Jones

Dear Sir:

Mr. Mike Larkin of the Salmon office of
The Idaho Fish & Game Dept. came down to
look @ my Hydro Charger site. (application #
75-07615.)

He said he was concerned because of the
amount of water I had applied for. 60 CFS. I
checked & had made a mistake. I thought I
had applied for 60 F.P.M.

Anyway, he said he had no objection
to my system with it ~~increased~~ to 60 F.P.M.
or .13 CFS.

Will this letter suffice to ~~over~~ it or
do I need a new application? Please advise & I will
need a new application if required.

Stanley Potts • HC-64, Box 61 • Shoup, Idaho 83469 • 208-394-2135

Sincerely,
Stanley Potts

**NOTICE OF APPLICATION
FOR WATER RIGHT**

The Following application (s)
have been filed to appropriate the
public waters of the State of Idaho:
No. 75-07614

DUNPHY, MICHAEL
PO BOX 412

SALMON, ID 83467

Source: TOWER CREEK Tributary:
SALMON RIVER

Diversion Pt: SENW Sec 4 T 23N R
22E in LEMHI County.

Use: RECREATION
RECREATION STORAGE
(.200 CFS)

Total Diversion: (.200 CFS)

Date Filed: 6/20/1994

In: LEMHI County

T23N R22E S04 SENW

No. 75-07615

POTTS, STANLEY

HC 64 BOX 61

SHOUP, ID 83469

Source: COLSON CREEK Tribu-
tary: SALMON RIVER

Diversion Pt: NWSESE Sec 25 T
23N R 16E in LEMHI County.

Use: POWER (.600CFS)

Total Diversion: (.600 CFS)

Date Filed: 6/28/1994

In: LEMHI County

T23N R16E S25 SESE

The permit(s) will be subject to all
prior water rights. Protests must be
filed with the Director, Dept. of Water
Resources, Eastern Region, 900 N
Skyline, Idaho Falls, Idaho 83402 on
or before AUGUST 8, 1994.

R. KEITH HIGGINSON, Director
Published: 7/21/1994 & 7/28/1994

7-21-2tc

Affidavit of Publication

STATE OF IDAHO

County of Lemhi

ss.

RICKY G. HODGES

being first duly sworn, deposes
and says he is one of the printers (publishers) of the RECORDER-HERALD, a newspaper published
weekly at Salmon, Lemhi County, Idaho, and of general circulation therein.

That the DEPT OF WATER RESOURCES WATER RIGHT

....., a true
printed copy of which is attached to the margin hereof, has been and was correctly printed and pub-
lished in the regular and entire issue of every number of said newspaper and not in any supplement
thereof or thereto for TWO (2) consecutive issues, commencing with the issue
dated 7/21/1994 and ending with the issue dated 7/28/1994.

STATE OF IDAHO

COUNTY OF LEMHI

ss.

On this 28. day of JULY in the year of 1994..
before me, A Notary Public, personally appeared RICKY G. HODGES
known or identified to me to be the person whose name subscribed to the within instrument, and being
by me first duly sworn, declared that the statements therein are true, and acknowledged to me that he
executed the same.

Rachel E. Snook

Notary Public for Idaho

Residing At Salmon, Idaho

My Commission expires 10-18-97

Publication Fee \$ 46.44

#630

DEC 29 1994

75-07615

POTTS, STANLEY
HC 64 BOX 61
SHOUP, ID 83469

Source: COLSON CREEK

Tributary: SALMON RIVER

Diversion Pt: NWSESE Sec 25 T 23N R 16E in LEMHI County.

Use: POWER (.600 CFS)
Total Diversion: (.600 CFS)

Date Filed: 6/28/1994

In: LEMHI County
T23N R16E S25 SESE

RECEIVED

DEC 29 1994

75-07615

POTTS, STANLEY
HC 64 BOX 61
SHOUP, ID 83469

Source: COLSON CREEK

Tributary: SALMON RIVER

Diversion Pt: NWSESE Sec 25 T 23N R 16E in LEMHI County.

Use: POWER (.600 CFS)
Total Diversion: (.600 CFS)

Date Filed: 6/28/1994

In: LEMHI County
T23N R16E S25 SESE

DEC 29 1994

The permit(s) will be subject to all prior water rights. Protests must be filed with the Director, Dept. of Water Resources, Eastern Region, 900 N Skyline, Idaho Falls, Idaho 83402 on or before AUGUST 8, 1994.

R. KEITH HIGGINSON, Director

Published: 7/21/1994 & 7/28/1994

RECEIVED
DEC 29 1994

14-Jul-1994

STANLEY POTTS
HC 64 BOX 61
SHOUP ID 83469

RE: Application No. 75-07615

Dear Water Right Applicant:

The Department of Water Resources acknowledges receipt of your water right permit. This office is currently in the process of advertising the application in the RECORDER HERALD on July 21 & 28, 1994. The advertisement will be published for two consecutive weeks, and a period of ten days following the second publication will be allowed for the submittal of protests.

If the 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.

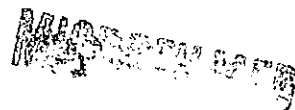
If the application is not protested, it will be forwarded to our State Office in about five weeks. State Office Personnel will conduct a complete review prior to final processing of the application and will notify you of the outcome of this review. When a permit is issued, you will be sent a copy. A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

Sincerely,


Harold W. Jones
Water Right Supervisor

HWJ:rb


DEC 29 1994

Stanley Potts Outfitters

Idaho Dept. of Water Resources
Idaho Falls, Id.

attn: Al Rubeney

June 26, 1994

RECEIVED
JUN 28 1994

Department of Water Resources
Eastern District Office

Dear Sir;

I've enclosed my application for Permit on
the Hydro Charger along with a check for \$145
for application & inspection fee.

I measured as close as I could & I'm seeing
less water than I thought. It appears to use
about 60 GPM to generate the 4 amps. Still quite a
ways from 60% efficiency. I didn't realize any of
them were that efficient!

also, I have a Domestic well & can't
find any record of Filings on it. We thought it
wasn't worth testing but I tested it as well
as I could & it pumps over 5 GPM but under 10 GPM.

It was Drilled by Gary Vallance of Anderson Falls in Oct.
of 1991. I'd like to get it taken care of also if
you can advise me. Many thanks for your help!

DEC 29 1994

Sincerely,

Stanley Potts

IMPORTANT NOTICE — THIS IS NOT A BILL

RP 000600000001A A

ADMINISTRATIVE REGIONAL COMMUNITY STUDY

1999

4-25

15 103 500 2000

△0037 AC

17,152

1994

[illegible]

68 7 3 1 6

WATVFR5

Not a subject for discussion

349 159

DECLARATION

1027

5503124

AS-ESSA-11-00700

[illegible]

1. *Chlorophyll a* (Chl a) and *Chlorophyll b* (Chl b) are the primary photosynthetic pigments in green plants. They are responsible for capturing light energy and converting it into chemical energy through the process of photosynthesis. Chl a is the most abundant pigment, while Chl b is present in smaller amounts. Both pigments absorb light in the blue and red regions of the visible spectrum.

1. *Chlorophyll a* (Chl *a*)

...and the fact that the *in vitro* and *in vivo* results are in good agreement.

1994

JUNE 17, 1994

THE UNIVERSITY OF CHICAGO

As a result, the system can be used to monitor and control the process.

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