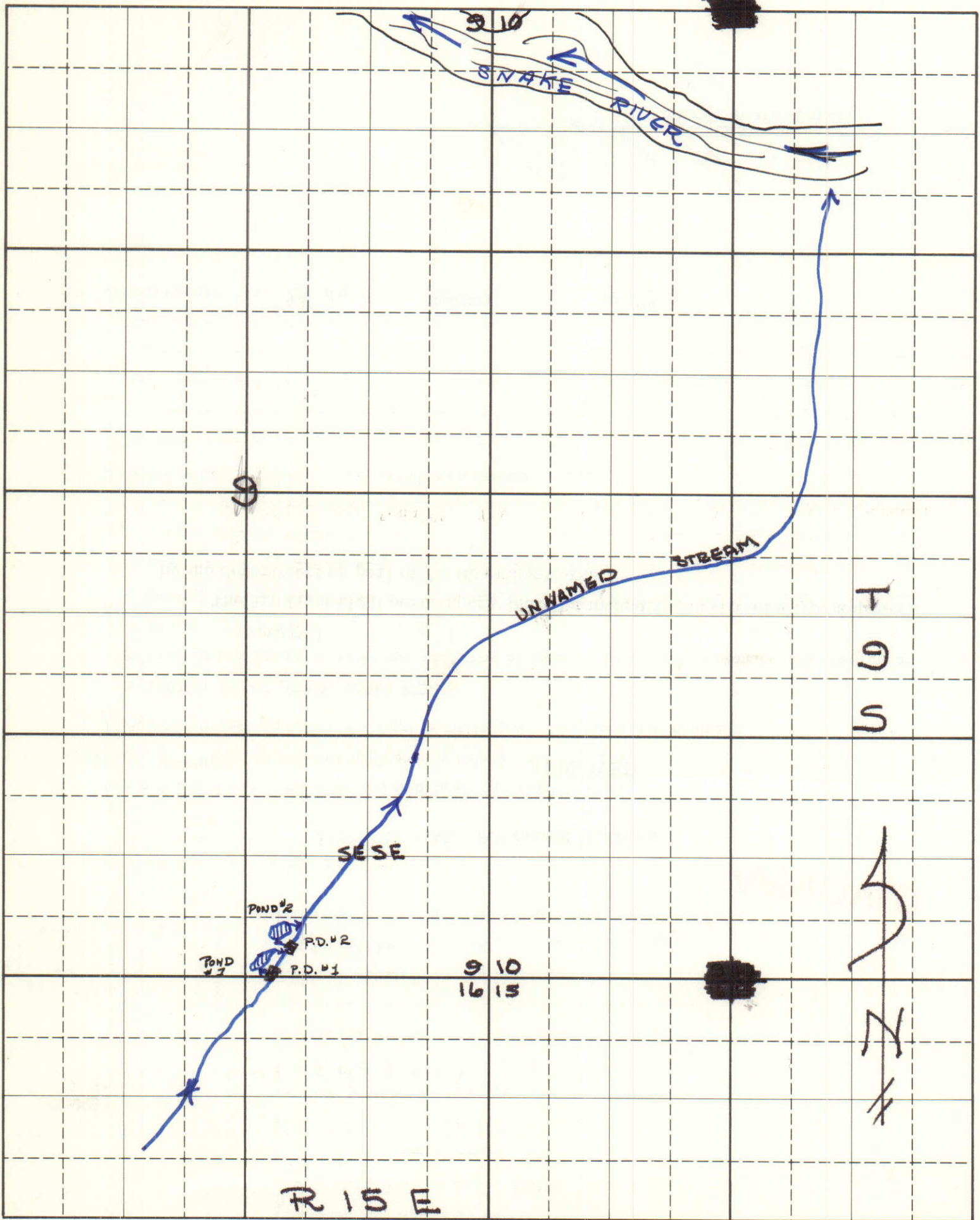


11. Map of proposed project:



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.

Edwin A. Dalos
(Applicant)
Edna M. Dalos

47 7053

Received by CSA Date 11/1/68 Time 2 PM
Preliminary check by CSA Fee \$ 90⁰⁰
Receipted by if Date 11-1-68
Publication prepared by KS Date 11-21-68
Published in Buhl News
Publication dates 11-28-12-5-68
Publication approved 72 Date 11-26-68
Priority reduced to _____ Reason _____

Protests filed by: NONE 12-31-68

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by CSA AKR

APPROVED

ACTION OF STATE RECLAMATION ENGINEER

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 47-7053, and said application is hereby APPROVED.

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

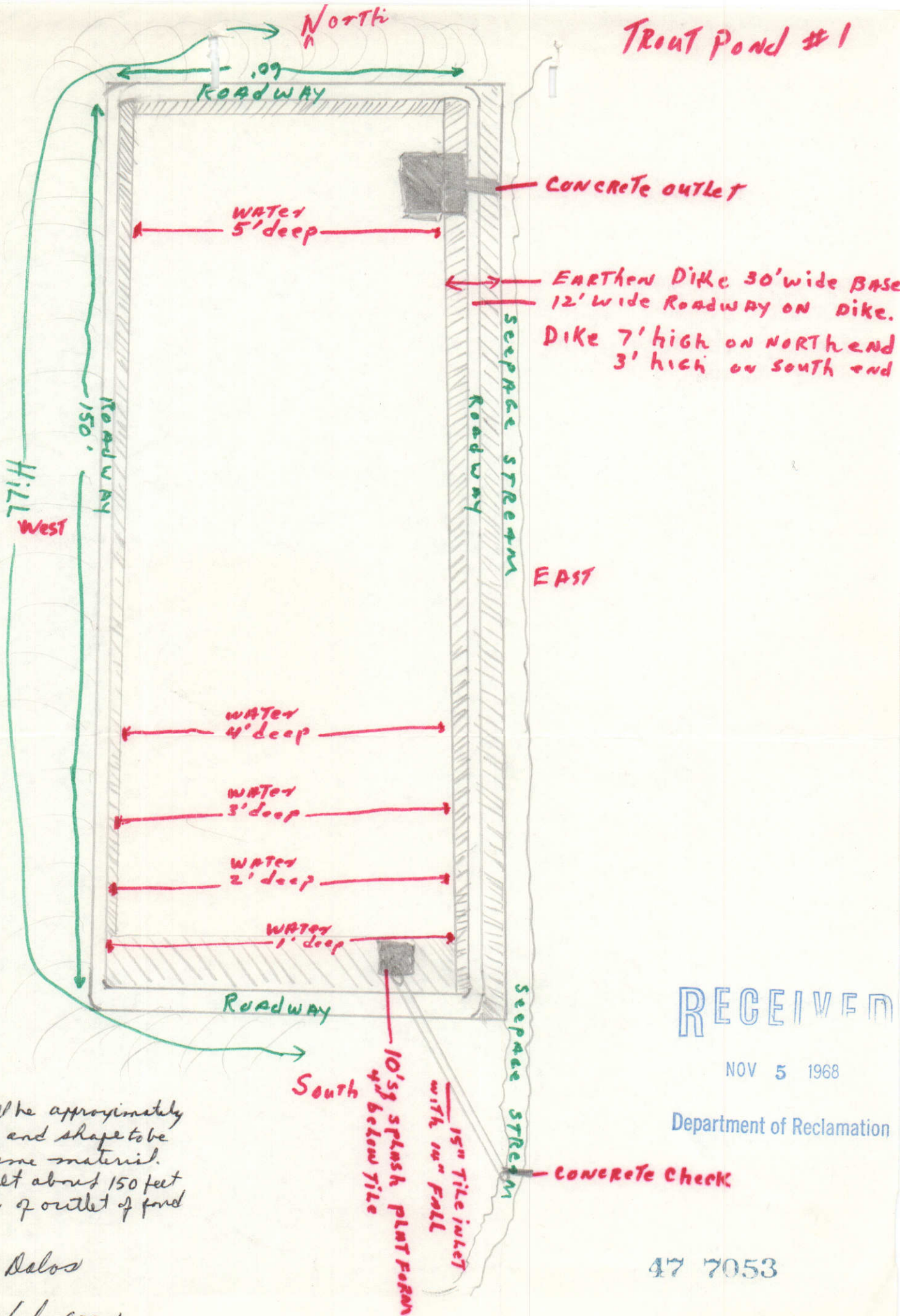
- SUBJECT TO ALL PRIOR WATER RIGHTS.
- Proof of construction of works and application of water to beneficial use shall be submitted on or before January 1, 19 74.
- Other: The applicant shall permanently install a measuring device of a type approved by the department as part of the diverting works.

2. Denial of said application is for the following reasons: _____

Witness my hand this 9th day of January 19 69.

R. Keith Higgins
State Reclamation Engineer

Trout Pond #1



RECEIVED

NOV 5 1968

Department of Reclamation

CONCRETE CHECK

47 7053

SEK-SEK-9-9-15 ERM

Pond #2 will be approximately same size and shape to be built of same material. Will be built about 150 feet down stream of outlet of pond #1.

Edwin A. Dalos

RT 4

Beckl, Idaho 83316

	RECL. ENGR.	
	DEPUTY	
	WATER RIGHTS	
✓	APPROP.	
	DIST.	
	ADJ.	
	INVESTIGATION	
	WELLS	
	DAMS	
	ACCOUNTING	
	FILE	
	RETURN TO	
	DISCARD	

RECEIVED

DEC 10 1968

AFFIDAVIT of PUBLICATION

Department of Reclamation

STATE OF IDAHO }
County of Twin Falls } ss.

I, **Robert E. Bailey**, do solemnly swear that I am the printer and editor of **THE BUHL HERALD**, a weekly newspaper of general circulation, published once each week at Buhl, Idaho; that the notice attached hereto was published in said newspaper two consecutive weeks, the first publication having been made on the 28th day of November, 1968, and the last publication having been made on the 15th day of December, 1968; that said notice was published in the regular and entire issue of every number of the paper during the period and time of publication, and that the said notice was published in the newspaper proper, and not in the supplement thereof.

That said newspaper has been printed and published continuously in **Buhl, Twin Falls County, Idaho**, for a period of more than 78 weeks prior to the first publication of the attached notice.

Subscribed and sworn to before me this 9th day of December, 1968.

Corvyn S. Matthews
Notary Public.

Buhl, Idaho
Residing at

January 1, 1969
My Commission Expires

NOTICE OF APPLICATION FOR WATER
Notice is hereby given that Edwin A. and/or Echo M. Dalos, Route No. 4, Buhl, Idaho, has on November 1, 1968, applied for permit under application No. 47-7053 to divert 45.0 cubic feet per second of water from an unnamed stream, tributary of the Snake River. Water will be diverted by concrete checks, pipe, and fish ponds within the SE 1/4 SE 1/4, sec. 9, T. 9 S, R. 15 E, B.M., Twin Falls County and is to be used from January 1 to December 31 for fish propagation in the SE 1/4 SE 1/4, sec. 9, T. 9 S, R. 15 E, B.M.
Any protest against this application must be filed with the Department of Reclamation within ten days from the last date of publication of this notice.
R. KEITH HIGGINSON
State Reclamation Engineer
Published in the Buhl Herald, Buhl, Idaho, on November 28 and December 5, 1968.
(46t2)

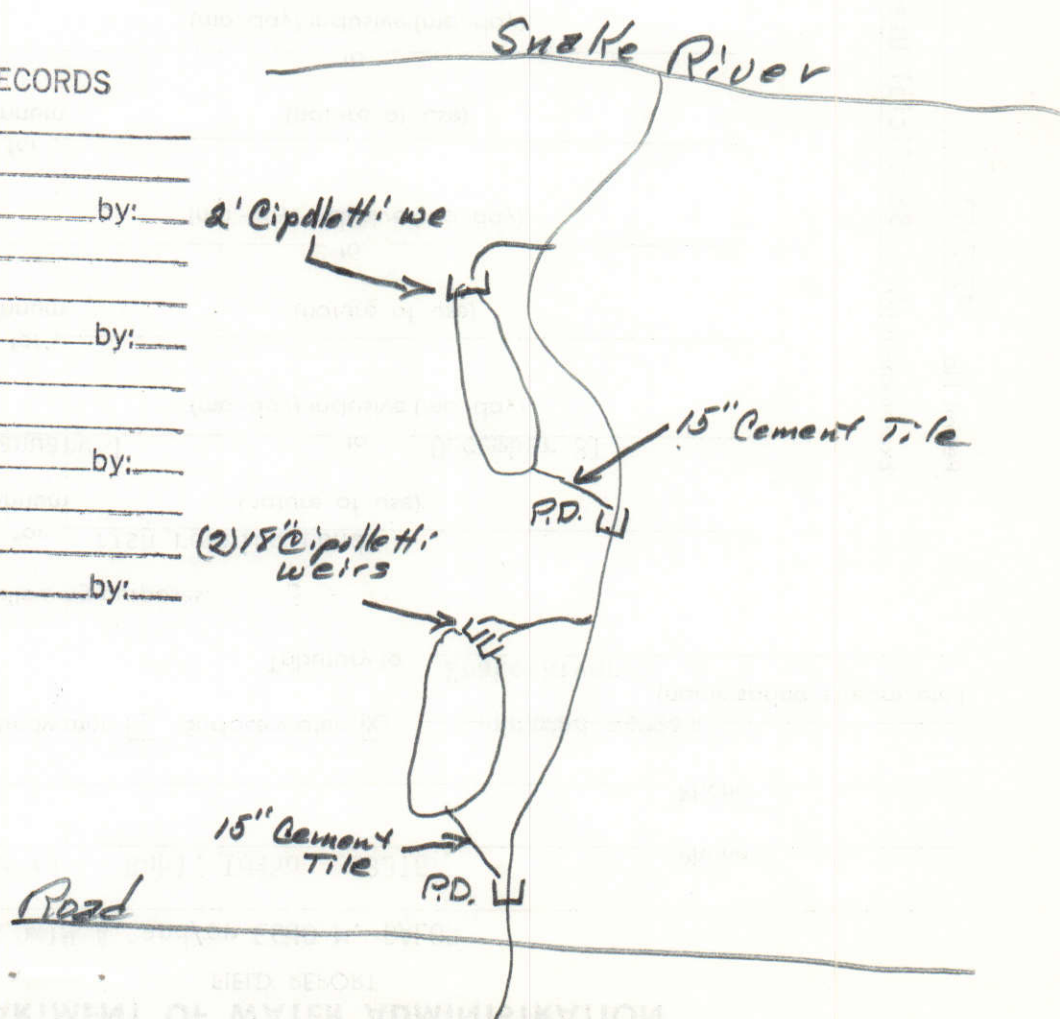
47 7053

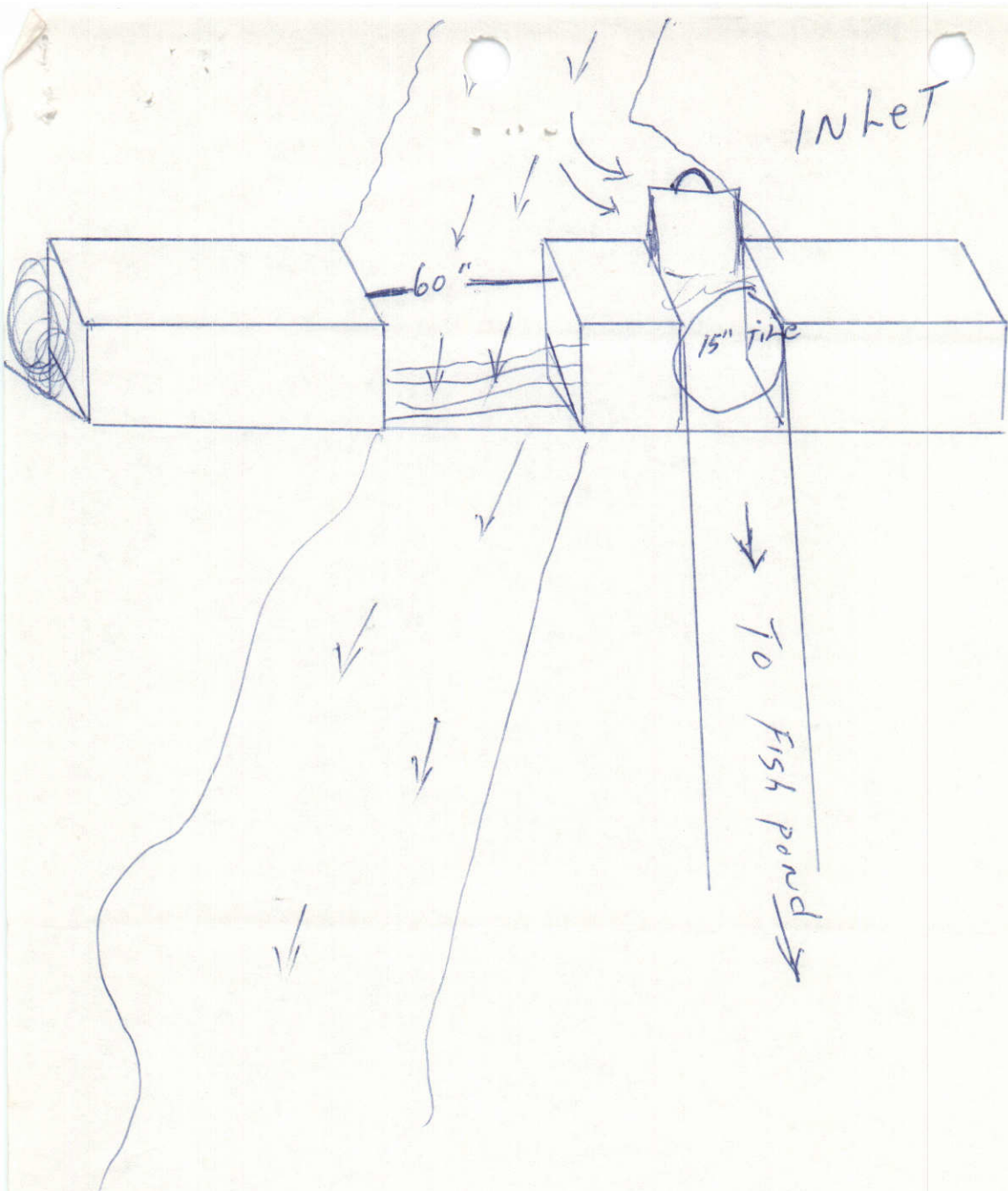


Diagram of System

DATE EXAMINATION RECORDS

_____	_____
_____	_____
_____	by: _____
_____	_____
_____	by: _____
_____	_____
_____	by: _____
_____	_____
_____	by: _____
_____	_____





Inlet

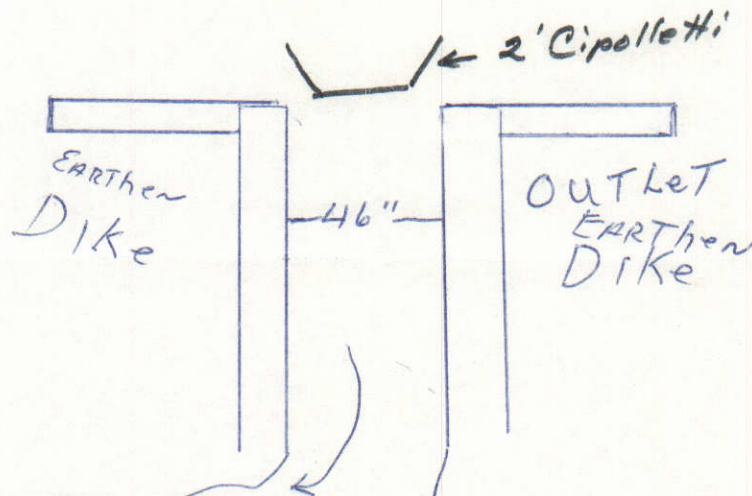
Pond #2

RECEIVED

NOV 9 1971

Department of Water Administration

↓
To Fish pond



← 2' Cipolletti

← WATER DISCHARGED BACK INTO STREAM

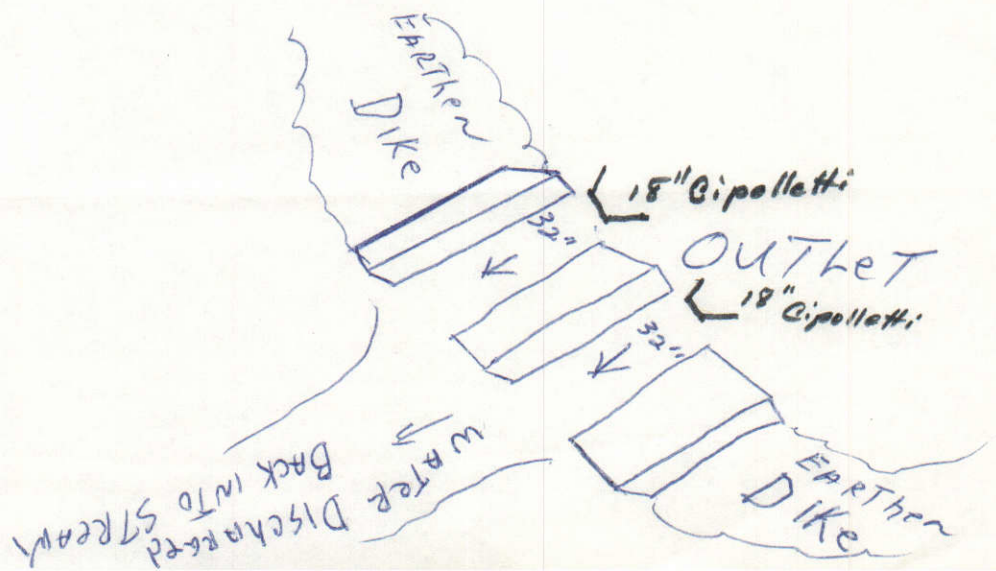
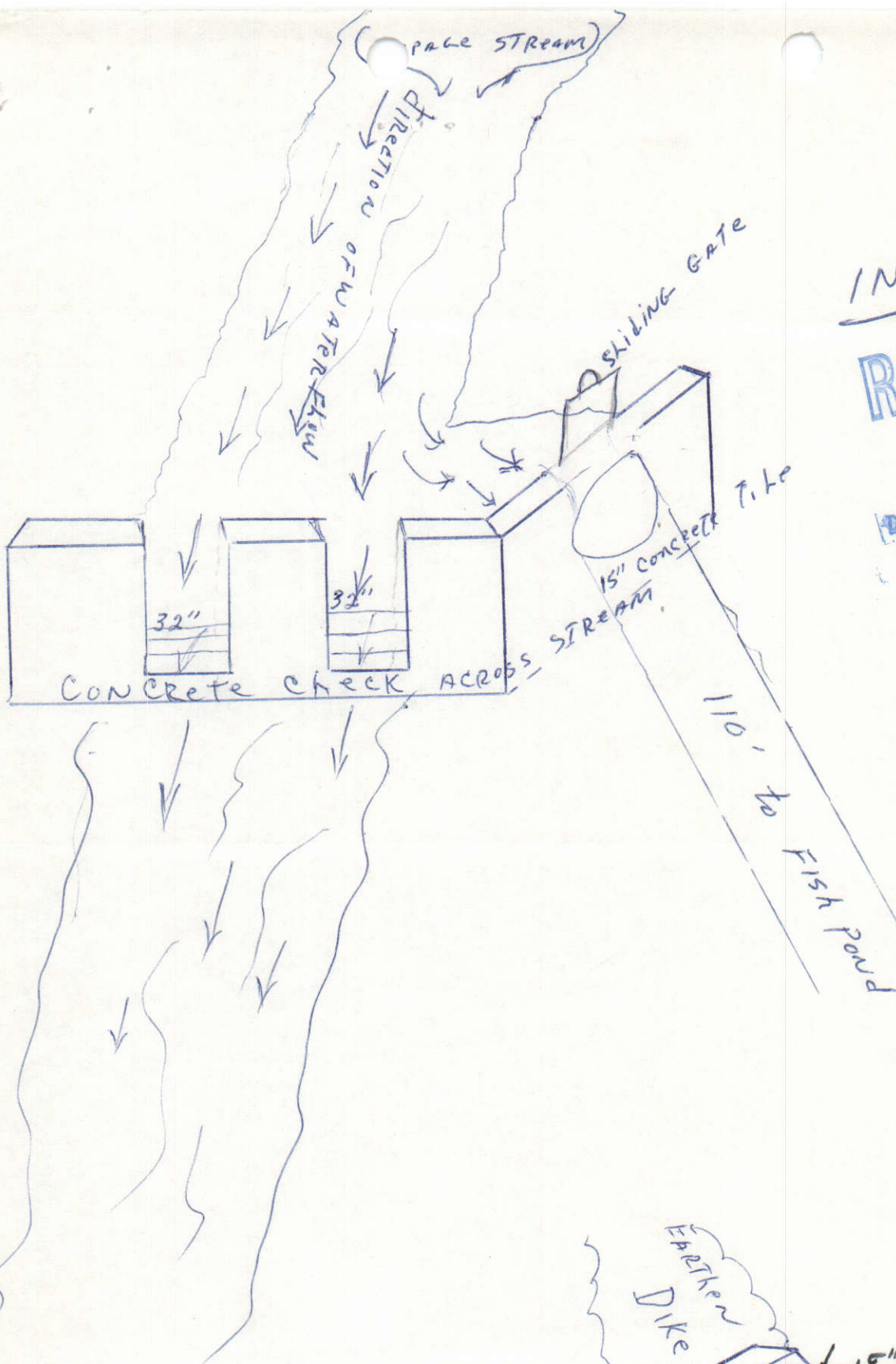
Pond #1

INLET

RECEIVED

NOV 9 1971

Department of Water Administration



47 7053

P-2



47-7053

P-1



47-7053

P-2



47-7053

P-1



47-7053

P-1



47-7053

P-2



47-7053

State of Idaho
Department of Water Administration

WATER RIGHT LICENSE

License of Water Right No. 47-7053 Priority Nov. 1, 1968 Amount 11.11 cfs

THIS IS TO CERTIFY, that Edwin A. &/or Echo M. Dalos
of Buhl, Idaho, has complied with the terms and conditions of Permit
No. 47-7053 issued pursuant to Application for Permit dated November 1, 1968,
and has submitted proof to the Department of Water Administration on October 27, 1971,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of 11.11 cfs of water from an unnamed stream,
tributary to the Snake River, and that the permit holder has applied to a beneficial use &
established a right to use water as follows:

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
Fish	from <u>Jan. 1</u> to <u>Dec. 31</u>	at <u>11.11</u> cfs and	<u>8,030</u> acre feet
Propagation	from _____ to _____	at _____ cfs and	_____
	from _____ to _____	at _____ cfs and	_____

(both dates inclusive)

Subject, however, to the condition that no more than 11.11 cfs of water be diverted at any one time, and
that the amount of water so diverted and to which such right is entitled and confirmed is for the purpose
aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed
8,030 acre-feet per year, and waters to be diverted within the SE $\frac{1}{4}$ SE $\frac{1}{4}$ (2 points) of Sec. 9,
Twp. 9 S, Rge. 15 E, B. M. in the County of Twin Falls

Description and location of place of use:

Twp.	Range	Sec.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Totals
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
9 S	15 E	9																X	

Total number of acres irrigated _____

A measuring device of a type approved by this Department shall be permanently
maintained as part of the diverting works.

NOTE: Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho
Code, or the applicable Idaho Law. This right may be forfeited by five years of non-use.

The right to the use of the water hereby confirmed is restricted and appurtenant to the lands or place of use
herein described, as provided by the laws of Idaho.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 29 day of
January, 19 74.

Director

[Signature]
47 7053

Receipt # 11780 LT

RECEIVED

APPLICATION FOR AMENDMENT

Department of Water Administration

Permit No. 47-7053

That he is the owner and holder of Permit to appropriate the Public Waters of the State of Idaho No. 47-7053, and requests that the permit and permit map be changed as follows:

(2 points)

1. Point of diversion: SE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 9 Twp. 9 S
Rge. 15 E, B.M., County of Twin Falls. Other points of diversion:

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

3. Place of use or land to be irrigated: NO CHANGE

[illegible]

Total number of acres to be irrigated

17 7053

Complete the following map by showing land and point of diversion as proposed by this amendment. Show 40-acre subdivisions, townships, ranges and ditches.

Scale: 2 inches equal 1 mile

That no one will be injured by such change, and that such change will be made at permit holders own risk.

Signed at Twin Falls, this 24 day of Jan, 1974.

Edwin A. Oakes
(signature)

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER ADMINISTRATION

I, R. KEITH HIGGINSON, Director of the Department of Water Administration,
hereby approve the above application for amendment for Permit No. 47-7053.

Witness my hand this 29 day of January, 19 74.

R. Keith Higginson
Director

Identification No. 47-7053
Application No. _____

LICENSE ISSUED FOR /// SEC. FT.
LICENSE PAGE NO. _____

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
APPLICATION FOR PERMIT

APPROVED

To Appropriate the Public Waters of the State of Idaho
(TYPE OR PRINT IN INK)

1. Name of applicant EDWIN A. and/or ECHO M. DALOS
post office address Route #4, Buhl, Idaho 83316
2. Source of water supply Unnamed Stream which is a tributary of Snake River
3. a. Location of point of diversion is SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 9 Township 9 S
Range 15 E B.M. Twin Falls County; additional points of diversion if any: _____

b. If water is not consumed, it will be discharged into Unnamed Spring at a point in SE $\frac{1}{4}$
of SE $\frac{1}{4}$ of Section 9 Township 9 S Range 15 E B.M. Twin Falls
4. Water will be used for the following purposes:
Amount 15.0 for Fish rearing ponds purpose from January 1 to December 31 (both dates inclusive)
(cfs or ~~acre-feet per annum~~)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:
a. 15.0 cubic feet per second ~~and/or~~
b. _____ acre feet per annum.
6. Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. Concrete checks, 15 inch concrete pipe lines to 60 foot x 150 foot pond with an average depth of 4 feet. Concrete outlet back into creek, Diversion #2 is 350 feet below diversion #1 and below outlet from Pond #1
b. Height of storage dam 7.0 feet each active reservoir capacity 1 acre feet; total reservoir capacity 1 acre feet each materials used in storage dam: Earthen dike
Period of year during which storage will occur January 1 to December 31 inclusive.
(Mo. Day) (Mo. Day)
c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.
7. a. Time required for the completion of the works and application of the water to the proposed beneficial use is 5 years.
b. Estimated construction cost is \$ 5,000.00.
8. Description of proposed uses:
a. If water is **not** for irrigation:
(1) Give the place of use of water: SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 9 Township 9 S
Range 15 E, B.M.
(2) Amount of power to be generated: _____ hp under _____ feet of head.
(3) List number of each kind of livestock to be watered _____

(4) Name of municipality to be served _____, or number of families to be supplied with domestic water _____.
(5) If water is to be used for other purposes describe: Fish rearing ponds to produce 120,000 pounds every 6 months

47 7053

b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

TWP.	RANGE	SEC.	NE1/4				NW1/4				SW1/4				SE1/4				TOTALS
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	

Total number of acres to be irrigated_____

c. Describe any other water rights used for the same purposes_____

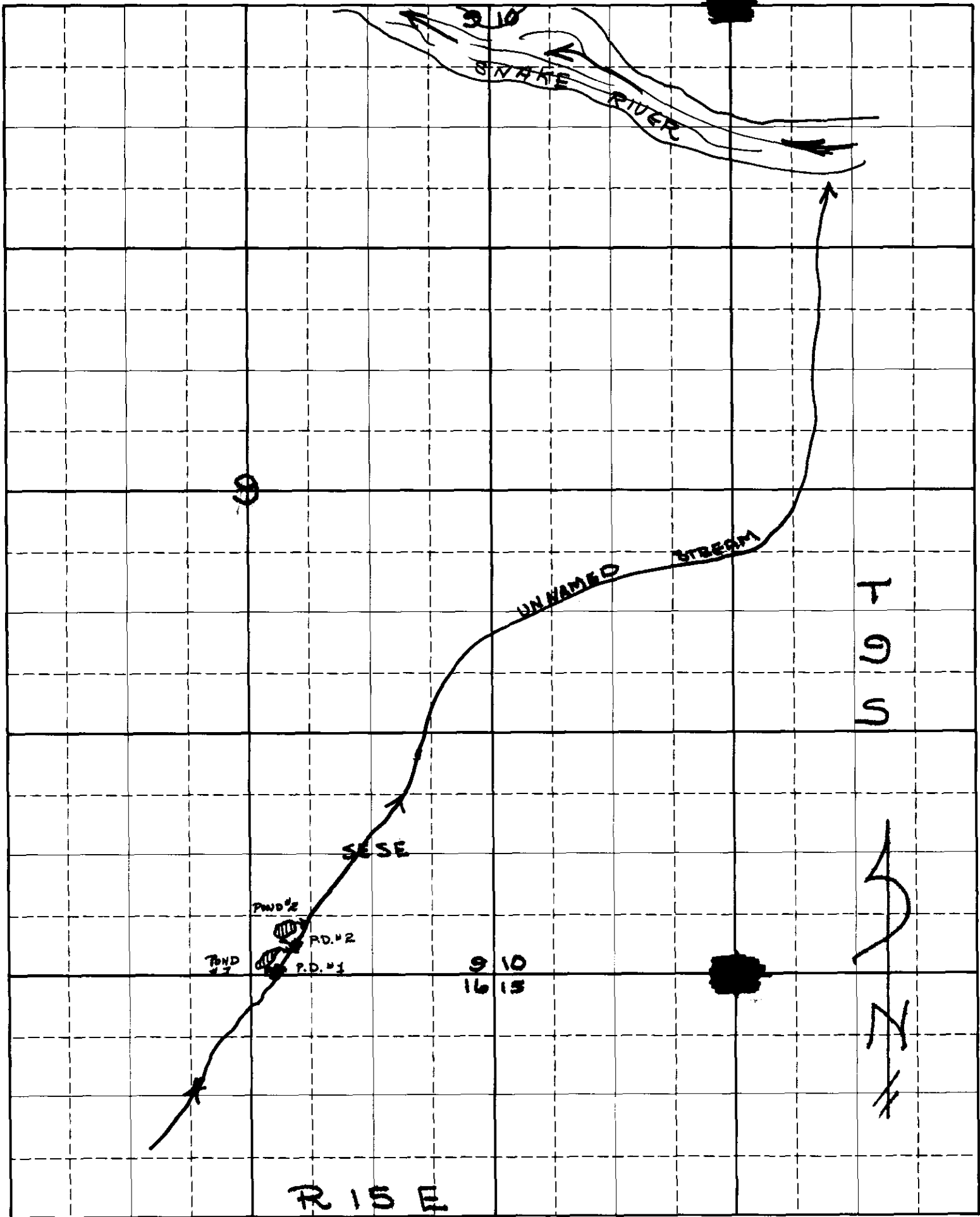
9. a. Who owns the property at the point of diversion Applicant

b. Who owns the land to be irrigated or place of use Applicant

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

10. Remarks Applicant will operate the ponds under contract with processor. Ponds are planned for a yield of 240,000 pounds of trout per year. Use will be primarily non-consumptive. Water will flow through pond No. 1, back into creek, then^{to} diverted into Pond #2. The water will then be returned to the creek.

11. Map of proposed project:



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.

Edwin A. Dalos
(Applicant)
Edna M. Dalos

Received by CA Date 11/2/68 Time 2 PM
Preliminary check by CA Fee \$ 90⁰⁰
Receipted by if Date 11-1-68
Publication prepared by KA Date 11-1-68
Published in Full Circle
Publication dates 11-2-12-5-68
Publication approved 11-1-68 Date 11-1-68
Priority reduced to _____ Reason _____

Protests filed by: None

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by if

APPROVED

ACTION OF STATE RECLAMATION ENGINEER

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 47-7053, and said application is hereby APPROVED.

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

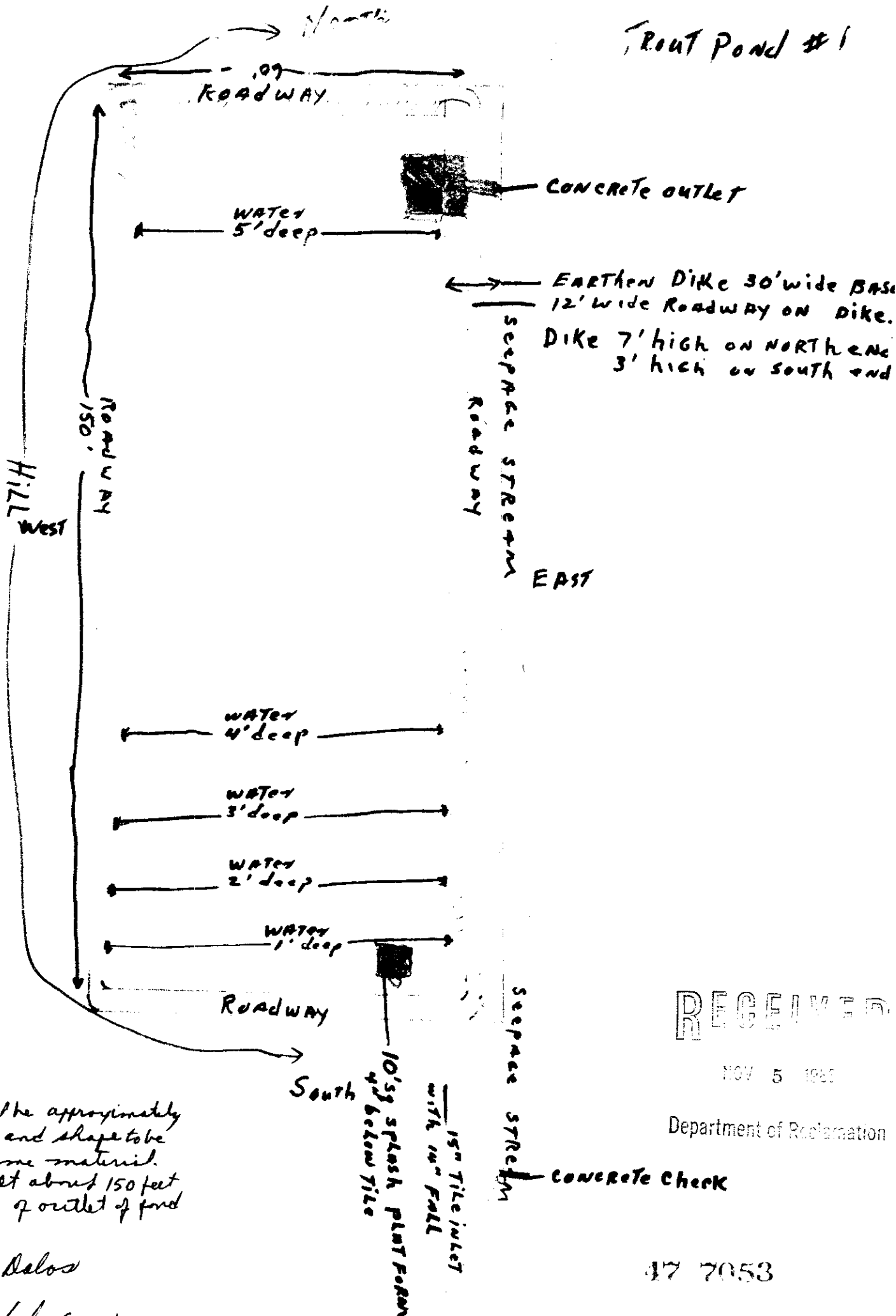
- a. SUBJECT TO ALL PRIOR WATER RIGHTS.
- b. Proof of construction of works and application of water to beneficial use shall be submitted on or before January 1, 19 74.
- c. Other: The applicant shall permanently install a measuring device of a type approved by the department as part of the diverting works.

2. Denial of said application is for the following reasons: _____

Witness my hand this 9th day of January, 19 69.

R. Keith Higgins
State Reclamation Engineer

ROUT Pond #1



RECEIVED

NOV 5 1965

Department of Reclamation

CONCRETE CHECK

47 7053

SE4 SE4 9-9-15 ERM

Pond #2 will be approximately same size and shape to be built of same material. will be built about 150 feet downstream of outlet of pond #1.

Edwin A. Dalos

RT 4

Beckl, Idaho 83316

AFFIDAVIT of PUBLICATION

STATE OF IDAHO }
County of Twin Falls } ss.

I, **Robert E. Bailey**, do solemnly swear that I am the printer and editor of **THE BUHL HERALD**, a weekly newspaper of general circulation, published once each week at Buhl, Idaho; that the notice attached hereto was published in said newspaper two consecutive weeks, the first publication having been made on the 2nd day of November, 1968, and the last publication having been made on the 5th day of December, 1968; that said notice was published in the regular and entire issue of every number of the paper during the period and time of publication, and that the said notice was published in the newspaper proper, and not in the supplement thereof.

That said newspaper has been printed and published continuously in **Buhl, Twin Falls County, Idaho**, for a period of more than 78 weeks prior to the first publication of the attached notice.

Robert E. Bailey
Subscribed and sworn to before me this

9th day of December, 1968

George W. Matthews
Notary Public.

Buhl, Idaho

Residing at

January 1, 1969

My Commission Expires

STATE OF IDAHO
DEPARTMENT OF WATER ADMINISTRATION



Cecil D. Andrus
Governor
R. Keith Higginson
Director

614 State Street
Statehouse - Annex 2
Boise, Idaho 83720
(208) 384-2190

Water Rights Administration
Water Resource Investigations
Dam and Reservoir Safety
Water Well Drilling
Waste Disposal Wells
Stream Channel Protection

January 29, 1974

Re: Permit No. 47-7053

Edwin A. &/or Echo M. Dalos
Route 4
Buhl, Idaho 83316

Dear Mr. & Mrs. Dalos:

Enclosed herewith is a copy of the water license issued on the above referenced permit.

We are enclosing a copy of the approved application for amendment issued on the permit, also.

Sincerely,

BOBBY D. FLEENOR
Assistant Director

jfr

Enclosures

17 7053

STATE OF IDAHO
DEPARTMENT OF WATER ADMINISTRATION



Cecil D. Andrus
Governor
R. Keith Higginson
Director

614 State Street
Statehouse -- Annex 2
Boise, Idaho 83720
(208) 384-2190

Water Rights Administration
Water Resource Investigations
Dam and Reservoir Safety
Water Well Drilling
Waste Disposal Wells
Stream Channel Protection

January 22, 1974

Re: Permit No. 47-7053

Edwin A. &/or Echo M. Dalos
Route 4
Buhl, Idaho 83316

Dear Mr. & Mrs. Dalos:

A representative of this Department has made an examination of the works covered by your Permit No. 47-7053 and has found the following:

Quantity of water diverted: 11.11 cfs Source: unnamed stream

Amount of water that can be recognized as beneficially used
under Idaho law: 11.11 cfs

The maximum quantity diverted shall not exceed 8,030 acre feet
per year.

Beneficial use: For fish propagation within the SE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 9,
Twp. 9 S, Rge. 15 E

Point of diversion: SE $\frac{1}{4}$ SE $\frac{1}{4}$ (2 points) of Sec. 9, Twp. 9 S,
Rge. 15 E, B.M.

Priority date established: November 1, 1968

Our field examiner found two points of diversions in the SE $\frac{1}{4}$ SE $\frac{1}{4}$, whereas your permit only lists one. Therefore, it will be necessary for you to amend the permit before a Water License can be issued. We are enclosing a partially completed application for amendment for your use. Please sign the application and return it to this office with a \$10.00 filing fee within 20 days of the date of this letter in order that we may issue a Water License as set forth above.

If you do not concur with these findings or have any questions, please contact this office within the 20 day period.

Sincerely,

BOBBY D. FLEENOR
Assistant Director

jfr

Enclosure

47 7053

FIELD REPORT

Person to contact _____ Phone _____

Tributary to Snake River (name spring, stream, etc.)

Other uses: _____

Max Rate of Diversion 15.0 cubic feet per second and annual volume _____ AF/Annum.

Other Points of Diversions: _____

Measuring device required: yes ☒ no ☐

6. Lands to be irrigated or place of use.

[illegible]**TOTAL ACREAGE** _____

Permit No. 47-7053

Examination for Beneficial Use

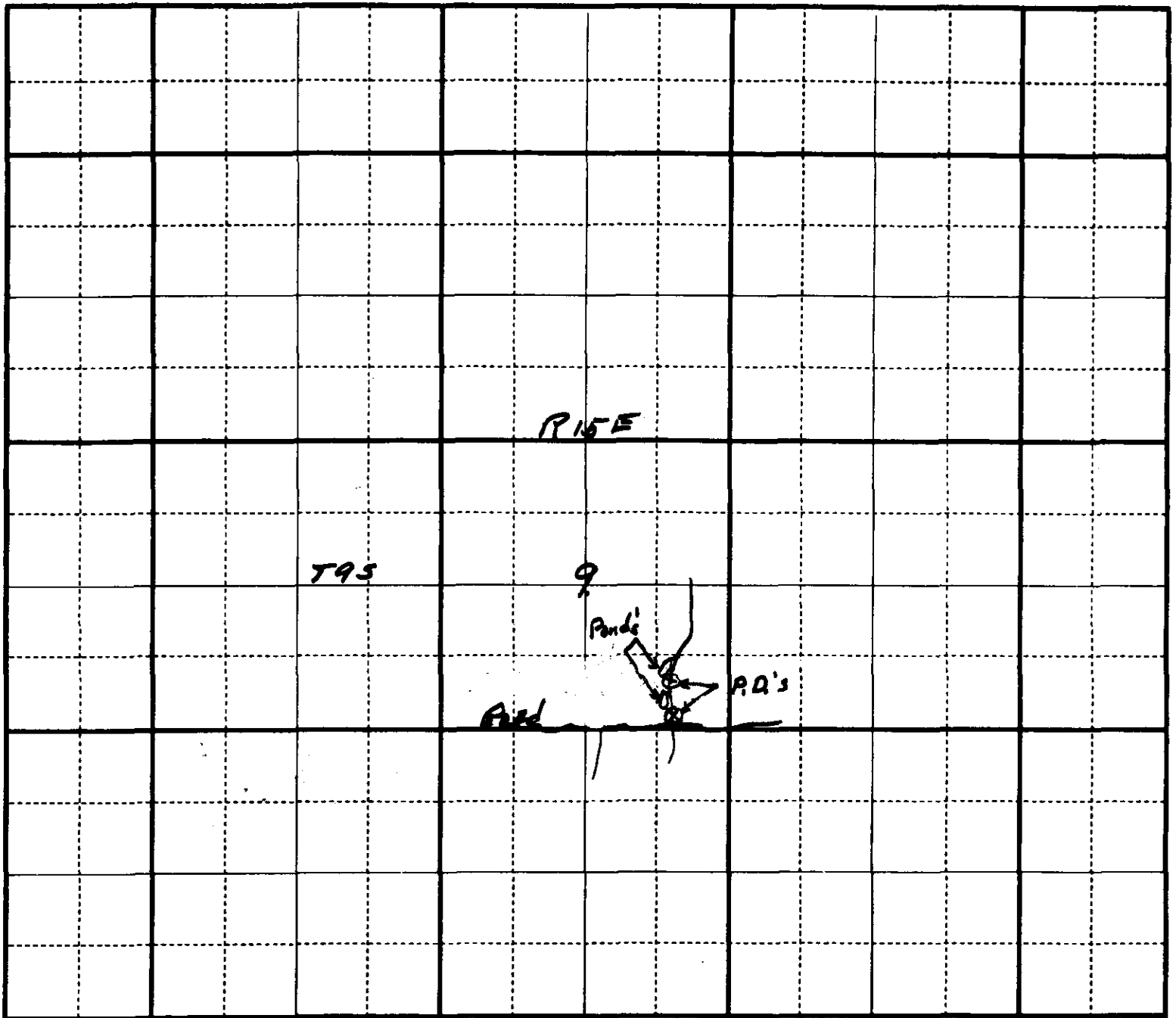
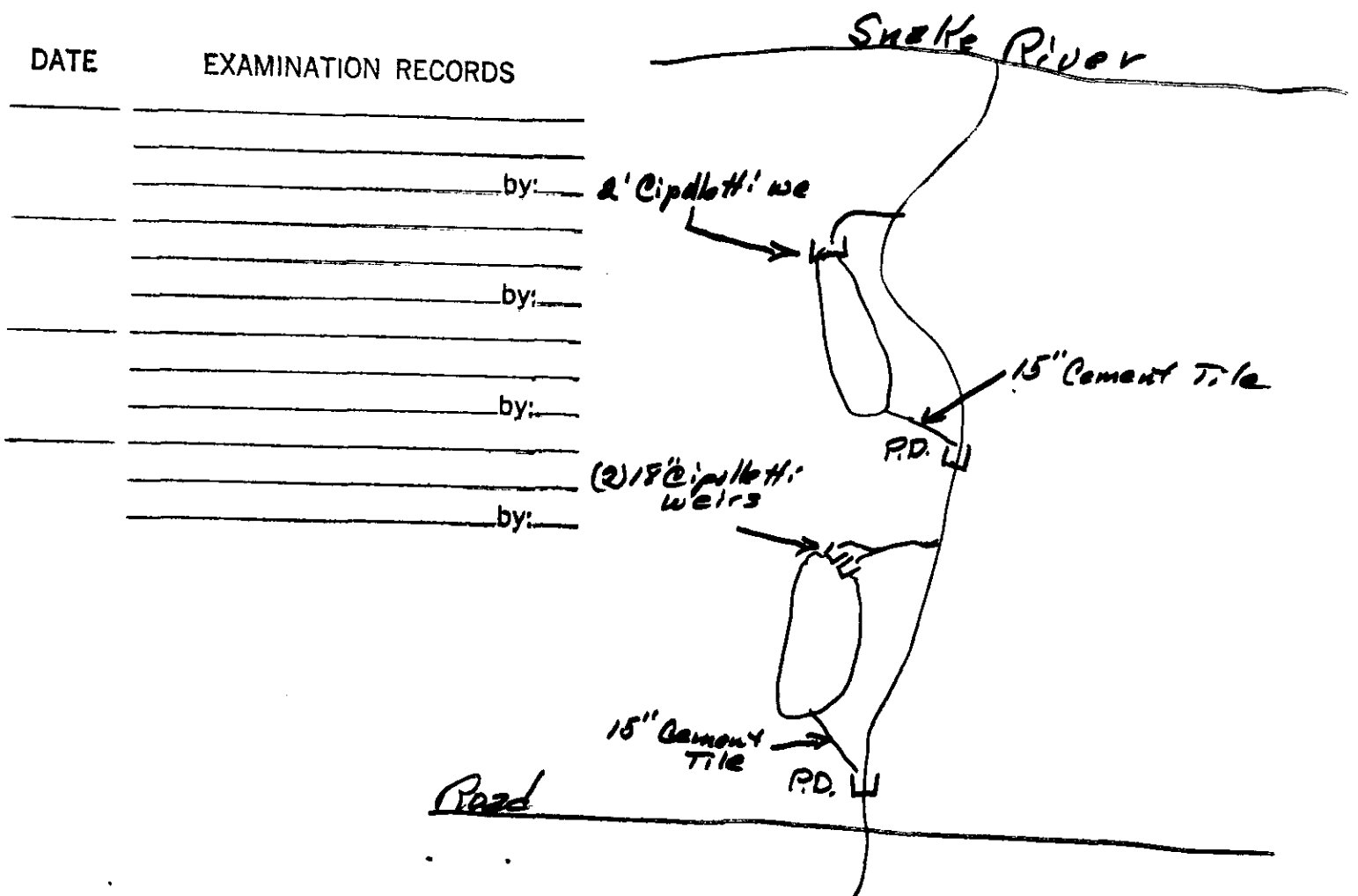
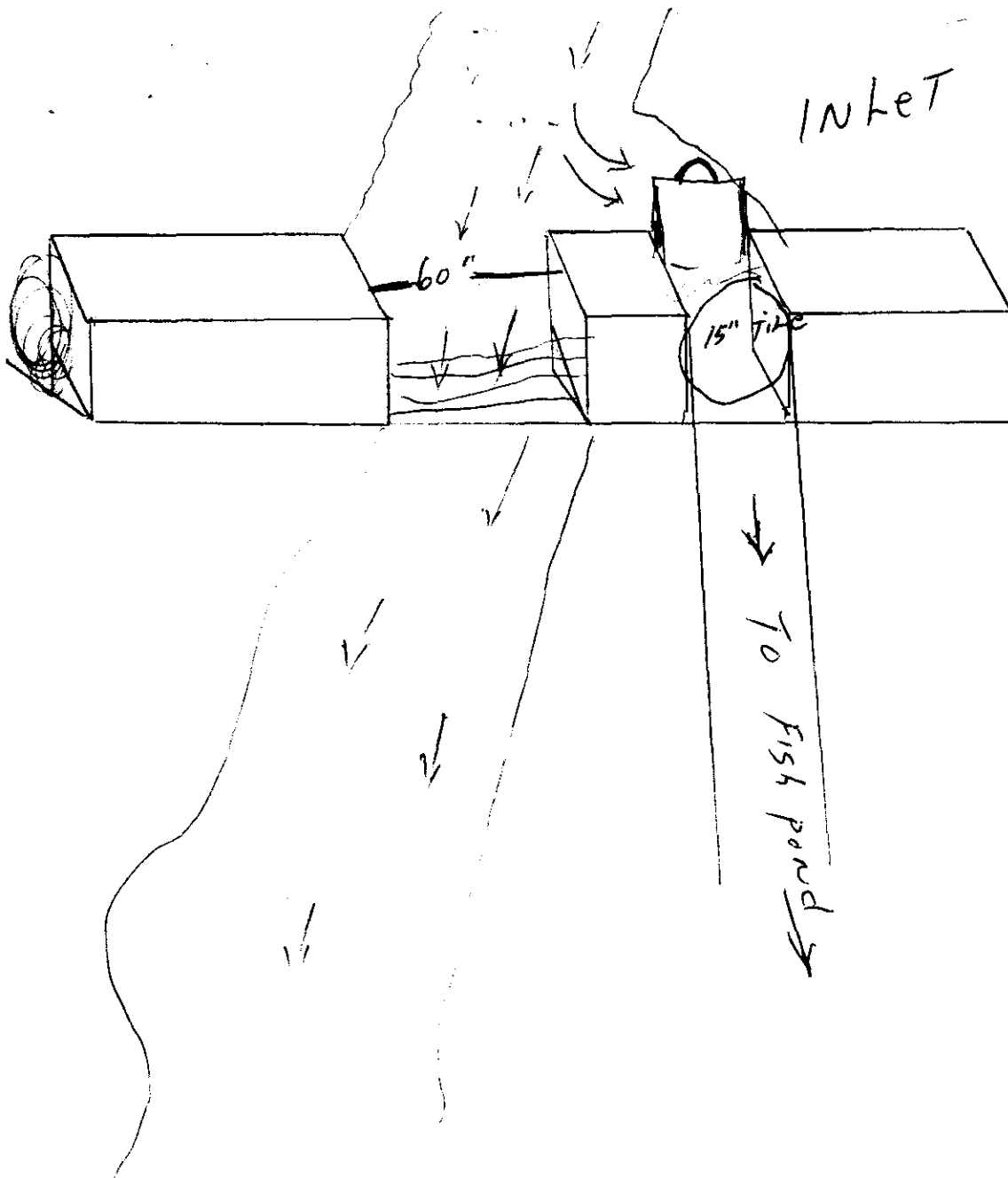


Diagram of System





INLET

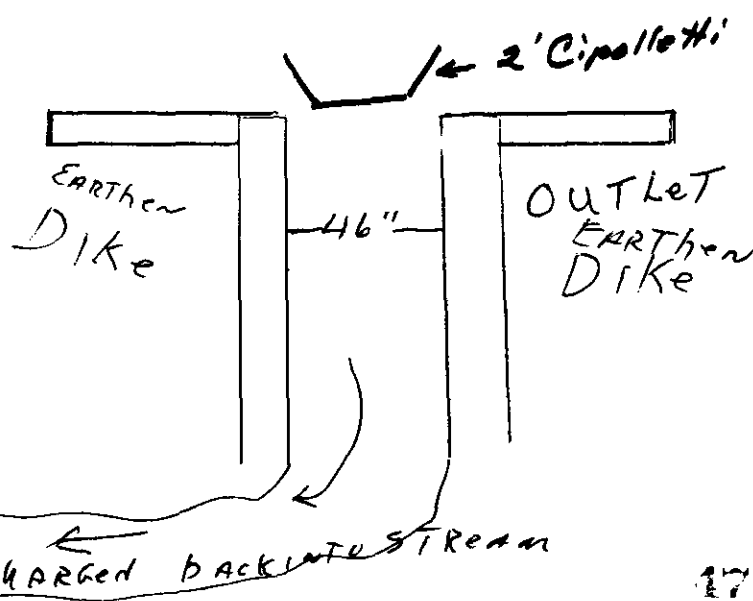
Pond #2

RECEIVED

NOV 9 1971

Department of Water Administration

TO FISH POND



2' Cipolletti

EARTHEN DIKE

46"

OUTLET EARTHEN DIKE

WATER DISCHARGED BACK INTO STREAM

17 7653

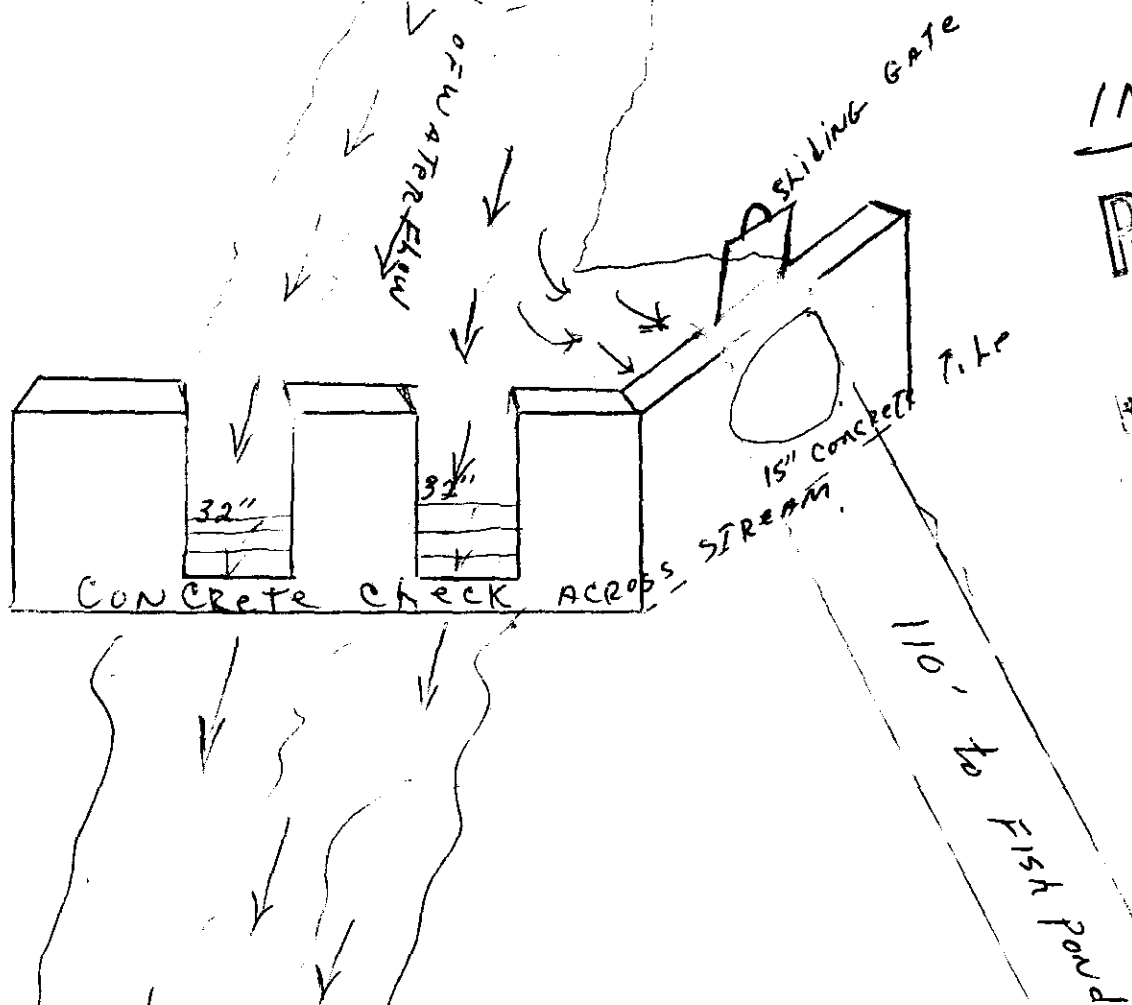
Pond #1

INLET

RECEIVED

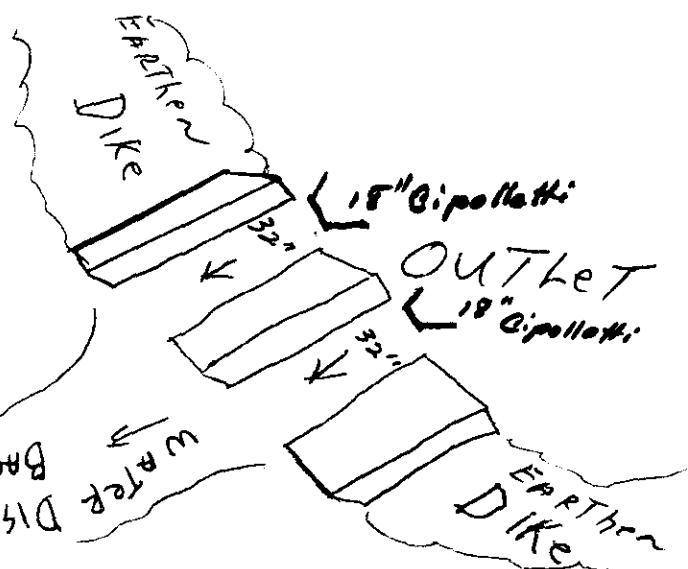
NOV 9 1971

Department of Water Administration



CONCRETE CHECK ACROSS STREAM

110' to Fish Pond



18" Cipolletti

OUTLET

18" Cipolletti

Water Discharged Back into Stream

47 7053

DATE OF EXAM 12-28-73

ACREAGE

Found _____
Recommended _____

Irrigation Requirement _____ Ac Ft/Ac

USE

Irrigation Q= _____ c.f.s. V= _____ AF/Ann. from _____ to _____
Domestic Q= _____ c.f.s. V= _____ AF/Ann. from _____ to _____
Livestock Q= _____ c.f.s. V= _____ AF/Ann. from _____ to _____
Fish Prop Q= 11.11 cfs V= 8029.2 AF/Ann from Jan. 1 to Dec. 31

Is water co-mingled? yes _____ no ☒

Name source: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Exchange? yes _____ no ☒

Name source exchanged with: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Point of injection: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Point of exchange: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Total Q measured 11.11 cfs Method of measurement (1) 18" Cipolletti weirs
(2) 2' " " "

Total Q recommended 11.11 cfs Meter No. _____ Type _____ Condition New

Total V recommended 8029.2 AF/Ann

Recommended Amendments:

P.D. _____
Place of Use _____
Other _____
None None

$$\text{Ref. } Q = 3.367 L H^{3/2} = (3.367)(1.5)(.689) = 3.48 \text{ cfs}$$

MEASUREMENT CALCULATION:

Pond #1 $Q = (2) 18' \text{ weirs } H = 0.78' = 3.48 \text{ cfs}$ 6.96 cfs 6.96
 $H = 0.78' = 3.48 \text{ cfs}$ 4.45
Pond #2 $Q = (1) 2' \text{ weir } H = 0.78' = 1.16 \text{ cfs}$ 11.11 cfs See attached comments

$$V = (11.11 \text{ cfs})(1.98 \text{ AF/cfs-hr})(36.5 \text{ da/ann}) = 8029.2 \text{ AF/Ann}$$

SYSTEM DESCRIPTION:

Pond #1 - Water is diverted from a drainage channel by means of concrete diversion with check boards, through a 15" concrete pipe to the pond. Pond is $\approx 60 \times 150'$. Discharge from pond is over (2) 18" Cipolletti weirs back into the channel.
Pond #2 - Water is diverted from same stream as Pond #1 with cement check and 15" cement pipe. Pond is approx. the same size. Discharges over a 2' Cipolletti weir back into channel then over canyon rim into the Snake River.

REMARKS:

(See attached drawings)
I recommend that the measuring device on the inlets of these two ponds be waived due to the physical locations of the diversions. Any leakage from these ponds goes into this natural drainage and over rim into the Snake River. I believe the applicant may have already requested a waiver.

Examiner's Signature Kenneth J. Flowerdew Date 12-31-73

Checked by Gary J. Jansbury Date 12-31-73

Approved by _____ Date _____

File # 47-7053

W. Gossett

27 Oct. 1972

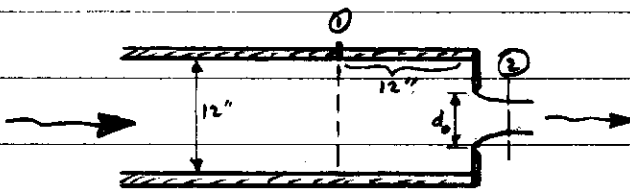
✓ AK Dunn
27 Oct. 1972

ORIFICE METER DESIGN

This meter is to be used in the Southern District for installation on the end of a gravity system. I don't know how much head could be developed on this system but I will assume that it could not be too excessive. The pipe is a 12 inch I.D. concrete pipe and the design flow will be approximately 7 cfs.

Solution:

Use Bernoulli's Equation and neglect friction between Pts. ① & ②



$$\frac{V_1^2}{2g} + \frac{P_1}{W} = \frac{V_2^2}{2g} + \frac{P_2}{W} + h_e$$

$$A_1 = \pi(.5)^2 = .785 \text{ ft}^2$$

$$A_2 = \underbrace{.61}_{\text{contract. coeff for sharp edge orifice}} \left(\frac{d_o}{2}\right)^2 \pi = .479 d_o^2$$

$$V_1 = \frac{Q}{A_1} = \frac{Q}{.785}$$

$$V_2 = \frac{Q}{A_2} = \frac{Q}{.479 d_o^2}$$

therefore,

$$\frac{\left(\frac{Q}{.785}\right)^2}{64.4} + \frac{P_1}{62.4} = \frac{\left(\frac{Q}{.479 d_o^2}\right)^2}{64.4}$$

$$\frac{Q^2}{39.7} + \frac{P_1}{62.4} = \frac{Q^2}{14.8 d_o^4}$$

$$\frac{P_1}{62.4} = Q^2 \left[\frac{1}{14.8 d_o^4} - \frac{1}{39.7} \right] = Q^2 \left[\frac{.0675}{d_o^4} - .0252 \right]$$

47 7053

Try $d_o = 6"$ and see what pressure will be for $Q = 7$ cfs.:

✓ AKDunn
27 Oct. 72

$$\frac{P_i}{62.4} = 7^2 \left[\frac{.0675}{(.5)^4} - .0252 \right]$$

$$= 49 [1.08 - .0252]$$

$$\frac{P_i}{62.4} = 51.6 \text{ ft}$$

This is probably much greater than the available head on this system
∴ use larger orifice

Try $d_o = 10"$ and check pressure for $Q = 7$ cfs:

$$\frac{P_i}{62.4} = 7^2 \left[\frac{.0675}{(.833)^4} - .0252 \right]$$

$$= 49 [.140 - .025] = 49 [.115]$$

$$\frac{P_i}{62.4} = 5.64$$

This seems reasonable and I really wouldn't want to increase orifice size any more

Results:

Use a 10" diameter sharp edged orifice on 12" pipe

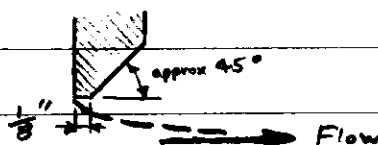
The following formula applies for measuring discharges

$$\frac{P_i}{62.4} = Q^2 [.115]$$

$$\text{or } Q = \sqrt{8.7 \left(\frac{P_i}{62.4} \right)}$$

where P_i is pressure in lb/ft^2 at a point 12" upstream from orifice
and Q is flow in c.f.s. $\left(\frac{P_i}{62.4} = \text{pressure head in ft. of water} \right)$

Orifice Edge:



November 9, 1971

Re: Permit No. 47-7053

Edwin A. &/or Echo M. Dalos
Route # 4
Buhl, Idaho 83316

Dear Mr. & Mrs. Dalos:

With reference to your visit to our office on this date, we wish to advise you that before a license can be issued in connection with your permit 47-7053, a field examination must be made by a representative from this Department. We cannot tell just when this examination will be made, but our examiner will try to contact you at the time he makes the examination so that you may show him the system.

If we may be of assistance at any time, please contact us.

Sincerely,

BOBBY D. FLEENOR
Assistant Director

BDF:DR

47 7053

SUBJECT: Permit No. 47-7053

Date: 11-09-71

Mr. & Mrs. Dalos came into the office on this date and advised of the installation of measuring devices in connection with their permit 47-7053. In the file can be found maps which they also submitted. A field examination can now be scheduled in connection with the issuance of a license.

47 7053

BDF:DR

BDF by dr
Bob Fleenor SIGNATURE

November 1, 1971

Re: Permit No. 47-7053

Edwin A. &/or Echo M. Dalos
Route # 4
Buhl, Idaho 83316

Dear Mr. & Mrs. Dalos:

We are in receipt of your affidavit submitted as proof of beneficial use for Permit No. 47-7053. However, in reviewing that affidavit, it appears that you have failed to install the measuring device as required by the conditions of approval of your permit and by Section 42-701 of the Idaho Code.

We cannot accept your proof and issue a license unless you have installed a measuring device of a type approved by this Department. We will hold your affidavit until you can supply us with information as to the type of measuring device installed. You should be aware that failure to install the device and supply information as to the type of device installed may result in the loss of your permit. We will withhold action regarding your permit until December 1, 1971.

We are enclosing a list of the types of devices approved by the Department. If you have any questions regarding this matter, please contact us.

Very truly yours,

BOBBY D. FLEENOR
Assistant Director

BDF:DR
Enclosure

17 7053

Identification No. _____

Permit No. 47-7053

STATE OF IDAHO
DEPARTMENT OF RECLAMATION

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

RECEIVED
OCT 27 1971

Department of Water Administration

1. a) Name of Permit Holder EDWIN A. and/or ECHO M. DALOS
b) Post Office Address Route 4 Buhl, Idaho 83316
2. Permit Number 47-7053
3. Date of Priority that you are prepared to establish November 1 1968
4. a) Source from which water was appropriated Unnamed Spring which is a tributary of Snake River
b) Location of the point of diversion: SE 1/4 SE 1/4, Section 9
Township 9 S, Range 15 E Boise Meridian, Other points of diversion:

5. a) The amount of water and use to which the water has been applied:
amount 15.0 for Fish rearing ponds purposes from January 1 to December 1 incl.
(cfs and/or acre feet per annum) (Month-Day) (Month-Day)
amount _____ for _____ purposes from _____ to _____ incl.
(cfs and/or acre feet per annum) (Month-Day) (Month-Day)
amount _____ for _____ purposes from _____ to _____ incl.
(cfs and/or acre feet per annum) (Month-Day) (Month-Day)
b) Total amount appropriated 15.0 cfs and/or acre feet per annum
c) Describe how and by whom measurement of rate of flow or amount of storage was made and the qualifications of the person making the measurement: CLEAR SPRINGS TROUT COMPANY

6. If the means of diversion and conveyance are owned by someone other than the Permit Holder:
a) Give the name or description of the canal, ditch or other works by which the water is conducted to the place of use: _____

b) Describe the agreement or understanding by which you take water from the works: _____

7. a) Briefly describe the works for diverting and conveying the water to the place of use, (If from a subterranean source, give the pump size, motor size, size of well casing, depth of well; if from surface water, give brief description of diversion structure and/or canal or ditch) Concrete checks across stream-concrete 15" pipe-lines to 60'x 150' pond with average water depth of 4'. Concrete outlet back into creek. Diversion #2 is 350' below Div. #1 and below outlet from Pond #1
b) Describe the type and size of measuring device which you have installed at your point of diversion: Two 15 inch Concrete tile with a 14 inch fall
Water is measured by rectangular weirs E.A.D. 11/9/71
c) Give well drillers name and address and date the well was completed _____

Examined typed
12/17/71
C.S.

47 7053

8. If for other than irrigation, describe the beneficial use to which you have applied the water and the place of use Fish rearing ponds to produce 120,000 pounds of fish per year.
Place of use will be: SE 1/4 of SE 1/4 of Section 9 Township 9S Range 15 E, B.M.

9. Irrigation uses: Describe the lands irrigated by giving the acreages irrigated within each 40 acre subdivision:

TWP.	RANGE	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	

Total number of acres irrigated _____

10. Remarks: _____

The above information is a true statement of the extent to which the above numbered permit has been developed.

10/26/71
(Date)

Eduard A. Dalos
Eduard M. Dalos
(Signature)

State of Idaho)
County of Twin Falls) ss.

On this 26th day of October, 1971, personally appeared before me the signer(s) of the above instrument, who duly acknowledged to me that he (she) (they) executed the same.

Eugene H. Christensen
Notary Public residing at Buhl, Idaho

My commission expires Jul 1972

October 14, 1971

Re: Permit No. 47-7053

Mr. Edwin A. Dalos
Route #4
Buhl, Idaho 83316

Dear Mr. Dalos:

We are enclosing beneficial use forms and instructions, which you may use to complete your permit and perfect it into a license.

If your project is not complete and you have additional expansion to accomplish within the limits of your permit, you should be advised that you can wait to submit proof of beneficial use until January 1, 1974.

If you should have any further questions in reference to this matter, please feel free to contact this Department.

Very truly yours,

Donald W. McEldowney
Appropriation Supervisor

DWM:cs

Enclosures

47 7053

RECEIVED
OCT 11 1971
October 8, 1971
Route 4
Buhl, Idaho 83316

Department of Reclamation
Statehouse- Annex 2
Boise, Idaho 83707

Dear Sirs:

Reference is being made to Application for Permit to appropriate public waters of the State of Idaho number 47-7053.

Although my application for permit was approved in December of 1968, I still have not received my permit. I sent to your office a letter dated May 7, 1970, indicating proof of completion of project. Is there any more that I should do to get my permit? If so, please advise.

Thank you.

Yours truly,

Edwin A. Dalos

47 7053

P-2



D

47-7053

P-1



D

47-7053

P-2



C

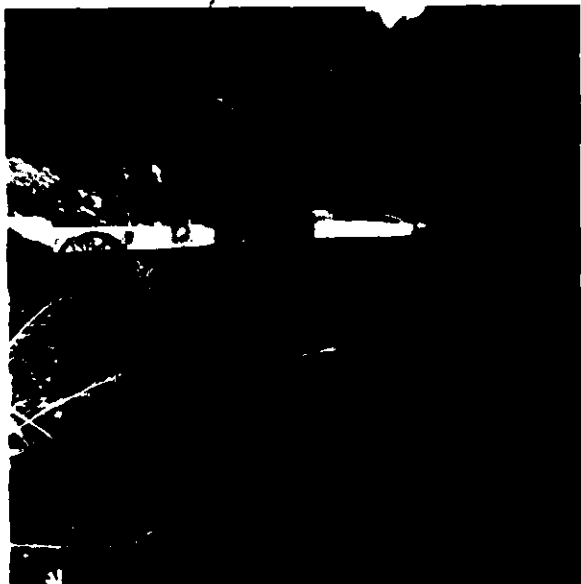
47-7053

P-1



47-7053

P-2



A

47-7053

P-1



47-7053

RECEIVED

MAY 8 1970

Department of Reclamation

May 7, 1970

Route 4

Buhl, Idaho 83316

Department of Reclamation
Statehouse - annex 2
Boise, Idaho 83707

C. Stephen Alfred:

Dear Sir:

Reference is being made to water permit application number 47-7053

I wish to furnish proof of construction of works and application of water to beneficial use.

Enclosed are three pictures of pond #1 (p-1) and three pictures of pond #2 (p-2) coded as follows for your information:

- p-1-A: Water entering 15" tile - 110' long.
- p-1-B: Concrete check and measuring device.
- p-1-C: Where water enters pond #1 and splash platform.
- p-1-D: Outlet where water returns to creek.
- p-2-A: Water entering 15" tile 126' long.
- p-2-B: Concrete check and measuring device.
- p-2-C: Where water enters pond #2 and splash platform.
- p-2-D: Outlet where water returns to creek.

Any detailed or specific information needed, will be furnished upon request.

Thank You.

Yours truly
Edwin A. Balos

47-7053

May 18, 1970

Re: Permit No. 47-7053

Edwin A. and/or Echo M. Dalos
Route 4
Buhl, Idaho 83316

Gentlemen:

We are in receipt of the photographs that you submitted in connection with the above referenced permit.

We thank you for your assistance in this matter.

Very truly yours,

Donald W. McEldowney
Appropriation Supervisor

DWM/DG

47-7053

January 13, 1969

Re: Permit No. 47-7053

**Edwin A. and/or Echo M. Dalos
Route 4
Buhl, Idaho 83316**

Gentlemen:

You have submitted an application to appropriate and store waters of the State of Idaho. As a reminder, I wish to bring to your attention the requirements of Idaho Code 42-1707 concerning the submission of plans and specifications to the Department of Reclamation for approval.

The Code requires that any person, association, or corporation, excepting the U. S. Bureau of Reclamation, who shall desire to construct any dam or dike, for the purpose of storing or appropriating or diverting any of the waters of this state, when the same is to be more than ten feet in height or have a storage capacity of more than one hundred acre-feet, shall submit duplicate plans, drawings, and specifications of the proposed work to the Department of Reclamation for approval. If approval is granted one approved copy of such plan, drawing, or specification will be returned to you.

Also provided in the Code is an inspection clause which requires the Department of Reclamation to inspect or cause to be inspected as often as it deems advisable, any such dam or dike, to be more than twenty feet in height during construction.

The plans and specifications should provide as a minimum the following information:

- A. Drawings
 - 1. Dam profile
 - 2. Spillway profile
 - 3. Outlet work profile
 - 4. General plan view
 - 5. Section of dam or dike
 - 6. Section of spillway
 - 7. Location map
- B. Dimensions and Elevations
 - 1. Conduits and gates, dimensions and elevations
 - 2. Water surface elevations

47 7053

3. Slopes of embankment surface
4. Provide dimensions sufficient to determine if the design is adequate

C. Specifications

Specifications should provide standards of control to assure that construction is accomplished in such a manner as to provide a structure which will perform as designed. Spillway capacities and capacities of all water control structures shall be provided.

The Department of Reclamation purposely does not attempt to prescribe definite criteria for design and construction of dams or dikes. Codes cannot be made uniformly applicable to the widely varying conditions encountered at different dam sites, and such a code could inhibit advancement in the science of dam design and construction. Instead, the Department conducts an independent review of individual plans and specifications for each project, as submitted by the applicant's engineer to insure the use of sound engineering and construction principles.

Though it is not required by law, the Department of Reclamation suggests that you obtain the services of a licensed Professional Engineer to design the required structures and prepare plans and specifications. This will not only protect the public from an unsafe structure, but will also protect your investment by reducing the possibility of failure or damage to other parties.

Sincerely,

A. Kenneth Dunn
Assistant State Reclamation Engineer

AKD/jmb

January 13, 1969

Re: Permit No. 47-7053

Dept. of Fish and Game
Statehouse
Building

Gentlemen:

Enclosed you will find a copy of an application for permit to divert water which this office has approved. We thought that this permit might be of some interest to your office.

Very truly yours,

C. Stephen Allred, Assistant
State Reclamation Engineer

CSA:kh

Enclosure

47-7053

January 13, 1969

Re: Permit No. 47-7053

**Edwin A. and/or Echo M. Dalos
Route 4
Buhl, Idaho 83316**

Gentlemen:

We enclose a copy of your approved application for permit 47-7053
in which we direct your attention to the limitations and conditions as given
on the fourth page under approval of the State Reclamation Engineer.

Very truly yours,

C. Stephen Allred, Assistant
State Reclamation Engineer

CSA:kh

**Enclosures: Copy of application
Receipt No. 2278 for \$90.
1 informational letter**

47 7053

November 21, 1968

Re: Application No. 47-7053 - Edwin A. and/or Echo M. Dalos
Application No. 47-7054 - Mr. and Mrs. Jed Smith
Carl J. and/or June Dalos - Application No. 47-7055

Buhl Herald
Box 312
Buhl, Idaho 83316

Gentlemen:

Enclosed you will find a legal notice which we wish to have published once a week for two consecutive weekly issues of your newspaper. We have inserted the publication dates allowing ample time for you to submit us a galley proof for review before publication.

After sending us a galley proof, proceed with the publication on the dates we have inserted assuming the notice is correct. If we have any corrections, we will notify you before the first publication date. If you can not publish the notice on the proposed dates please contact us immediately.

An affidavit of publication must be submitted to the Department of Reclamation, along with the publication bill. In order to receive payment, the following certification must appear on the bill:

I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of same has been paid.

Signature of claimant

Very truly yours,

Donald W. McEldowney
Appropriation Examiner

DWM:ks
enclosure: legal notice

47 7053

RECEIVED

NOV 26 1968

Department of Reclamation

Galley ONE

LEGAL

**NOTICE OF APPLICATION
FOR WATER**

Notice is hereby given that Edwin A. and/or Echo M. Dalos, Route No. 4, Buhl, Idaho, has on November 1, 1968, applied for permit under application No. 47-7053 to divert 15.0 cubic feet per second of water from an unnamed stream, tributary of the Snake River. Water will be diverted by concrete checks, pipe, and fish ponds within the SE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 9, T. 9 S, R. 15 E, B.M., Twin Falls County and is to be used from January 1 to December 31 for fish propagation in the SE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 9, T. 9 S, R. 15 E, B.M.

Any protest against this application must be filed with the Department of Reclamation within ten days from the last date of publication of this notice.

R. KEITH HIGGINSON

State Reclamation Engineer

Published in the Buhl Herald, Buhl, Idaho, on November 28 and December 5, 1968.

(46t2)

47 7053

NOTICE OF APPLICATION FOR WATER

Notice is hereby given that Edwin A. and/or Mcho M. Dalos, Route #4,
Buhl, Idaho has on November 1, 1968
applied for permit under application No. 47-7053 to divert ~~1000~~
15.0 cubic feet per second ~~1000~~ of water from an unnamed
stream, tributary of the Snake River. Water will be diverted by concrete
checks, pipe, and fish ponds within the SE $\frac{1}{4}$ SE $\frac{1}{4}$,
sec. 9, T. 9 S. R. 15 E, B.M., Twin Falls County
S
and is to be used from January 1 to December 31 for
fish propagation
in the SE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 9, T. 9 S, R. 15 E, B.M.

Any protest against this application must be filed with the Department of
Reclamation within ten days from the last date of publication of this notice.

R. KEITH HIGGINSON
State Reclamation Engineer

Published in the Buhl Herald, Buhl, Idaho,
on November 28 and December 5, 1968.

47 7053