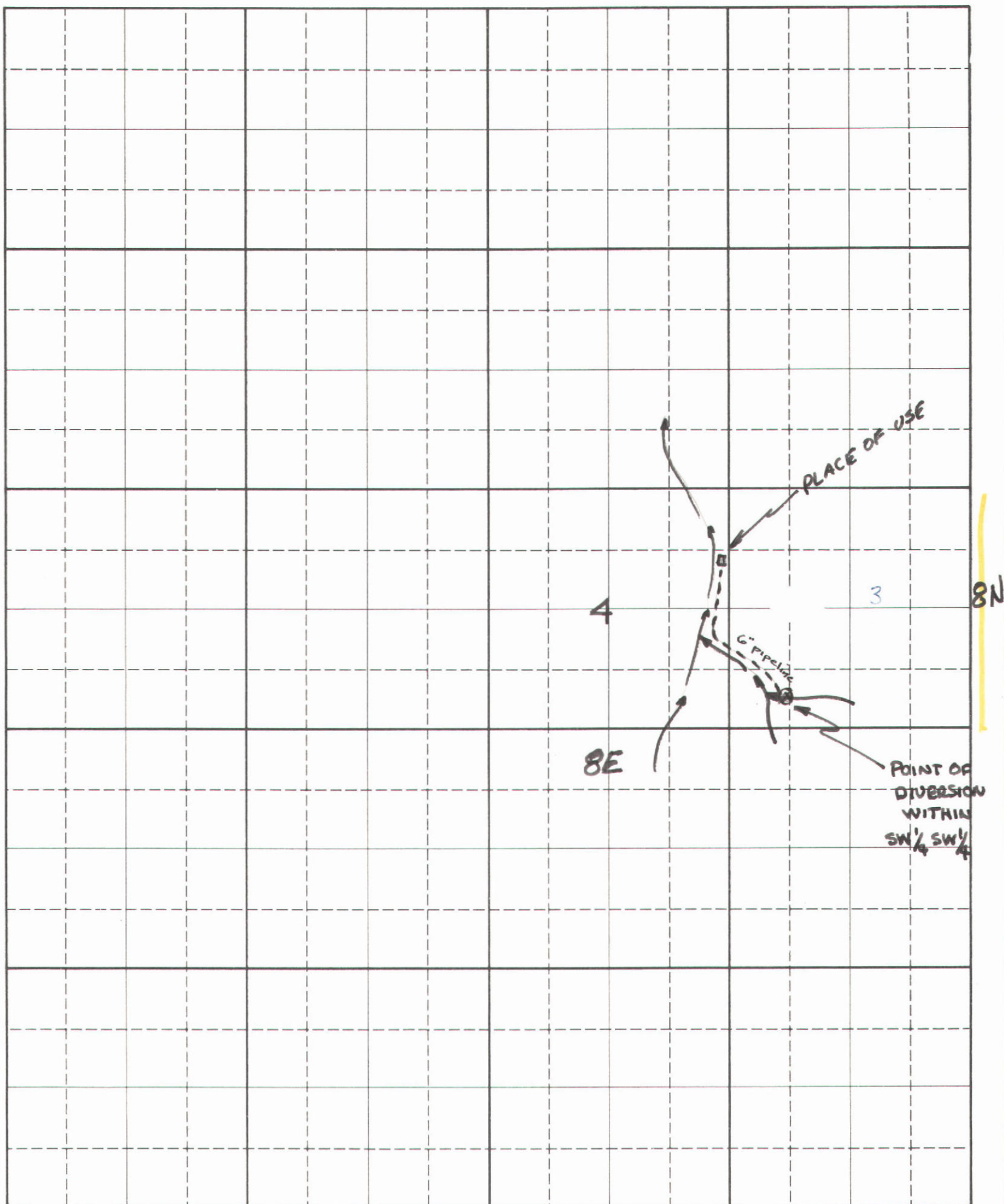


11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile

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

Robert R. Fisher
(Applicant)

DEC 26 1974

STATE OF IDAHO)
) ss.
COUNTY OF ADA)

**NOTICE OF APPLICATION
FOR WATER PERMIT**
Notice is hereby given that
ROBERT FARBER &/OR CA-
ROL FARBER General Deliv-
ery, Lowman, Idaho, has on
May 28, 1974 submitted Appli-
cation No. 65-7488 for a permit
to appropriate 0.70 cubic feet
per second of water from Ar-
chie Creek by means of grav-
ity system, pipeline, sprin-
klers, and home and pelton
wheel within the SW 1/4 SW 1/4,
Sec. 3, T. 8 N., R. 8 E., B.M.
Boise County, to be used from
Jan. 1 to Dec. 31 for domestic
and power use and from April
15 to Oct. 15 for irrigation of 2
acres within the SW 1/4 NE 1/4,
Sec. 4, T. 8 N., R. 8 E., B.M.
If issued, this permit will be
subject to all prior water
rights. Protests against the
granting of the permit must be
filed with the Idaho Depart-
ment of Water Resources,
Statehouse, Boise, Idaho,
83720, on or before December
30, 1974.
R. KEITH HIGGINSON
Director
Pub. Dec. 12, 19, 1974 484

Dorothy Eiguren, being duly
sworn, deposes and says: That she is the Principal
Clerk of The Idaho Statesman, a daily newspaper
printed and published at Boise, Ada County, State
of Idaho, and having a general circulation therein
and which said newspaper has been continuously and
uninterruptedly published in said County during a
period of twelve consecutive months prior to the
first publication of the notice, a copy of which
is attached hereto; that said notice was published
in the regular edition of The Idaho Statesman for

two ~~consecutive~~ insertions, beginning with the
issue of December 12, 1974, and ending with the
issue of December 19, 1974.

Dorothy Eiguren

Subscribed and sworn to before me this 21st
day of December, 19 74.

OK
12-26-74
CR

Jana A. Young

Notary Public for Idaho, Residing at Boise, Idaho

MICROFILMED

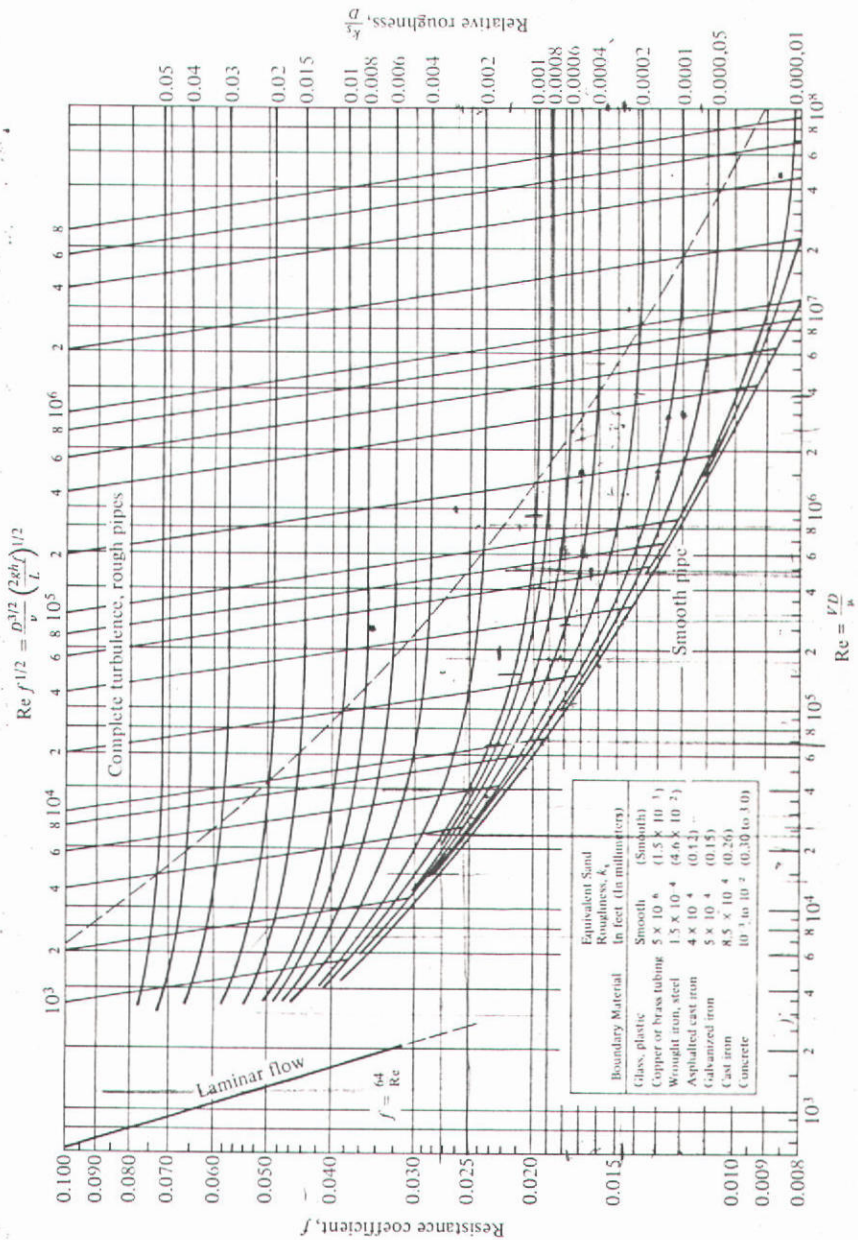
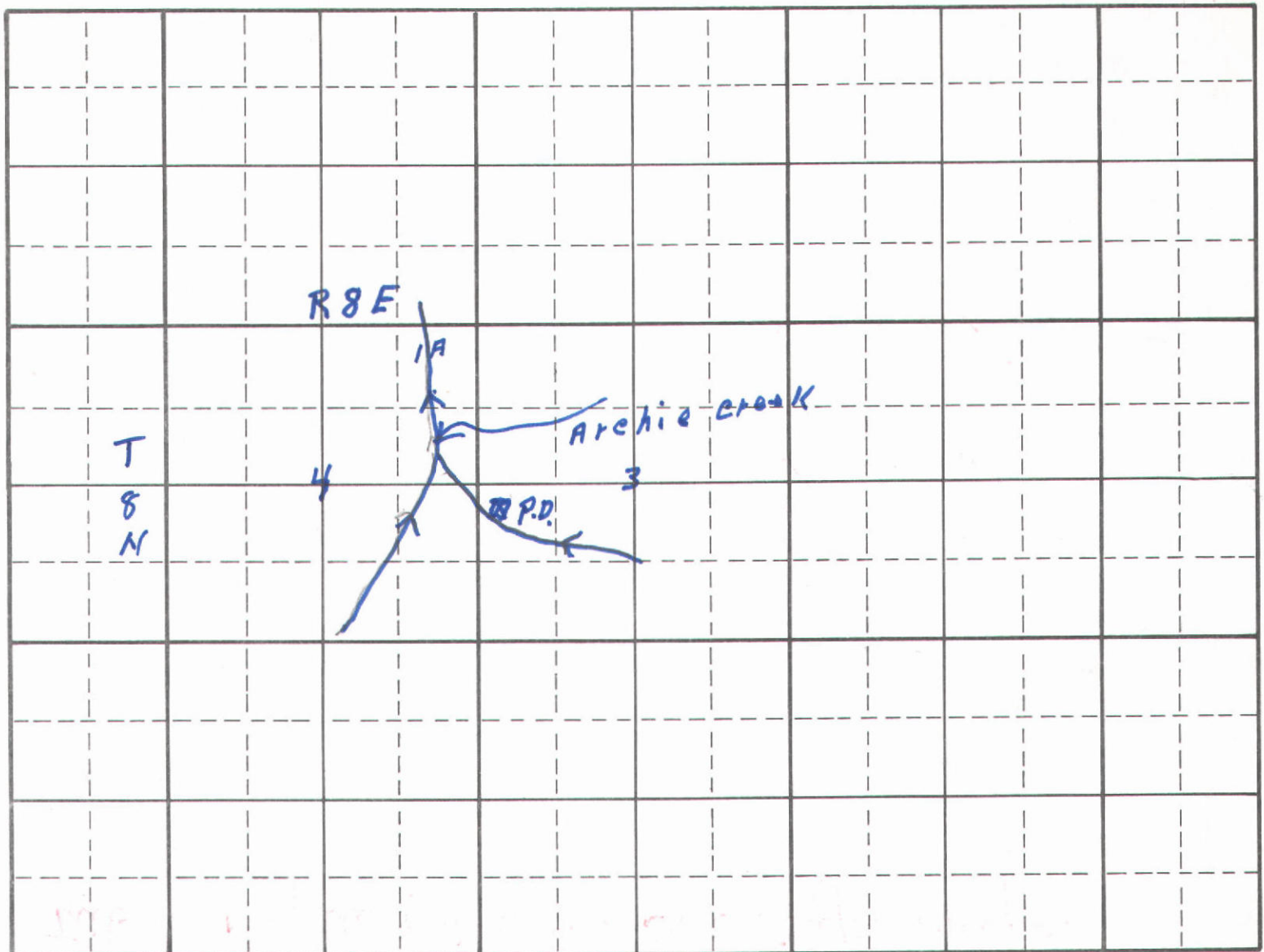


FIGURE 10-8 Resistance coefficient f vs. Re . Reprinted with minor variations. [After Moody (12). Reprinted with permission from the A.S.M.E.]

MAP (Attach Aerial Photo)



SCHEMATIC DIAGRAM OF SYSTEM

(Include distance from pump to measuring device, if applicable.)

Point(s) of diversion: NWSW Sec 3 T8N R8E

Place(s) of Use

TWP.	RGE.	SEC.	NE%				NW%				SW%				SE%				TOTALS
			NE%	NW%	SW%	SE%	NE%	NW%	SW%	SE%	NE%	NW%	SW%	SE%	NE%	NW%	SW%	SE%	
8N	8E	4	1																1

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

Examiner's Signature John K. Meyer

Checked by DBS

Approved by [Signature]

Date 12/13/80

Date 12/10/80

Date 5/20/82

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No 65-7488 Priority May 28, 1974 Amount 0.67 cfs

THIS IS TO CERTIFY, that Robert R. &/or Carol Farber
of Lowman, Idaho, has complied with the terms and conditions of Permit
No. 65-7488 issued pursuant to Application for Permit dated May 28, 1974,
and has submitted proof to the Department of Water Resources on November 19, 1979,
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 0.67 cfs of water from Archie Creek,
tributary to Payette River, South Fork and that the permit holder has applied to a beneficial use and
established a right to use water as follows

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
Irrigation	from <u>April 15</u> to <u>October 15</u>	at <u>0.03</u> cfs and	<u>3.0</u> acre feet
Domestic	from <u>January 1</u> to <u>December 31</u>	at <u>0.02</u> cfs and	<u>1.2</u> acre feet
(1 unit) Power	from <u>January 1</u> to <u>December 31</u>	at <u>0.02</u> cfs and	<u>n/a</u>

(both dates inclusive)

Subject, however, to the condition that no more than 0.67 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
4.2 acre feet per year, said waters to be diverted within the NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 3, Twp.
8N, Rge. 8E in the County of Boise

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 $\frac{1}{4}$	
8N	8E	4	1																1

Total number of acres irrigated 1

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 29th day of
July, 19 82.

For the Director

STATE OF IDAHO
L I C E N S E
APPLICATION FOR AMENDMENT OF A PERMIT

To change the point of diversion and/or the place of use.

Comes now ROBERT R. &/OR CAROL FARBER Phone _____
of (address) Lowman, Idaho , and represents to the
Director of the Idaho Department of Water Resources:

That he is the owner and holder of Permit to appropriate the Public Waters of the State of Idaho
No. 65-7488 , and requests that the permit and permit map be changed as follows:

1. Point of diversion: NW ¼ SW ¼, Section 3 , Township 8N , Range 8E , B.M.,
County of Boise . Other points of diversion: _____

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

Amount .03 for Irrigation purposes from April 15 to Oct. 15 (both dates inclusive)
(cfs or acre feet per annum)

Amount .02 for Domestic purposes from January 1 to Dec. 31 (both dates inclusive)
(cfs or acre feet per annum) (1 unit)

Amount .62 for Power purposes from January 1 to Dec. 31 (both dates inclusive)
(cfs or acre feet per annum)

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

TOTAL .67 cfs

3. Place of use or land to be irrigated:

TWP	RGE	SEC	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
8N	8E	4	1																1

Total number of acres to be irrigated = 1

4. a. Who owns the property at the point of diversion? _____
b. Who owns the land to be irrigated or the place of use? _____
c. If the property is owned by a person other than the applicant, describe the arrangement enabling the
applicant to make this filing: _____

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 holder's own risk.

Signed at

to day of this 28/

(Signature)

FOR DEPARTMENT USE ONLY

Fee = \$20.00

Received by

Date _____

6/28/82 #24011

Preliminary check by

Publication prepared by NR Date

Date _____

Published in

Publication dates

ACTION OF THE DEPARTMENT OF WATER RESOURCES

A. KENNETH DUNN

APPROVE the above Application for Amendment of Permit No. 65-7488.

Witness my hand this

day of

July

78

For the Director

DR

Identification No. _____

Application No. 65-7488

STATE OF IDAHO
DEPARTMENT OF WATER ADMINISTRATION

APPLICATION FOR PERMIT

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

APPROVED

1. Name of applicant Robert^R Farber &/or Carol Farber
post office address General Delivery, Lowman, Idaho
2. Source of water supply Archie Creek which is a tributary of _____
- 3 a Location of point of diversion is SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 3 Township 8N
Range 8E B.M. Boise County; additional points of diversion if any: _____

- b. If water is not consumed, it will be discharged into _____ at a point in _____ $\frac{1}{4}$
of _____ $\frac{1}{4}$ of Section _____ Township _____ Range _____ B.M. _____
4. Water will be used for the following purposes:
Amount 0.02 for Domestic purpose from Jan 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)
Amount 0.04 for Irrig. purpose from Apr 15 to Oct. 15 (both dates inclusive)
(cfs or acre-feet per annum)
Amount 0.64 for Power purpose from Jan 1 to Dec. 31 (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:
a 0.70 cubic feet per second and/or
b _____ acre feet per annum.
- 6 Proposed diverting works
a Description of ditches, flumes, pumps, headgates, etc. Gravity, pipeline from point of diversion
in creek to sprinklers, home and pelton wheel.

- b. Height of storage dam _____ feet, active reservoir capacity _____ acre feet; total reservoir
capacity _____ acre feet, materials used in storage dam: _____
Period of year during which storage will occur _____ to _____ 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 \$ _____.
- 8 Description of proposed uses
a If water is **not** for irrigation
(1) Give the place of use of water SW $\frac{1}{4}$ of NE $\frac{1}{4}$ of Section 4 Township 8N
Range 8E 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 one _____, or number of families to be
supplied with domestic water _____
(5) If water is to be used for other purposes describe power

MICROFILMED

[illegible]

c Describe any other water rights used for the same purposes as described above _____

9 a. Who owns the property at the point of diversion — U.S.F.S.

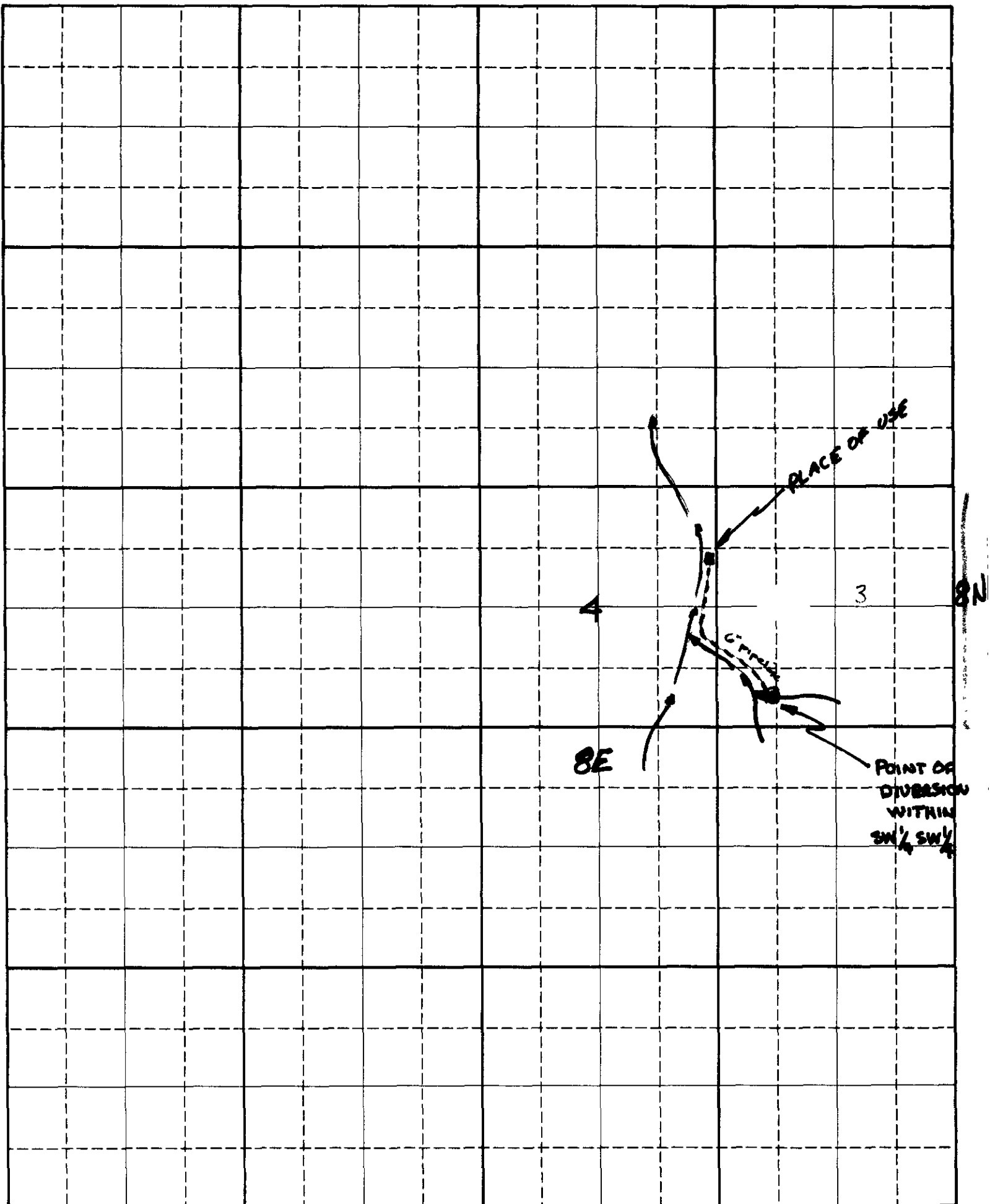
b. Who owns the land to be irrigated or place of use _____ Applicant _____

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

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



Scale. 2 inches equal 1 mile

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

Robert L. Tuben
(Applicant)

Received by KHF Date 6/28/74 Time 2:45 PM
Preliminary check by KHF Fee \$ 10.00
Receipted by ej Date 5/28/74 Rest # 14510
Publication prepared by Ca Date 12-6-74 # 15322 - \$ 15.00
Published in Idaho Statesman SW 11-14-74
Publication dates Dec 12 & Dec 19
Publication approved Ca Date 12-26-74
Priority reduced to _____ Reason _____

Protests filed by _____

Copies of protests forwarded by _____
Hearing held by _____ Date _____
Recommended for (approval) denial by DOT

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER ADMINISTRATION

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 65-7488, 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, 1980.
- c. Other: A measuring device of a type approved by this Department shall be permanently installed and maintained as part of the diverting works.

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

Witness my hand this 9 day of January 19 75.


Director

DEPARTMENT OF WATER ADMINISTRATION
- STAFF ANALYSIS -

Item	Initial	Date	
(1)	<u>CB</u>	<u>31 May 74</u>	Application No. <u>657488</u>
(2)			☒ Source ☒ Point of Diversion ☒ County ☒ Quantity of Water and Period of Use ☒ Description of Diverting Works ☒ Time required for B/U of water ☒ Place of Use or Acres Irrigated ☒ Map ☒ Signature → ☒ Fee <u>short \$15.00 (25.00 from 2 to 1 ds)</u>
(3)	<u>NA</u>	<u>11-15-74</u>	In form to receipt Send Copies to: ☐ Idaho State Health Department ☐ Idaho Fish and Game Department ☐ Bureau of Land Management
(4)	<u>CB</u>	<u>12-3-74</u>	☒ Request Special Use Permit from U.S.F.S. ☐ Request Easement from B.L.M. ☒ Request Information from Applicant <u>see 42-206-nad</u> <u>received CB</u> <u>proof of Ida residence</u>
(5)	<u>CB</u>	<u>12-3-74</u>	In form for advertising
(6)		<u>NA</u>	Located within Water District No. _____
(7)		<u>NA</u>	Critical groundwater area: yes _____ no _____
(8)		<u>NA</u>	Groundwater levels: ____ Decline (comment) _____ ____ Stable (comment) _____ ____ Increasing (comment) _____
(9)			Comments: _____
(10)	<u>OK</u>	<u>12-26-74</u>	Affidavit of Publication received (date) <u>OK</u>
(11)	<u>R.W.H.</u>	<u>12-30-74</u>	Final date for protests <u>12-30-74</u> Protests received: yes _____ no ☒
(12)		<u>NA</u>	Date and Place of hearing _____ Decision reached at hearing _____
(13)	<u>R.W.H.</u>	<u>12-30-74</u>	All requested information received from agencies or applicant yes ☒ no _____
(14)	<u>R.W.H.</u>	<u>12-30-74</u>	Action recommended: ☒ Approve Priority _____ ☐ Deny Reason for Reduction _____ ☒ Measuring device required ☐ See attached sheet for additional conditions of approval ☐ No additional conditions for approval
(15)	District <u>Western</u>	By <u>R. Hamilton</u>	Date <u>12-30-74</u>

MICROFILMED

1975
Department of Water Resources

STATE OF IDAHO)
COUNTY OF ADA) ss.

Dorothy Eiguren, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in the regular edition of The Idaho Statesman for two ~~consecutive~~ insertions, beginning with the issue of December 12, 1974, and ending with the issue of December 19, 1974.

Dorothy Eiguren

Subscribed and sworn to before me this 21st day of December, 19 74.

OK.
12-26-74
CR

Louise B. Young

Notary Public for Idaho, Residing at Boise, Idaho

MICROFILMED

August 6, 1982

RE: Permit No. 65-7488

Robert R. &/or Carol Farber
General Delivery
Lowman, ID 83637

Dear Mr. and Mrs. Farber:

Enclosed herewith is a copy of your Water Right License issued on the above referenced permit along with a copy of your approved application for amendment.

Should you have any questions regarding these documents, please feel free to contact our office.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

JJ:kw
Enclosures



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

June 1, 1982

RE: 65-7488

Robert R. &/or Carol Barber
General Delivery
Lowman, ID 83637

Dear Mr. & Mrs. Farber:

A representative of this Department made an examination of the works covered by your Permit No. 65-7488 and has found the following:

Amount of water that can be recognized as beneficially used under Idaho law: .67 cfs Source: Archie Creek

The maximum quantity diverted shall not exceed 4.87 acre feet per year.

Point of diversion: NW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 3, T. 8N, R. 8E

Beneficial use: Domestic for one unit; power and irrigation use for one acre in the NE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 4, T. 8N, R. 8E

Priority date established: May 28, 1974

In order for the Department to issue the above license, it will be necessary for you to amend the permit to correspond with the findings of the field examiner. We are enclosing a partially completed amendment form for your use in this matter.

Please sign the amendment application and return it to this office along with a \$20.00 filing fee within 30 days in order that we might issue your license as set forth above. If you do not concur with these findings or have any questions, please contact us within the 30-day period.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

JJ:kw
Enclosure

*(Western) See called - is
send amendment
Today 7/8 82 RC*

COMPUTATION CHECK by DRT 6-7-82

Given: Static Head = 110 lbs per in²
 Length of Pipe = 3300 ft
 Total Head = 250 ft
 Diameter of Pipe = 6"
 Nozzle diameter = 1"
 Eff of System = 80%

To FIND: Reasonable estimates of rate of flow & Power output
 Check calculations made by permit holder (see file 65-7488)

SOLUTION:

1. Check total head.

Static head = 110 psia This was provided by permit holder
 [change to feet to compare w/permit holders STATEMENT OF HEAD HEIGHT]

$$110 \frac{\text{lb}}{\text{in}^2} \times 144 \frac{\text{in}^2}{\text{ft}^2} \times \frac{1 \text{ ft}^3 \text{ H}_2\text{O}}{62.4 \text{ lb H}_2\text{O}} = \underline{254 \text{ ft}}$$

254 ft $\approx$ 250 ft given. ✓ [Height at 250 ft is reasonable]

2. Estimate pipe friction loss

[Velocity at] → Assume $V_{\text{nozzle}} = 113.41$ (as computed by Farber)
 [V AT] → $A_{\text{nozzle @ 1" diam}} = 36$ $A_{\text{pipe @ 6" diam}} = [36 = 6''^2]$

$$\therefore V_{\text{nozzle}} = 36 V_{\text{pipe}}$$

$$V_{\text{pipe}} = \frac{113.41}{36} \approx 3.15 \text{ fps [at P/D]}$$

WATER DIVERTED FROM STREAM INTO 6" PIPE

MICROFILMED

Per Darcy - Weisbach equation,

$$h_f = f \frac{L}{D} \left(\frac{V^2}{2g} \right)$$

f = friction coefficient

$$= f \frac{3300}{.5} \left(\frac{3.15^2}{64.4} \right)$$

To compute f , first find Reynolds No = $Re = \frac{VD}{\nu}$

$$V = 3.15 \text{ ft/sec}, D = 5 \text{ ft}, \nu = 1.41 \times 10^{-5} \frac{\text{ft}^2}{\text{sec}}$$

V = velocity at P/D

D = Pipe diameter

ν =

$$Re = \frac{(3.15 \text{ ft/sec})(.5 \text{ ft})}{1.41 \times 10^{-5} \frac{\text{ft}^2}{\text{sec}}} = 1.12 \times 10^5$$

$\therefore$ from the table, $f = .0175$
(Attached)

$$h_f = .0175 \frac{3300}{.5} \left(\frac{3.15^2}{64.4} \right) = 17.8 \text{ ft} \quad \left[\begin{array}{l} \text{HEAD LOSS TO} \\ \text{PIPE FRICTION} \end{array} \right]$$

Nozzle loss has $K_e = 0.10$

$$h_{\text{nozzle}} = K_e \frac{V^2}{2g} = 0.10 \left(\frac{3.15^2}{64.4} \right) = .02'$$

$$\therefore \text{Losses total} \approx 20' = h_f + h_{\text{nozzle}} = 17.8 + .02 \approx 20'$$

Total head = 250'

Net Head = $> 200'$

Use this value to check further calcs

MICROFILMED

$$H = \frac{V^2}{2g}$$

$$g = \text{gravity} = \frac{32.16 \text{ ft}}{\text{sec}^2}$$

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

$$V = \sqrt{2(32.16 \frac{\text{ft}}{\text{sec}^2})(200 \text{ ft})}$$

$$= 113.41 \text{ ft/sec}$$

for 1" nozzle,

← [This confirms permit holders
V at generator]

$$Q = VA = (113.41) \left(\pi \left(\frac{1}{24} \right)^2 \right) = \underline{.62 \text{ cfs}} \quad \left[r \text{ of } 1" \text{ pipe} = .5" = \frac{1}{24}' \right]$$

Now check to see if 200 ft head can be achieved.

This is the case if total head losses $\leq 50 \text{ ft}$.

The main loss is in the 6" pvc. flow rate in this pipe is as follows

$$V_{6" \text{ pipe}} A_{6" \text{ pipe}} = V_{1" \text{ nozzle}} A_{1" \text{ nozzle}}$$

$$V_{6" \text{ pipe}} = V_{1" \text{ nozzle}} \left(\frac{A_{1" \text{ nozzle}}}{A_{6" \text{ pipe}}} \right) = 113.41 \frac{\pi \left(\frac{1}{24} \right)^2}{\pi \left(\frac{1}{4} \right)^2} = \underline{3.15 \text{ fps}}$$

This velocity was used to make the first calc of friction loss, so the quantities are O.K.

∴ Use 0.62 cfs as a flow.
DET

MICROFILMED

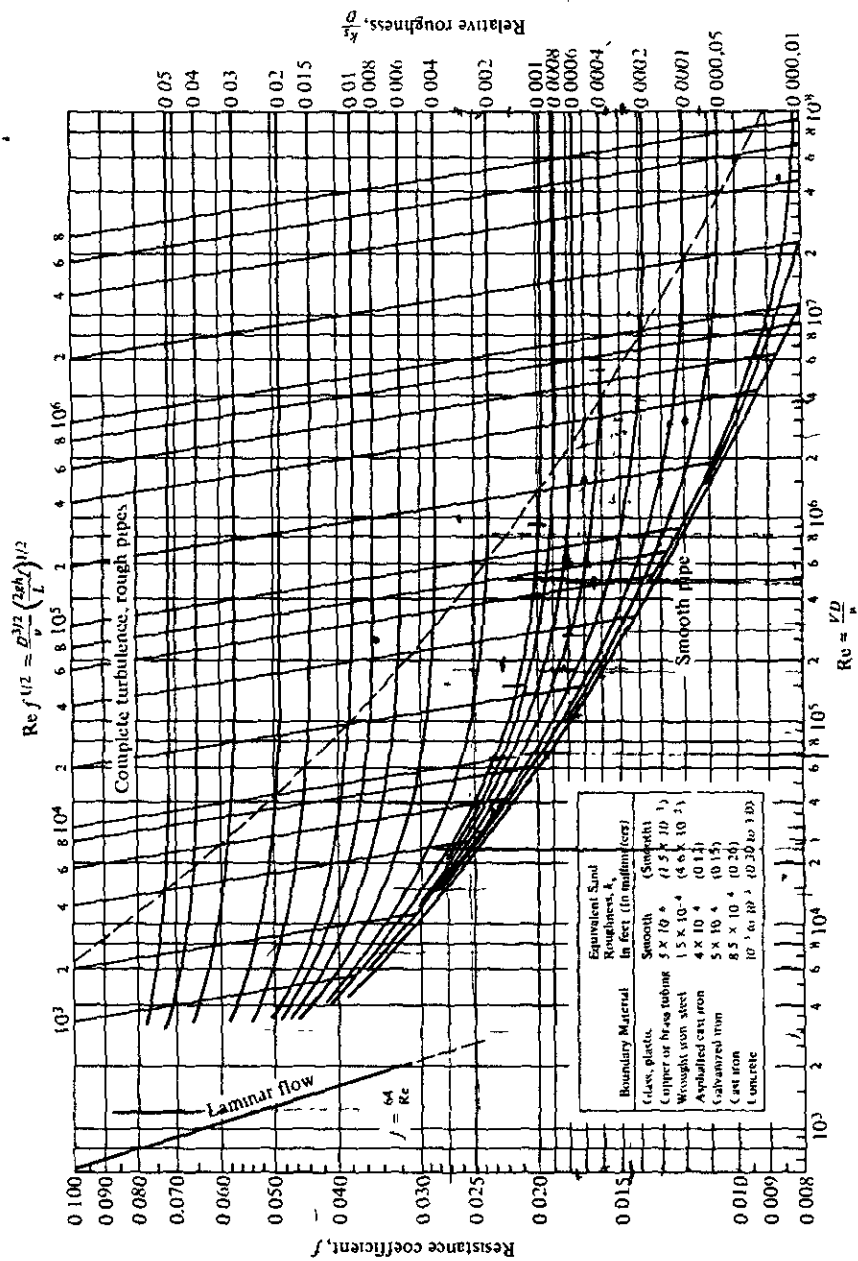


FIGURE 10-8 Resistance coefficient f vs Re Reprinted with minor variations [After Moody (12) Reprinted with permission from the A.S.M.E.]

State of Idaho
DEPARTMENT OF WATER RESOURCES
FIELD REPORT

65-7488

Permit No.

CONTACT WITH PERMIT HOLDER

	DATE	INITIALS	REMARKS
☐ Appointment letter mailed:			
☐ Telephone call made: (List Telephone No. used)			
☐ Appointment scheduled for: (Date, time, location)	10/8/80	JKN	

EXAMINATION

Date 10/8/80 Accompanied by Robert Forber Total Q measured _____
If source is surface water, estimate total flow of source Est 10 cfs
Methods of measurement calc. est. Meets Permit requirements? yes

Measurement calculations:
 $IRF. 1A \times .03 = .03 cfs$ $3AF \times 1 = 3AF$ $3300' \times 6" PVC = 250 Total hd$
 $Domestic. Single domestic except .02 cfs$ $1.2 AF$ $PSI = 160$ $SDR = 26$ $TD = 6.115$ $H = 11.5 ft$
 $Power - 278 GPM \times .00228 = .62 cfs$ $See attached data for power calculations$

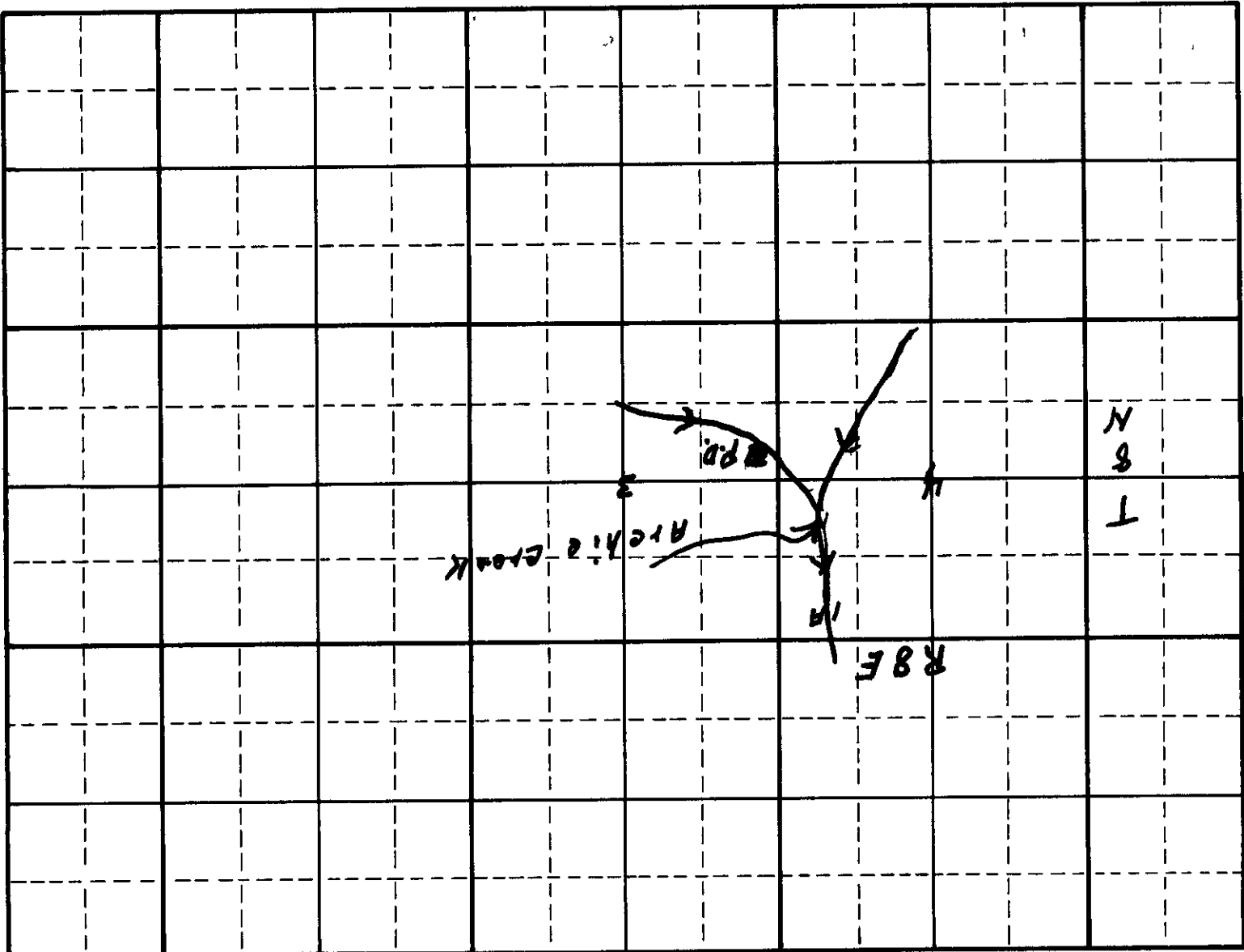
WELL/DIVERSION* NO.	HP	MOTOR MAKE	MOTOR SERIAL NO.	PUMP MAKE	PUMP SERIAL NO.	MEASURING DEVICE TYPE	CONDITION OF MEAS. DEV.	REMARKS
Trib is Payette River as per USGS maps								

System Description 3300' - 6" PVC line to place of use. Power plant & power lines to house & shop. Sprinkler irrigation. 15 lbs 9/64 nozzles. Back dam & filter system at inlet
*Code with map on reverse side. Disregard code if only one.

RECOMMENDED AMOUNTS USE	Irrigation requirement =		AFA/Acre	
	Q (cfs)	V (afa)	FROM	TO
Domestic	.02 ✓	1.2 ✓	1/1	12/31
Irrigation	.03 ✓	3.0 ✓	4/15	10/15
Power	.62 ✓	N/A ✓	1/1	12/31
Total	.67 ✓	4.2 ✓		

Remarks
See attached letter for waiver on measuring device & calculations on power plant.
Seven houses are on domestic system - needs to file application for 6 houses on 10 acre service land. Note: a applicant filed for 6 domestic & 10 acres irrigation 11/7/80

MAP (Attach Aerial Photo)



SCHEMATIC DIAGRAM OF SYSTEM

(Include distance from pump to measuring device, if applicable.)

Point(s) of diversion: NWSW 8th 3 T&N R&E

Place(s) of Use

TWP	R&E	SEC	NE%	NW%	SE%	SW%	NE%	NW%	SE%	SW%	NE%	NW%	SE%	SW%	TOTALS
8N	8E	4	1												1

Recommended Amendments:

- ☐ Add P.D., as reflected above
☐ Add P.U., as reflected above
☐ None
☐ Other

Examiner's Signature

Checked by DBS

Approved by

[Signature]

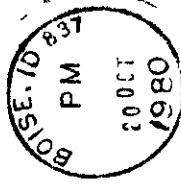
Date
Date
Date

12/13/80

12/10/80

5/20/82

Bob Farber
Lowman ID
83637



State of Idaho
Department of Water Resources
Western Region
92 South Cole Rd.
Boise ID. 83709

From BOB Fisher Re Permit
Lowman ID. # 65-7488

Oct 17-80

To: Department of Water Resources
Attn: C. Stephen Allred Director

Dear Sir:

I Am writing in regard to the Permit Application # 65-7488 For my project in Lowman and as instructed by a letter from John K. Noyes indicating that I should request waiving the measuring device required by said permit.

AFTER much searching in the past I have not located such a device that would work satisfactorily, since they do tend to restrict flow & along with normal line restriction due to friction loss this would cause a loss in peak power production at the turbine.

So I do request this requirement be waived from the permit at this time.

Also find enclosed as per request a sheet of calculations on the plant I hope this will serve the purpose if not please let me know & I will try to comply with your request.

I believe they should do however as its a simple matter to determine flow rate by standard formulas. Thank you for considering this matter Yours Truly BL Fisher

Calculations for Dept of Water Records

By BOB FARBER RE/ LUMMAN 10 - ARCHIE CR. Permit #65-7488

$$200' \text{ net Head} \times .434 = 86.62 \text{ LBS}$$

Specific Gravity Value is (G.H.) 32-16

$$\text{Formula} = \sqrt{2 \text{ GH} \times \text{Head}} = \text{Velocity in Feet Per Sec. in my case} \\ = 113.41 \text{ ft Per Sec. with } 1" \text{ nozzle} = .62 \text{ CFS}$$

$$\text{Value} = 1\text{-CU FT WATER} = 7.48 \text{ Gals weight is } 62.4 \text{ LBS.}$$

$$\text{Value} = .62 \text{ CFS} \times 60 = 37.2 \text{ CFM. or } / \times 7.48 = 278 \text{ GPM.}$$

Power From This is Determined By

$$\text{Formula} = \text{GROSS H.P.} = \frac{62.4 \times \text{CU FT MIN} \times \text{HEAD in ft}}{33000} = \text{GROSS H.P.}$$

$$\text{Using EFFINCY FACTOR of } .80 \text{ Net H.P.} \quad \begin{array}{r} \text{value of} \\ 33000 \\ \times .80 \\ \hline = \text{Net} \end{array}$$

$$\text{my case} \quad 62.4 \times 37.2 \times 200 \text{ ft.} = 33000 = 14.06 \text{ GROSS H.P.} \\ \times .80 \\ \hline = 11.25 \text{ Net H.P.}$$

$$\text{Value } 1\text{-HP} = .7455 \text{ KW.} \\ 1\text{-KW} = 1.34 \text{ HP.}$$

$$\text{Result } 11.25 \text{ Net H.P.} \\ \times .7455 \\ \hline \text{Result } 8.38 \text{ KW}$$

Equip used to capture this is - 15" PELTON TURBIN
connected to master 10 KW Gen which produces
8.38 KW in my case -

NOTE: AFTER PASSING THRU TURBINE RUNNER
velocity of water is "0" & is returned to
ARCHIE CREEK VIA small canal completely
as pure as when it ENTERED the pipe line
pen stock

RECEIVED



State of Idaho

DEPARTMENT OF WATER RESOURCES

WESTERN REGION, 92 South Cole Road, Boise, Idaho 83709

JOHN V. EVANS
Governor

C. STEPHEN ALLRED
Director

November 25, 1980

(Office at the corner of
Franklin and Cole Roads)

(208) 384-2190

RECEIVED
DEC 3 1980

Department of Water Resources
Western Regional Office

Robert Farber
c/o General Delivery
Lowman, ID 83637

Dear Mr. Farber:

In drawing up a rough draft license for Permit 65-7488, I find additional information is needed.

What is the total length of the 6 inch PVC line from the source to your power plant?

What is the total head of the 6 inch pipeline?

If you will please furnish this information, I can complete the license.

Sincerely

John K. Noyes

JOHN K. NOYES
Senior Water Resource Agent

JKN:aje

Answer to question #1 3300 ft.

#2 250' Total Head

NOTE: Static Pressure AT Power Plant with valve shut off
is 110 LBS.

RECORDED

12/10/80
DBS

65-7488 check calculations:
Assume 0.67 cfs & 300 gpm

Pipe loss in 6" PVC = 6.2' / 1000'

Total head = 250' with 3300 ft pipe.

Head less pipe loss = $250 - (6.2)(3.3) \approx 230'$

For power production $Q = 0.62$
& $H \times Q = 230 \times 0.62 = 142.6$

From chart @ 50% for nozzle & pelton
wheel efficiency $KW = 6.5$ & $HP = 8.7$

HP. ~~put~~ on applicants calculations probably
overstated. Total diversion of 0.67
and power diversion of 0.62 is also
probably overstated but use is
non consumptive & no known conflicts.

MAINTENANCE

Power Calculations

$$P = \text{Power, kW} = 8.38 \text{ kW}$$

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

$$H = \text{ft} = 200 \text{ ft}$$

$$e = \text{efficiency} = 80\%$$

$$Q = \frac{P(11.8)}{He} = \frac{8.38(11.8)}{200 \times .8} = \frac{98.884}{160} = .62 \text{ cfs}$$

1/0 Volume - nonconsumptive

RC $\frac{5/20}{82}$

DEPARTMENT OF WATER RESOURCES

The Idaho Department of Water Resources will consider this card as a statement that the permit holder(s) has completed development to the extent shown below of Permit No 65-7788

Name(s) of Permit Holder: Robert R. Farber

Post Office Address: Box 3143

Boise IDA. 83703

Tel. No. _____

Source of Water: Archie CR.

Extent of Use:

☒ Domestic

(number of households)

☐ Stockwater

(number and type of)

☒ Irrigation

(acres)

☐ Other Power

Measuring Device: Required? ☒ Yes ☐ No

Installed? ☒ Yes ☐ No

Access Port: Required? ☐ Yes ☒ No

Installed? ☐ Yes ☐ No

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

11/12/79
Date

Robert R. Farber
Signature of Permit Holder

RECEIVED

Bob Farber
Box 1744
Benton Wyo 82501



RECEIVED

NOV 19 1979



~~Department of Water Resources~~

IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 373 W. Franklin Street, Boise, Idaho

JOHN V. EVANS
Governor

C. STEPHEN ALLRED
Director

Mailing address
Statehouse
Boise, Idaho 83720
(208) 384-2215

October 31, 1979

101484

Robett R. and/or Carol Farber
General Delivery
Lowman, ID 83637

Dear Mr. and Mrs. Farber:

One of the conditions of approval of your water Permit No. 65-7488 was that evidence of the extent of development must be submitted to this office on or before January 1, 1980. (See last page of your approved permit). Enclosed is a post card which may be used to submit the required proof of beneficial use.

If you have not fully completed your project, and you have not previously received an extension of time, you may request an extension of time provided the delay is for reasonable cause as indicated in Section 42-204, Idaho Code, amended. If you have been prevented from proceeding by a governmental agency or by litigation, more than one extension of time can be granted.

Either the beneficial use post card or a request for an extension of time must be received by this Department on or before the above mentioned date, otherwise, the permit will lapse and be of no further force or effect within 60 days.

Sincerely,

Rita Fleck
RITA FLECK
Sr. Secretary

Enc: 1

MICROFILMED

June 3, 1974

Robert Farber
General Delivery
Lowman, ID 83637

Re: Application for Permit No. 65-7488

Dear Mr. Farber:

We can continue processing your application after receipt of an additional \$15.00. The required fee for an application of 0.70 c.f.s. is \$25.00 and we failed to charge the correct amount when you filed the application for permit.

You must also furnish us with a copy of an easement granted by the U. S. Forest Service to establish the point of diversion and cross their land with your pipeline.

In addition to the easement, we cannot grant a permit to appropriate water in the State of Idaho for power to any person or persons who are not actual bona fide residents of the state, therefore you need to furnish the department with proof of your residency, Sec. 42-206, Idaho Code.

We regret the delay, but will act to process your application as quickly as possible after the requirements are fulfilled.

If you have any questions, please do not hesitate to contact this office.

Sincerely,

KENNETH H. FOIT, P. E.
Western District Engineer

KHF:df

January 14, 1975

Re: Permit No. 65-7488

Mr. & Mrs. Robert Farber
General Delivery
Lowman, Idaho 83637

Dear Mr. & Mrs. Farber:

Enclosed is a copy of your approved Application for Permit No. 65-7488. We direct your attention to the conditions of approval as listed on the fourth page.

Be sure to note that a special condition requiring you to install and maintain a measuring device at your point of diversion has been placed upon your permit. We are enclosing a letter describing different types of measuring devices accepted by this office.

Sincerely,

BOBBY D. FLEENOR
Chief, Water Rights

BDF:jfr

Enclosures

MICROFILMED

STATE OF IDAHO
DEPARTMENT OF WATER ADMINISTRATION

Cecil D. Andrus
Governor
R. Keith Higginson
Director

Statehouse Annex 2
Boise Idaho 83707
(208) 384-2215
Western District Office



Water Right Administration
Water Resource Planning
Dam and Reservoir Safety
Water Well Program
Waste Disposal Well
Stream Channel Protection

December 6, 1974

Idaho Statesman
Box 2640
Boise, ID 83701

Re: Amended Application for Permit No. 63-7622 - Dwight J. Moore
Application for Permit No. 65-7488 - Robert Farber &/or Carol Farber

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. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. 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 the same has been paid."

(signature of claimant)

Sincerely,

Mike Clarke

Bill submitted
12-26-74

MICROFILMED

Co

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that ~~ROBERT FARRER &/OR CAROL FARRER~~
~~General Delivery, Lewman, ID~~
has on ~~May 28, 1974~~ submitted Application No. ~~65-7488~~
for a permit to appropriate ~~0.70~~ cubic feet per second ~~acre-foot~~
~~per annum of water from Archie Creek~~
by means of ~~gravity system, pipeline, sprinklers, and hose and pelton wheel~~
within the ~~SW¹/4, Sec. 3, T. 8 N, R. 8 E, B.M. Boise County~~

to be used from ~~Jan. 1 to Dec. 31 for domestic and power use and from~~
~~for April 15 to Oct. 15 for irrigation of 2 acres~~
within the ~~SW¹/4, Sec. 4, T. 8 N, R. 8 E, B.M.~~

If issued, this permit will be subject to all prior water rights. Pro-
tests against the granting of the permit must be filed with the Idaho Depart-
ment of Water Resources, Statehouse, Boise, Idaho, 83720, on or before
~~December 30, 1974~~

R. KEITH HIGGINSON

Director

Published in the ~~Idaho Statesman, Boise, ID~~
on ~~Dec. 12, 1974~~ and ~~Dec. 19, 1974~~

MICROFILMED

Individual Owner

DEC 3 1974

AFFIDAVIT TO ESTABLISH RESIDENCE

I, Robert Fisher of Boise Lowman County of Boise
State of Idaho, being duly sworn, do hereby certify that I am a bona fide resident
of the State of Idaho.

Subscribed and sworn to before me this 2nd day of Dec, 1974

MICROFILMED

/s/ Robert L. Fisher
/s/ James D. Samuelli
Notary Public
Residence Boise
My Commission expires 2-15-74

NOTE: This permit is issued subject to the provisions of S. L. 1937, Ch. 142;
am. 1957, Ch. 66. (Idaho Code, Sections 42-205 to 42-210).

November 18, 1974

Re: Application for Permit No. 65-7488

Mr. Robert Farber
General Delivery
Lowman, ID

Dear Mr. Farber:

We have received your letter from the U.S.F.S. concerning your special use permit. Before we can process and approve your water permit, we still need your proof of Idaho residence to entitle you to produce power at your diversion.

Enclosed is the proper form for this purpose. Please complete this affidavit and sign it before a notary public, prior to returning it to this office. We will then process your application.

Thank you for your cooperation.

Sincerely,

M. CLAYNE BARRON
W. R. Technician II

MCB:cla

Enclosure

MICROFILMED

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

Lowman Ranger District

NOV 12 1974

REPLY TO

2720 Special Uses

November 4, 1974

SUBJECT Farber, Bob - Water Transmission (911) (Proposed)

TO Mr. Bob Farber.



Enclosed are the original and duplicate copies of the above designated special-use permit. Also enclosed is a Bill for Collection in the amount of \$17.50 to cover the use for the remainder of 1974 and 1975.

Please sign and return both copies of the permit to this office along with the fee payment.

Thank you for your cooperation.

C. EUGENE BROCK
District Forest Ranger

RECEIVED

NOV 12 1974

Department of Water Resources

Attn. MR. Ken Foit !

The US Forest Dept Has Granted me
The Use Permit as of 11/9/74

The Actual copy has not yet been
Received in the mail - But this letter
should serve as PROOF Permit # 2720

MICROFILMED

Thank You
Bob Farber
Lowman, Idaho

STATE OF IDAHO
DEPARTMENT OF WATER ADMINISTRATION
WESTERN DISTRICT OFFICE



Cecil D. Andrus
Governor
R. Keith Higginson
Director

614 State Street
Statehouse -- Annex 2
Boise, Idaho 83707
(208) 384-2190

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

November 14, 1974

Robert Farber
General Delivery
Lowman, ID 83637

Dear Mr. Farber:

Enclosed is your Receipt No. 15322 in the amount of \$ 15.00 for
Additional fee for Application No. 65-7488 which was received in this office
on Nov. 14, 1974.

Sincerely,

CATHY L. ATKINSON
Stenographer

CLA:c

Enclosure

MICROFILMED

September 18, 1974

Robert Farber
General Delivery
Lowman, ID 83637

Re: Application for Permit No. 65-7488

Dear Mr. Farber:

In recent review of your application for permit, we noted that we have not yet received neither the additional \$15.00 required for an application of 0.70 c.f.s. nor have we received a copy of your easement from the U. S. Forest Service.

Please send these things as soon as possible so that we may continue the processing of your application.

If you have any questions concerning the above items, please do not hesitate to contact this office.

Sincerely,

CATHY L. ATKINSON
Stenographer

CLA:c

MICROFILMED

June 3, 1974

Robert Farber
General Delivery
Lowman, ID 83637

Re: Application for Permit No. 65-7488

Dear Mr. Farber:

We can continue processing your application after receipt of an additional \$15.00. The required fee for an application of 0.70 c.f.s. is \$25.00 and we failed to charge the correct amount when you filed the application for permit.

You must also furnish us with a copy of an easement granted by the U. S. Forest Service to establish the point of diversion and cross their land with your pipeline.

In addition to the easement, we cannot grant a permit to appropriate water in the State of Idaho for power to any person or persons who are not actual bona fide residents of the state, therefore you need to furnish the department with proof of your residency, Sec. 42-206, Idaho Code.

We regret the delay, but will act to process your application as quickly as possible after the requirements are fulfilled.

If you have any questions, please do not hesitate to contact this office.

Sincerely,

KENNETH H. FOIT, P. E.
Western District Engineer

KHF:def

MAILING