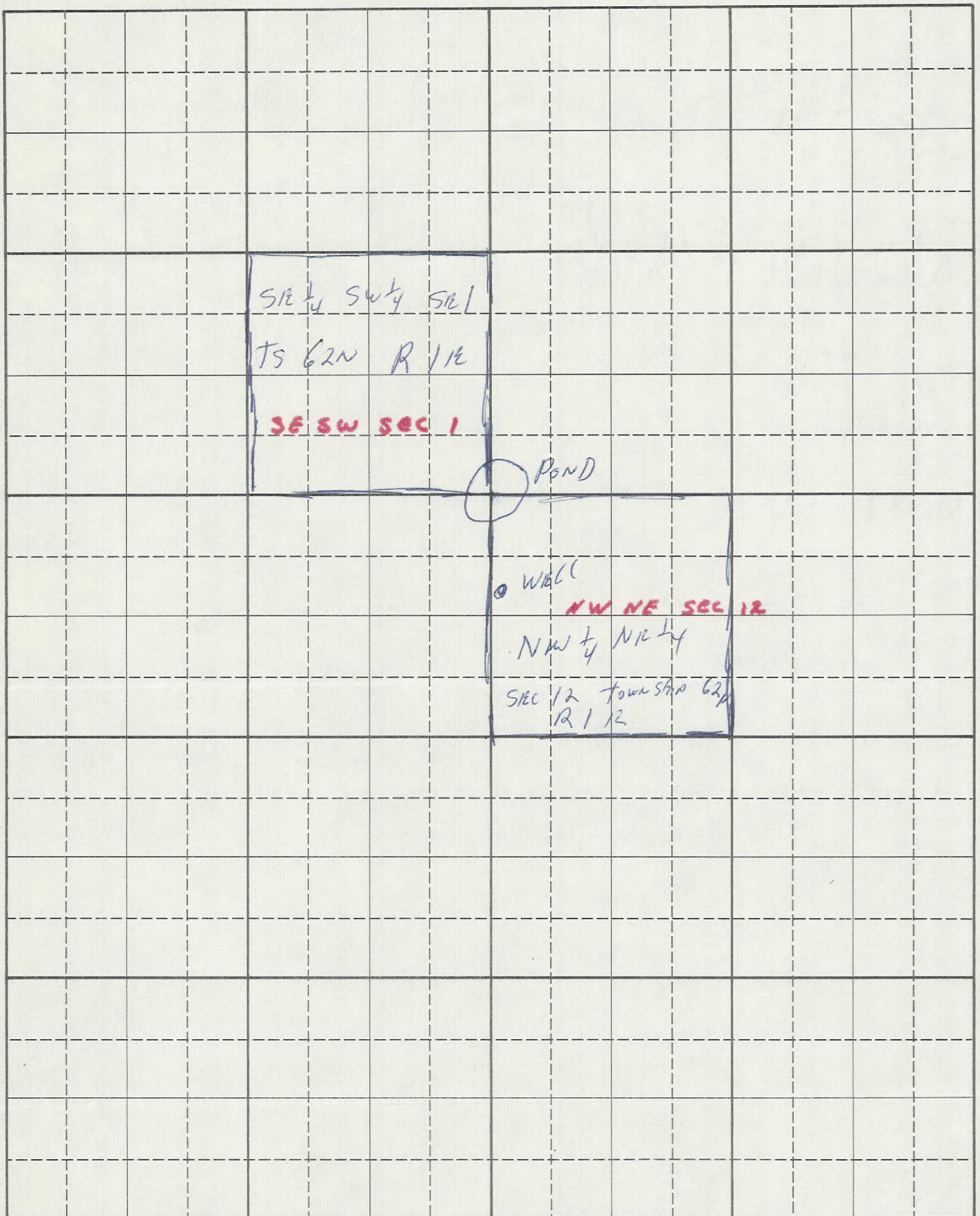


11. Map of proposed project:



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.

USHER Foast
(Applicant)

98-7039

T
62
N

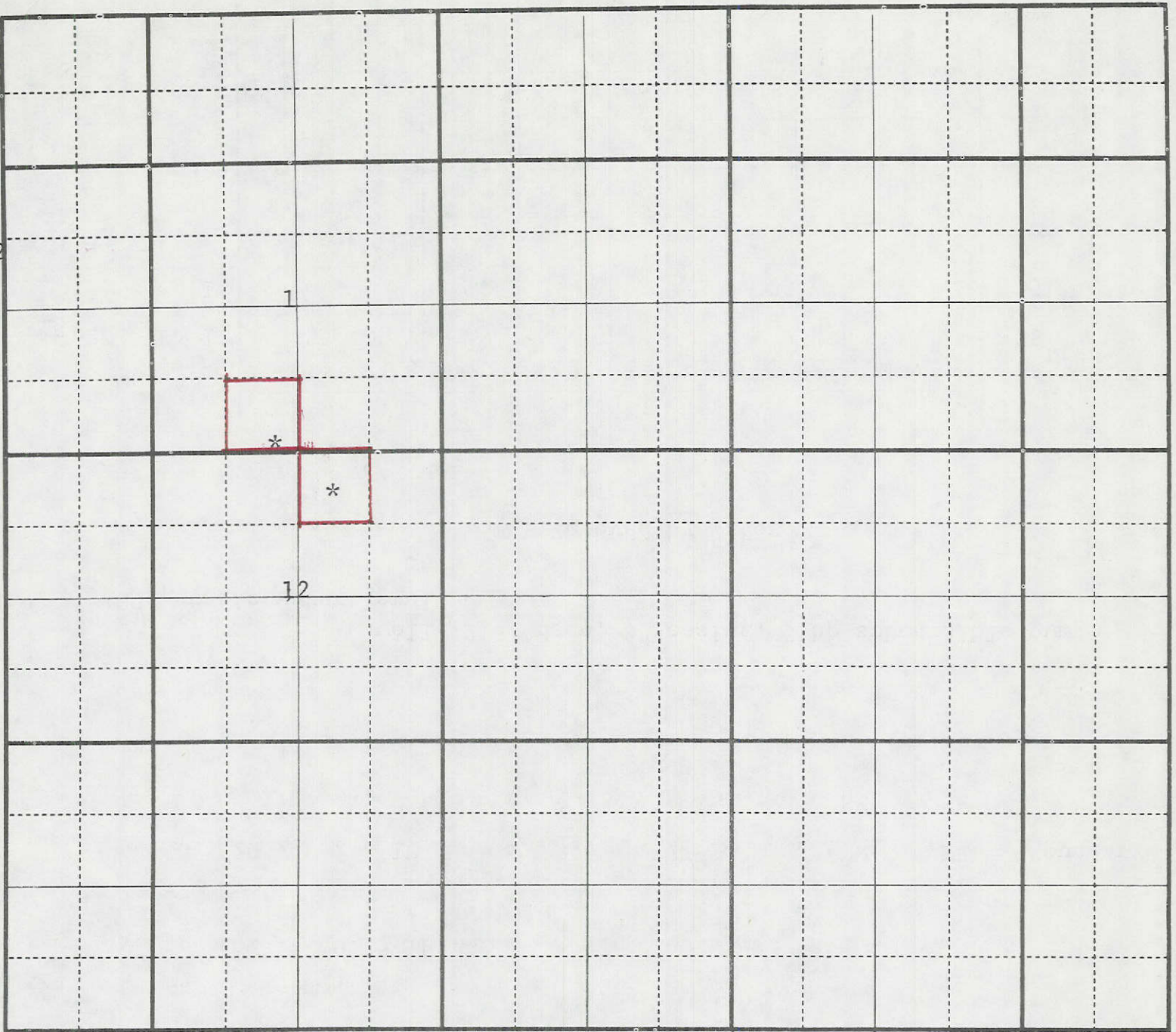


Diagram of System

COR

Pond

1	6
12	7

George OXFORD

72-A

R. D.

422-A

275 RAYMOND LEE

HO-A
MAGNEY HOLDERMAN

507-A

327-A

401-A

12	7
----	---

215-A
ROY MASTRE

122-A

CLARK, CLARK

133MS. A. 9. 13. SWEET

H. DIRKS

345-A

98-7039

MEMBERSHIP



State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No. 98-7039 Priority April 7, 1971 Amount 0.03 cfs

THIS IS TO CERTIFY, that Usher Foust
of Bonnors Ferry, Idaho, has complied with the terms and conditions of Permit
No. 98-7039 issued pursuant to Application for Permit dated April 7, 1971,
and has submitted proof to the Department of Water Resources on June 21, 1976,
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 0.03 cfs of water from a groundwater source,
tributary to _____, 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
<u>Domestic</u>	from <u>January 1</u> to <u>December 31</u>	at <u>0.03</u> cfs and	<u>1.2 acre feet</u>
	from _____ to _____	at _____ cfs and	
	from _____ to _____	at _____ cfs and	

(both dates inclusive)

Subject, however, to the condition that no more than 0.03 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
1.2 acre feet per year, said waters to be diverted within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12, Twp. 62N,
Rge. 1E, B. M. in the County of Boundary

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 $\frac{1}{4}$	
62N	1E	12	X																

Total number of acres irrigated _____

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 7 day of
March, 19 78.

Director

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF REMOVAL OF THE MEASURING
DEVICE REQUIREMENT FOR PERMIT NO. 98-7039
IN THE NAME OF USHER FOUST

ORDER

WHEREAS, on April 7, 1971, Usher Foust applied to the Department of Water Resources (formerly the Department of Water Administration) for a permit to appropriate 0.75 cubic feet per second of groundwater to be diverted from a point within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12, and the SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 1, Twp. 62N, Rge. 1E, B.M., Boundary County, to be used for irrigation and domestic purposes; and,

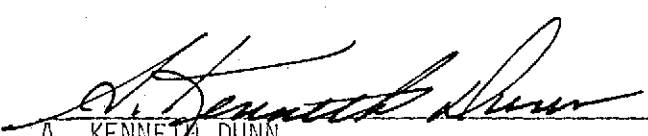
WHEREAS, on July 6, 1971, the Department approved said application and issued Permit No. 98-7039 with the condition that proof of construction of works and application of water to beneficial use be submitted to the Department on or before July 1, 1976, and that a measuring device of a type approved by the Department be permanently installed and maintained as part of the diverting works; and,

WHEREAS, on June 21, 1976, the Department received the required proof of application of the water to beneficial use along with a request that the measuring device requirement be removed from said permit; and,

WHEREAS, it has been determined by the Department that a measuring device is not required at this time for a determination of the quantity of water appropriated under said permit;

IT IS, THEREFORE, HEREBY ORDERED that the condition of approval that a measuring device of a type approved by the Department be permanently installed and maintained as part of the diverting works, be and is, REMOVED from Permit No. 98-7039.

Dated this 12 day of July, 1976.


A. KENNETH DUNN

Administrator, Operations Division

Identification No. 98-7039
Application 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 USHER FOUST
post office address BONNERS FERRY IDAHO
2. Source of water supply UNDER GROUND WATER which is a tributary of NA
3. a. Location of point of diversion is NW $\frac{1}{4}$ of N1E $\frac{1}{4}$ of Section 12 Township 62N
Range 1E B.M. BOUNDARY County; additional points of diversion if any: SE $\frac{1}{4}$
SW $\frac{1}{4}$ Section 1 Township 62N R 1E
- 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 0.75 for IRRIGATION purpose from MAY 15th to SEPT 15th (both dates inclusive)
(cfs or acre-feet per annum)
See letter of 4/14/71 BDF
Amount 0.03 for DOMESTIC purpose from JANUARY 1st to DEC 31 (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. 0.75 cubic feet per second and/or
b. 180 acre feet per annum.
6. Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. NA
- b. Height of storage dam NA feet, active reservoir capacity NA acre feet; total reservoir capacity _____ acre feet, materials used in storage dam: NA
Period of year during which storage will occur NA to NA inclusive.
(Mo. Day) (Mo. Day)
- c. Proposed well diameter is 8 inches; proposed depth of well is 200 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: NW $\frac{1}{4}$ of N1E $\frac{1}{4}$ of Section 12 Township 62N
Range 1E 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 NA
(4) Name of municipality to be served NA, or number of families to be supplied with domestic water 1.
(5) If water is to be used for other purposes describe: _____

98-7039

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	
62N	1E	12		35															
62N	1E	1											35						

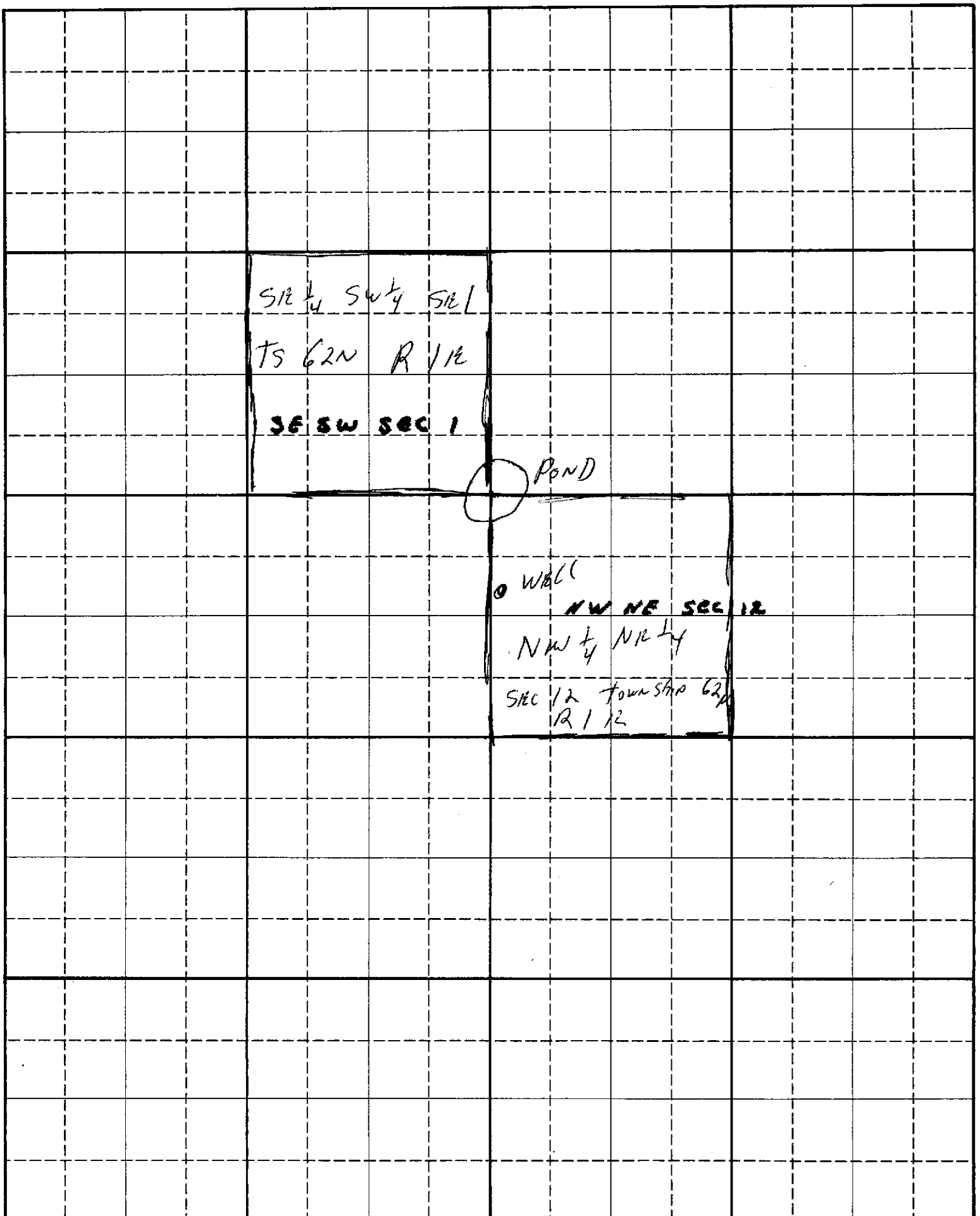
Total number of acres to be irrigated 70

c. Describe any other water rights used for the same purposes SURFACE

9. a. Who owns the property at the point of diversion USHER Foust
- b. Who owns the land to be irrigated or place of use USHER Foust + RICHARD Foust
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing FATHER + SON JOINT FARMING OPERATION

10. Remarks THIS WATER TO BE USED TO IRRIGATE "HOPPS" -
A UNIVERSITY OF IDAHO EXPERIMENT -

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.

USHER FOUST
(Applicant)

98-7039/

98-7039

Received by KH Date 4-7-71 Time 2:30 p.m.
Preliminary check by Dr Fee \$ 20.00
Received by ej Date 4-8-71
Publication prepared by dr Date 4-14-71
Published in Bonniers Ferry Herald
Publication dates 4-22 & 4-29, 1971
Publication approved dr Date 5-27-71
Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by _____
Hearing held by _____ Date _____
Recommended for approval denial by JB BDF DCF

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. 98-7039, 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 July 1, 1976.
 - c. Other: The permit holder shall permanently install and maintain as part of the diverting works measuring devices at the points of diversion of a type approved by this Department.
2. Denial of said application is for the following reasons: _____

Witness my hand this 6th day of July, 1971.

P. Karl Higley
Director ~~State Reclamation Engineer~~

DEPARTMENT OF WATER ADMINISTRATION

STAFF ANALYSIS

Application No.	98-7039		Name	Usher Foust	
Source	Underground				
Point of Diversion	NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12, T. 62N, R. 1E, B.M., Boundary County				
Quantity	0.75	Use	Irrigation	Period	May 15 - Sept. 15
Quantity	.05	Use	Domestic	Period	Jan. 1 - Dec. 31
Quantity		Use		Period	
Well Size		Diameter	8"	Proposed Depth	200 Feet
Use	70 acres - One family				
Date Forwarded	4-14-71		Date Returned		
			Received by		

COMMENTS: No U.S.G.S. observ. wells are maintained in this area. Aquifer is sediment, mainly fine material, yields are low and drawdowns are high. Standing depth to water is 150-200 ft.

RECOMMENDED:

Applied: Qty.	0.75 cfs	Use	irrig	Period	5-15 to 9-15	AF/A	2.7	AF	190
	Qty.	0.02 cfs	Use	dom	Period	1-1 to 12-31	AF/A	—	AF 1
	Qty.		Use		Period		AF/A		AF
Maximum: Qty.	1.4 cfs	Use	irrig	Period	3-15 to 11-15	AF/A	3.0	AF	210
	Qty.	0.02 cfs	Use	dom	Period	1-1 to 12-31	AF/A	—	AF 1
	Qty.		Use		Period		AF/A		AF

ACTION: Approved ☒ Denied ☐

Conditions of approval or reason for denial: Acceptance of the reduced dom. diversion rate or written justification of the higher rate requested.

INVESTIGATION	By	Norman C. Young	Title	W.R. Eng
			Date	4-22-71

98-7039

**NOTICE OF APPLICATION FOR
WATER PERMIT**

Notice is hereby given that Usher Foust, Bonners Ferry, Idaho, has on April 7, 1971, submitted Application No. 98-7039 for a permit to appropriate 0.75 cubic feet per second of water from a ground water source by means of well within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12 and SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 1, T. 62N, R. 1E, B.M., Boundary County, to be used from Jan. 1 to Dec. 31 for domestic purposes and from May 15 to Sept. 15 for the irrigation of 70 acres within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12 and SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 1, T. 62N, R. 1E, 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 Department of Water Administration, Statehouse, Boise, Idaho, 83707, on or before May 10, 1971.

R. KEITH HIGGINSON
Director

Published in the Bonners Ferry Herald, Bonners Ferry, Idaho, on April 22 and April 29, 1971.

AFFIDAVIT OF PUBLICATION

STATE OF IDAHO }
County of Boundary } ss.

W. H. Chubb

being first duly sworn upon his oath, deposes and says that he is the publisher (or foreman)

publisher
of The Bonners Ferry Herald, a newspaper of general circulation, published weekly at Bonners Ferry, Boundary County, State of Idaho; that the said Bonners Ferry Herald has been continuously and uninterruptedly published in said Boundary County during a period of 18 months or 78 weeks prior to the first publication of the hereto attached notice; that

the advertisement of Idaho Department of Water Admin.

a Notice of App. for Water Permit/U. Foust #98-7039

Notice for Publication, a printed copy of which is attached hereto was published in said newspaper and not in a supplement thereof for 2 consecutive issues, commencing with the issue dated Apr. 22, 1971 and ending with the issue dated April 29, 1971

Subscribed and sworn to before me this 19 day of May, 1971

William H. Chubb
C. R. Foust
Notary Public in and for the County of Boundary, State of Idaho,
residing at Bonners Ferry, Idaho.

98-7039

**NOTICE OF APPLICATION FOR
WATER PERMIT**

Notice is hereby given that Usher Foust, Bonners Ferry, Idaho, has on April 7, 1971, submitted Application No. 98-7039 for a permit to appropriate 0.75 cubic feet per second of water from a ground water source by means of well within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12 and SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 1, T. 62N, R. 1E, B.M., Boundary County, to be used from Jan. 1 to Dec. 31 for domestic purposes and from May 15 to Sept. 15 for the irrigation of 70 acres within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12 and SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 1, T. 62N, R. 1E, 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 Department of Water Administration, Statehouse, Boise, Idaho, 83707, on or before May 10, 1971.

R. KEITH HIGGINSON
Director

Published in the Bonners Ferry Herald, Bonners Ferry, Idaho, on April 22 and April 29, 1971.

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STATE OF IDAHO }
County of Boundary } ss.

W. H. Chubb

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the advertisement of **Idaho Department of Water Admin.**

a **Notice of App. for Water Permit/U. Foust #98-7039**

Notice for Publication, a printed copy of which is attached hereto was published in said newspaper and not in a supplement thereof for 2 consecutive issues, commencing with the issue dated **Apr. 22**, 196 **71** and ending with the issue dated **April 29**, 196 **71**

Subscribed and sworn to before me this 19 day of May, 196 **71**

William H. Chubb
C. Don Ferry
Notary Public in and for the County of Boundary, State of Idaho,
residing at Bonners Ferry, Idaho.

98-7039

December 12, 1980

Mrs. Usher Foust
Box 40, Star Rt. 3
Boise, Idaho 83705

Dear Mrs. Foust,

Thank you very much for your letter of September 2, 1980. In reviewing Water Right No. 98-7024, 98-2138/24278, & 98-7039 I have found that they have become Licensed Water Rights. Once a Water Right is licensed it becomes appertant to the land and passes through sell of the land, and interest would be through proof of ownership (Deed, Mortgage, etc.). A transfer would only be filled if the designated point of diversion or place of use was changed.

I hope that this will answer your questions, if not feel free to call me at 334-4123.

Sincerely,

ROBYN HAMPE
Chief Clerk

RH:mr

RECEIVED

SEP 5 1980

98-7039
Star Rt. 3 Box 40
Bonners Ferry, Ida.
83805

Department of Water Resources
Sept. 2, 1980

Dear Sir:

I have sold my farm lands to my son and would like, if it is possible to transfer my water rights to him.

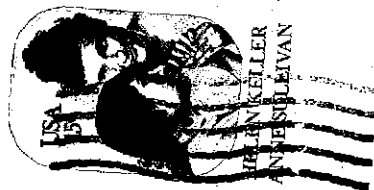
I would like to transfer the water right on the pond and spring, permit no. 24287, and the Drilled Well permit no. 98-7039 to David Foust, Star Rt. 3 Box 41 Bonners Ferry, Ida. The location is N²NE⁴Sec 12. T62 R1E

The Water Right for pond on Bain Creek, NE⁴NE⁴Sec 2 T62 R1E permit no. 98-7024 I would like to transfer to David Foust, Eugene Foust and Marvin Foust.

I don't know how to go about this or if it is possible. Please let me know.

Mrs. Usher Foust

Mrs. V. Fournier
Box 40 Star Rt. 3
Boise, Idaho
83805



Dept. of Water Administration
State of Idaho
Statehouse Annex 2
Boise, Idaho 83707

I D A H O D E P A R T M E N T O F W A T E R R E S O U R C E S

WATER RIGHT
DATA ENTRY LOG

[illegible]

March 10, 1978

Re: Permit No. 98-7039

Usher Foust
Route 1, Box 75
Bonners Ferry, ID 83805

Dear Mr. Foust:

Enclosed herewith is a copy of the Water Right License issued on the above referenced permit.

Sincerely,

JAN GROVER
Water Rights Supervisor

JG/kw
Enclosure

February 17, 1978

Re: Permit No. 98-7039

Usher Foust
Route 1, Box 75
Bonners Ferry, ID 83805

Dear Mr. Foust:

A representative of this Department made an examination of the works covered by your Permit No. 98-7039 on July 7, 1977, and has found the following:

Amount of water that can be recognized as beneficially used under
Idaho law: 0.03 cfs Source: groundwater

The maximum quantity diverted shall not exceed 1.2 acre feet per
year.

Point of diversion: NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12, Twp. 62N, Rge. 1E, B. M.

Beneficial use: Domestic use for one house within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12,
Twp. 62N, Rge. 1E, B. M.

Priority date established: April 7, 1971

If you do not concur with these findings please contact us within 10 days, otherwise a
water license will be issued as set forth above.

Sincerely,

BOBBY D. FLEENOR
Chief, Operations Bureau

BDF/cah

RECEIVED

JUL 16 1976

Department of Water Resources
Northern District Office

(name spring, stream, etc.)

(nature of use)

(mo.-day) inclusive (mo.-day)

(nature of use)

(mo.-day) inclusive (mo.-day)

(nature of use)

(mo.-day) inclusive (mo.-day)

Other uses: _____

98-7039

AF/Annum.

County _____

County

County

Other Points of Diversions: _____

60' static water level

no ☒ Removed by Order

6. Lands to be irrigated or place of use.

TOTAL ACREAGE 70

SECRET

T
62
N

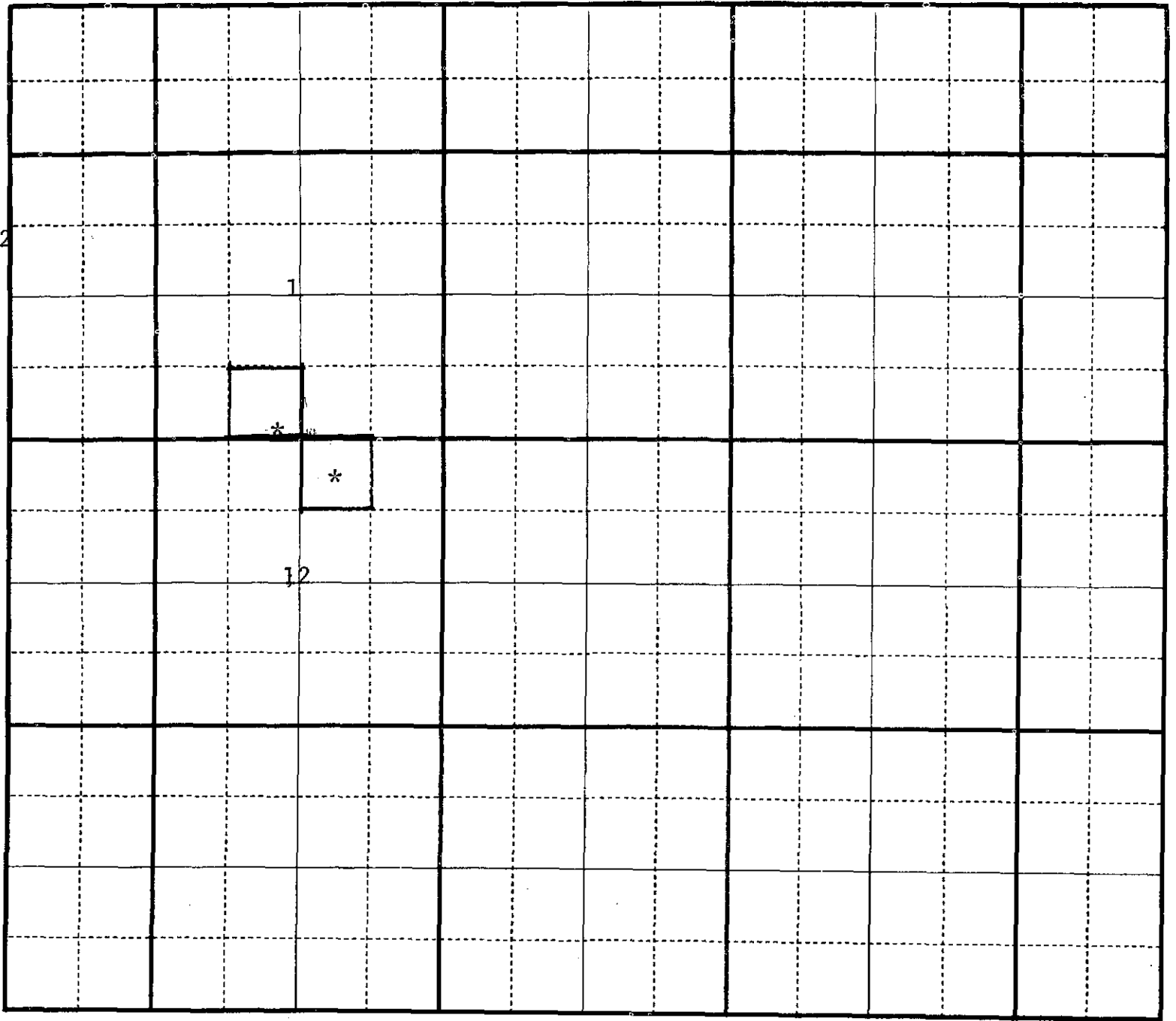


Diagram of System

253-A

DAVID FOUST
RAY-ORFORD

158-A

OXFORD

George

387-A

DAVE

363-A

E.B. SMITH

72-A

R.D.

BOYD WALLACE

422-A

M. DAVIDSON

401-A

W. WILSON

327-A

WILSON

507-A

EDDY TOWNSEND

CLARK

SMITH

SWEET

FRANK
JOHNSON

122-A

OLIVE GROVE

NDARY COUNTY AIRPORT

DIPKES

13-7039

83-A
C. DICKS

271-A

271-A
FEAST

1877-A
Charles
McGLOTHLIN
ADY MARSTEE

Table 9-8.--Flow from vertical pipes¹

Jet height (inches)	Diameter of pipe (inches)											
	2	3	4	5	6	8	10	12				
	Std. ²	Std.	O.D. ³ Std.	O.D. Std.	O.D. Std.	O.D. Std.	O.D. Std.	O.D. Std.				
	G.p.m.	G.p.m.	G.p.m.	G.p.m.	G.p.m.	G.p.m.	G.p.m.	G.p.m.				
2.....	28	57	75 86	103 115	137 150	200 215	265 285	330 355				
2 1/2.....	31	69	95 108	132 150	182 205	275 290	357 385	450 480				
3.....	34	78	112 128	160 183	225 250	340 367	450 490	570 610				
3 1/2.....	37	86	124 145	183 210	262 293	405 440	555 610	705 755				
4.....	40	92	135 160	205 235	295 330	465 510	660 725	845 910				
4 1/2	42	98	144 173	225 257	320 365	520 570	760 845	980 1060				
5.....	45	104	154 184	240 275	345 395	575 630	840 940	1120 1200				
6.....	50	115	169 205	266 306	385 445	670 730	1000 1125	1370 1500				
7.....	54	125	186 223	293 336	420 485	750 820	1150 1275	1600 1730				
8.....	58	134	202 239	315 360	450 520	810 890	1270 1420	1775 1950				
9.....	62	143	215 254	335 383	480 550	870 955	1360 1550	1930 2140				
10.....	66	152	227 268	356 405	510 585	925 1015	1450 1650	2070 2280				
12.....	72	167	255 295	390 450	565 650	1010 1120	1600 1830	2300 2550				
14.....	78	182	275 320	420 485	610 705	1100 1220	1730 2000	2530 2800				
16.....	83	195	295 345	455 520	655 755	1180 1300	1870 2140	2720 3000				
18.....	89	208	315 367	480 555	700 800	1265 1400	2000 2280	2900				
20.....	94	220	333 388	510 590	740 850	1335 1480	2100 2420					
25.....	107	248	377 440	580 665	830 960	1520 1670	2380 2720					
30.....	117	275	420 485	640 740	925 1050	1690 1870	2650 3000					
35.....	127	300	455 525	695 800	1000 1150	1820 2020	2850					
40.....	137	320	490 565	745 865	1075 1230	1970 2160						

¹ Table prepared from discharge curves in Utah Engin. Expt. Sta. Bul. 5, "Measurement of Irrigation Water," June 1955.

² Standard pipe.

³ Outside diameter of well casing.

To measure the flow from pipes discharging horizontally, it is necessary to measure both a horizontal and a vertical distance from some point on the end of the pipe to a similar point in the jet. For convenience, these coordinates are measured from the top of the inside of the pipe to a point on the top of the jet (fig. 9-14). These horizontal and vertical distances are called X and Y ordinates, respectively.

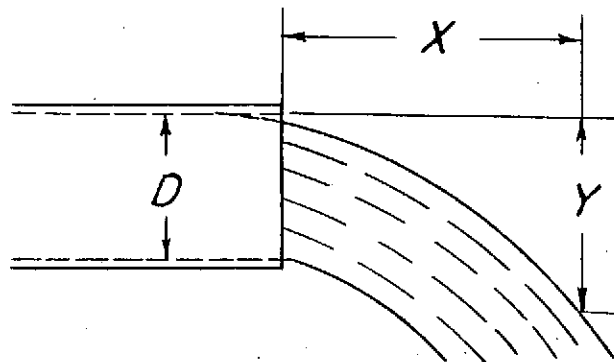


Figure 9-14--Required measurements to obtain flow from horizontal pipes

98-7039

For reasonably accurate results, the discharge pipe must be level and long enough to permit the water to flow smoothly as it issues from the pipe. Table 9-9 gives discharge values for pipe diameters up to 6 inches where the ordinate X is selected to be 0, 6, 12, or 18 inches. For pipes flowing less than 0.8 full at the end, the vertical distance Y can be measured at the end of the pipe where $X = 0$. Table 9-9 is used to obtain the discharge. Table 9-9 is also applicable either to conditions of full flow or partial flow.

Table 9-9.--Flow from horizontal pipes¹WHEN $X = 0$

Y (inches)	Size of pipe (nominal diameter)				
	2-inch	3-inch	4-inch	5-inch	6-inch
	<u>G.p.m.</u>	<u>G.p.m.</u>	<u>G.p.m.</u>	<u>G.p.m.</u>	<u>G.p.m.</u>
0.20		67.7	180	308	
.30		66.5	175	303	530
.40		65.1	171	298	518
.50		63.6	166	293	506
.60	18.3	62.0	161	287	494
.70	17.6	60.4	156	282	482
.80	16.7	58.4	150	277	470
.90	15.4	55.7	145	271	458
1.00	13.7	53.1	139	265	446
1.20	9.5	46.9	128	251	422
1.40	6.0	40.5	115	237	398
1.60		31.9	102	221	373
1.80		24.0	90	205	347
2.00		17.3	77	187	321
2.20		11.8	64	167	295
2.40		7.3	52	147	270
2.60			41	127	246
2.80			32	108	223
3.00			24	90	200
3.30			13	65	167
3.60				45	137
3.90				29	111
4.20					86
4.50					64
4.80					45

¹ See footnote at end of table.

MICROFILMED

Table 9-9.--Flow from horizontal pipes¹--Continued

WHEN X = 6 INCHES

Y (inches)	Size of pipe (nominal diameter)				
	2-inch	3-inch	4-inch	5-inch	6-inch
	<u>G.p.m.</u>	<u>G.p.m.</u>	<u>G.p.m.</u>	<u>G.p.m.</u>	<u>G.p.m.</u>
0.24	177	310	548		
.36	146	274	503	969	1243
.48	126	247	462	857	1113
.60	111	229	435	772	1019
.72	100	215	404	705	947
.84	92	202	377	646	889
.96	85	193	355	606	844
1.08	79	184	337	574	808
1.20	75	175	319	543	772
1.80	60	139	265	449	660
2.40	51	119	229	390	583
3.00	45	105	206	350	525
3.60	40	94	188	314	476
4.20	37	86	169	278	431
4.80	35	79	151	238	386
5.40	32	71	133	193	332
6.00	30	63	116	150	247
6.60	27	50	99	112	
7.20	25	38	83		
7.80	23	29	69		
8.40	20				

WHEN X = 12 INCHES

.96	157	319	570	1014	
1.08	148	305	548	974	1315
1.20	139	292	530	925	1257
1.80	114	247	444	763	1055
2.40	99	215	395	655	929
3.00	87	193	359	583	844
3.60	79	176	332	530	772
4.20	73	161	305	489	718
4.80	68	149	287	458	673
5.40	63	140	269	426	633
6.00	60	132	256	404	597
6.60	57	126	242	386	574
7.20	54	120	233	368	548
7.80	52	114	224	355	525

¹See footnote at end of table.

MICROFILMED

be level and
ues from the
to 6 inches
For pipes
can be
to obtain
of full

Table 9-9.--Flow from horizontal pipes¹--Continued
WHEN X = 18 INCHES

Y (inches)	Size of pipe (nominal diameter)				
	2-inch	3-inch	4-inch	5-inch	6-inch
	<u>G.p.m.</u>	<u>G.p.m.</u>	<u>G.p.m.</u>	<u>G.p.m.</u>	<u>G.p.m.</u>
1.80	166	346	624	1014	1400
2.40	144	305	557	907	1261
3.00	129	274	503	826	1153
3.60	117	251	462	754	1068
4.20	109	233	431	700	992
4.80	101	220	404	655	934
5.40	95	206	382	615	884
6.00	89	197	364	579	839
6.60	84	187	346	548	799
7.20	81	180	332	521	763
7.80	77	172	319	498	732
8.40	75	166	305	476	705

¹ Table for standard steel pipe prepared from data resulting from actual experiments conducted at Purdue Univ. and reported in Purdue Engin. Expt. Sta. Bul. 32, "Measurement of Pipe Flow by the Coordinate Method," August 1928.

Methods of Measuring Channel Flow

Current Meters

The current meter measures the velocity of flowing water in an open channel. It is usually used in the larger ditches and streams where direct methods of measurement are not practicable. Rohwer² has used specially outfitted current meters to measure the velocity of flow in pipes; however, since this is not the principal use made of such meters, the reader is referred to his bulletin for additional information.

Basically the current meter is a wheel having several cups or vanes. This wheel is rotated by the action of the current, and the speed of the rotating wheel indicates the velocity of the current. Several devices have been devised for determining the speed of the wheel. The one most commonly used is a mechanism that makes and breaks an electric circuit at each revolution or at a specified number of revolutions of the wheel. Included in the circuit is a telephone receiver allowing the operator to count the number of revolutions in any selected period of

² Rohwer, C. "The Use of Current Meters in Measuring Pipe Discharges." Colo. Agr. Expt. Sta. Tech. Bul. 29. 1942. (Out of print. Available in libraries only.)

Use--the time
arrangements
Current m
to move
rods,
piec
sic

MICROFILMED

DATE OF EXAM 7-6-77

ACREAGE

Found -0-
Recommended -0-

Irrigation Requirement _____ Ac Ft/Ac

USE

Irrigation Q= _____ c.f.s. V= _____ AF/Ann. from _____ to _____
Domestic Q= 0.03 c.f.s. V= 1.2 AF/Ann. from Jan 1 to Dec 31
Livestock Q= _____ c.f.s. V= _____ AF/Ann. from _____ to _____

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 _____ Method of measurement None

Total Q recommended 0.03 cfs Meter No. _____ Type _____ Condition _____

Total V recommended 1.2 AF/Ann

Recommended Amendments:

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

MEASUREMENT CALCULATION:

One house hold @ 0.03 cfs & 1.2 AF/Ann

SYSTEM DESCRIPTION:

Well, pump (submersible), and pipe line to place of use

REMARKS:

Mrs Faust Present she says well does not develop enough water to irrigate

Examiner's Signature Tom King Date 7-7-77

Checked by Bob Haynes Date 8-10-77

Approved by _____ Date _____

RE: 78-7039 File

Star Dist. 2

Bonnets Ferry, Ida. 83805

June 27, 1977

Dear Sir:

Last July 13 I received a letter stating that the Dept. acknowledged receipt of the affidavit submitted as proof of the beneficial use of our water permit. The letter stated that a field examination what need to be made.

It has been almost a year and I have heard nothing more regarding this.

I would like to have this matter settled. Is there something else that needs to be done before I can receive the final papers? The permit No is 98-7039.

Yours truly,

Mrs. Usher Foust.

RECEIVED

JUN 28 1977

Department of Water Resources
Northern District Office

MICROFILMED

July 13, 1976

Re: Permit No. 98-7039

Usher Foust
Bonners Ferry,
Idaho 83805

Dear Mr. Foust:

We acknowledge receipt of the affidavit submitted as proof of beneficial use for the above referenced permit. Enclosed is an Order which removes the measuring device requirement for this permit.

Before a license can be issued, a field examination must be made by a representative of this Department. We cannot tell during which part of the irrigation season this exam will be made, but our examiner will try to contact you at the time he makes the exam so that you may show him the system.

If you have any questions regarding the field exam, please contact our Regional Office in Coeur d'Alene.

Sincerely,

D. DARLENE REICH
Water Rights Supervisor

DDR:JFR

Enclosure

- **SENDER:** Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one).

- ☐ Show to whom and date delivered..... 15¢
☐ Show to whom, date, & address of delivery.. 35¢
☐ **RESTRICTED DELIVERY.**
 Show to whom and date delivered..... 65¢
☐ **RESTRICTED DELIVERY.**
 Show to whom, date, and address of delivery 85¢

2. ARTICLE ADDRESSED TO:



3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	138624	

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE ☒ Addressee ☐ Authorized agent

4. *Mrs. Usher Forest*

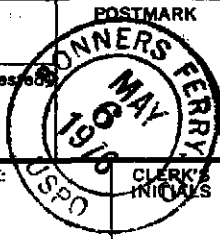
DATE OF DELIVERY

MAY - 6 1976

POSTMARK

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:



UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

MAY 6

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3 and 4 on reverse side.
- Moisten gummed ends and attach to back of article.

**RETURN
TO**



PENALTY FOR PRIVATE
USE TO AVOID PAYMENT
OF POSTAGE, \$300



DELIVERED BY FIRST CLASS MAIL

NO. 1, 1970 15720

April 30, 1976

CERTIFIED MAIL #138624

Re: Permit No. 98-7039

Usher Foust
Bonners Ferry,
Idaho 83805

Dear Mr. Foust:

One of the conditions of approval of your water Permit No. 98-7039 (see last page of your approved permit) was that evidence of the extent of development be submitted as proof of application of water to beneficial use to this office on or before JULY 1, 1976. Enclosed is an affidavit form which must 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 affidavit 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.

R. Keith Higginson

R. KEITH HIGGINSON
Director

RKH:jg
Enc: Proof affidavit

The contacted the States
Resource Office in Cocon. de
Alene and they said for
me to sign these papers
as administrator. Yaker
passed away last fall.
J. E. Frost.

RECEIVED

JUN 1911

Department of Water Resources

RECEIVED

JUN 27 1976

Okj

Identification No. _____

Permit No. 98-7039

Department of Water Resources

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

1. a) Name of Permit Holder Zoe Foust, Administrator - Usher Foust Estate
b) Post Office Address State 1, Box 75, Banners Ferry, Idaho 83805
2. Permit Number 98-7039
3. Date of Priority that you are prepared to establish 4-7-71
4. a) Source from which water was appropriated underground water
b) Location of the point of diversion: NW 1/4 NE 1/4, Section 12
Township 62N, Range 1E, Boise Meridian, Other points of diversion: SE 1/4
SW 1/4, Section 1, Twp 62N Range 1E
5. a) The amount of water and use to which the water has been applied:
Amount .22 CFS for irrigation purposes from May 15 to Sept 15 incl.
(cfs and/or acre-feet per annum) (Month-Day) (Month-Day)
Amount .03 CFS for domestic purposes from January 1 to December 31 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 .25 CFS 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: Measurement of flow from horizontal pipe in accordance with attached diagram and tables. Measured by Richard Foust, Appraiser - Federal Land Bank
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: Sprinkler irrigation system - pumps from storage pond into which well water is discharged
b) Describe the agreement or understanding by which you take water from the works: Irrigated cropland leased to Boundary Continental Hops Inc. who own distribution system. Written 10 year lease
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) Well - 215' deep, 8" casing, 5hp. Reda submersible pump 60' static water level
b) Describe the type and size of measuring device which you have installed at your point of diversion: Water measurement by flow from horizontal pipe. See attached diagram and tables.
c) Give well driller's name and address and the date the well was completed: Agua Drilling and Development Inc. Route 1, Orofino Idaho 83544, Drilled in April 1974
8. If for other than irrigation, describe the beneficial use to which you have applied the water and the place of use: Domestic Water for home and farmstead.

7-13-76 j

If you are irrigating 15 or more acres, please submit an aerial photo of the property with this affidavit.

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

T	R	SEC.	NE ¹ / ₄	NW ¹ / ₄				SW ¹ / ₄				SE ¹ / ₄	TOTAL
			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	NE ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄	NE ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄					
62N	1E	12	NW ¹ / ₄ NE ¹ / ₄ 35ac									35	
62N	1E	1									SE ¹ / ₄ SW ¹ / ₄	35	

Total number of acres irrigated 70

10. Remarks: Irrigation water is pumped into storage pond from which it is pumped through sprinkler system. Amount of water pumped from well depends on amount of water available from other sources. In dry years, well is pumped continuously. In wet years, less water is pumped.

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

June 17, 1976
(Date)

Zoe Frost Administrator
(Signature)

State of Idaho)
County of Boundary) ss.

On this 17th day of June, 1976, personally appeared before me the signer(s) of the above instrument, who duly acknowledged to me that he (she) (they) executed the same.

Traie W. Sneed

Notary Public residing at NOTARY PUBLIC for the State of Idaho
Residing at Bonners Ferry, Idaho
My commission expires August 6, 1977

NOTARY PUBLIC for the State of Idaho
Residing at Bonners Ferry, Idaho
My commission expires August 6, 1977

July 7, 1971

Re: Permit No. 98-7039 - Usher Foust

Usher Foust
Bonners Ferry,
Idaho 83805

Dear Mr. Foust:

Enclosed is a copy of your approved Application for Permit No. 98-7039. 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.

Very truly yours,

BOBBY D. FLEENOR
Assistant Director

BDF:kh

Enclosures

98-7039

2t-1 Box 75
Bonnere Ferry, Id.
June 12-71

~~98-7039~~
98-7039
State of Idaho.

Dept. of Water Admin.

State House - annex 2 -

Brice, Idaho 83707

RECEIVED
JUN 16 1971
Department of Water Administration

Dear Sirs -

I have not received
my drilled well permit
yet.

The Receipt # is 5863
which I paid \$20 - for well
permit.

Would like permit,

Sincerely

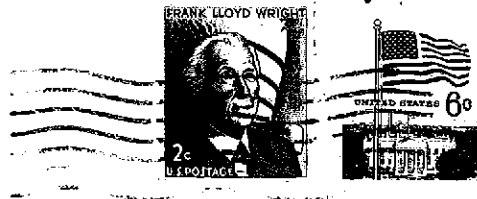
Usher Faust

Called Mr Faust 6/16/71

505

98-7039

W. Fiest -
Rt-1 Box 75
Barnes Ferry,
Ida.



State of Idaho.
Dept. of Water Admin.
State House - annex 2 -
Boise, Idaho

83707 98-7039

May 12, 1971

Re: Application No. 98-7039 - Usher Foust

Bonnars Ferry Herald
212 Main
Bonnars Ferry, Idaho 83805

Gentlemen:

Would you please submit an affidavit of publication and certified bill in connection with the above referenced application. The legal notice was to have been published in your paper on April 22nd & 29th, 1971.

Thank you for your cooperation in these matters.

Very truly yours,

Donald W. McEldowney
Appropriation Supervisor

by Darlene Reich

DWM:DR

98-7039

April 14, 1971

Re: Application for Permit No. 98-7039

Mr. Usher Foust
Bonners Ferry,
Idaho 83805

Dear Mr. Foust:

We wish to advise you that under normal conditions, 0.03 cubic feet per second is considered by this Department to be a sufficient quantity of water to supply the domestic needs of one household unit.

Unless you can submit evidence within two weeks, justifying 0.05 cubic feet per second, as requested in your application, it will be approved for only 0.03 cubic feet per second.

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

Very truly yours,

Dorian Clay
Appropriation Examiner

DC:cm

98-7039

April 14, 1971

Re: Application No. 98-7039 - Usher Foust

Bonnars Ferry Herald
212 Main
Bonnars Ferry, Idaho 83805

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 our 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 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)

Very truly yours,

Donald W. McKelowney
Appropriation Supervisor

DWM:DR
Enc: Legal notice

*Bill submitted
5-27-71
dw*

98-7039

**NOTICE OF APPLICATION FOR
WATER PERMIT**

Notice is hereby given that Usher Foust, Bonners Ferry, Idaho, has on April 7, 1971, submitted Application No. 98-7039 for a permit to appropriate 0.75 cubic feet per second of water from a ground water source by means of well within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12 and SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 1, T. 62N, R. 1E, B.M., Boundary County, to be used from Jan. 1 to Dec. 31 for domestic purposes and from May 15 to Sept. 15 for the irrigation of 70 acres within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12 and SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 1, T. 62N, R. 1E, 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 Department of Water Administration, Statehouse, Boise, Idaho, 83707, on or before May 10, 1971.

R. KEITH HIGGINSON
Director

Published in the Bonners Ferry Herald, Bonners Ferry, Idaho, on April 22 and April 29, 1971.

O.K.
4-21-71
B.B.

98-7039

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Usher Foust, Bonners Ferry, Idaho,

has on April 7, 1971, submitted Application No. 98-7039

for a permit to appropriate 0.75 cubic feet per second ~~acres feet per acre~~
of water from a ground water source

by means of well

within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12 and SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 1, T. 62N, R. 1E, B.M.,
Boundary County,

to be used from Jan. 1 to Dec. 31 for domestic purposes and from May 15 to Sept. 15
for the irrigation of 70 acres

within the NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 12 and SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 1, T. 62N, R. 1E, B.M.

issued

If ~~used~~, this permit will be subject to all prior water rights. Protests
against the granting of the permit must be filed with the Idaho Department of Water
Administration, Statehouse, Boise, Idaho, 83707, on or before May 10, 1971.

R. KEITH HIGGINSON
Director

Published in the Bonners Ferry Herald, Bonners Ferry, Idaho,

on April 22 and April 29, 1971

98-7039

April 8, 1971

Usher Foust
Bonners Ferry,
Idaho 83805

Dear Mr. Foust:

Returned herewith is your receipt No. 5863 in the amount of \$20.00
for Application for permit,
which was received in this office under the above date.

Very truly yours,

M. RUSSELL BOSCH
Administrative Assistant

MRB:ejw

Enclosure

98-7039

December 7, 1970

Re: Application for Permit

C
O
Mr. Usher Foust
Rte. 1, Box 75
Bonners Ferry, Idaho 83805

Dear Mr. Foust:

As you requested in your letter of December 3rd, we are enclosing a form for filing for a
P water permit.

If you should have any questions, please feel free to contact us.

Very truly yours,

Y
BOBBY D. FLEENOR
Assistant Director

BDF:kh

Enclosure

98-7039

Rt. 1 Box 75

Bearpaw Ferry, Idaho.

Dec - 3, 1970

Dept. of Reclamation
State House Annex 2
Boise, Idaho 83707

Department of the Interior

Dear Sirs:

I would like you to send me an
application form for a storage permit.
Thank you.

Sincerely,

Walter Foust

98-7039