



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: www.idwr.idaho.gov

GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

July 20, 2015

MICHAEL A HARRIS 2004 REVOCABLE TRUST
11 PURPLE SAGE LN
BELLEVUE ID 83313

RE: WITHDRAWAL OF APPLICATION TO LEASE WATER RIGHT NO(S). 37-114C AND 37-7609

Dear Applicant:

Per your written request received on July 20, 2015 the Department of Water Resources ("Department") acknowledges your request to withdraw your Lease Applications for the rights listed above. The Department will retain a copy for our records and the original is being returned to you. The Department has drafted approval documents, composed the required review memo, and has been in contact with the regional manager, watermaster, and water districts in anticipation of your lease being processed. The lease filing fee covered extensive processing costs and a refund will not be issued.

Finally, the forfeiture period is not tolled unless a right is accepted into the Bank, or unless an exception or defense to forfeiture applies as described under Idaho Code § 42-223. If forfeiture is a concern, you may consider filing an Application for Extension of Time to Avoid Forfeiture of a Water Right form. This and other water right forms are available from the Department's website at www.idwr.idaho.gov.

If you have any questions, please contact me at (208) 287-4944.

Sincerely,

Cherie Palmer
Water Right Supervisor
Water Allocation Bureau

Enclosure: Lease Application(s)

STATE OF IDAHO
WATER RESOURCE BOARD

RECEIVED

JAN 21 2015

DEPARTMENT OF
WATER RESOURCESWATER SUPPLY BANK LEASE OR SALE
APPLICATION CHECKLIST

An application to lease or sell a water right into the Water Supply Bank must be prepared in accordance with the minimum requirements listed below to be acceptable for processing by the Department. Use this checklist to ensure all necessary documentation has been provided. This checklist is part of the lease application and must be included with the lease application. **Incomplete applications will be returned to applicants for completion.**

Designated Applicant Michael A. Harris Water Right No. 37-117C
2004 Revocable Trust One water right per application

All items must be checked as either *Attached (Yes)* or *Not Applicable (N/A)*

YES

- ☒ Completed *Water Supply Bank Lease or Sale Application Checklist* (this form).
- ☒ Completed *Application to Sell or Lease a Water Right to the Water Supply Bank* (pages 2-3).
- ☒ Application filing fee of \$250.00. If you are submitting more than one lease application and the water rights have a common place of use, or common diversion rate, or common diversion volume, the combined maximum fee is \$500.00.

Attachment N/A YES

- 1A ☐ ☒ Contact information for *all owners* of the water right that is being leased or sold on this application.
- 1B ☐ ☒ An Internal Revenue Service (IRS) Form W-9 for the Designated Applicant.
- 1C ☒ ☐ *Notice of Change in Water Right Ownership* form (accessible from www.idwr.idaho.gov).
- 1D ☐ ☒ Written consent from irrigation district or water delivery company.
- 1E ☐ ☒ Contact information for an authorized representative and documentary proof they are authorized to represent the Designated Applicant on this application. If the Designated Applicant is a business, partnership, municipality, organization or association, include documents identifying officers authorized to sign or act on behalf of the entity.
- 2 ☐ ☒ Description of a water right portion offered to the Water Supply Bank.
- 3D ☒ ☐ Evidence demonstrating that a water right has not been lost through abandonment or forfeiture pursuant to Section 42-222(2), Idaho Code.
- 4 ☐ ☒ A map that clearly outlines the specific location where irrigated acres will be dried up, or where a beneficial use of water will be suspended. If you don't already have a detailed map, you can create one using IDWR's online General Mapping Tool (<http://maps.idwr.idaho.gov/mapall/>) to locate a water right place of use or point of diversion.

Department Use Only

Fee Amount \$ 250.00 Received By: dgiles00 Date Received: 1/21/15 Receipt # C099841

W-9 received? Yes ☒ No ☐ (Route W-9 to Fiscal) Name on W-9: Harris, Michael A.

STATE OF IDAHO
WATER RESOURCE BOARD

RECEIVED

JAN 21 2015

DEPARTMENT OF
WATER RESOURCESAPPLICATION TO SELL OR LEASE A WATER RIGHT
TO THE WATER SUPPLY BANK

1. CONTACT INFORMATION

- A. An application to sell or lease a water right to the Water Supply Bank must be completed by a Designated Applicant who is a recognized owner of the water right being sold or leased to the Water Supply Bank. If there are additional owners recorded for the property to which the water right is appurtenant, those individuals must authorize the Designated Applicant to represent them on this application by completing and signing Attachment 1A of this application package.

Designated Applicant Michael A. Harris Email Address mharris1950@gmail.com
2007 Revocable Trust
 Mailing Address 11 Purple Sage Ln, Bellevue, ID 83313 Phone Number 208-788-5059

☐ The Designated Applicant is the sole owner of the water right being sold or leased to the Water Supply Bank.

OR

☒ The Designated Applicant is representing additional water right holders who have completed Attachment 1A.

- B. Has the designated applicant completed an IRS Form W-9 (Attachment 1B)? Yes ☒ No ☐

- C. Are all applicants on this form listed in IDWR's records as the current owners of the water right? Yes ☒ No ☐
 If no, attach a *Notice of Change in Water Right Ownership* form along with the required documentation and fee (Attachment 1C).

- D. Is the diversion works or system owned or managed by an irrigation district or water delivery company? Yes ☒ No ☐
 If yes, provide written consent from the company, corporation or irrigation district authorizing the proposed sale or lease (Attachment 1D).

- E. Is this application being completed by an authorized representative of the Designated Applicant? Yes ☒ No ☐
 If yes, representatives (includes employees of Designated Applicant companies) must complete this section and submit documentary proof of their authority to represent the Designated Applicant (Attachment 1E).

Name of Representative Michael A. Harris Organization Michael A. Harris 2007 Revocable Trust
 Professional Title Trustee Email Address mharris1950@gmail.com
 Mailing Address 11 Purple Sage Ln, Bellevue, ID 83313 Phone Number 208-788-5059

☒ Send all correspondence for this application to the representative and not to the Designated Applicant.

OR

☐ Send original correspondence to the Designated Applicant and copies to the representative.

2. DESCRIPTION OF WATER RIGHT OFFERED TO THE BANK

Water Right Number 37-114C ☐ The full water right is being offered to the Bank.

OR

☒ A part of the water right is being offered to the Bank.
 (If a portion of a water right is being offered, complete Attachment 2)

3. GENERAL INFORMATION

- A. Please provide a description of the current water diversion system.

Delivery of 37-114C is through the Triangle Irrigation District. Collects in sump for pressurized system & ditches for flood irrigation.

- B. Describe any other water rights used for the same purpose at the same place of use as the water right being offered to the Bank.

A portion of GW right 37-7609 (see second application)

that is being offered to the water bank

C. Will the present place of use continue to receive water from any other source? Yes ☐ No ☒

If yes, describe. _____

D. Has any portion of this water right undergone a period of five or more consecutive years of non-use? Yes ☐ No ☒

If yes, describe and attach Watermaster records or other evidence to demonstrate that the water right has not been lost through abandonment or forfeiture pursuant to Section 42-222(2), Idaho Code. _____

E. Is this water right involved in any other IDWR process such as an application for transfer or a mitigation plan? Yes ☐ No ☒

If yes, describe. _____

4. SALE/LEASE AGREEMENT

A. Is the water right, or portion thereof, offered to the Idaho Water Resource Board (IWRB) for sale ☐ or lease ☒?

If lease, for a period from 1/1/2015 to 12/31/2016 (maximum lease period 5 years).

B. Show the minimum payment acceptable to the seller/lessor. The minimum payment may be shown as the "current rental rate" as established by the IWRB. Include the method of determining the minimum payment if other than the current rental rate.

Current rental rate

I hereby assert that the information contained in this application is true to the best of my knowledge, and that I have the authorities necessary to offer this water right for sale or lease to the Idaho Water Resource Board.

The Designated Applicant acknowledges the following:

1. Payment to the Designated Applicant is contingent upon the sale or rental of the water right from the Bank.
2. While a water right is in the Bank, the seller/lessor of the water right may not use the water right even if the water right is not rented from the Bank.
3. A water right accepted into the Bank stays in the Bank until the Designated Applicant receives written confirmation from the Board or Water Supply Bank that the water right has been released from the Bank.
4. While a water right is in the Bank, forfeiture provisions are stayed.
5. Acceptance of a water right into the bank does not, in itself, confirm the validity of the water right or any elements of the water right.

Signature of Designated Applicant

Michael A. Harris
2004 Revocable Trust

Printed Name

Date

Michael A. Harris
Signature of Authorized Representative

Michael A. Harris
Printed Name

1-1-2015
Date

Mail to:

Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098

STATE OF IDAHO
WATER RESOURCE BOARD

ATTACHMENT 2

DESCRIPTION OF A WATER RIGHT PORTION OFFERED TO THE WATER SUPPLY BANK

1. Water Right Number 37-114C Amount (cfs/ac-ft) .458cfs Nature of Use Irrigation Period of Use 4-1 to 11-1
 _____ to _____
 _____ to _____
 _____ to _____

Total Amount: .458cfs

2. Source of water Big Wood River tributary to Mallad River

3. Point(s) of Diversion:

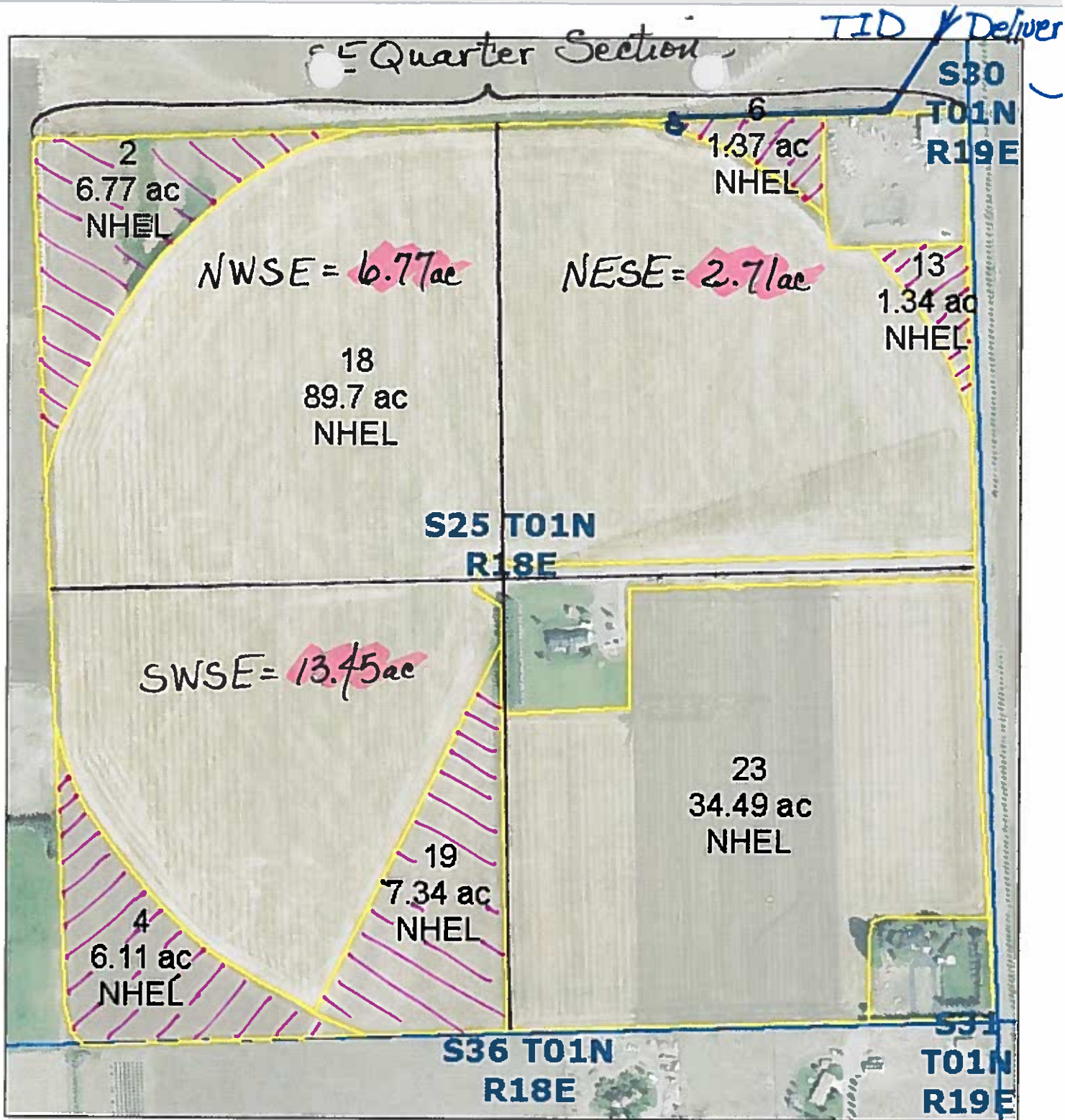
Twp	Rge	Sec	Lot	1/4	1/4	1/4	County
<u>02N</u>	<u>18E</u>	<u>36</u>			<u>SW</u>	<u>NW</u>	<u>Blaine</u>

4. Lands irrigated or place 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	
<u>01N</u>	<u>18E</u>	<u>25</u>													<u>2.71</u>	<u>6.77</u>	<u>13.45</u>		<u>22.93</u>

If the water right is for irrigation, show total number of acres offered to the Bank.

Total Acres 22.93



Farm: 15
Tract: 75

United States Department of Agriculture
Farm Service Agency
Blaine County
2013 Imagery

January 24, 2014



Surface Water
37-114C
1 inch equals 372 feet

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-020 and attached maps) for exact wetland boundaries and determinations, or contact NRCS. This map and acreage is for FSA purposes only. No warranty is made for any other use.

(Total acres
offered to
Water Bank)
22.93

**STATE OF IDAHO
WATER RESOURCE BOARD**

ATTACHMENT 1A

Additional Water Right Holders Party to the Lease Application

List all individuals or business entities that are owners of the property to which the water right on this application is appurtenant. All water right holders must be signatories to a Water Supply Bank Lease Application however only the Designated Applicant needs to provide a completed IRS Form W-9 (Attachment 1B). All correspondence and any financial payment associated with the rental of this water right will be directed to the Designated Applicant. If additional space is needed to list any other water right holders, attach a second copy of Attachment 1A.

Water Right No. 37-114C

	Designated Applicant	Applicant #2	Applicant #3
Name	Michael A. Harris 2004 Revocable Trust	Janice Corso-Harris 2004 Revocable Trust	
Mailing Address	11 Purple Sage Ln. Bellevue ID 83313	←	
Phone Number	208-788-5059	←	
Email Address	mharris1950@gmail.com	pepiu1776@gmail.com	
Applicant Declaration	As Designated Applicant, I submit this lease application on behalf of all other water right holders.	I authorize the Designated Applicant to submit this application on my behalf.	I authorize the Designated Applicant to submit this application on my behalf.
Signature	Michael A. Harris	Janice Corso-Harris	

	Applicant #4	Applicant #5	Applicant #6
Name			
Mailing Address			
Phone Number			
Email Address			
Applicant Declaration	I authorize the Designated Applicant to submit this application on my behalf.	I authorize the Designated Applicant to submit this application on my behalf.	I authorize the Designated Applicant to submit this application on my behalf.
Signature			

Skaggs, Pam

From: Pepin Corso-Harris <pepin1776@gmail.com>
Sent: Sunday, July 19, 2015 10:38 PM
To: Skaggs, Pam
Subject: Harris Water Bank application
Attachments: 2015_07_19 Signed Withdrawal Ltr.pdf

Pam -

Please find attached our letter officially withdrawing our water bank application as we discussed last Friday. I have sent a copy to the WRVD45, Triangle Irrigation District and the Board of Control. If there's anything else you may need, please let me know.

Please hit "reply" to confirm receipt.
Thank-you,

Pepin

July 19, 2015

Pam Skaggs
Idaho Department of Water Resources
Water Supply Bank
P.O. Box 83720
Boise, Idaho 83720-0098

RE: Withdrawal of Water Bank Applications 37-114C & 37-7609

Dear Ms. Skaggs,

Following through on our last conversation, please accept our withdrawal of the application that was submitted to lease water right numbers 37-114C & 37-7609 to the Water Supply Bank. Our plans have changed.

Thank-you for your time concerning this,

Sincerely,

A handwritten signature in black ink, appearing to read "Michael A. Harris". The signature is fluid and cursive, with the first name "Michael" being more prominent.

Michael A. Harris
11 Purple Sage Ln
Bellevue, ID 83313

Palmer, Cherie

From: Palmer, Cherie
Sent: Friday, July 17, 2015 12:26 PM
To: 'Jim Super'
Cc: Andy Waldera; Jolyon H. Sawrey; Jim Spinelli
Subject: Lease Application 37-7609 and 37-114C
Attachments: 37-7609.pdf; 37-114C.pdf; App 37-114C; Fwd: Michael A Harris Revocable Trust-Application to Lease 37-114C and 37-7609

Jim,

I appreciate your previous email, I understand your position. Attached to this email you will find the information you requested.

Cherie

Palmer, Cherie

Subject: FW: Michael A Harris Revocable Trust-Application to Lease 37-114C and 37-7609

From: Jim Super [mailto:js.super.13@gmail.com]
Sent: Thursday, July 16, 2015 8:35 PM
To: Palmer, Cherie
Cc: Andy Waldera; Jolyon H. Sawrey; Jim Spinelli
Subject: RE: Michael A Harris Revocable Trust-Application to Lease 37-114C and 37-7609

Cherie,

I am empathetic to your frustration on this issue.

Pepin Corso-Harris stated to a Board of Director, Jolyon Sawrey, that this application was withdrawn. Jolyon reported that statement in an open public meeting. So, given that information what would you suggest the District's action be? Approve or disapprove an application that supposedly did not exist?

As for future applications, you need to notify the Districts Board Members and the Secretary of the District. Their e-mail addresses are attached in the Cc.

As you know, Districts are subject to Idaho State Open Meeting Laws and a special meeting must be posted with a 5 day notice. When Jolyon speaks with Pepin Corso-Harris concerning this application, we will be able to notice a meeting. I will let you know the date when it is noticed.

Also, please send another copy of the application for the lease of 37-114c and 37-7609. Again, District 45 has not approved this lease at this time.

And have you contacted the applicant and asked if they intend to withdraw the request.

I would also like to have copies of any correspondence that you have or may receive from the applicants. Please send copies to everyone included in this e-mail.

Thank you for your efforts,

Jim Super, President WRVID 45
208-720-6727

From: Palmer, Cherie
Sent: Wednesday, July 15, 2015 6:30 PM
To: 'Jim Super'
Cc: 'pepin1776@gmail.com'
Subject: RE: Michael A Harris Revocable Trust-Application to Lease 37-114C and 37-7609

Jim,

Thank you for your email. However, I am a little confused and frustrated with the District's choice not to make a decision on the lease-ability of these water rights at the meeting last night. The applicant paid the lease filing fees and I fully expect that they are waiting on a decision on their applications and frankly I expected a decision at last night's meeting.

For the future, so I know how to advise folks, who should customers be contacting at District 45 for consent and how does the process work on your end? Whatever the process, I would like to make it to be as seamless as possible for all parties involved, so any words of advice in that arena would be much appreciated.

I would like to move this application on, one way or the other, and I cannot do that without District 45's input. Please advise me when the District will be making a decision on Leases 37-114C and 37-7609 at your earliest convenience.

Sincerely,
Cherie

From: Jim Super [<mailto:js.super.13@gmail.com>]
Sent: Wednesday, July 15, 2015 5:37 PM
To: Palmer, Cherie
Subject: RE: Michael A Harris Revocable Trust-Application to Lease 37-114C and 37-7609

Cherie,
Thank you for letting use know that the application has not been withdrawn. If it is withdrawn, let us know.
Meanwhile, District 45 has not approved this application.

Jim Super
208-720-6727

From: Palmer, Cherie [<mailto:Cherie.Palmer@idwr.idaho.gov>]
Sent: Wednesday, July 15, 2015 9:57 AM
To: Jim Super <js.super.13@gmail.com>
Subject: RE: Michael A Harris Revocable Trust-Application to Lease 37-114C and 37-7609

Jim,

I am not aware that the application to lease 37-114C and 37-7609 has been withdrawn.

Cherie

From: Jim Super [<mailto:js.super.13@gmail.com>]
Sent: Tuesday, July 14, 2015 8:49 PM
To: Palmer, Cherie
Cc: Jolyon H. Sawrey; Jim Spinelli; Andy Waldera
Subject: RE: Michael A Harris Revocable Trust-Application to Lease 37-114C and 37-7609

Cherie,

At the Districts Board meeting tonight Jolyon Sawrey, a District Board Director, informed the Board that he had spoken with Pepin Corso Harris (wife of Mike Harris) that this application has been withdrawn.
So the Board took no action on approving or not the application.
Has this application been pulled for consideration with the IDWR?
If it has not been pulled by the Harris Trust, the District 45 will still need to discuss the application for approval or not.
Please confirm that this application has been withdrawn.

Thanks,

Jim Super, President WRVID 45
208-720-6727

From: Palmer, Cherie [<mailto:Cherie.Palmer@idwr.idaho.gov>]
Sent: Wednesday, July 01, 2015 2:26 PM
To: js.super.13@gmail.com; wooddriver45@gmail.com; sarag@svskylan.net
Subject: Michael A Harris Revocable Trust-Application to Lease 37-114C and 37-7609

Dear Interested Parties,

The Department of Water Resources received applications from the Michael A Harris Revocable Trust that proposes to lease a portion of water rights 37-114C and 37-7609 (22.9 acres total) into the Water Resource Board's Water Supply Bank.

Pursuant to Idaho Code 42-108 and the Water Supply Bank Rule 37.02.03.25.02.e, a lease applicant must provide consent from any delivery entity that is involved with the delivery of a water right.

In this case it appears that two parties must provide consent before the Department can move forward with processing the lease applications, Wood River Valley Irrigation District #45 and the Triangle Irrigation District.

On February 18, 2015, the Department received a fax from John Stevenson stating that consent has been granted and that 75% shall stay in the system to compensate for carriage loss. The Department also received correspondence from the Triangle Irrigation District that reinforces the consent to lease water rights into the Bank.

Please confirm that you, District #45, has given John Stevenson authorization to respond to these types of matters and that you will allow him to provide consent for future lease/rental proposals.

If this email goes unanswered, I'll assume that you are okay with Mr. Stevenson providing consent and water rights 37-114C and 37-7609 be leased to the Bank. Please let me know if you have any questions.

Thank you,

*Cherie Palmer, Water Rights Supervisor
Idaho Dept of Water Resources
Water Allocation Bureau*

322 E. Front Street (Front St. & Broadway Ave)

Mail: PO BOX 83720 Boise, ID 83720-0098

email: cherie.palmer@idwr.idaho.gov

phone: (208) 287-4944

fax: (208) 287-6700

February 17, 2015

Idaho Department of Water Resources
Water Supply Bank
P.O. Box 83720
322 East Front Street
Boise, Idaho 83720-0098

Re: Applications by Michael Harris and Pepin Corso-Harris

The Board of Directors of the Board of Control for the Triangle Irrigation District and the Wood River Valley Irrigation District has considered the applications of the Harrises to lease their water rights through the Water Supply Bank. The Board has determined that it will consent to the application with the following conditions:

1. Any lease of water rights through the water bank from the system must calculate carriage loss to be left in the river that is sufficient to convey water to the headgates.
2. Carriage loss sufficient to convey water within the system, without injury to other users, must be left within the system. In this case, 75% shall stay in the system to compensate for carriage loss.
3. There should be no impact to Minimum Stream Flow.

We believe these are reasonable and appropriate conditions.

In the event that other members of the Triangle Irrigation District and the Wood River Valley Irrigation District apply in the future to place their water rights with the Water Bank for lease, the Board of Control will review those applications separately and apply an appropriate percentage retention based on the best available data at the time.

If you have any questions, please contact me at your convenience.

Sincerely,



John Stevenson
Chairman
Board of Control for TID and WRVID

February 19, 2015

RECEIVED
FEB 25 2015
DEPARTMENT OF
WATER RESOURCES

Patrick Kelly
C/o Idaho Department of Water Resources
Water Supply Bank
P.O. Box 83720
322 East Front Street
Boise, Idaho 83720-0098

Re: Board of Control Conditions of Approval for 37-114C Application

Mr. Kelly,
As the Wood River Valley Irrigation District (WRVID) has only recently been partitioned, I understand that the Water Supply Bank needs time to receive all the updated information concerning its reconfiguration. I am enclosing a map of the joint works and its key, approved by the Board of Control (BOC) that oversees the now partitioned Wood River Valley Irrigation District (WRVID) and Triangle Irrigation District (TID).

As the Board of Control is the entity that controls the operation of the canals, and as their conditions of approval require conveyance loss, we feel that their letter should cover everything needed by the water bank as far as the delivery entity's input about this application.

I am also enclosing the November 26, 1997 Brockway water requirements evaluation for 37-114C (sometimes erroneously referred to as 37-114B in IDWR documentation) as the basis of the TID & BOC's approval conditions. This evaluation can be found online in IDWR backfile documentation under 37-114 (inactive record search).

Thank you for the time and effort put into clarifying the delivery of 37-114C on this application. Should you need more information or have any other concerns, please let us know.

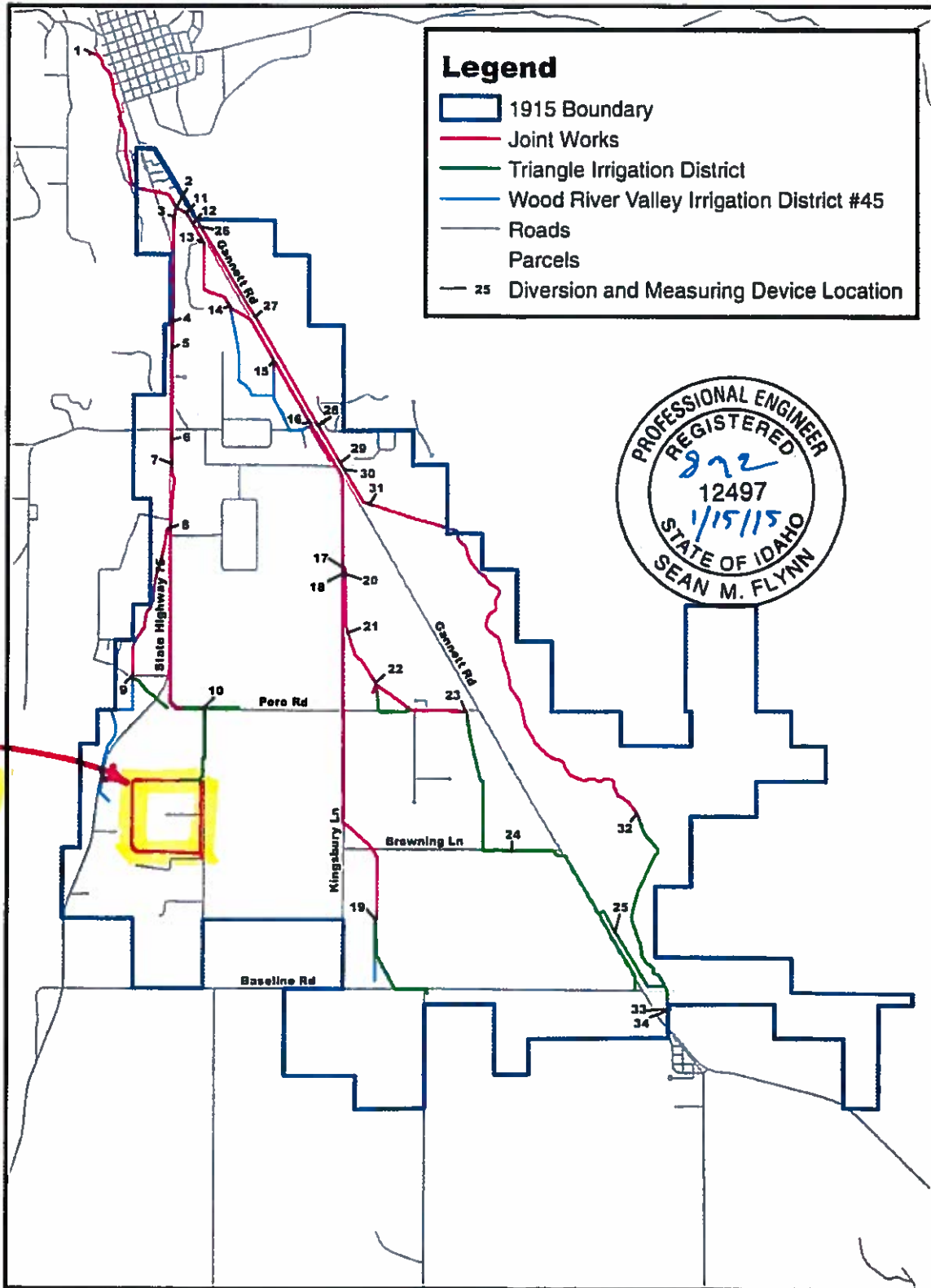
Sincerely,



Michael A. Harris
37-114C

Triangle Irrigation
District
revised conditions
of approval to
follow.

WOOD RIVER VALLEY IRRIGATION DISTRICT #45 AND TRIANGLE IRRIGATION DISTRICT JOINT WORKS



1 inch equals 1 mile

GALENA ENGINEERING, INC
01/15/15

Board of Control Joint Works Key

No.	JOINT WORKS*	NOTES	Property Status		
			JOINT	REMAINING	NEW
1	TID/D45 Headgates		X		
	Highway 75 Lateral				
2	The Split (Gates)		X		
3	Parshall Flume/Measuring Device		X		
4	Diversion	Englehardt	X		
5	Diversion	Silver Creek Farms	X		
6	Diversion	Gregory Ranch	X		
7	Diversion & Drop	Knight	X		
8	Diversion	Walker	X		
9	Diversion	Eakin	X		
10	Diversion	Stevenson/Harris			X
11	Gannett Road East/West Split (Gates)		X		
	Center Lateral				
12	Parshall Flume/Measuring Device		X		
13	Drop		X		
14	Diversion	Bellevue Farms	X		
15	Diversion	Lookout Circle/Eastfield	X		
16	Drop		X		
17	Diversion	Kingsbury/W Gannett	X		
18	Parshall Flume/Measuring Device		X		
19	Diversion	Stevenson, O'Gara, Jarmusz	X		
20	Parshall Flume/Measuring Device		X		
21	Diversion	Struthers	X		
22	Diversion		X		
23	Diversion		X		
24	Diversion	Nisson			X
25	Diversion	Gardner			X
	Gannett Road Lateral				
26	Parshall Flume/Measuring Device		X		
27	Diversion	Belle Ranch	X		
28	Diversion	Griffin Ranch	X		
29	Parshall Flume/Measuring Device		X		
30	Diversion	Cove Ranch	X		
31	Diversion	Cove Ranch	X		
32	Diversion	Cove Ranch	X		
33	Diversion	Loving Springs/Bashaw			X
34	Diversion	Gardner			X

*see Joint Works Map for locations

1/4 HYN

Excess Flow Analysis for Harris Transfer # 4909

I. Calculation of Sprinkler Flow Needs

$$FIR = 4.2 \left[\frac{ET}{FAE} \right] = 4.2 \left[\frac{(0.842 \times ET_{STD} \times M_F) + A_V ET}{FAE (25.4)} \right] P_F$$

Using the Brackley & Allen Report for Picabo by calculation it appears Alfalfa (Ref. Crop) or Wagon in June has the highest water use requirement. Using the soil program it is found that the soil P_F factor for grain is 1.12 which is greater than the P_F for alfalfa. From Figure A-7 from Hubble Report a center pivot's efficiency is 75-88%.

$$\therefore ET_{STD} = .54$$

$$A_V ET = 7.79$$

$$M_F = 2.70$$

$$P_F = 1.12$$

$$FAE = \frac{75+88}{2} = 81.5$$

$$\therefore FIR_{\text{sprinkler}} = 4.2 \left[\frac{(0.842 \times 0.54 \times 2.70) + 7.79}{81.5 (25.4)} \right] 1.12 = 0.020 \text{ cfs}$$

$\therefore$ For 132 acres the field headgate requirement for sprinklers is $132 \times 0.020 = 2.64 \text{ cfs}$

II. Calculation of Flood Flow Needs

By using the Hubble Report & Report to SRDA Court and using MAD 1.77 based on grain; the attached flow analysis was made.

It was found that FAE of 39.41% could be achieved with 8 hr. set times and 300' run lengths.

$$\therefore FIR_{\text{Flood}} = 4.2 \left[\frac{(0.842 \times 0.54 \times 2.70) + 7.79}{39.4 (25.4)} \right] 1.12 = 0.0372 \text{ cfs/acre}$$

$\therefore$ For 20 acres the field headgate requirement for flood is $20 \times 0.0372 \approx 0.75 \text{ cfs}$.

III. Total Field headgate Requirement

$$FIR_{\text{sprinkler}} + FIR_{\text{flood}} = FIR_{\text{total}}$$

$$2.64 + 0.75 = 3.39 \text{ cfs}$$

IV. Conveyance Loss

In determining the loss associated with the District Canal I have relied on past and recent conversations with Jim Eakin, manager of District Canal. In the past he has indicated there is a 15% loss in the upper section of the canal down to where the canal splits. He indicates that this is when the 1886 water is being delivered. He indicates that this has been measured several times in the past with help from Reid Newby. I have calculated the amount of water that would be in the canal when the 1886 are on based on AJ claims and find 215.4 cfs in the canal. Based on this, Hewitt's share of the loss in the upper reach would be $(215.4)(.15) \frac{12.56}{215.4} = 1.88 \text{ cfs}$.

To determine the Hewitt's share of the loss in the West canal I have reviewed the rights that are on with the 5/1/1886 priority or senior and run the Worstell Lotus program. I based the seepage rate on the observation or test run on this canal by Eakin. He indicated that a few years ago they shut off all deliveries in the canal and cut back the inflow to 940" and let it run. The results were that the water all sank in the reach from the split to the corner

4/8

where his house is located. By back calculating this into the worstell equation the "i" or "c" value is found to be 6.5 ft/day which is on the upper end of the range for very gravelly soils from California DWR Inspection Manual found on page 35 of Hubble and within the range of Unlined canals in the worstell values found on page 36 of Hubble. Using 6.5 ft/day I prepared the attached West Canal conveyance loss using the Worstell Lotus program. It was calculated that Harris's portion would be 7.84 cfs.

Total conveyance loss estimate would be,
 $7.84 + 1.88 = 9.72$ cfs.

V. Total Justifiable Irrigation Diversion Requirement

Total field headgate requirement = 3.39 cfs.

Conveyance loss requirement = 9.72 cfs

Total justifiable Irrig.
Div. Flow = 13.11 cfs.

∴ The 12.52 requested on the transfer is reasonable.

District Canal (West Canal)

CONVEYANCE LOSS - WORSTELL

REACH (FT)	LENGTH (FT)	AVE WIDTH (FT)	SEEPAGE (FT/DAY)	WORSTELL LOSS (CFS)	DELIVERY LEFT (CFS)	LOSS FACTOR	DELIVERY LOSS (CFS)	FLOW (CFS)
1	5000	12.0	6.50	4.93	50.99	0.0966	0.32	73.57
2	5000	12.0	6.50	4.93	47.65	0.1034	1.28	65.31
3	2600	12.0	6.50	2.56	41.26	0.0621	1.73	53.99
4	7900	12.0	6.50	7.78	34.66	0.2246	4.86	44.83
5	1320	12.0	6.50	1.30	24.67	0.0527	6.55	27.05
6	2640	5.0	6.50	1.08	12.52	0.0866	7.84	19.80
7				0.00	0.00	0.0000	0.00	0.00
8				0.00	0.00	0.0000	0.00	0.00
9				0.00	0.00	0.0000	0.00	0.00
10				0.00	0.00	0.0000	0.00	0.00
11				0.00	0.00	0.0000	0.00	0.00
12				0.00	0.00	0.0000	0.00	0.00
13				0.00	0.00	0.0000	0.00	0.00
14				0.00	0.00	0.0000	0.00	0.00
15				0.00	0.00	0.0000	0.00	0.00
16				0.00	0.00	0.0000	0.00	0.00
17				0.00	0.00	0.0000	0.00	0.00
18				0.00	0.00	0.0000	0.00	0.00
19				0.00	0.00	0.0000	0.00	0.00
20				0.00	0.00	0.0000	0.00	0.00
TOTALS	24460			22.58	50.99		22.58	

Hawis

REACH = SECTION OF CHANNEL

LENGTH = LENGTH OF REACH, THE CHANNEL CAN BE DIVIDED INTO EQUAL LENGTH REACHES
OR ACTUAL LENGTHS BETWEEN DELIVERY POINTS

AVE WIDTH = AVERAGE TOP WIDTH OF REACH

SEEPAGE = SOIL SEEPAGE RATE OF REACH

WORSTELL LOSS = CONVEYANCE LOSS IN REACH BASED ON WORSTELL METHOD

DELIVERY = TOTAL DELIVERIES IN REACH

DELIVERY LEFT = SUM(DELIVERIES OF CURRENT AND REMAINING REACHES)

LOSS FACTOR = WORSTELL LOSS/DELIVERY LEFT

DELIVERY LOSS = SUM(LOSS FACTORS OF CURRENT AND PREVIOUS REACHES) X DELIVERY,

REPRESENTS THE LOSSES ASSIGNED TO THE DELIVERIES IN THE REACH

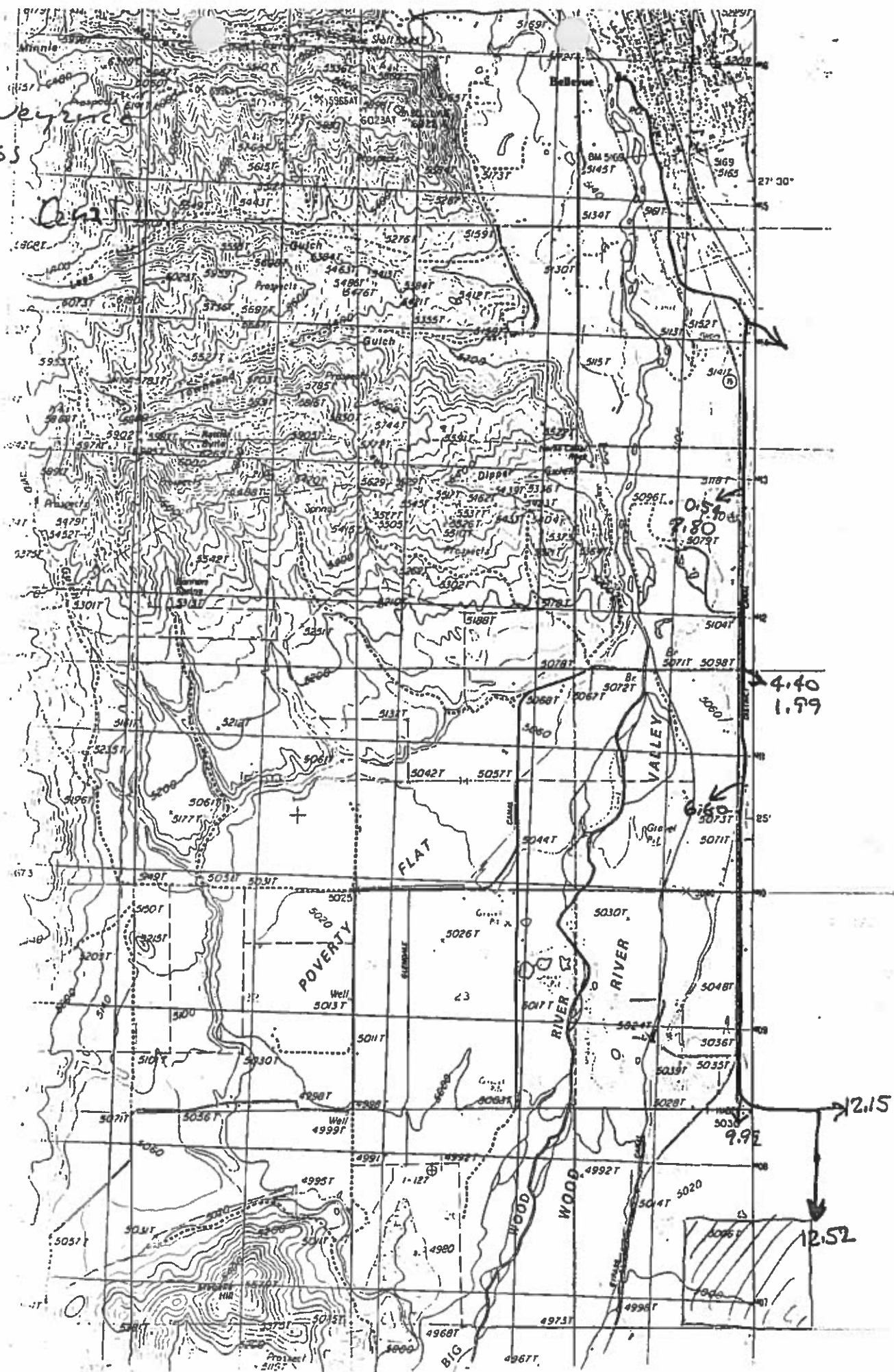
FLOW = TOTAL FLOW AT BEGINNING OF EACH REACH

Share of Main Canal Loss

$$\frac{12.52}{215.4} \times 32.31 = 1.88$$

$$\begin{array}{r} \text{Total Hawis Loss} \\ 7.84 \\ \underline{1.88} \\ 9.72 \text{ cfs} \end{array}$$

West



①

Ezkin

.06
.64
2.00
.44
3.86
2.80
0.19
9.99 ✓

Disbennett

0.57 ✓

Hertz - Marshall

1.00
4.00
1.60
6.60 ✓

Harris

12.52 ✓

G. Mann
R. Mann,

1.80
1.00 ✓

Gregory Ruel

2.80
1.60
4.40 ✓

Steele

1.00
.80
1.43
8.80
0.12
12.15 ✓

Miller

0.13

Fosnot

0.86

Stephenson

0.12

Meyers

0.18

McCrory

0.40

Chex

0.30

Total West Ditch

31 cfs

Est Dites

6/12/86

4.00	1.60	1.00
2.88	2.28	3.20
0.40	0.54	0.03
0.32	0.08	1.10
0.32	1.38	2.00
0.32	1.00	~~1.00~~
0.22	0.40	1.60
8.16	2.00	1.40
3.00	0.70	.52
1.38	1.00	1.40
0.76	0.06	1.78
0.04	0.08	.48
0.45	0.15	1.40
10.87	0.30	3.60
13.67	0.55	3.42
2.06	0.48	8.80
0.08	1.60	3.20
0.06	4.28	3.20
0.09	0.25	0.79
0.15	2.54	0.80
0.30	1.70	0.03
0.04	0.80	0.20
0.16	3.20	0.80
0.13	3.48	0.25
0.18	2.24	0.40
0.30	1.77	0.39
0.60	2.46	0.40
0.07	4.20	0.40
3.01	8.40	0.27
3.01	0.99	0.04
2.20		
4.00		
0.60		
4.20		
2.00		
4.00		

50.51

39.90

74.03 JUN 02 1998

CLAIM NUMBER
AGENT
DATE

IDAHO DEPARTMENT OF WATER RESOURCES
IRRIGATION APPLICATION ANALYSIS BASED UPON SOIL TYPE AND
CONSUMPTIVE USE INFORMATION

Lotus Program: C:\DATA\MAD\SOIL-ANA.WK4
Date form created: 07-27-95 by JP
Date form revised: 12-21-95 by KKC

SOIL CHARACTERISTICS

PROGRAM APPLICATION IS FOR
WILD FLOODING ONLY

Soil Type = **SM-LITTLEWOOD GRAVELLY LOAM**
Source of Soils Data = **Printout From SCS State Office**

Soil depth (in)	AWC* (in per in)		pH level		Organic material %	AWC programatically totalled at one ft intervals	
	lower	upper	lower	upper		Soil Depth (ft)	AWC* (inches)
0-13	0.13	0.11	6.1	6.5	2.5	1	1.50
13-26	0.26	0.21	6.1	6.5	2.5	2	2.84
26-32	0.32	0.04	6.1	6.5	2.5	3	3.47
32-60	0.60	0.02	6.1	6.5	2.5	4	3.83
						5	4.20

* AWC = Available Waterholding Capacity

INTAKE FAMILY

Choose the base number from the table below, matching the soil texture description with the soil texture as described in the SCS soils book under the ENGINEERING INDEX PROPERTIES table. Enter that number in the SELECTION field below. That selection will then be adjusted programatically for the Organic and pH levels of this soil (if necessary). The adjusted value is shown in the RESULTS field below and again in the DATA SUMMARY field on page 2.

ALTERNATIVE A

Base Number	Intake Family Flood	Intake Family Furrow	Texture
0	0.00	0.00	alternative b selected
1	0.30	0.30	heavy clays, silty clay (> 60% clay)
2	0.50	0.35	clays, silt loam (lake laid), sandy clay
3	1.00	0.40	silty clay loam, clay loam, sandy clay loam, silt loam (stream laid)
4	1.50	0.50	silt loam (wind laid), loam, very fine sandy loam
5	2.00	0.55	sandy loam, fine sandy loam, gravelly loam
6	3.00	0.70	very fine sand, loamy sands, gravelly sandy loam
7	4.00	0.85	sand

Intake Family selection programatically
adjusted for:

PH ORGANIC MIN. LEVEL
LEVEL CHECK

ALTERNATIVE A RESULTS

SELECTION = **5**
(from 0 to 7)

Flood **3.00**
Furrow **0.70**

CALCULATED NIA OR MAD

Net Irrigation Application = (NIA) aka Management Allowed Deficit = (MAD)

Crop	Root Depth (ft)	Stress Point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.10
corn (field or silage)	4	0.5	1.92
grain (winter or spring)	4	0.5	1.92
pasture (or grass hay)	3	0.5	1.74
other (enter below)			
crop =			0.75

For other enter the crop, the root depth and stress point in their respective columns.
The MAD value will then be calculated.

Factors of MAD are: 1. Crop rooting zone. 2. Crop stress point. 3. Available water capacity of the soil.

The stress point is that point at which the plant begins to show signs of stress.

ALTERNATIVE B

If you wish to assign an intake family by an alternate method (from Table A-3 in the Hubbs Report or other source) enter your selection below. Enter a value for both flood and furrow if known, otherwise enter zero. If you do not wish to assign an intake family by the alternate method, enter zero for both values.

NOTES:

MICROFILM

INTAKE FAMILY
Flood **3.00**
Furrow **0.70**

ALTERNATIVE B RESULTS

SELECTION = **5**
(from 0 to 7)

Flood **NA**
Furrow **NA**

FIELD IRRIGATION REQUIREMENT

Lotus Program: C:\DATA\ADJ\SOIL-ANA.WK4

WEATHER STATION = **FIGABO**
FIGURE NO = **10-82**
ALLEN & BROCKWAY WEATHER INFORMATION (1983)

Net Irrigation Requirement (NIR)
(monthly average in mm/day)

Crop	Acres	Inf.	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Season (MM/YR)	Net Irrig. app. (in) NIA or MAD	Cir Ratio	Irrigation Frequency (days)
Field 1 = ALFALFA					2.88	6.0	6.49	4.66	2.04		60.1	2.10	1.11	7.4
Field 2 = WGRAIN			0.16	1.44	1.82	8.84	7.87	4.90	0.56		80.2	1.92	1.11	5.6
Field 3 = PASTURE				0.55	3.71	5.12	6.04	4.86	3.49	1.97	73.5	1.74	1.12	6.5

Each FIELD entry above represents a separate field with different characteristics such as crop usage or field dimensions. These entries are referenced below in the FIELD NOTES AND CALCULATIONS section.

The MAD value program calculated on page 1 in the CALCULATED NIA or MAD section is to be data entered in this section based upon the specific crop variety.

The Cir Ratio is a correctional factor used to adjust the NIR to reflect the Peak Irrigation Requirement which is then used in the calculation of the irrigation frequency (days) field. This is a program look-up value based upon the data entered MAD value. The table is not printed in the output.

The Irrigation Frequency formula is:
(MAD*25.4)/(MONTHLY MAX NIR*CIR RATIO)

FIELD NOTES AND CALCULATIONS

	FIELD 1	FIELD 2	FIELD 3
Ditch Length =	0	0	0
Irrigation days =	0	0	0
Dry days =	0	0	0
Inflow (set) time (in hours) =	8	8	8
Calculated Run Length (Run) =			
Calculated width =			
Adj border width =			
Calculated Run formula = (field acres*43560/width of field)			
Calculated width formula = (ditch length/(ir days * changes per day))			

DITCH LENGTH CALCULATION

To calculate a ditch length for a known average run of a specific field, enter the field number and then the known run.

field no. = 0
run calculated = 0
ditch length NA

DATA SUMMARY

	FIELD 1	FIELD 2	FIELD 3
Field width for the border program =			
Field run for the border program =			
Management Allowed Deficit (MAD) =	2.10	1.92	1.74
Inflow or set time =	8	8	8
Calculated intake family			
Alt A flood =	3.00		
Alt A furrow =	0.70		
Alt B flood =	NA		
Alt B furrow =	NA		

General Program Operation based upon:
GUIDELINES FOR THE EVALUATION OF IRRIGATION DIVERSION RATES.
HUBBLE ENGINEERING INC. OCTOBER 1991

Peak Irrigation Requirement based upon:
MARVIN JENSEN
DESIGN & OPERATION OF FARM IRRIGATION SYSTEMS, 1983, pp 223

Soil characteristics based upon:
SOIL SURVEY (COUNTY SPECIFIC).
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE.
PUBLICATION DATE BASED UPON COUNTY
COMPLETION DATE

Net Irrigation Requirement based upon:
ALLEN & BROCKWAY WEATHER INFORMATION.
1983

Lotus Program: C:\DATA\ADJUSOIL-ANA.WK4
Date form created: 07-27-95 by jp
Date form revised: 12-21-95 by KKC

CALCULATED NIA OR MAD

**AVC programmatically
linked at one to infants**

Soil depth (in)		AWC ^a (in per in)		pH level		Organic material %		Soil Depth (ft)		AWC ^a (inches)
lower	upper	lower	upper	lower	upper	lower	upper			
0	10	0.08	0.11	6.1	6.5	2	4	1		1.22
10	25	0.11	0.12					2		2.54
25	35	0.04	0.06					3		3.18
35	60	0.02	0.04					4		3.54
								5		3.90

- **AVWC = Available Waterholding Capacity**

Choose the base number from the table below, matching the soil texture description with the soil texture as described in the SCS soils book under the ENGINEERING INDEX PROPERTIES table. Enter that number in the SELECTION field below. That selection will then be adjusted programatically for the Organic and PH levels of this soil (if necessary). The adjusted value is shown in the RESULTS field below and again in the DATA SUMMARY field on page 2.

Base Number	Intake Family		Texture
	Flood	Furnow	
0	0.00	0.00	alternative b selected
1	0.30	0.30	heavy clays, silty clay (> 60% clay)
2	0.50	0.35	clays, silt loam, (clay laid), sandy clay
3	1.00	0.40	silty clay loam, clay loam, sandy clay loam, silt loam (stream laid)
4	1.50	0.50	silt loam (wind laid), loam, very fine sandy loam
5	2.00	0.55	sandy loam, fine sandy loam, gravelly loam
6	3.00	0.70	very fine sand, loamy sands, gravelly sandy loam
7	4.00	0.85	sand

Intake Family selection programmatically adjusted for:

(from 0 to 7)

BASE NUMBER

PH	ORGANIC	MIN. LEVEL
LEVEL	LEVEL	CHECK
6	6	6

ALTERNATIVE A RESULTS	
Flood	Furrow
3.00	0.70

ALTERNATIVE A RESULTS

Flood	Furrow
3.00	0.70

SELECTION

000-000

INTAKE FAMILY
Flood Furtow

ALTERNATIVE B RESULTS

Flood	Furnace
NA	NA

NOTES

ALTERNATIVE B

If you wish to assign an intake family by an alternate method (from Table A-3 in the Hubble Report or other source) enter value below. Enter a value for both flood and unflood if known, otherwise enter zero. If you do not wish to assign an intake family by the alternate method, enter zero for both values.

For other enter the crop, the root depth and stress point in their respective columns. The MAD value will then be calculated.

Factors of MAD are: 1. Crop rooting zone, 2. Crop stress point, 3. Available water capacity of the soil.

The stress point is that point at which the plant begins to show signs of stress.

Crop	Root Depth (ft)	Stress		MAD (inches)
		Point		
oat/hay (hay or seed)	5	0.5		1.95
corn (field or silage)	4	0.5		1.77
grain (winter or spring)	4	0.5		1.77
pasture (or grass hay)	3	0.5		1.59
other (enter below)				
crop =	1	0.5		0.61

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JUN 02 1998

FIELD IRRIGATION REQUIREMENT

Lotus Program: C:\DATA\ADUSOIL-ANA.WK4

WEATHER STATION = **PICABO**
FIGURE NO = **10-82**
ALLEN & BROCKWAY WEATHER INFORMATION (1983)

Net Irrigation Requirement (NIR)
(monthly average in mm/day)

Crop	Acres	Intg. System	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Season (MM/YR)
Field 1 = ALFALFA					2.89	6.10	6.49	4.68	2.04		661
Field 2 = WGRAIN			0.16	1.44	4.82	6.84	7.87	4.30	0.38		802
Field 3 = PASTURE				0.95	3.71	5.12	6.04	4.86	3.49	1.97	795

Net Irrig. app. (in)	Cir Ratio	Irrigation Frequency (days)
1.95	1.11	6.9
1.77	1.12	5.1
1.59	1.12	6.0

Each FIELD entry above represents a separate field with different characteristics such as crop usage or field dimensions. These entries are referenced below in the FIELD NOTES AND CALCULATIONS section.

*The MAD value program calculated on page 1 in the CALCULATED NIA or MAD section is to be data entered in this section based upon the specific crop variety.

The Cir Ratio is a correctional factor used to adjust the NIR to reflect the Peak Irrigation Requirement which is then used in the calculation of the irrigation frequency (days) field. This is a program look-up value based upon the data entered MAD value. The table is not printed in the output.

The Irrigation Frequency formula is:
(MAD*25.4)/(MONTHLY MAX NIR*CIR RATIO)

FIELD NOTES AND CALCULATIONS

	FIELD 1	FIELD 2	FIELD 3
Ditch Length =	0	0	0
Irrigation days =	0	0	0
Dry days =	0	0	0
Inflow (set) time (in hours) =	8	8	8
Calculated Run Length (Run) =			
Calculated width Adj border width =			
Calculated Run formula = (field acres*43560/width of field)			
Calculated width formula = (ditch length/(ir days * changes per day))			

DITCH LENGTH CALCULATION

To calculate a ditch length for a known average run of a specific field, enter the field number and then the known run.

field no. = 0
run = 0
calculated ditch length NA

DATA SUMMARY

Field width for the border program =	FIELD 1	FIELD 2	FIELD 3
Field run for the border program =			
Management Allowed Deficit (MAD) =	1.95	1.77	1.59
Inflow or set time =	8	8	8
Calculated intake family			
Alt A flood =	3.00		
Alt A furrow =	0.70		
Alt B flood =	NA		
Alt B furrow =	NA		

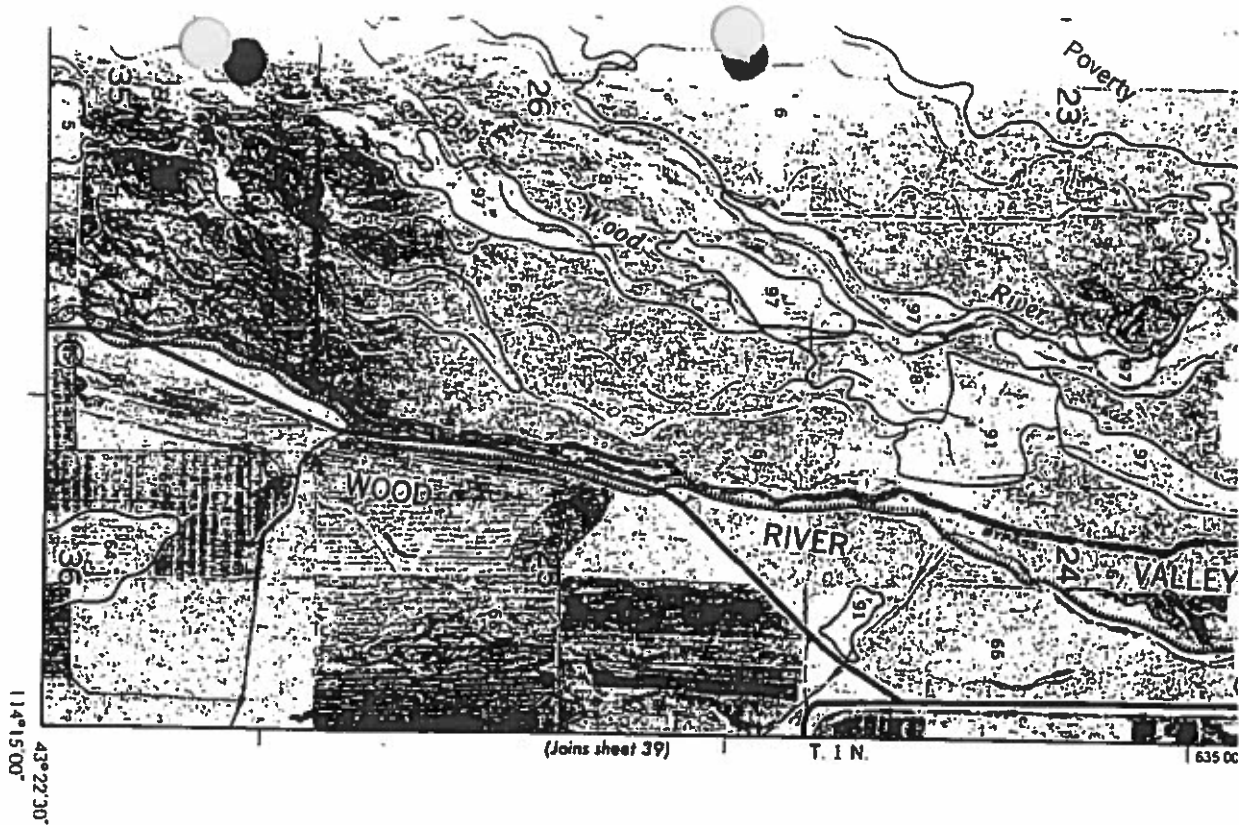
General Program Operation based upon:
GUIDELINES FOR THE EVALUATION OF IRRIGATION DIVERSION RATES,
HUBBLE ENGINEERING INC. OCTOBER 1991

Peak Irrigation Requirement based upon:
MARVIN JENSEN

DESIGN & OPERATION OF FARM IRRIGATION SYSTEMS, 1983, pp 223

Soil characteristics based upon:
SOIL SURVEY (COUNTY SPECIFIC),
UNITED STATES DEPARTMENT OF AGRICULTURE,
SOIL CONSERVATION SERVICE,
PUBLICATION DATE BASED UPON COUNTY
COMPLETION DATE

Net Irrigation Requirement based upon:
ALLEN & BROCKWAY WEATHER INFORMATION,
1983



BLAINE COUNTY AREA, IDAHO NO. 10

This soil survey map was compiled by the U.S. Department of Agriculture

A 2.10
G 1.92
P 1.79

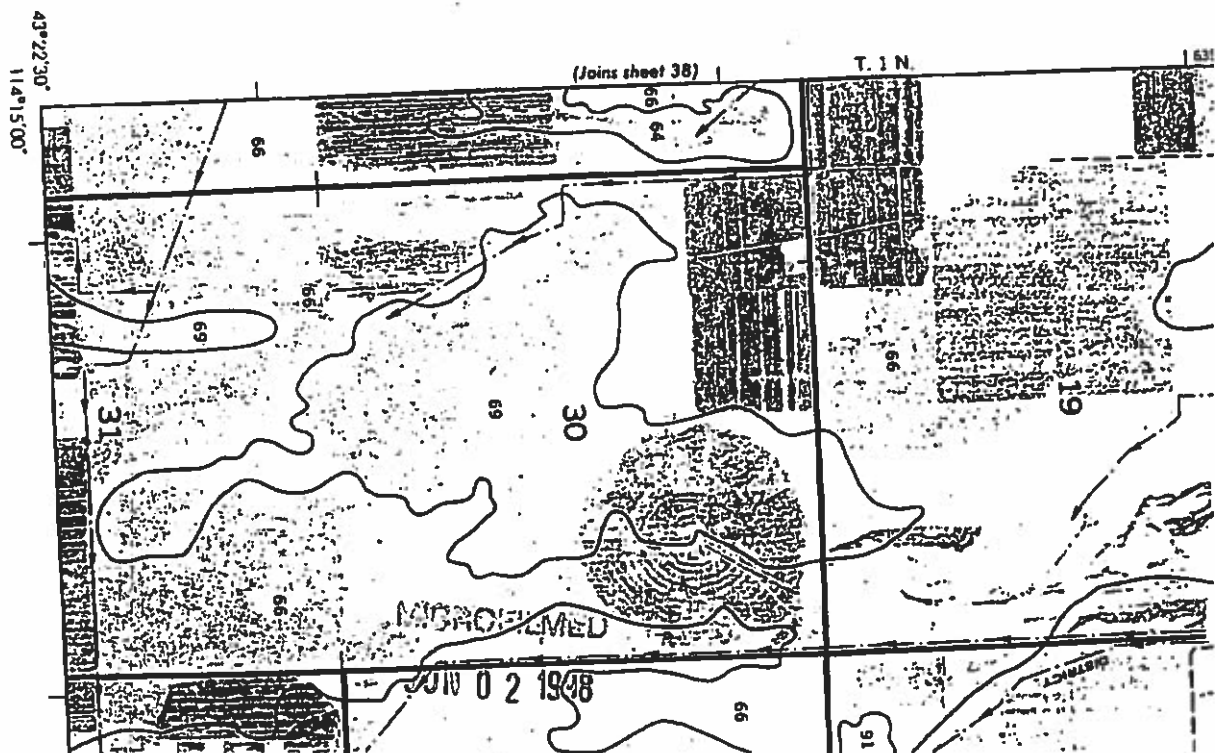


TABLE 13.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification		Frag-ments > 3 inches Pct	Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO		4	10	40	200		
64, 65----- Little Wood	<u>In</u>										
	0-13	Gravelly loam----	GM, CL-ML, ML, GM-GC	A-2, A-4	0	55-80	50-75	40-70	30-55	25-35	5-10
	13-26	Very gravelly sandy clay loam, very gravelly loam, very gravelly clay loam.	GC	A-2	0-15	45-55	40-50	20-40	10-35	30-50	10-25
	26-32	Extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam.	GM, GP-GM	A-1	5-20	25-35	20-30	10-20	5-15	15-20	NP-5
65----- Little Wood	32-61	Extremely gravelly loamy coarse sand, extremely gravelly coarse sand.	GP, GP-GM	A-1	5-20	20-35	15-30	5-20	0-10	---	NP
	0-10	Very gravelly loam.	GM, GM-GC	A-2, A-4	0-5	45-55	40-50	30-50	20-40	25-35	5-10
	10-25	Very gravelly sandy clay loam, very gravelly loam, very gravelly clay loam.	GC	A-2	0-15	45-55	40-50	20-40	10-35	30-50	10-25
	25-35	Extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam.	GM, GP-GM	A-1	5-20	25-35	20-30	10-20	5-15	15-20	NP-5
67----- Little Wood	35-61	Extremely gravelly loamy coarse sand, extremely gravelly coarse sand.	GP, GP-GM	A-1	5-20	20-35	15-30	5-20	0-10	---	NP
	0-10	Very gravelly loam.	GM, GM-GC	A-2, A-4	0-5	45-55	40-50	30-50	20-40	25-35	5-10
	10-22	Very gravelly sandy clay loam, very gravelly loam, very gravelly clay loam.	GC	A-2	0-15	45-55	40-50	20-40	10-35	30-50	10-25
	22-32	Extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam.	GM, GP-GM	A-1	5-20	25-35	20-30	10-20	5-15	15-20	NP-5
	32-61	Extremely gravelly loamy coarse sand, extremely gravelly coarse sand.	GP, GP-GM	A-1	5-20	20-35	15-30	5-20	0-10	---	NP

See footnote at end of table.

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TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

Soil name and map symbol	Depth	Clay	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Erosion factors		Wind erodibility group	Organic matter
								K	T		
	In	Pct	In/hr	In/in	pH	mmhos/cm					Pct
61*:											
Lavacreek-----	0-23	---	0.6-2.0	0.09-0.12	6.1-7.3	<2	Low-----	0.28	3	8	1-3
	23-41	10-20	0.6-2.0	0.08-0.11	6.1-7.3	<2	Low-----	0.24			
	41-49	10-20	2.0-6.0	0.05-0.08	5.6-7.3	<2	Low-----	0.24			
	49	---	---	---	---	---	---	---			
Dollarhide-----	0-7	8-18	2.0-6.0	0.08-0.13	6.6-7.8	<2	Low-----	0.20	1	8	1-3
	7-16	8-18	2.0-6.0	0.05-0.09	6.6-7.8	<2	Low-----	0.10			
	16-20	---	---	---	---	---	---	---			
62*:											
Lavacreek-----	0-9	---	0.6-2.0	0.09-0.12	6.1-7.3	<2	Low-----	0.28	3	8	1-3
	9-38	10-20	0.6-2.0	0.08-0.11	6.1-7.3	<2	Low-----	0.24			
	38-43	10-20	2.0-6.0	0.05-0.08	5.6-7.3	<2	Low-----	0.24			
	43-47	---	---	---	---	---	---	---			
Dollarhide-----	0-7	8-18	2.0-6.0	0.08-0.13	6.6-7.8	<2	Low-----	0.20	1	8	1-3
	7-16	8-18	2.0-6.0	0.05-0.09	6.6-7.8	<2	Low-----	0.10			
	16-20	---	---	---	---	---	---	---			
63*:											
Lavacreek-----	0-23	---	0.6-2.0	0.09-0.12	6.1-7.3	<2	Low-----	0.28	3	8	1-3
	23-41	10-20	0.6-2.0	0.08-0.11	6.1-7.3	<2	Low-----	0.24			
	41-49	10-20	2.0-6.0	0.05-0.08	5.6-7.3	<2	Low-----	0.24			
	49	---	---	---	---	---	---	---			
Vitale-----	0-6	15-25	2.0-6.0	0.12-0.14	6.1-7.3	<2	Low-----	0.20	2	8	1-3
	6-15	28-35	0.6-2.0	0.14-0.17	6.6-7.8	<2	Moderate	0.10			
	15-23	15-25	0.6-2.0	0.10-0.12	6.6-7.8	<2	Low-----	0.17			
	23	---	---	---	---	---	---	---			
64, 65-----	0-13	15-25	2.0-6.0	0.11-0.14	6.1-6.5	<2	Low-----	0.20	2	5	2-4
Little Wood	13-26	20-35	0.6-2.0	0.10-0.12	6.1-7.3	<2	Moderate	0.10			
	26-32	5-15	6.0-20	0.04-0.06	6.6-7.3	<2	Low-----	0.05			
	32-61	0-5	>20	0.02-0.04	6.6-7.3	<2	Low-----	0.05			
66-----	0-10	15-25	2.0-6.0	0.09-0.11	6.1-6.5	<2	Low-----	0.17	2	5	2-4
Little Wood	10-25	20-35	0.6-2.0	0.10-0.12	6.1-7.3	<2	Moderate	0.10			
	25-35	5-15	6.0-20	0.04-0.06	6.6-7.3	<2	Low-----	0.05			
	35-61	0-5	>20	0.02-0.04	6.6-7.3	<2	Low-----	0.05			
67-----	0-10	15-25	2.0-6.0	0.09-0.11	6.1-6.5	<2	Low-----	0.17	2	5	2-4
Little Wood	10-22	20-35	0.6-2.0	0.10-0.12	6.1-7.3	<2	Moderate	0.10			
	22-32	5-15	6.0-20	0.04-0.06	6.6-7.3	<2	Low-----	0.05			
	32-61	0-5	>20	0.02-0.04	6.6-7.3	<2	Low-----	0.05			
68-----	0-12	17-25	0.6-2.0	0.09-0.11	5.6-6.5	<2	Low-----	0.10	3	5	1-2
Little Wood	12-16	25-35	0.6-2.0	0.08-0.10	6.1-6.5	<2	Moderate	0.10			
	16-24	22-30	0.6-2.0	0.05-0.07	6.1-7.3	<2	Low-----	0.05			
	24-31	16-20	2.0-6.0	0.03-0.05	6.1-7.3	<2	Low-----	0.05			
	31-60	0-6	>6.0	0.02-0.03	6.6-7.3	<2	Low-----	0.02			
69*:											
Little Wood-----	0-10	15-25	2.0-6.0	0.09-0.11	6.1-6.5	<2	Low-----	0.17	2	5	2-4
	10-25	20-35	0.6-2.0	0.10-0.12	6.1-7.3	<2	Moderate	0.10			
	25-35	5-15	6.0-20	0.04-0.06	6.6-7.3	<2	Low-----	0.05			
	35-61	0-5	>20	0.02-0.04	6.6-7.3	<2	Low-----	0.05			
Balsam-----	0-10	10-15	2.0-6.0	0.07-0.10	6.1-7.3	<2	Low-----	0.15	3	3	1-3
	10-24	5-10	2.0-6.0	0.05-0.09	6.6-7.8	<2	Low-----	0.10			
	24-63	0-5	>20	0.01-0.03	6.6-7.8	<2	Low-----	0.05			

See footnote at end of table.

JUN 02 1998

INTAKE FAMILY	DESIGN APPLIC. Inches	FURROW SLOPE Ft/Ft	FURROW SPACING Feet	FURROW LENGTH Feet	INFLOW RATE Gpm	APPROXIMATE INFLOW TIME Hours	ADVANCE TIME Minutes	GROSS IRRIGATION APPLICATION Inches	NET IRRIGATION APPLICATION Inches	RUNOFF Inches	DEEP PERC. In.	IRRIGATION EFFICIENCY %
0.70	1.77	.008	2.00	600	10.0	8	62.1	6.42	4.52	1.59	3.06	27.59
0.70	1.77	.008	2.00	600	8.0	8	80.6	5.13	4.17	0.56	2.80	34.48
0.70	1.77	.008	2.00	600	7.0	8	97.0	4.49	3.94	0.07	2.65	39.41
0.70	1.77	.008	2.00	300	6.5	8	24.4	8.34	4.41	3.83	2.74	21.22
0.70	1.77	.008	2.00	300	6.5	8	24.4	8.34	4.41	3.83	2.74	21.22
0.70	1.77	.008	2.00	300	5.5	8	28.3	7.06	4.24	2.69	2.60	25.08
0.70	1.77	.008	2.00	300	4.5	8	34.9	5.77	4.05	1.58	2.43	30.65
0.70	1.77	.008	2.00	300	3.5	8	48.5	4.49	3.79	0.49	2.23	39.41

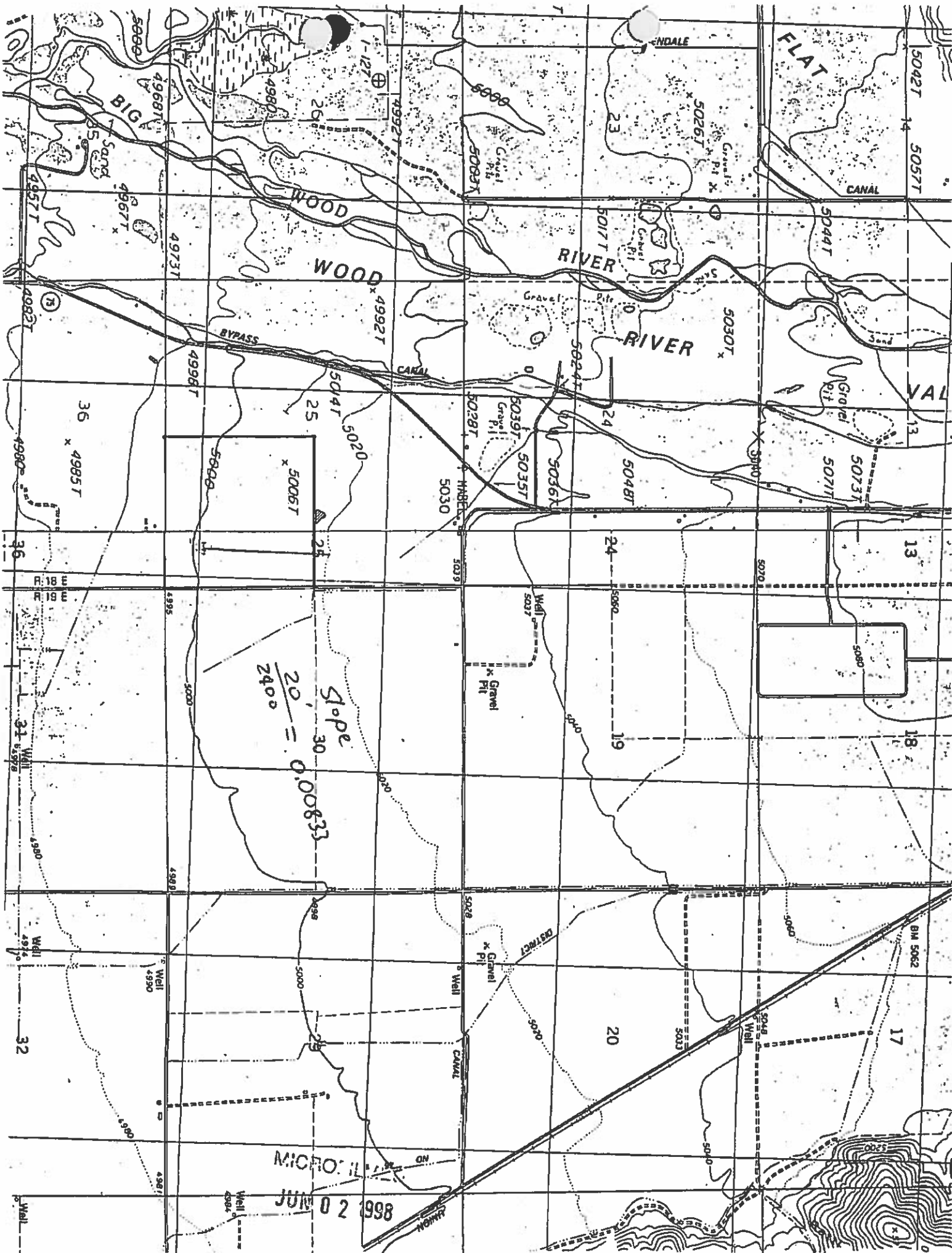
8 hr set times.

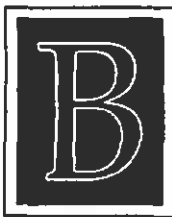
MICROFILMED
JUN 02 1998

INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
	Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Inches	Inches	Inches	In.	%
0.70	1.77	.008	2.00	600	10.0	12	62.1	9.62	6.31	3.04	4.82	18.39
0.70	1.77	.008	2.00	600	6.5	12	108.8	6.26	5.47	0.29	4.19	28.29
0.70	1.77	.008	2.00	300	6.5	12	24.4	12.51	6.02	6.39	4.35	14.15
0.70	1.77	.008	2.00	300	5.5	12	28.3	10.59	5.81	4.67	4.15	16.72
0.70	1.77	.008	2.00	300	4.5	12	34.9	8.66	5.56	2.96	3.93	20.43
0.70	1.77	.008	2.00	300	3.5	12	48.5	6.74	5.25	1.30	3.67	26.27
0.70	1.77	.008	2.00	300	3.0	12	62.2	5.77	5.04	0.49	3.52	30.65
0.70	1.77	.008	2.00	300	3.0	12	62.2	5.77	5.04	0.49	3.52	30.65
0.70	1.77	.008	2.00	600	6.5	12	108.8	6.26	5.47	0.29	4.19	28.29
0.70	1.77	.008	2.00	600	6.2	12	117.6	5.97	5.37	0.07	4.12	29.66
0.70	1.77	.008	2.00	600	6.1]	12	119.8	5.90	5.34	0.02	4.11	30.00
0.70	1.77	.008	2.00	600	6.1 2	12	120.2	5.89	5.34	0.01	4.11	30.05
0.70	1.77	.008	2.00	600	6.1 1	12	120.5	5.88	5.33	0.01	4.10	30.10

Brooklyn
12 hr
assumption -
set times.

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JUN 02 1988





BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

NOV 28 1997

NOV 28 1997

Department of Water Resources
Boise, Idaho

November 26, 1997

Mr. Allen Merritt
Idaho Department of Water Resources
1341 Fillmore Street, Suite 200
Twin Falls, ID 83301

Re: Transfer application No. 4909 - Harris

Dear Allen:

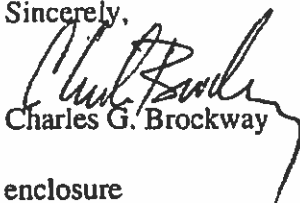
In support of the above-referenced transfer application, we have conducted a water requirements evaluation to determine the maximum justifiable diversion rate for water right 37-0114B.

The analysis procedures outlined in the Hubble report were used, as detailed in the enclosed report. Clarence Robison of the University of Idaho has reviewed the report, and in his opinion, the analysis and results are reasonable. Based on border irrigation with a crop of winter grain, it appears a maximum of 12.89 cfs can be justified at the District 45 headgate for the historical flood irrigation of the 152 acres (4.24 miners inches/acre).

Please accept this analysis as supplementary information in support of SRBA claim A37-0114C in addition to Transfer No. 4909.

Please give me a call if you have any questions.

Sincerely,


Charles G. Brockway

enclosure

cc: Michael Harris and Pepin Corso-Harris

CHARLES E.
BROCKWAY,
Ph.D., P.E.

CHARLES G.
BROCKWAY,
Ph.D.

706 SUNRISE
BOULEVARD
NORTH

TWIN FALLS,
IDAHO 83301

208•733•0938
208•734•2580

FAX: 736•1746

MICROFILMED

JUN 02 1998

T#4909

Webster, Clay

From: Webster, Clay
Sent: Friday, February 20, 2015 2:57 PM
To: 'pepin1776@gmail.com'
Cc: 'mharris1950@gmail.com'; Knowles, Corbin; Kelly, Patrick
Subject: Copy of Letter mailed 2/3/2015
Attachments: DOC005.pdf

Pepin Harris,

Here is a copy of the letter you requested.

Sincerely,

Clay Webster

Water Resource Agent

clay.webster@idwr.idaho.gov

208-287-4910

Idaho Department of Water Resources (IDWR)

322 E. Front Street

P.O. Box 83720

Boise, ID 83720-0098

208-287-4800

www.idwr.idaho.gov



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: www.idwr.idaho.gov

GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

February 3, 2015

MICHAEL A HARRIS
11 PURPLE SAGE LN
BELLEVUE ID 83313

**RE: IRRIGATION DISTRICT REQUIREMENT FOR APPLICATION TO
LEASE WATER RIGHTS TO THE WATER SUPPLY BANK
37-114C & 37-7609**

******TIME SENSITIVE RESPONSE REQUIRED******

Dear Applicant:

The Department of Water Resources (Department) acknowledges receipt of your Application to Lease water rights to the Water Supply Bank (Bank). A receipt for \$250.00 application fee is enclosed. A preliminary review of your application has found required information was not been included with the application.

Attachment 1D on the Bank lease application form asks, "Written consent from irrigation district or water delivery company" You have checked "Yes", with a letter from the Triangle Irrigation District. However all the surface water rights (37-114C) are described as being delivered through Irrigation District #45 Canal.

Idaho Administrative Code IDAPA 37-02.03.025 Acquisition of Water Rights for the Board's Water Supply Bank at <http://adminrules.idaho.gov/rules/current/37/0203.pdf> requires the written consent of an irrigation company be submitted with the application for lease. **Please contact Irrigation District #45 for written consent and submit it to the department to complete your application.**

The application will be returned, unprocessed, if the consent is not received within thirty (30) days from the date of this letter. If you have questions regarding this matter, please contact me at 287-4933.

Sincerely,

Patrick Kelly
Water Resource Agent

Enclosures: Receipt #C099840

Kelly, Patrick

From: Luke, Tim
Sent: Monday, January 26, 2015 9:26 AM
To: Merritt, Allen
Cc: Kelly, Patrick; Shaul, Sarah
Subject: RE: WSB lease application review

Allen,

I think you are correct – Triangle ID is one of the partitions from WRVID45. I seem to recall seeing some documentation on this within the past two months or so but I can't seem to find it and I may have deleted it if it came in as e-mail. I'll check with Sarah. I did not find anything in our irrigation district file. I may need to call the county and get a copy of the order from them – I do remember that the County approved the request – I don't think they had a choice based on how the statute is written. I believe someone may be challenging the statute itself as well as perhaps the county decision.

Tim

From: Merritt, Allen
Sent: Monday, January 26, 2015 9:06 AM
To: Kelly, Patrick; Luke, Tim
Subject: FW: WSB lease application review

I've never heard of the Triangle Irrigation District. Is this a partition of the Wood River Valley Irrigation District #45? If so what is the other part called and do we need to update it on the internet under Irrigation District tab?

As for comment regarding lease... I do not have any issue.

From: Kelly, Patrick
Sent: Monday, January 26, 2015 8:28 AM
To: watermanager@cableone.net; Merritt, Allen
Subject: WSB lease application review

Hello,

Attached are two review memos and maps for lease applications into the Water Supply Bank. Please take a moment to review the documents. If no comment is received within fourteen days, I will move forward with the lease application. Thank you,

Patrick Kelly

Water Resource Agent
Idaho Department of Water Resources
322 E. Front St.
Boise, Idaho 83702
d: 208.287.4933
f: 208.287.6700
patrick.kelly@idwr.idaho.gov

Kelly, Patrick

From: Kevin Lakey [watermanager@cableone.net]
Sent: Tuesday, January 27, 2015 1:58 PM
To: Kelly, Patrick
Subject: RE: WSB lease application review

Patrick,
I have no concerns with these applications.

Kevin Lakey

From: Kelly, Patrick [<mailto:Patrick.Kelly@idwr.idaho.gov>]
Sent: Monday, January 26, 2015 12:13 PM
To: watermanager@cableone.net
Subject: RE: WSB lease application review

Kevin,
After speaking with Cherie about this lease application, she suggested that I send you this letter that was submitted with the lease application.
Patrick

From: Kelly, Patrick
Sent: Monday, January 26, 2015 8:28 AM
To: 'watermanager@cableone.net'; Merritt, Allen
Subject: WSB lease application review

Hello,
Attached are two review memos and maps for lease applications into the Water Supply Bank. Please take a moment to review the documents. If no comment is received within fourteen days, I will move forward with the lease application.
Thank you,

Patrick Kelly

Water Resource Agent
Idaho Department of Water Resources
322 E. Front St.
Boise, Idaho 83702
d: 208.287.4933
f: 208.287.6700
patrick.kelly@idwr.idaho.gov

THE MICHAEL A. HARRIS 2004 REVOCABLE TRUST

THIS TRUST AGREEMENT, dated this 13th day of January, 2004, is between
MICHAEL A. HARRIS, a married man of Blaine County, Idaho (referred to herein as
"Grantor"), and MICHAEL A. HARRIS, a married man of Blaine County, Idaho (referred to
herein as "Trustee").

ARTICLE 1

CREATION OF TRUST

1.01 Initial Trust Estate. By this instrument, Grantor assigns, conveys, transfers and delivers to Trustee the property described on Schedule A attached hereto and Trustee accepts such property as the initial Trust estate. Such property shall be held IN TRUST and shall be administered and distributed upon the terms and conditions herein set forth.

1.02 Additions to Trust. Grantor, or any other person, may from time to time transfer or devise additional property to Trustee upon the terms of this instrument.

1.03 Name of Trust. During the life of Grantor, the Trust hereby created shall be known as the MICHAEL A. HARRIS 2004 REVOCABLE TRUST.

1.04 Grantor's Family. Grantor is married to JANICE CORSO-HARRIS, also known as PEPIN CORSO-HARRIS, and all references in this instrument to Grantor's spouse are to her only. Grantor has one (1) adult, living child and one (1) minor, living child, namely, GAVEN STEVEN HARRIS and JACK LUMAS HARRIS born January 16, 1986. Grantor has no deceased children. Accordingly, all references to Grantor's children in this Trust are to these children and any other child born to or adopted by Grantor. As used in this Trust Agreement, the terms "child" or "children," "child of Grantor," "Grantor's children," and "children of Grantor," shall include all of the above named children and the terms "issue," "Grantor's issue" and "issue of Grantor" shall include all of the above named children and the issue of all of the above named children.

