

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM

CIVIL CASE NUMBER: 39576

Ident. Number 63-4262
Date Received: 3/2/1990
Receipt No: W010228
Received By:

AMENDED

**NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW**

1. Name of Claimant(s)

MANN FARMS Phone: (208) 722-6343

31801 MANN LN
PARMA ID USA 83660

2. Date of Priority: 04/01/1961

3. Source: WASTE WATER Trib. to: SNAKE RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of 1/4 of 1/4 Lot	County	Type
06N	06W	24	NW SE	CANYON	

5. Description of diverting works:

10 HP pump and pipelines to place of use.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or) A.F.A
IRRIGATION	03/01	10/31	1.2	

7. Total Quantity Appropriated is:

1.2 C.F.S.

8. Total consumptive use:

9. Non-irrigation uses:

10. Place of use:

Township	Range	Section	1/4 of 1/4 Lot	Use	Acres
06N	06W	24	SW NE	IRRIGATION	13
			NE SE	IRRIGATION	6
			NW SE	IRRIGATION	16

SE	NE	IRRIGATION	1
		Section Acres	36
		Total Acres	36

11. Place of use in counties: CANYON

12. Do you own the property listed above as place of use? Yes

13. Other Water Rights Used:

14. Remarks:

This claim is amended to show actual place of use.

15. Basis of Claim: Statutory Claim

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STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

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CIVIL CASE NUMBER: 39576

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Amended
**NOTICE OF CLAIM
TO A
WATER RIGHT
ACQUIRED UNDER STATE LAW**

RECEIVED

SEP 06 2001

WATER RESOURCES
WESTERN REGION

Please type or print clearly

1. Name of Claimant (s) Charles Mann (Mann Farms) Phone (208) 722-6343Mailing Address 31801 Mann Lane, Parma, ID Zip 836602. Date of Priority (Only one (1) per claim) 4/1/19613. Source of water supply (a) waste water
which is tributary to (b) Snake River4. a. Location of existing point of diversion is: Township 6N Range 6W Section 24,
1/4 of NW 1/4 of SE 1/4, Govt. Lot, B.M., County of Canyon

Additional points of diversion if any: _____

b. If instream flow, beginning point of claimed instream flow is:

Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of _____ 1/4,

Govt. Lot _____ B.M., County of _____

ending point is: Township _____ Range _____ Section _____, _____ 1/4 of _____ 1/4 of _____
_____ 1/4, Govt. Lot _____ B.M., County of _____5. Description of existing diversion works (Dams, Reservoirs, Ditches, Wells, Pumps, Pipelines, Headgates, Etc),
including the dates of any changes or enlargements in use, the dimensions of the diversion works as
constructed and as enlarged and the depth of each well. 10 hp pump and pipelines to place
of use

6. Water is claimed for the following purposes:

(both dates are inclusive)

(cfs)

(acre feet)

For irrigation purposes from 3/1 to 10/31 amount 1.20 or _____
For _____ purposes from _____ to _____ amount _____ or _____
For _____ purposes from _____ to _____ amount _____ or _____
For _____ purposes from _____ to _____ amount _____ or _____

7. Total quantity claimed (a) 1.20 (cfs) and/or (b) _____ (acre feet)

8. Total consumptive use claimed is _____ acre feet per annum.

9. Non-irrigation uses; describe fully (eg. Domestic: Give number of households served; Stockwater: Type and number of livestock Etc.) _____

10. Description of place of use:

- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- If water is used for other purposes, place a symbol of use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RNG	SEC	NE 1/4				NW 1/4				SW 1/4				SE 1/4				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	
6N	6W	24			13	1									5	15			36

Total number of acres irrigated 36

11. In which county (ies) are lands listed above as place of use located? Canyon

12. Do you own the property listed above as place of use? Yes X No _____
If your answer is No, describe in Remarks below the authority you have to claim this water right.

13. Describe any other water rights used at the same place and for the same purposes as described above.
Farmers Cooperative Ditch Company or None ()

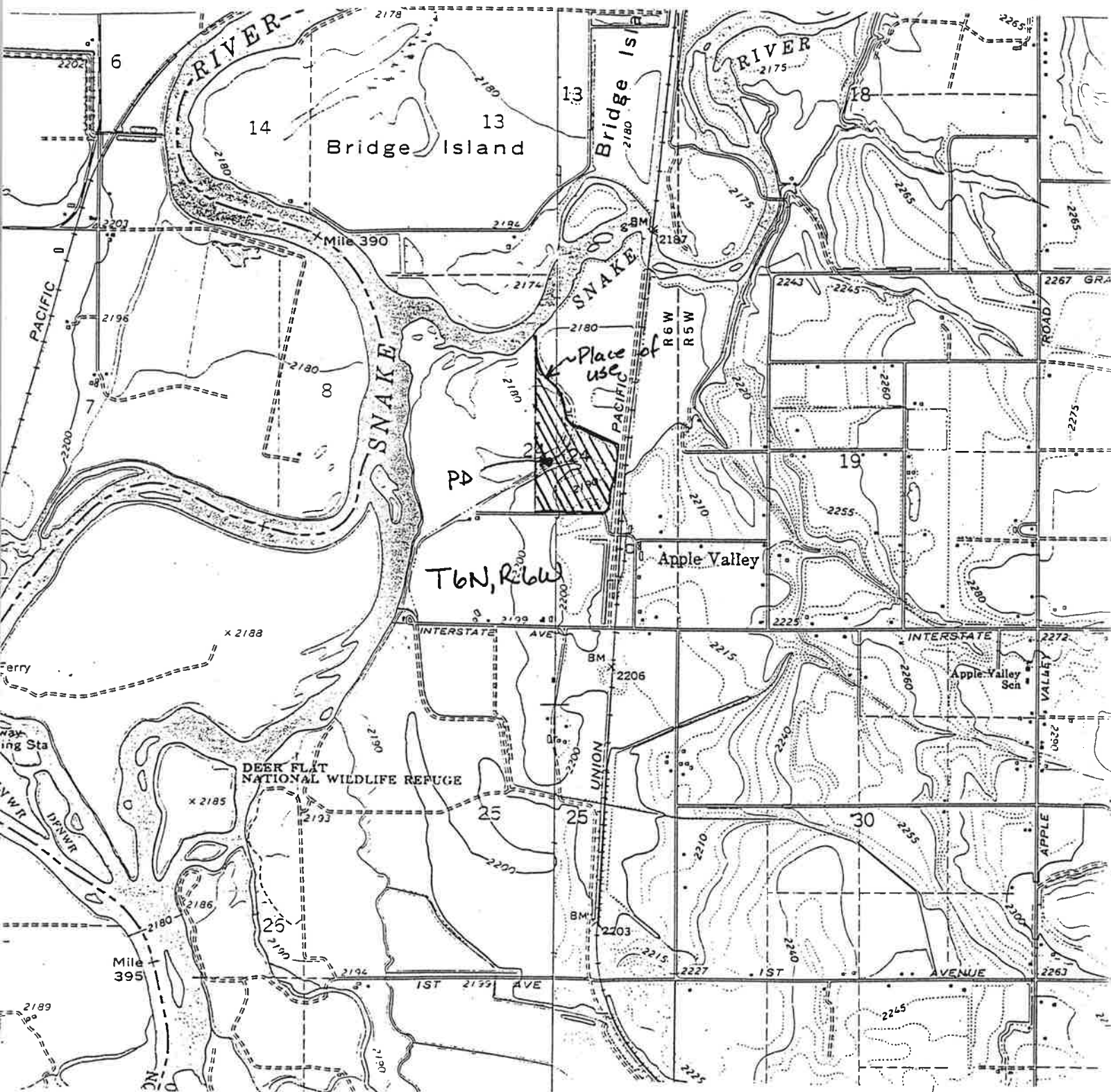
14. Remarks: This claim is amended to show actual place of use

Last Name Mann Ident No. 63-4262

Copies: White -State, Yellow-Claimant

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

Scale: 2 inches equals 1 mile



Last Name Mann Ident No. 63-4262

Copies: White-State, Yellow-Claimant

X - Statutory Claim

15. Basis of Claim (check one) Beneficial Use _____ Posted Notice _____ License _____ Permit _____
 Decree _____
 If applicable provide IDWR Water Right Number 63-4262
 Court _____ Case Number _____ Decree Date _____
 Plaintiff vs Defendant _____

16. Signature (s)

(a.) By signing below, I/We acknowledge that I/We have received, read, and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not _____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments _____

For Individuals: I do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant (s) *LeAnn Mann* Date 9-6-01
 _____ Date _____

For Organizations: I do solemnly swear or affirm that I am _____

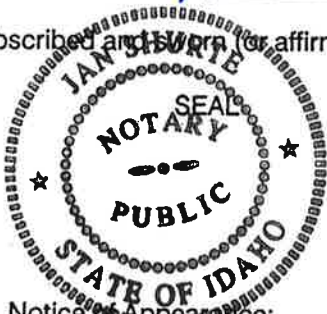
_____ Title _____
 of _____, that I have signed the foregoing
 Organization
 document in the space below as _____ of _____
 Title Organization
 and that the statements contained in the foregoing document are true and correct.

Signature of Authorized Agent _____

Title and Organization _____ Date _____

State of Idaho/or _____)
 County of ADA) SS.

Subscribed and sworn (or affirmed) before me this 6th day of Sept. 192001



Notary Public *Jan Sturtevant*

Residing at *Moscow ID*

My Commission Expires 9-14-2004

Please Print Name

17. Notice of Appearance:

Notice is hereby given that I, _____ will be acting as attorney at law on behalf of the claimant signing above, and that all notices required by law to be mailed by the director to the claimant signing above should be mailed to me at the address listed below.

Signature _____

Address _____

Date _____

Last Name Mann Ident. Number 63-4262



IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: A63-04262
Date Received: 3/02/1990
Receipt No: W010228
Received By: _____

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: CHARLES C. MANN 208-722-6343
Address: 31801 MANN LANE
PARMA, ID 83660

2. Date of Priority: APR 01, 1961

3. Source: WASTE WATER Trib. to: SNAKE RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
06N	06W	24		NW	SE		CANYON

5. Description of diverting works:
PUMPS INTO LATERALS

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	03/01	10/31	1.200		

7. Total Quantity Appropriated is:
1.200 C.F.S. (and/or) A.F.A.

8. Total consumptive use is 210.0 Acre Feet Per Annum.

9. Non-irrigation uses:
STOCKWATER

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
06N	06W	24	SW	NE		IRR	13.0
			NE	SE		IRR	8.0
			NW	SE		IRR	15.0

Section Acres 36.0

A63-04262

Page 1

Date: 03/02/90

MICROFILMED
AUG 20 1992

10. Place of Use: Continued

Total Acres 36.0

11. Place of use in counties: CANYON

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
FARMERS CO-OP IRR.

14. Remarks:

15. Basis of Claim: STATUTORY CLAIM

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do do not wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: 1

For Individuals:

I/We do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

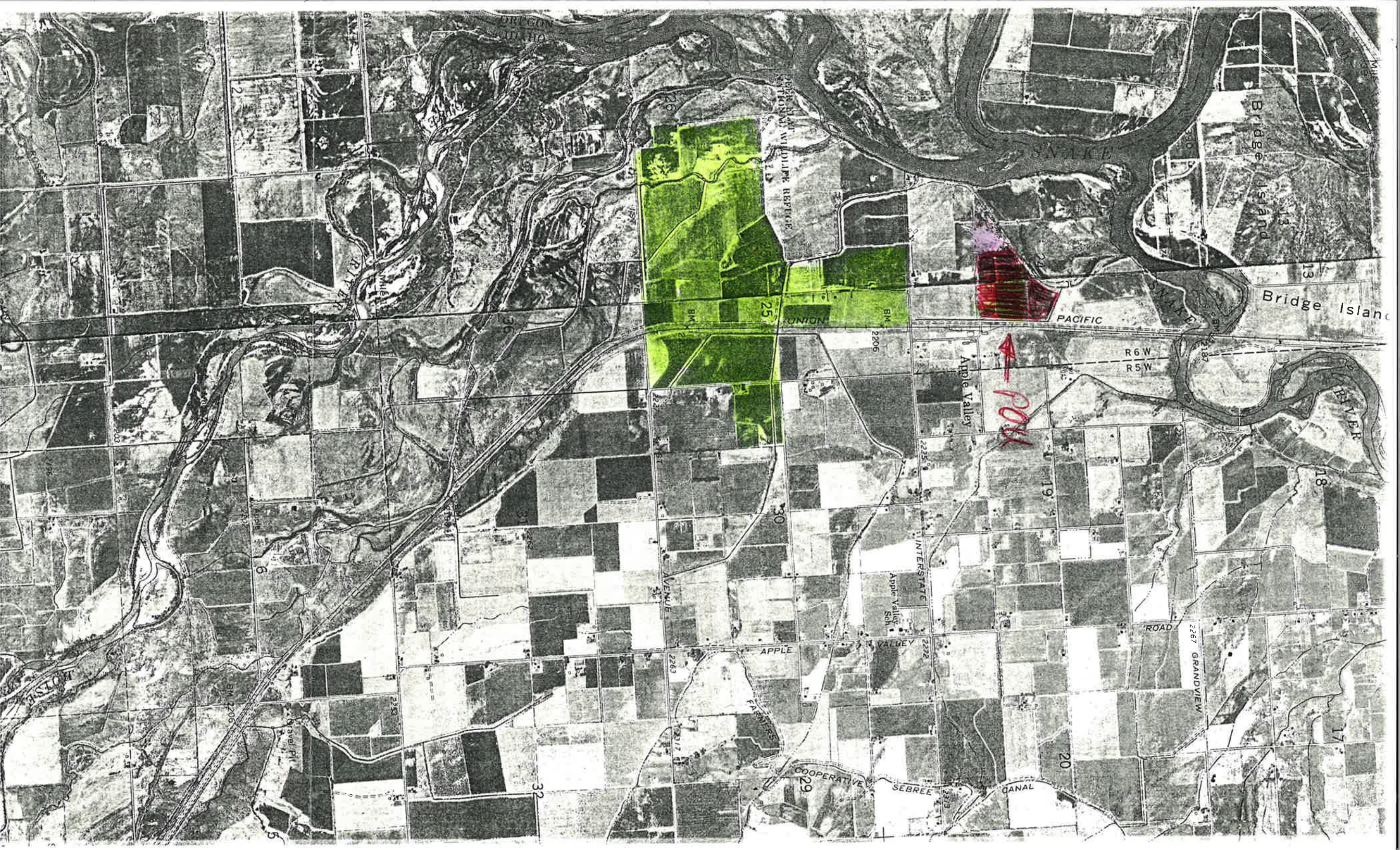
Signature of Claimant(s): Charles L. Mann Date: 3-1-90
_____ Date: _____

State of Idaho)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 2 day
of March 19 90 Bruce A. Schell
Notary Public

Seal

Residing at Boise Idaho
My Commission Expires 1/1/95





State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

FAX (208) 334-2348

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

October 1, 2001

Terry Scanlan
600 E. River Park Lane, Suite 105
Boise ID 83706

Re: SRBA claims for Mann Farms

Dear Terry:

Enclosed, for your records, are copies of the beneficial use claims and amended claims in the SRBA for Mann Farms.

If you have any questions regarding these claims, please feel free to contact our office.

Sincerely,

A handwritten signature in cursive script that reads "Lori Harris".

Lori Harris
Technical Records Specialist
Adjudication Section
Western Region

LH:l
Enclosures



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

FAX (208) 334-2348

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

August 6, 2002

MANN FARMS
31801 MANN LN
PARMA ID 83660

RE: Notice of Change of Water Right Ownership No. 03-4003, 63-2587B & 63-4262

Dear Property Owners:

This office has reviewed your Notice of Change of Water Right Ownership for the property with the above reference water right numbers.

After review of these files, it was discovered that these claims are already in the name of Mann Farms; therefore no name changes are necessary at this time.

However, water right numbers 63-4261A and 63-21364 are still in the name of Charles Mann. A copy of this ownership/name change information has been forwarded to our State Office to process the change for these numbers.

If you have any questions concerning this letter, please contact this office at 334-2190. Thank you for your patience and cooperation, as we have had several water right changes to process.

Sincerely,

A handwritten signature in cursive script that reads "Denise Hatfield".

Denise Hatfield
Office Specialist 1
Adjudication Section
Western Region

DH: dh

Enclosures

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
NOTICE OF CHANGE IN WATER RIGHT OWNERSHIP

RECEIVED

SEP 18 2001

Please print or type. Attach pages with additional information. Instructions are included at the end of this form.
 Incomplete forms will be returned.

WATER RESOURCES
 WESTERN REGION

1. Please list the water right number(s) and/or adjudication claim number(s) (if any) for each water right to be changed. List just the adjudication claim number if there is no corresponding water right record on file with the department. Indicate, by checking in the space provided (under the "split" heading), if the change in ownership is limited to a portion of a water right in which case division of the existing water right or adjudication claim record will be required.

Water Right No(s).	Adjudication Claim No(s).	Split	Water Right No(s).	Adjudication Claim No(s).	Split
63-21364			63-4262	63-4262	
	63-21365				
63-2587	63-2587B				
	63-4261A				
03-4003	03-4003				

2. The following **REQUIRED** information must be submitted with this form:

A. The appropriate **FILING FEE**. See instructions for fee amounts.

B. A copy of the most recent **DEED, TITLE POLICY, CONTRACT OF SALE** or other legal document indicating your ownership of the property and water right(s) or claim(s) in question, **WITH ATTACHED LEGAL DESCRIPTION**.

C. Either of the following (if necessary to clarify division of water rights or other complex property descriptions):
PLAT OF PROPERTY or **SURVEY MAP** clearly showing the location of the point(s) of diversion and place of use of your water right(s) and/or adjudication claim(s) (these are usually attached to your deed or on file with the county).

OR

If your water right(s) and/or adjudication claim(s) is for ten or more acres of irrigation, you must submit a USDA Farm Service Agency **AERIAL PHOTO** with the irrigated acres outlined and point(s) of diversion clearly marked. The **AERIAL PHOTO** should be submitted in place of the **PLAT OF PROPERTY** or **SURVEY MAP**.

3. Name and Address of Former Owner/Claimant(s) Charles C. Mann
31801 Mann Lane, Parma, ID 83660
4. New Owner/Claimant(s) Mann Farms
 Name Connector (Check one): [] and, [] or, [] and/or
- New Mailing Address 31801 Mann Lane
- City, State and ZIP Code Parma, ID 83660
- New Telephone Number 208) 722-6343
5. Date you acquired the property Nov. 14, 1973

63-21364 = \$25-
 63-4261A = \$25-

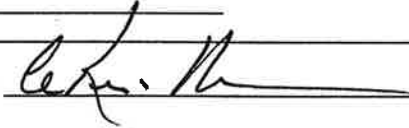
63-02587B = no fee - irrigation

63-4262 = no fee
 03-4003 = no fee / irrigation

6. If the change in ownership affects the entire water right for each water right or adjudication claim number listed in item 1, THEN SKIP THIS ITEM AND GO TO ITEM 7. If the change in ownership divides the water right(s) among multiple owners, you must describe, in detail, your portion of each water right after the change. Fill in the appropriate spaces in the box(es) below to describe your water right(s) after the change (one water right per box, you may copy this page as necessary). If your quantity of water is greater than a proportionate split, you must attach documentation to show justification for a larger amount. If you are not sure how to identify your portion of the original water right or adjudication claim records, please contact the nearest IDWR office for assistance.

DESCRIPTION OF YOUR PORTION OF WATER RIGHT (If the right(s) will not be split, skip this area and proceed to item 7)		
Water Right and/or Adjudication Claim Number _____		
Water Use	Diversion Rate or Volume (cubic feet per second or acre-feet per annum)	Description (acres, number and type of stock, homes, etc)
Irrigation	_____	_____
Stock	_____	_____
Domestic	_____	_____
Other _____	_____	_____
Total	_____	_____

DESCRIPTION OF YOUR PORTION OF WATER RIGHT (If the right(s) will not be split, skip this area and proceed to item 7)		
Water Right and/or Adjudication Claim Number _____		
Water Use	Diversion Rate or Volume (cubic feet per second or acre-feet per annum)	Description (acres, number and type of stock, homes, etc)
Irrigation	_____	_____
Stock	_____	_____
Domestic	_____	_____
Other _____	_____	_____
Total	_____	_____

7. Signature of New Owner(s) or Claimant(s) 
(include title if applicable)

For Snake River Basin Adjudication Claims: Please attach a Notice of Appearance completed by your attorney, if you wish IDWR to correspond with him/her for all matters related to your claims.

For Office Use Only			
Received by <u></u>	Date <u>9/18/01</u>	Fee * <u>25</u>	
Received by <u>N/A</u>	Date <u>-</u>	Receipt No. <u>-</u>	
Processed by <u>AJ</u>	Date _____	WR _____	Date _____

* Apply fee from A65-21365 (being withdrawn)
to ownership fee in 63-21364 (the only WR decreed
in SRBA at this time). - 4261A also decreed.

Fees needed for:

63-4261A + - 21365

Claimant would like to
apply fee pd for 63-21365
to ownership^{change} fees, as
63-21365 is w/drawn,
if possible.

Copy of all of this sent to Carolyn
4/2/00.

Dewise, already in
Mainframe

WARRANTY DEFED
DOESN'T COVER
THESE RIGHTS AS
REQUESTED. 8/6/02
DH

A03-4003

A63-4262

A63-2587B

SEND BACK FOR CORRECT
WARRANTY DEFED

Ron [Signature]

N/A

MANN to MANN FARMS

WARRANTY DEED

T6N, R6W, S25: ALL SE⁴ of S25 lying EAST of
right-of-way of Oregon Short
LINE RR.

T6N, R5W, S30: PART of Lot 3 AS Described Maps & B.

03-4003 (SNAKE RIVER)

T6N, R6W, S13 S¹/₂ SE,
S24 NE⁴

NO-Proof
ON WARRANTY
DEED

63-4262 (WASTE WATER)

T6N, R6W, S24: SWNE, NESE, NWSE, SESE

NO-PROOF ON
WARRANTY DEED

63-2587B (UNNAMED STREAM)

T6N R6W, S25: SWNE, NWNE, NESW, SESW, SE, NENE,
SENE, SEPW, NWSW

Inst. # 744579

WARRANTY DEED

RECEIVED

SEP 18 2001

WATER RESOURCES
WESTERN REGION

CHARLES C. MANN and MARY H. MANN, husband and wife, called grantors herein, hereby convey to MANN FARMS, INC., an Idaho corporation, the address of which is Route 2, Parma, Idaho, the following described real property situated in the County of Canyon, State of Idaho, to-wit:

All that part of the Southeast Quarter of Section 25, Township 6 North, Range 6 West of the Boise Meridian, lying East of the right-of-way of the Oregon Short Line Railroad Company.

AND:

That part of Lot 3 of Section 30, Township 6 North, Range 5 West of the Boise Meridian, described as follows:

BEGINNING at the Northwest corner of said Lot 3; thence East 1278.25 feet to the Northeast corner of said Lot 3; thence South 950.31, feet more or less, to the Northeast corner of the land deeded to Frank G. Miller, et al., by Warranty Deed dated April 26, 1909; thence West along the North boundary line of the Miller Tract 1281.77 feet to the West line of said Lot 3; thence North 948.79 feet to the point of beginning.

EXCEPTING THEREFROM 50% of all minerals, oil and gas in or under the above described land, reserved by THE FEDERAL LAND BANK OF SPOKANE in Deeds recorded April 12, 1945, Book 158 of Deeds, page 154 and 155.

Together with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining.

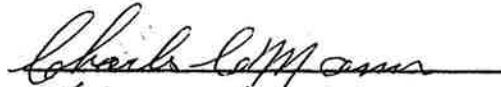
Subject to all easements and rights of way of record or appearing on the land.

Also including all water rights and irrigating ditches belonging to or in anywise appertaining thereto and especially including 39½ shares of the capital stock of Farmers Cooperative Ditch Company.

and covenant that grantors are the owners of the above described property free of all encumbrances and will warrant and defend the same against all persons who may lawfully claim the same, except as shown above.

There is no monetary consideration for this deed, and the actual consideration is the issuance of corporate stock and promissory notes from the grantee to the grantors.

Dated: November 14, 1973.




HENIGSON,
STUNZ & FONDA
ATTORNEYS AT LAW
108 MAIN STREET
NYSSA, OREGON 97913
803 372-2268

STATE OF OREGON)
) ss.
County of Malheur)

December 23, 1974:



Personally appeared the above named Charles C. Mann and Mary H. Mann and acknowledged the foregoing instrument to be their voluntary

L. Henry
Notary Public for Oregon
My Commission Expires: 2/23/76

744579

FILED

DEC 10 11:56 AM '75

WALTER FRY
CLAYTON COUNTY RECORDER
BY M. Westmull

RECORDED
AT THE REQUEST OF

Henigson Stunz & Fonda
IN

OF
Deed
LFE 2.00

Charles C. Mann
Stunz
to
Mann Farms, Inc.

W.D.

106 Main
Nyssa, Oregon
97913

HENIGSON,
STUNZ & FONDA
ATTORNEYS AT LAW
106 MAIN STREET
NYSSA, OREGON 97913
503 372-2268

AFFIDAVIT OF GENERAL PARTNER

STATE OF OREGON)

) ss.

County of Malheur)

I, Charles Kent Mann, being first duly sworn depose and say:

1. I am a general partner of M&M Feed Lot, an Idaho general partnership.
2. The partners of M&M Feed Lot are: Charles Kent Mann, Mann Farms, Inc., an Idaho corporation and Mary H. Mann.

Dated this 17 day of September, 2001.


Charles Kent Mann

Subscribed and sworn to before me this 17 day of September, 2001.




Notary Public for Oregon

My Commission Expires: 10/15/2005

AFFIDAVIT OF CORPORATE EXISTENCE

STATE OF OREGON)
) ss.
County of Malheur)

I, Mary H. Mann, being first duly sworn depose and say:

1. I am the President of Mann Farms, Inc., an Idaho corporation. The corporation was incorporated on October 9, 1973 and is still in existence.

2. The officers of the corporation are: Mary H. Mann, President and Charles Kent Mann, Secretary/Treasurer.

3. The Board of Directors of Mann Farms, Inc., consists of two directors. Those directors are: Mary H. Mann and Charles Kent Mann.

Dated this 17 day of September, 2001.

Mary H. Mann
Mary H. Mann, President Mann Farms, Inc.

Subscribed and sworn to before me this 17 day of September, 2001.



Michael W. Horton
Notary Public for Oregon
My Commission Expires: 10/15/05



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

Phone: (208) 327-7900 FAX: (208) 327-7866

March 1, 1999

DIRK KEMPTHORNE
GOVERNOR

KENT MANN
C/O MRS CHARLES C MANN
31801 MANN LN
PARMA ID 83660

KARL J. DREHER
DIRECTOR

RE: Snake River Basin Adjudication (SRBA)
Notices of Claim #A03-04003, A63-02587B, A63-04261A,
A63-04262, 63-21364, A63-21365
and
Unclaimed Decree #63-00316

Dear Mr. Mann:

In response to your telephone call of this morning, I have enclosed Adjudication Profile Reports of the Notices of Claim filed by your father, Charles C. Mann. I have also enclosed a form 42-248/42-1409(6) for your use in case you want to change the name on the rights.

I did not see anything in our data base under your name or that of M & M Feedlot.

I have also enclosed a Water Right Proof Reading Report and a photocopy of unclaimed decree #63-00316 for your information. You can see on the Proof Reading Report the priority date is zeros (highlighted). If you wish to file a claim on this decree, the priority date could be the day before the decreed date unless you can provide proof of an earlier date. The Boise County Courthouse (recorder's office 208/392-6636) may have additional records you could research. I have enclosed a claim form and instructions in case you wish to file an SRBA claim on this decree.

Please call me if I can be of further assistance.

Sincerely,


Sally Sherman
Technical Records Specialist
Adjudication Bureau

SS:region

Enclosures:

Profile Reports
Decree Copy
Long Form w/Instructions
Form 42-248/42-1409(6)

09/29/2006 RECEIVED

NOV 07 2006

WATER RESOURCES
WESTERN REGION

NOTICE OF ERROR
REPLY

Please type or print clearly, fill out this form completely and mail.

Return this reply form to IDWR by the deadline date printed below if you want IDWR to change your recommendation or you want to let IDWR know that you agree with its recommendation.

YOUR DEADLINE FOR RETURNING A NOTICE OF ERROR REPLY IS: October 31, 2006

Water right number: 63-4262

MANN FARMS
31801 MANN LN
PARMA ID 83660
Telephone Number: (208)722-9039

1. Describe the portion of the proposed recommendation with which you disagree (e.g. priority date, period of use, source):

2. Describe the changes you wish to make in the proposed recommendation:

3. Give a brief explanation as to why you disagree with these portions:

 I AGREE with this proposed recommendation: no changes need to be made.

DATE: 10-31-06

SIGNATURE: 

Please print your name: C. KENT MANN

IDWR Regional Office, 2735 Airport Wy, Boise, ID 83705, 2083342190

12/10/2006

IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 63-4262
NAME AND ADDRESS: MANN FARMS
31801 MANN LN
PARMA ID 83660
SOURCE: WASTE WATER TRIBUTARY: SNAKE RIVER
QUANTITY: 1.200 CFS
PRIORITY DATE: 04/01/1961
POINT OF
DIVERSION: T06N R06W S24 NWSE Lot 3 Within CANYON County
PURPOSE AND
PERIOD OF USE:

	<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
	IRRIGATION	03/01 11/15	1.200 CFS
PLACE OF USE:	<u>IRRIGATION in CANYON County</u>		
	T06N R06W S24 Lot 2 SWNE	12.00	T06N R06W S24 Lot 2 SENE 3.00
	T06N R06W S24 Lot 3 NESE	6.00	T06N R06W S24 Lot 3 NWSE 15.00

36 ACRES TOTAL

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This right remains subject to the right of the original appropriator, in good faith and in compliance with state laws governing changes in use and/or expansion of water rights, to cease wasting water, to change the place or manner of wasting it, or to recapture it.

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

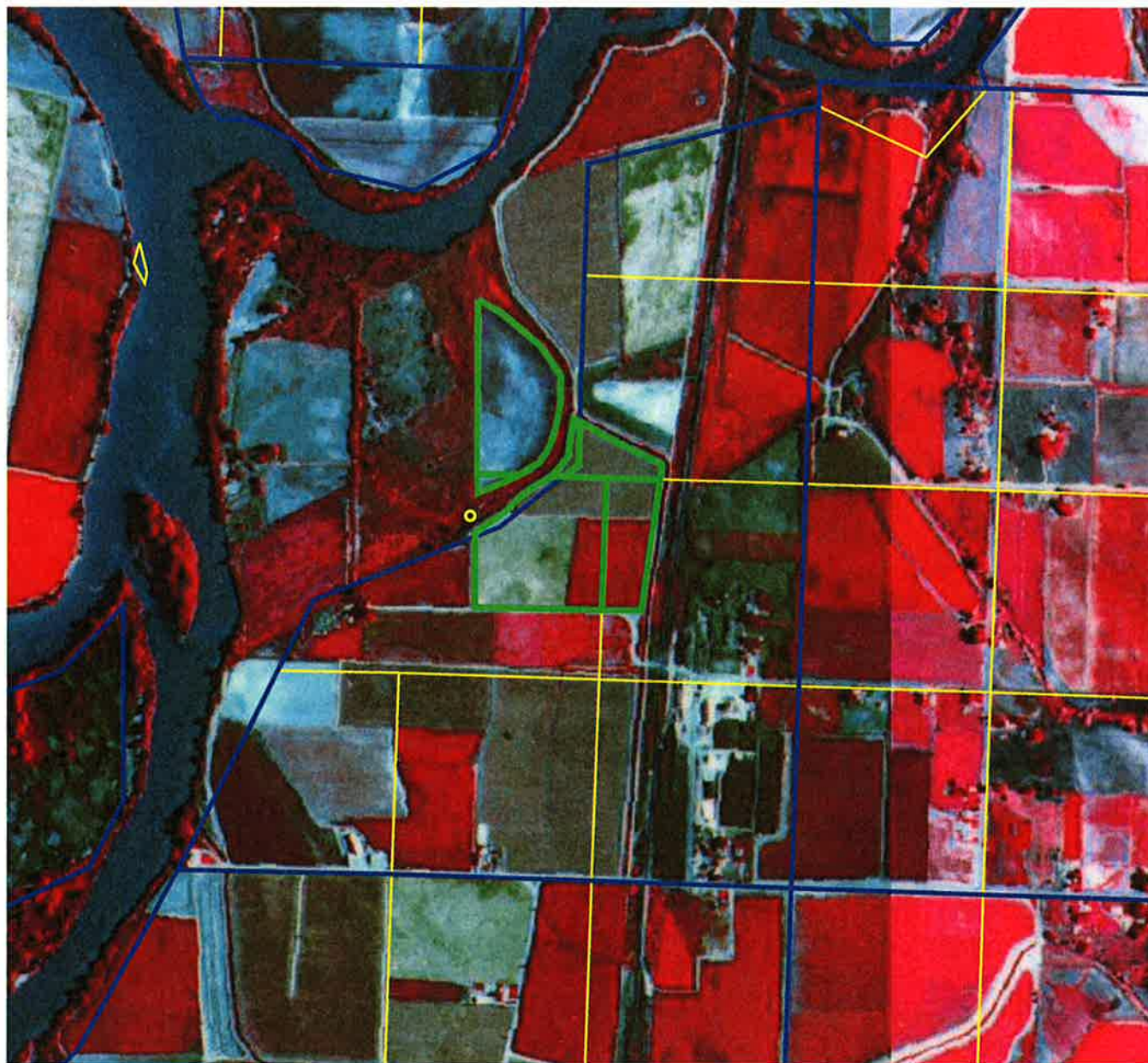
EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use



Idaho Department of Water Resources

63-4262

06N 06W Sections 24



-  POU
-  POD
-  Sections
-  Quarter/Quarter

Total Irrigated
Acres: 36

700 0 700 Feet



IDWR
Prepared by: Lori Graves
Date: 08-08-06
1986-87 Photography

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Recommendation Report 63-4262 V1

WATER RIGHT NUMBER: 63-4262 V1

<u>Owner Type</u>	<u>Name and Address</u>
Original Owner	CHARLES C MANN 31801 MANN LN PARMA, ID 83660 (208)722-6343
Current Owner	MANN FARMS 31801 MANN LN PARMA, ID 83660 (208)722-9039

Priority Date: 04/01/1961

Basis: Beneficial Use

Status: Active

<u>Source</u>	<u>Tributary</u>
WASTE WATER	SNAKE RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION	03/01 to 11/15	1.200 CFS	
	<u>Total Diversion:</u>	1.200 CFS	

Location of Point(s) of Diversion

WASTE WATER	L3 (NW1/4SE1/4)	Sec. 24, Twp 06N, Rge 06W, B.M.
CANYON County		

Place of Use

IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	06W	24			12.0	3.0									6.0	15.0			36.0
					L 2	L 2									L 3	L 3			

Total Acres: 36

Conditions of Approval:

1. C18 This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

Remarks:

IDAHO DEPARTMENT OF WATER RESOURCES
Adjudication Recommendation Report 63-4262 V1

Comments:

1. Igraves 8/8/2006 P/U

Comment: Property is aka the North Farm. Acres were redistributed according to 1987 aerial photo.

2. Igraves 8/8/2006 Parcel No.

Comment: Irrigation is within Parcel No. R3948100000.

3. Igraves 8/8/2006 Overlaps

Comment: 3-4003 is also used for irrigation on the North Farm for separate acres. Per consultants letter dated 10/9/2001, surface water from Farmers Co-op is not used on the North Farm.

4. Igraves 8/8/2006 Priority Date

Comment: An affidavit from Mary Mann supports the priority date claimed.

5. Igraves 8/8/2006 Flow Rate

Comment: A polysonic flow measurement was made by the department 7/24/06 on the 10 hp pump used for diversion. Flow rate measured was 622 gpm or 1.39 cfs. In support of the excess flow rate/acre claimed, an irrigation requirement analysis was conducted by SPF Engineering. Results of the analysis indicated that the average field irrigation requirement was .035 cfs/acre or 1.28 total cfs, which supports the 1.20 cfs claimed. The analysis appears valid per department review.

Dates and Other Information:

Decreed Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Defendant:

Plaintiff:

Civil Case Number:

Judicial District:

Notice of Error Flag:

State or Federal: S

Owner Name Connector:

Water District Number:

Generic Max Rate Per Acre:

Generic Max Volume Per Acre:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Carey Act Number:

Mitigation Plan: False

Combined Use Limits:

Water Supply Bank:

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Claim Report 63-4262

WATER RIGHT NUMBER: 63-4262

<u>Owner Type</u>	<u>Name and Address</u>
Original Owner	CHARLES C MANN 31801 MANN LN PARMA, ID 83660 (208)722-6343
Current Owner	MANN FARMS 31801 MANN LN PARMA, ID 83660 (208)722-9039

Priority Date: 04/01/1961

Basis: ~~Statutory Claim~~ B/U

Status: Active

<u>Source</u>	<u>Tributary</u>
WASTE WATER ✓	SNAKE RIVER ✓

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION	03/01 to 10/31 11/15	1.200 CFS ✓	
	<u>Total Diversion:</u>	1.200 CFS	

Location of Point(s) of Diversion

WASTE WATER	NW1/4SE1/4 ✓	Sec. 24, Twp 06N, Rge 06W, B.M. ✓
CANYON County		

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	
06N 06W 24			12.0	1.0									6.0	16.0			36.0
			12	3										15			
Total Acres: 36 ✓			42	42									43	43			

Conditions of Approval:

- This claim is amended to show actual place of use.

Claim Received Date: 3/2/1990

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

State or Federal: S

Owner Name Connector:

Water District Number:

Generic Max Rate Per Acre:

Generic Max Volume Per Acre:

Swan Falls Trust or Nontrust:

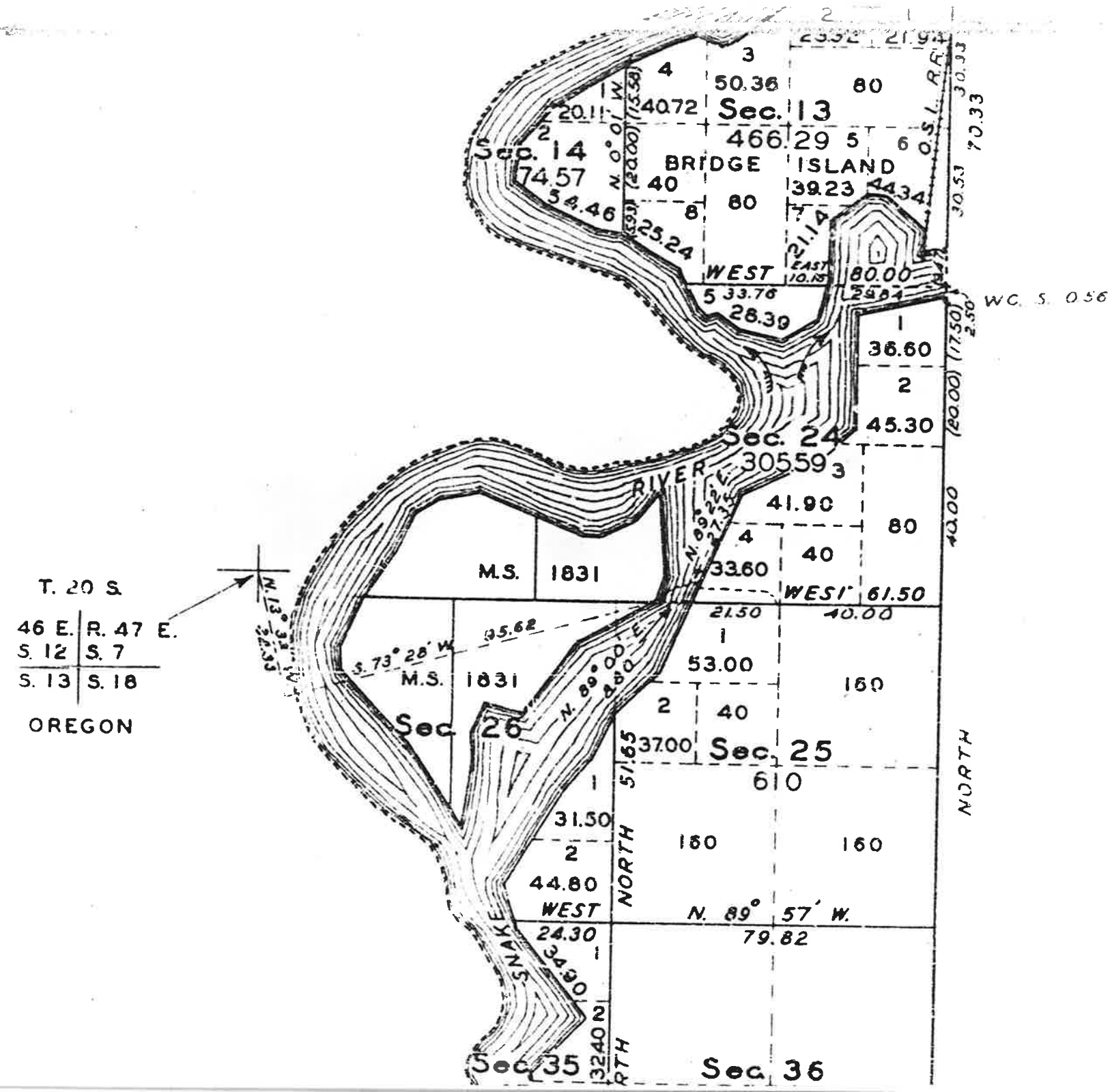
Swan Falls Dismissed:

DLE Act Number:

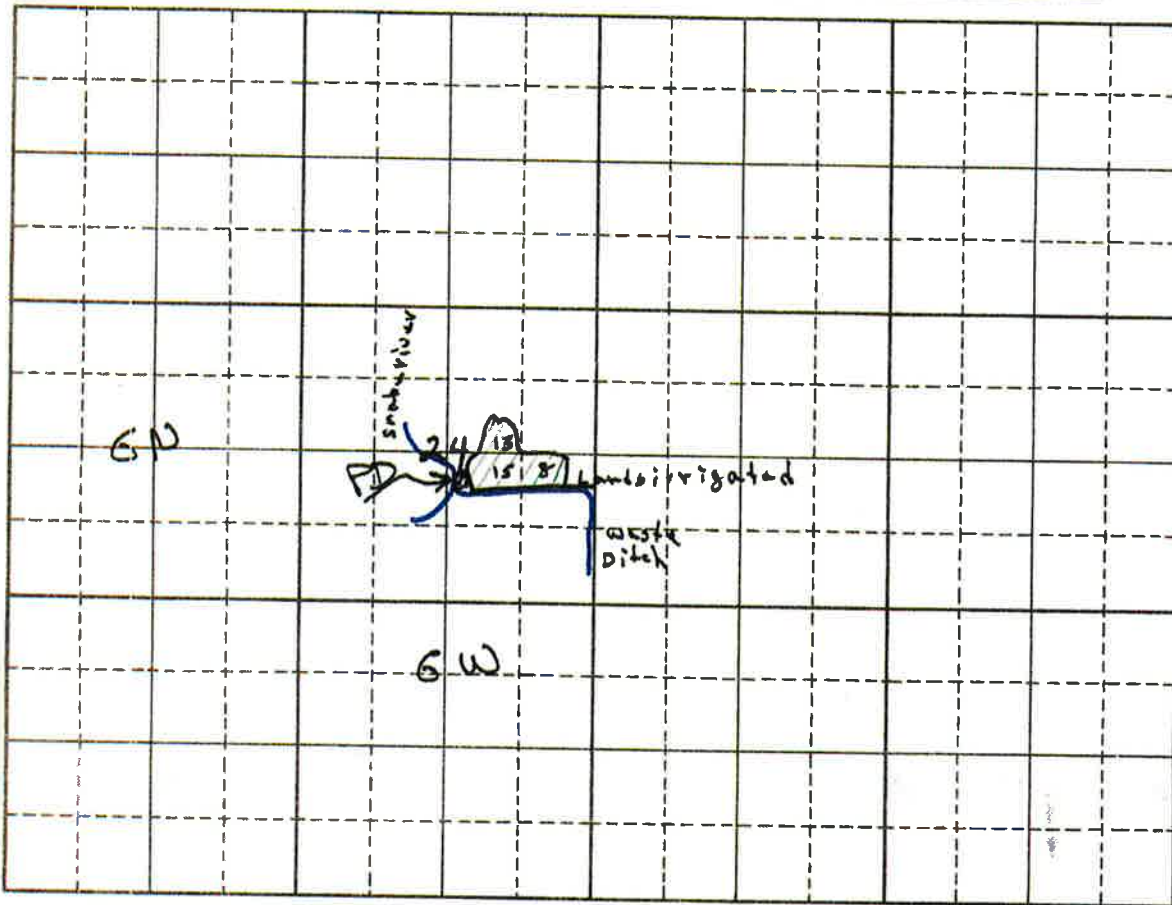
Carey Act Number:

Mitigation Plan: False

Combined Use Limits:



(8) Remarks



Scale: 2 inches equal 1 mile.

Map should show the location of the point of diversion and the place of use of the water by 40-acre subdivisions, section, township and range of the public land survey system.

State of Idaho

SS.

County of Ada

Be it known that the undersigned, being duly sworn, deposes and says that he, she, they subscribed the foregoing claim to a water right, together with all attached information, and that the matters and facts therein are true to the best of the affiant's knowledge.

Sworn to before me this 24th day of April, 19 74.

Charles LaMann
(Claimant)

Doranna Scholt
Notary Public

Residing at Boise, Idaho

My commission expires June 15, 1977

Rec'd #14399

For Department Use Only

Received by <u>it</u>	Date <u>4-29-74</u>	Exception filed by:	Forwarded to	Date
Prelim. check by <u>OCB</u>	Date <u>29 April 74</u>		claimant by:	
\$10.00 fee received by <u>it</u>	Date <u>4-24-74</u>			
Approved for publication by <u>Doranna Scholt</u>				
Published in <u>Boise Review</u>				
Dates <u>5-9-74</u> to <u>5-16-74</u>				

Graves, Lori

From: Scott King [SKing@spfwater.com]
Sent: Wednesday, July 26, 2006 6:38 PM
To: Graves, Lori
Cc: Nelson, Dan
Subject: Mann Farms

Hi Lori,

Yesterday, Dan and I visited Mann Farms. At the 63-4262 point of diversion from a drain I found a 10-hp motor driving a Parma Pump water lifter discharging into an 8" pipe. The total lift is about 25 to 30 feet into a concrete irrigation ditch.

Dan measured flow with the sonic meter. I think he measured around 620 gpm, which supports the claimed 1.2 cfs.

The pump is located as depicted in the image below (or attached ScreenHunter_054.jpg). However, the point of diversion may actually be considered to be the headgate location. Water would normally flow from the pump toward the headgate, and continue down the drain to the river. However, the headgate backs up flow in the drain to supply the pump.

The IDTM coordinates of the pump are:
2258671 1409024



Regarding the stockwater claims, you had asked if the stock also received drain water. Kent said that since between the mid to late 1970s, stock have consumed only well water, and drain water was no longer used for any stock watering.

Regarding Farmers Cooperative Shares, the attached assessment is for 164.25 shares. Per our discussions with Kent yesterday, I understand that these shares are used for irrigation west of the railroad tracks, on Kent's ground

7/28/2006

identified by the image below (or ScreenHunter_055.jpg). The total area here is about 230 acres; as you can see, I didn't exclude any of the feedlot acres. It looks like it 1987 there were about 250 irrigated acres using water under Farmer's Cooperative, 63-2587B, and 63-31291.



I believe this answers all the questions we identified during our meeting earlier. Please let me know if you have any further questions.

Thanks,
Scott

Scott N. King, P.E.
SPF Water Engineering, LLC
600 East River Park Lane, Suite 105
Boise, Idaho 83706
phone: 208-383-4140 x209
fax: 208-383-4156
email: sking@spfwater.com
web page: www.spfwater.com

7/28/2006

POLYSONIC READINGS

PERMIT #: 63-4262

POINT OF DIVERSION

Drain Pump diversion

FIRST SET OF INFORMATION:

SET-UP IMPUTE DATA USED DURING
PREPARATION FOR FLOW MEASUREMENTS.

SECOND SET OF INFORMATION:

THESE ARE THE READINGS TAKEN FOR
THIS PUMP. THE TOTAL FLOW WAS
AVERAGED OVER A 10 MINUTE READING.

FLows IN GALLONS PER MINUTE (GPM)

622 GPM FLOW RATE

FLows IN CUBIC FEET PER SECOND (CFS)

622 GPM / 448.8 = 1.39 CFS FLOW RATE

Meas.
63-4262

MODE SELECT	11:08+625.031E 0GPM	00R
INPUT	+ 4.179E 0FPS	00R
	+00000 *10 G	00R
	-00000 *10 G	00R
OUTER DIAMETER	11:09+620.276E 0GPM	00R
8.02000 IN	+ 4.146E 0FPS	00R
	+00061 *10 G	00R
	-00000 *10 G	00R
PIPE MATERIAL	11:10+619.747E 0GPM	00R
? CS,SS	+ 4.143E 0FPS	00R
	+00124 *10 G	00R
	-00000 *10 G	00R
WALL THICKNESS	11:11+630.050E 0GPM	00R
0.1010 IN	+ 4.212E 0FPS	00R
	+00184 *10 G	00R
	-00000 *10 G	00R
INNER LINING	11:12+602.048E 0GPM	00R
? NO LING.	+ 4.025E 0FPS	00R
	+00249 *10 G	00R
	-00000 *10 G	00R
KIND OF FLUID	11:13+624.238E 0GPM	00R
? WATER	+ 4.173E 0FPS	00R
	+00310 *10 G	00R
	-00000 *10 G	00R
SENSOR MOUNTING	11:14+621.332E 0GPM	00R
? U	+ 4.153E 0FPS	00R
	+00373 *10 G	00R
	-00000 *10 G	00R
TYPE OF SENSOR	11:15+620.276E 0GPM	00R
? SMALL	+ 4.146E 0FPS	00R
	+00435 *10 G	00R
	-00000 *10 G	00R
SPACING	11:16+619.747E 0GPM	00R
5.805 IN U	+ 4.143E 0FPS	00R
	+00495 *10 G	00R
	-00000 *10 G	00R
MODE SELECT	11:17+618.691E 0GPM	00R
T0 CHECK	+ 4.137E 0FPS	00R
	+00560 *10 G	00R
	-00000 *10 G	00R
0295.6 MMSEC	11:18+629.522E 0GPM	00R
101.19 % T0	+ 4.209E 0FPS	00R
	+00622 *10 G	00R
	-00000 *10 G	00R
07-25 11:0400 *R		
+002.70 % AI2		

622 GPM

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 7/25/2006

FILE NUMBER 63-4262



This is a photo of the diversion for this water right. The pump was measure right before it goes under ground. You can see the cable of the flow meter going down to the measurement point.

Shurte, Jan

From: Dean, Jennifer
Sent: Wednesday, February 15, 2006 5:46 PM
To: Shurte, Jan
Subject: Information regarding 63-4262

Jan,
Could you forward this information to whom ever in the Western office needs information regarding this claim?
Thanks,
Jennifer Dean

In the process of reviewing claim 3-4003, it was noted that the diversion rate was greater than 0.02 cfs/acre. When this was determined, we requested information be supplied by the claimant to support the extra diversion. The report, which was approved by Jeff Peppersack, also supports a greater diversion rate for 63-4262. I currently have an extra copy of the report in the state office or it is available in DOCS. The information in the report may be useful when reviewing claim 63-4262. If you have any additional questions, feel free to contact me.

Jennifer Dean
IDWR State Adjudication
(208) 287-4918
jennifer.dean@idwr.idaho.gov



RECEIVED

JAN 17 2006

WATER RESOURCES
WESTERN REGION

January 13, 2006

Idaho Department of Water Resources
Western Region Office
2735 Airport Way
Boise, Idaho 83705

Attn: Jan Shurte

RE: Evidence of Priority & Irrigation Requirement Analysis for SRBA claims 3-4003 & 63-4262

Dear Jan,

On behalf of our client, Mann Farms, enclosed are Evidence of Priority and an Irrigation Requirement Analysis for the above two referenced claims. Evidence of Priority consists of a statement provided by Kent's mother, Mary H. Mann. Mrs. Mann remembers irrigation beginning in either fall of 1961 or spring of 1962. Power line easements were granted to Idaho Power Company on April 7, 1961; Idaho Power constructed facilities to energize pumps used for diverting water under these claims.

The Irrigation Requirement Analysis provides a basis for these claims exceeding the standard diversion rate of 0.02 cfs per acre. Table 1 presents a summary of the claimed acres, claimed diversion rate, and diversion rate supported by the Field Irrigation Requirement (FIR) analysis.

Claim	Claimed Number of Acres	Claimed Diversion Rate (cfs)	FIR Results (cfs)
3-4003	54	2.6	2.46
63-4262	36	1.2	1.28
Total	90	3.8	3.74

Table 1. Summary of Irrigation Requirement Analysis.

I am not sure to whom these claims are assigned. Could you please forward on this information to the appropriate reviewer?

Sincerely,

Scott N. King, P.E.
Senior Project Engineer

cc: Mann Farms
File: 220.0010

RECEIVED

JAN 17 2006

WATER RESOURCES
WESTERN REGION

To Whom It May Concern:

We bought the property in question from Philip and Shirley Breshears in 1960 and leveled the bottom portion for row cropping that year. In 1961 a power line easement was given to Idaho Power Company. Either in the fall of 1961 or the spring of 1962 we begin pumping water out of the Snake River and irrigating the farm ground.

Mary H. Mann

Mary H. Mann

12 / 13 / 05

PHILIP R. BRESHEARS and SHIRLEY
M. BRESHEARS, husband and wife,

WARRANTY DEED

NO. 6

-TO-

CHARLES C. MANN and MARY H.
MANN, husband and wife.

Dated, January 18, 1960
Recorded, February 26, 1969. 1:36 P.M.
Consideration, \$10.00 and other
good and valuable considerations
Document No. 624628

Signed: Philip R. Breshears. Shirley M. Breshears.

Acknowledged, Canyon County, Idaho, January 18, 1960 by Philip
R. Breshears and Shirley M. Breshears, husband and wife, before
D. Foster Robertson, Notary Public in and for the State of Idaho,
Residing at Parma, Idaho. (SEAL)

PROPERTY:

COMMENCING at the Southwest corner of the Northeast Quarter of the
Southeast Quarter of Section 24, Township 6 North, Range 6 West
Boise Meridian, and running;

thence in an Easterly direction on the South boundary line of
said Northeast Quarter of the Southeast Quarter, aforesaid, a dis-
tance of 16 rods to the West line of the right of way of the Oregon
Short Line Railroad Company;

thence in a Northerly direction along said West line, a dis-
tance of 20 rods, to a stone, the Real Point of Beginning:

thence running in a Westerly direction a distance of 69 rods
to a point marked by a stone which is 34 rods due East and 20 rods
due North of the Northwest corner of the Southwest Quarter of the
Southeast Quarter of said Section 24;

thence in a Northerly direction on a line parallel with the
East boundary line of Lot 3 of said Section 24, a distance of 50
rods, more or less, to the thread of the main channel of Snake
River;

thence in a general Northerly and Easterly direction down and
along the meander line of the said main channel of Snake River, a
distance of approximately 300 rods to the West line of the right of
way of the Oregon Short Line Railroad Company;

thence in a Southwesterly direction on and along the West
line of said right of way of the Oregon Short Line Railroad Company,
a distance of 188 rods to the Real Point of Beginning.

ALSO THE FOLLOWING PARCEL OF LAND:

BEGINNING at a point 34 rods due East and 20 rods due North of the
Northwest corner of the Southwest Quarter of the Southeast Quarter
of Section 24, Township 6 North, Range 6 West Boise Meridian:

□ thence running due West 9 rods;
thence due North 50 rods, more or less, to the thread of the
main channel of Snake River;
thence East 9 rods;
thence due South 50 rods, more or less, to the point of
beginning.

Together with all accretion land adjoining and belonging
thereto, and together with all water, water rights, ditches and
rights of way for ditches belonging thereto.

ABSTRACT & TITLE COMPANY, Ltd.

has hereby
section and
inspection
distribution
to a line
area

CHARLES C. MANN and MARY H.
MANN, husband and wife.

POWER LINE EASEMENT.

No.7

Dated, April 7, 1961
Recorded, March 27, 1962. 9:18 A.M.
Book 44 Misc., Page 231
Consideration, \$1.00 and other
valuable considerations.
Document No. 515049

-TO-

IDAHO POWER COMPANY, a
Corporation.

Signed: Charles C. Mann, Mary H. Mann.

Acknowledged, Payette County, Idaho, April 7, 1961 by Charles C.
Mann and Mary H. Mann, husband and wife, before J.W. McEwen, Notary
Public for the State of Idaho, Residing at Payette, Idaho. (SEAL)

Does hereby grant and convey a right of way and easement for
the erection and continued operation, maintenance, repair, alteration,
inspection, relocation and replacement of the electric transmission,
distribution and telephone lines and circuits of the Grantee, attached
to a line of poles or other supports, together with guys, stubs, cross-
arms and other attachments and incidental equipment thereon, and ap-
purtenances, over, on and across the following premises, belonging to
said Grantor(s) in Canyon County, Idaho, in the location more particu-
larly described as follows, to-wit:

(See following Page for Description)

Together with all rights of ingress and egress necessary or
convenient for the full and complete use, occupation and enjoyment of
the easement hereby granted, and all rights and privileges incident
thereto, including the right from time to time to cut, trim and remove
trees, brush, overhanging branches and other obstructions which may
injure or interfere with the Grantee's use, occupation or enjoyment of
this easement and the operation, maintenance and repair of Grantee's
electrical system.

COMMENCING at the Southwest corner of the Northeast Quarter of the Southeast Quarter of Section 24, Township 6 North, Range 6 West Boise Meridian and running;

thence in an Easterly direction on the South boundary line of said Northeast Quarter of the Southeast Quarter aforesaid, a distance of 16 rods to the West line of the right of way of the Oregon Short Line Railroad Company;

thence in a Northerly direction along said West line, a distance of 20 rods, to a stone, the Real Point of Beginning;

thence running in a Westerly direction a distance of 69 rods to a point marked by a stone which is 34 rods due East and 20 rods due North of the Northwest corner of the Southwest Quarter of the Southeast Quarter of said Section 24;

thence in a Northerly direction a line parallel with and East boundary line of Lot 3 of said Section 24, a distance of 50 rods, more or less, to the thread of the main channel of Snake River;

thence in a general Northerly and Easterly direction down and along the meander line of said main channel of Snake River, a distance of approximately 300 rods to the West line of the right of way of the Oregon Short Line Railroad Company;

thence in a Southwesterly direction on and along the West line of said right of way of the Oregon Short Line Railroad Company, a distance of 188 rods to the Real Point of Beginning.

TITLE COMPANY, Ltd.

IRRIGATION REQUIREMENT ANALYSIS

3-4003 & 63-4262

Prepared for

Kent Mann
31801 Mann Ln
Parma, ID

Prepared by:

Scott N. King, P.E.
SPF Water Engineering, LLC
600 East River Park Lane
Boise, ID 83706



December 12, 2005

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Appendix B: Soil Characteristics
Appendix C: Climate Data
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1. BACKGROUND

This report presents a Field Irrigation Requirement (FIR) analysis for a farm bordering the Snake River located about five miles northwest of Parma, ID, and identified by two Snake River Basin Adjudication (SRBA) water right claims. Claim 3-4003 identifies diversion of 2.6 cfs from the Snake River for irrigation of 54 acres in Sections 13 and 24 of T6N R6W. Claim 63-4262 lists 1.2 cfs of waste water tributary to the Snake River for irrigation of 36 acres in T6N R6W Sec 24.

Kent Mann, owner and long time operator of this farm, provided information necessary to complete this analysis such as irrigation methods, crop patterns, etc. His father, Charles Mann, purchased the first portion of the place in or around 1960, and Kent therefore has a long-time association with the farm.

2. WATER RIGHTS

Mann Farms is current owner of two claims totaling 3.8 cfs for irrigation of 90 acres in Canyon County:

3-4003

Priority: 4/1/1961

Source: Snake River

Use: Irrigation of 54 acres

Rate: 2.6 cfs

Point of Diversion: 6N 6W 24, NWNW

63-4262

Priority: 4/1/1961

Source: waste water tributary to Snake River

Use: Irrigation of 36 acres

Rate: 1.2 cfs

Point of Diversion: 6N 6W 24, NWSE

Figure 1 presents the claimed places of use and points of diversion for these rights. Snake River water supplies the northern 54 acres of the farm, and waste water from a drain ditch is used for the southern 36 acres. This figure also identifies field acreage, field boundaries, and furrow direction. Fields 1 and 8 are further split based on soil types. Adjudication Claim Reports for these claims are included in Appendix A.

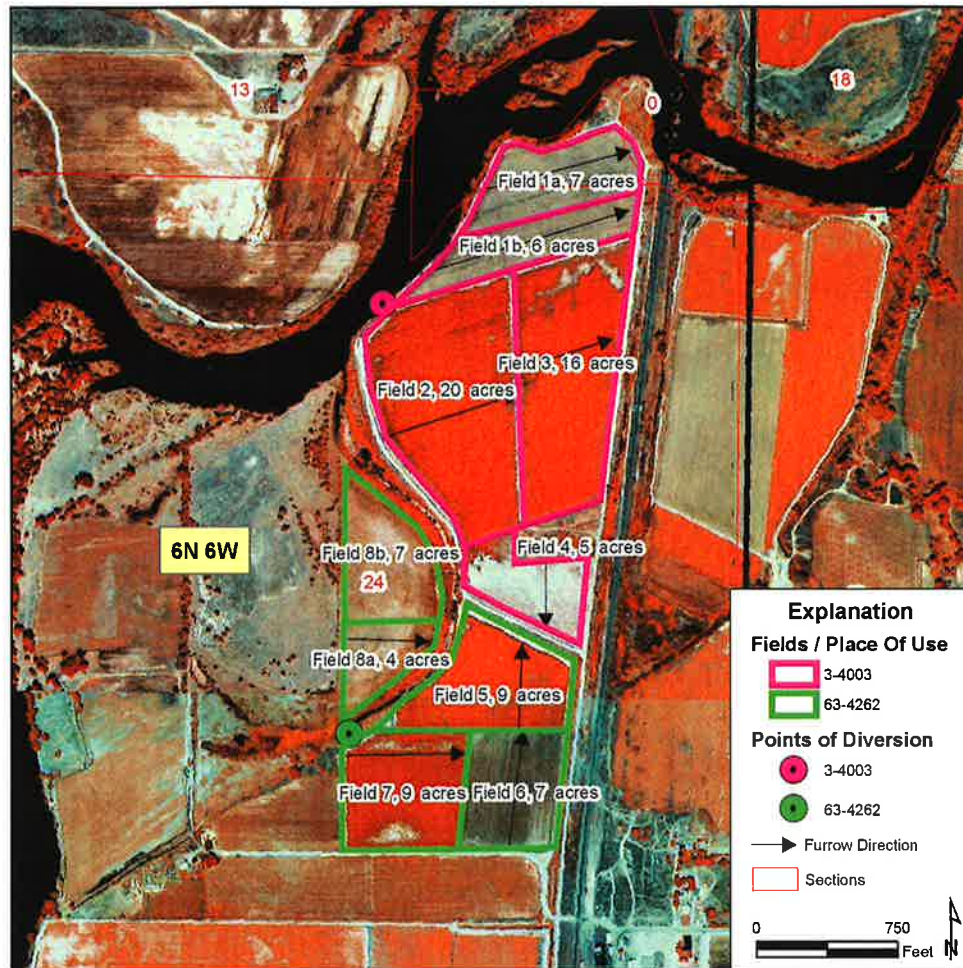


Figure 1. Places of use and points of diversions for water right claims 3-4003 and 63-4262. The base layer is 1994 color infrared imagery.

3. IRRIGATION REQUIREMENT ANALYSIS

3.1. Fields

Field boundaries are based on Kent Mann's identification, IDWR's digital claim-layer place of use shapefile, and 1994 & 2004 aerial imagery. Figure 2 presents field boundaries and furrow direction overlaid on selected soils from the SSURGO soil database. The fields are generally level and irrigated using corrugate and furrow flood methods. Field furrow lengths range from 350 to 1200 feet. Slope was assumed to be 0.005 ft/ft for fields with soils described by the SSURGO soils database to have slopes from 0 to 1 percent, and 0.01 ft/ft is assumed for soils describing slopes from 1 to 3 percent. Based on Dreher and Tuthill, 1999, field irrigation requirements are estimated using the NRCS Furrow program together with soil characteristics, field conditions, and weather station records.

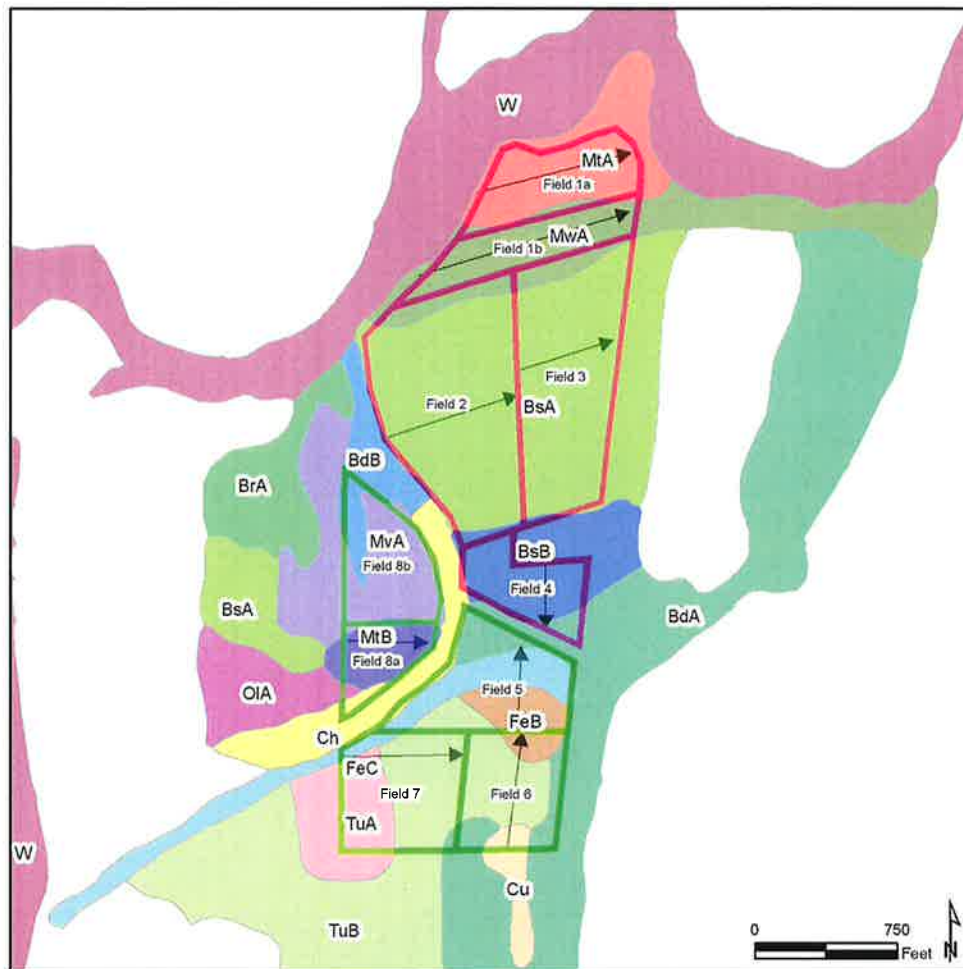


Figure 2. Field boundaries and soils at Mann Farms.

3.2. Soils

Soil information is provided by the Natural Resource Conservation Service digital SSURGO soil database. Table 1 presents the predominant soils found on this farm. Soil analyses, including determination of Management Allowed Deficit (MAD) are included in Appendix B. These soils have furrow intake family values ranging from 0.42 to 0.55, which is in the moderate range. Water infiltrates slowly into low intake family soils, and quickly into high intake family soils (heavy clay = 0.3; sand = 0.8). Most of the soils are deep and have an available water holding capacity (AWC) of at least 0.13 inches of water per inch of soil in the upper layer.

Table 1. Properties of predominant soils.

<i>Field</i>	<i>Soil Properties</i>			
	<i>MUSYM Code</i>	<i>Name</i>	<i>Slope (percent)</i>	<i>Furrow Intake Family</i>
1a	MtA	Moulton Fine Sandy Loam	0 to 1	0.55
1b	MwA	Moulton Loam	0 to 1	0.50
2, 3	BsA	Bram Silt Loam	0 to 1	0.42
4	BsB	Bram Silt Loam	1 to 3	0.42
6, 7	TuB	Turbyfill Fine Sandy Loam	1 to 3	0.50
8a	MtB	Moulton Fine Sandy Loam	1 to 3	0.55
8b	MvA	Moulton Loam	0 to 1	0.50

3.3. Crops

The analyzed crop rotation of onions, beans, potatoes, and grain is based on actual historic cropping patterns per Kent Mann. Other crops and rotations may result in higher or lower irrigation requirements.

3.4. Climate

The Parma Experiment Station climate station is used as the basis for crop evapotranspiration (ET) requirements for this farm. 80th percentile values of monthly ET for this station were obtained from Allen & Brockway, 1983, and are included in Appendix C.

3.5. Irrigation Efficiency

Per IDWR guidelines (Dreher & Tuthill, 1999), the FURROW program written by the NRCS is used to estimate irrigation efficiency. In this analysis, input parameters include:

- Irrigation application depths ranging from 0.56 to 2.19 inches of water, equivalent to MAD found in Soil Characteristics (Appendix B)
- Corrugate irrigation for grain; furrows for potatoes, beans and onions
- Furrow length ranging from 350 to 1200 ft
- Furrow spacing of 2.5 ft for all crops
- Furrow slope of 0.005 for soils described with 0 to 1 percent slope, and 0.01 ft/ft for soils with 1 to 3 percent slope
- Soil intake family as listed in Table 1, and per Soil Characteristics in Appendix B
- Furrow inflow rates range from 3 to 8.5 gpm and application time is 12 hours. The most efficient combination of flow and application time is selected for analysis.

Inflow rate is adjusted for application times of 12, 18, or 24 hours in order to determine the optimum irrigation efficiency. All fields demonstrated peak efficiency with 12-hour sets with longer sets resulting in decreased efficiency. Fields 1 and 8 were split based on soil-type boundaries.

3.6. Field Irrigation Requirement

Field Application Efficiency (FAE) values are the result of Furrow program runs. Table 2 provides Furrow program results for each field based on furrow spacing and length, soil type, crop, irrigation application depth, irrigation method, and the most efficient inflow time / flow rate combination.

Figure 3 presents a spreadsheet used to determine the Field Irrigation Requirement (FIR) for claim 3-4003 based on crop evapotranspiration requirements, net irrigation application (equivalent to MAD values from the soil analysis spreadsheets, Appendix B), and FAE from Furrow runs (Table 2 and Appendix D). Based on the crop rotation presented, the total on-farm irrigation requirement is 2.46 cfs for 54 acres.

The total on-farm irrigation requirement for claim 63-4262 is 0.035 cfs per acre based on 1.28 cfs for 36 acres identified as irrigated per aerial imagery. Figure 4 presents the FIR spreadsheet for 63-4262.

Table 2. Field characteristics (furrow spacing = 2.5 ft).

<i>Field ID</i>	<i>Size (acres)</i>	<i>Crop</i>	<i>Soil</i>	<i>Irrigation Application (inches)</i>	<i>Slope</i>	<i>Furrow Length (ft)</i>	<i>Inflow Rate (gpm)</i>	<i>Irrigation method</i>	<i>Inflow Time (hours)</i>	<i>Irrigation Efficiency (%)</i>
1a	7	Onions	MtA	0.56	0.005	800	5.5	Furrow	12	17
1b	6	Onions	MwA	0.59	0.005	1200	8.5	Furrow	12	19
2	20	Potatoes	BsA	1.37	0.005	700	4	Furrow	12	52
3	16	Beans	BsA	1.10	0.005	500	3	Furrow	12	40
4	5	Onions	BsB	0.57	0.01	350	3	Furrow	12	14*
5	9	Onions	Mix [†]	0.60				Furrow		20
6	7	Beans	TuB	1.12	0.01	600	3.5	Furrow	12	42
7	9	Potatoes	TuA	1.46	0.005	600	4	Furrow	12	47
8a	4	Grain	MtB	2.19	0.01	450	3.5	Corrugate	12	61
8b	7	Grain	MvA	2.24	0.01	450	3	Corrugate	12	73*

* Irrigation efficiency below 15% and above 70% is limited to 15% and 70%, respectively, for FIR determination based on Dreher and Tuthill, 1999.

[†] Field 5 is a complex mix of 4 soils and varying furrow lengths. The analysis is simplified for this field by selecting slightly above-average conservative values for Irrigation Application (0.60 inches) and Irrigation Efficiency (20%) parameters for onions.

FIELD IRRIGATION REQUIREMENT														
initials:	snk	Claimant = Mann Farms, 3-4003												
date:	12/12/05	Weather Station = Parma Exp Station												
field / crop	acres	irrig.		Monthly ET (mm/day)							AVE IR season	net irrig. app.		irrig. freq.
		system	eff. (%)	mar	apr	may	jun	jul	aug	sep		ET (in)	ratio	
1a/onions	7	fur	17		1.54	3.17	5.24	6.76	5.72	4.14		0.56	1.14	1.8
1b/onions	6	fur	19		1.54	3.17	5.24	6.76	5.72	4.14		0.59	1.14	1.9
4/onions	5	fur	15		1.54	3.17	5.24	6.76	5.72	4.14		0.57	1.14	1.9
2/potato	20	fur	52		1.4	2.39	6.05	7.13	5.32	2.65		1.37	1.13	4.3
3/beans	16	fur	40			1.87	4.17	7.92	3.29	0.56		1.10	1.14	3.1
Summary	54													
Peak Gross Irrigation Application (mm/day) =							27.57							
On-Farm Irrigation Requirement (cfs/acre) =							0.046							
Total On-Farm Irrigation Requirement (cfs) =							2.46							
Irrigation Diversion Volume (ft/yr) =							0.00							
Total Irrigation Diversion Volume (ac-ft/yr) =							0							

Figure 3. Field Irrigation Requirement for claim 3-4003.

FIELD IRRIGATION REQUIREMENT														
initials:	snk	Claimant = Mann Farms, 63-4262												
date:	12/12/05	Weather Station = Parma Exp Station												
field / crop	acres	irrig.		Monthly ET (mm/day)							AVE IR season	net irrig. app.		irrig. freq.
		system	eff. (%)	mar	apr	may	jun	jul	aug	sep		ET (in)	ratio	
5/onions	9	fur	20		1.54	3.17	5.24	6.76	5.72	4.14		0.60	1.14	2.0
6/beans	7	fur	42			1.87	4.17	7.92	3.29	0.56		1.12	1.14	3.2
7/potato	9	fur	47		1.4	2.39	6.05	7.13	5.32	2.65		1.46	1.13	4.6
8a/grain	4	cor	61	0.67	1.58	5.23	7.86	6.57	1.3			2.19	1.11	6.4
8b/grain	7	cor	70	0.67	1.58	5.23	7.86	6.57	1.3			2.24	1.11	6.5
Summary	36													
Peak Gross Irrigation Application (mm/day) =							21.45							
On-Farm Irrigation Requirement (cfs/acre) =							0.035							
Total On-Farm Irrigation Requirement (cfs) =							1.28							
Irrigation Diversion Volume (ft/yr) =							0.00							
Total Irrigation Diversion Volume (ac-ft/yr) =							0							

Figure 4. Field Irrigation Requirement for claim 63-4262.

4. RESULTS AND CONCLUSIONS

The above analysis indicates an average field irrigation requirement of 0.046 cfs per acre for claim 3-4003, and 0.035 cfs per acre for claim 63-4262. Both claims exceed the Idaho standard irrigation rate of 0.02 cfs per acre. The loamy soils present on this farm appear to be fairly well suited for surface irrigation methods. Field application efficiency tends to be high with deep rooting plants such as grains, and low for shallow rooting crops like onions and beans. Based on the current farm configuration and standard 12-hour set times, the claimed flow rates are necessary and justified. Overall system efficiency could be increased on some fields by operating shorter set times for shallow rooting crops.

5. REFERENCES

Allen and Brockway, 1983. Estimating Consumptive Irrigation Requirements for Crops in Idaho. Idaho Water and Energy Resources Research Institute, Moscow

Dreher and Tuthill, 1999. Report Regarding Evaluation of Irrigation Diversion Rates. Idaho Department of Water Resources, January 14, 1999.

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database [Online at <http://www.ncgc.nrcs.usda.gov/products/datasets/ssurgo/>].

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APPENDIX A
ADJUDICATION CLAIM REPORTS FOR
3-4003 & 63-4262

Close

IDAHO DEPARTMENT OF WATER RESOURCES
Adjudication Claim Report

12/06/2005

WATER RIGHT NO. 3-4003

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	MANN FARMS 31801 MANN LN PARMA, ID 83660 (208)722-9039
Original Owner	CHARLES C MANN 31801 MANN LN PARMA, ID 83660 (208)722-6343

Priority Date: 04/01/1961

Basis: Statutory Claim

Status: Active

<u>Source</u>	<u>Tributary</u>
SNAKE RIVER	COLUMBIA RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	03/01	10/31	2.6 CFS	
Total Diversion			2.6 CFS	

Location of Point(s) of Diversion:

SNAKE RIVER|NWNE|Sec. 24|Township 06N|Range 06W|CANYON County

Place(s) of use:

Place of Use Legal Description: IRRIGATION CANYON County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
06N	06W	13		SWSE	1		SESE	3						
		24		NENE	16		NWNE	18		SWNE	8		SENE	8

Total Acres: 54

Dates:

Licensed Date:

Claim Received Date:

Decreed Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Other Information:

State or Federal: S

Owner Name Connector:

Water District Number:

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Civil Case Number:

Old Case Number:

Decree Plaintiff:

Decree Defendant:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False

[Close](#)

Close

IDAHO DEPARTMENT OF WATER RESOURCES
Adjudication Claim Report

12/12/2005

WATER RIGHT NO. 63-4262

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	MANN FARMS 31801 MANN LN PARMA, ID 83660 (208)722-9039
Original Owner	CHARLES C MANN 31801 MANN LN PARMA, ID 83660 (208)722-6343

Priority Date: 04/01/1961
Basis: Statutory Claim
Status: Active

<u>Source</u>	<u>Tributary</u>
WASTE WATER	SNAKE RIVER

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	03/01	10/31	1.2 CFS	
Total Diversion			1.2 CFS	

Location of Point(s) of Diversion:

WASTE WATER|NWSE|Sec. 24|Township 06N|Range 06W|CANYON County

IRRIGATION Use:
Acre Limit: 34

Place(s) of use:

Place of Use Legal Description: IRRIGATION CANYON County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
06N	06W	24		SWNE	13		SENE	1						
				NESE	6		NWSE	16						

Total Acres: 36

Conditions of Approval:

1. This claim is amended to show actual place of use.

Dates:

Licensed Date:

Claim Received Date:

Decreed Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Other Information:

State or Federal: S

Owner Name Connector:

Water District Number:

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Civil Case Number:

Old Case Number:

Decree Plaintiff:

Decree Defendant:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False

Close

APPENDIX B
SOIL CHARACTERISTICS

SOIL CHARACTERISTICS

initials: snk

date: December 7, 2005

MANN FARMS
Field 1a 6.9 acres

Soil Type = MtA Moulton Fine Sandy Loam, 0 to 1% Slopes

0-3" = FSL; 3-21" = FSL, SL; 21-60" = GRV-LS, GRV-S

Source of Soils Data = SSURGO (on-line) and Soil Survey of Canyon Area, Idaho, 1972

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	3	0.13	0.15	6.6	7.8	1	2	1	1.59	2	0.55
3	21	0.11	0.15					2	2.94		
21	60	0.04	0.08					3	3.66		
								4	4.38	alternate	
								5	5.10	method	
										2	0.56

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.55
corn (field or silage)	4	0.5	2.19
grain (winter or spring)	4	0.5	2.19
pasture (or grass hay)	3	0.5	1.83
other (enter below)			
Onions	1	0.35	0.56
Beans	2	0.4	1.18
Potatoes	3	0.35	1.28

SOIL CHARACTERISTICS

initials: snk

date: December 7, 2005

Mann Farms
Field 1b 6.3 acres

Soil Type = MWA Moulton Loam, Saline, 0 to 1% Slopes

0-3" = L; 3-21" = FSL, SL; 21-60" = GRV-LS, GRV-S

Source of Soils Data = SSURGO (on-line) and Soil Survey of Canyon Area, Idaho, 1972

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	3	0.16	0.18	6.6	7.8	1	2	1	1.68	1.5	0.5
3	21	0.11	0.15					2	3.03		
21	60	0.04	0.08					3	3.75		
								4	4.47	alternate	
								5	5.19	method	
										1.5	0.49

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.60
corn (field or silage)	4	0.5	2.24
grain (winter or spring)	4	0.5	2.24
pasture (or grass hay)	3	0.5	1.88
other (enter below)			
Onions	1	0.35	0.59
Beans	2	0.4	1.21
Potatoes	3	0.35	1.31
Beets (same as alfalfa)			

SOIL CHARACTERISTICS

initials: snk

date: December 7, 2005

Mann Farms

Field 2, 19.7 acres

Field 3, 15.1 acres

Soil Type = BsA Bram Silt Loam, Saline-Alkali, 0 to 1 % Slopes

Source of Soils Data = SSURGO (on-line) and Soil Survey of Canyon Area, Idaho, 1972

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	8	0.14	0.17	8.5	9.6	1	2	1	1.62	0.3	0.3
8	52	0.08	0.11					2	2.76		
52	60	0.07	0.1					3	3.90		
60	65	0.1	0.14					4	5.04		
								5	6.10		

alternate
method

1 0.42

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	3.05
corn (field or silage)	4	0.5	2.52
grain (winter or spring)	4	0.5	2.52
pasture (or grass hay)	3	0.5	1.95
other (enter below)			
Onions	1	0.35	0.57
Beans	2	0.4	1.10
Potatoes	3	0.35	1.37

SOIL CHARACTERISTICS

initials:

snk

date:

December 7, 2005

Mann Farms
Field 4, 5.1 acres

Soil Type = BsB Bram Silt Loam, Saline-Alkali, 1 to 3 % Slopes

Source of Soils Data = SSURGO (on-line) and Soil Survey of Canyon Area, Idaho, 1972

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	8	0.14	0.17	8.5	9.6	1	2	1	1.62	0.3	0.3
8	52	0.08	0.11					2	2.76		
52	60	0.07	0.1					3	3.90		
60	65	0.1	0.14					4	5.04		
								5	6.10		

alternate
method

1 0.42

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	3.05
corn (field or silage)	4	0.5	2.52
grain (winter or spring)	4	0.5	2.52
pasture (or grass hay)	3	0.5	1.95
other (enter below)			
Onions	1	0.35	0.57
Beans	2	0.4	1.10
Potatoes	3	0.35	1.37

SOIL CHARACTERISTICS

initials: snk

date: December 8, 2005

Mann Farms
 Field 6, 7.5 acres
 Field 7, 9.2 acres

Soil Type = TuB Turbyfill Fine Sandy Loam, 1 to 3% Slopes

0-3" = FSL; 3-60" = FSL, SL

Source of Soils Data = SSURGO (on-line) and Soil Survey of Canyon Area, Idaho, 1972

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	3	0.1	0.15	6.6	8.4	0	1	1	1.41	1.5	0.5
3	60	0.1	0.13					2	2.79		
								3	4.17		
								4	5.55	alternate	
								5	6.93	method	
										1.5	0.49

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	3.47
corn (field or silage)	4	0.5	2.78
grain (winter or spring)	4	0.5	2.78
pasture (or grass hay)	3	0.5	2.09
other (enter below)			
Onions	1	0.35	0.49
Beans	2	0.4	1.12
Potatoes	3	0.35	1.46

Field 7 also TuA
 (same soil w/ 0-1% slope)

SOIL CHARACTERISTICS

initials: snk

date: December 8, 2005

Mann Farms
Field 8a, 3.6 acres

Soil Type = MtB Moulton Fine Sandy Loam, 1 to 3% Slopes

0-3" = FSL; 3-21" = FSL, SL; 21-60" = GRV-LS, GRV-S

Source of Soils Data = SSURGO (on-line) and Soil Survey of Canyon Area, Idaho, 1972

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	3	0.13	0.15	6.6	7.8	1	2	1	1.59	2	0.55
3	21	0.11	0.15					2	2.94		
21	60	0.04	0.08					3	3.66		
								4	4.38	alternate	
								5	5.10	method	
										2	0.56

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.55
corn (field or silage)	4	0.5	2.19
grain (winter or spring)	4	0.5	2.19
pasture (or grass hay)	3	0.5	1.83
other (enter below)			
Onions	1	0.35	0.56
Beans	2	0.4	1.18
Potatoes	3	0.35	1.28

SOIL CHARACTERISTICS

initials: snk

date: December 8, 2005

Mann Farms
Field 8b, 6.9 acres

Soil Type = MvA Moulton Loam, 0 to 1% Slopes

0-3" = L; 3-21" = FSL, SL; 21-60" = GRV-LS, GRV-S

Source of Soils Data = SSURGO (on-line) and Soil Survey of Canyon Area, Idaho, 1972

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	3	0.16	0.18	6.6	7.8	0	1	1	1.68	1.5	0.5
3	21	0.11	0.15					2	3.03		
21	60	0.04	0.08					3	3.75		
								4	4.47	alternate	
								5	5.19	method	
										1.5	0.49

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.60
corn (field or silage)	4	0.5	2.24
grain (winter or spring)	4	0.5	2.24
pasture (or grass hay)	3	0.5	1.88
other (enter below)			
Onions	1	0.35	0.59
Beans	2	0.4	1.21
Potatoes	3	0.35	1.31

APPENDIX C
CLIMATE DATA

Est. CU and CIR.		Parma Exp. Station				(Allen & Brockway, 1983)																mm/day and mm/season			
		MO	NYRS	PREC	ETR	ALFH.	ALFS.	BEANS	F.CRN	SILGE	S.CRN	PEAS	POTAT	SBEET	SGRAN	WGRAN	PAST.	ORCHD	VEGES	ONION	HOPS				
AVE ET	3	49	.94	2.23											.67	1.38	.77								
AVE IR	3	49	100.00												.25	.91	.30								
STDD ET	3	49	.59	.29											.09	.18	.10								
STDD IR	3	49	100.00												.27	.33	.30								
SKWE ET	3	49	.81	.15											.15	.15	.15								
SKWE IR	3	49	100.00												-.51	-.28	-.51								
AVE ET	4	49	.92	4.67	3.57	3.64						1.53	1.40	1.40	1.58	4.53	3.37	2.04		1.54	1.46				
AVE IR	4	49	93.88		3.03	3.09						1.11	1.05	.94	1.17	4.00	2.85	1.56		1.19	1.01				
STDD ET	4	49	.68	.42	.32	.33						.14	.13	.13	.14	.41	.30	.18		.14	.13				
STDD IR	4	49	93.88		.63	.63						.41	.35	.44	.41	.69	.60	.48		.36	.43				
SKWE ET	4	49	1.35	-.09	-.09	-.09						-.09	-.09	-.09	-.09	-.09	-.09	-.09		-.09	-.09				
SKWE IR	4	49	93.88		-.58	-.57						-.81	-.78	-.86	-.80	-.46	-.58	-.75		-.76	-.84				
AVE ET	5	49	.98	6.24	5.75	5.61	1.87	1.87	1.87	1.87	4.41	2.39	1.90	5.23	6.24	4.80	4.10	1.98	3.17	4.37					
AVE IR	5	49	97.96		5.07	4.93	1.42	1.37	1.37	1.37	3.85	1.98	1.38	4.66	5.58	4.19	3.51	1.58	2.74	3.78					
STDD ET	5	49	.77	.46	.42	.41	.14	.14	.14	.14	.32	.18	.14	.38	.46	.35	.30	.15	.23	.32					
STDD IR	5	49	97.96		.78	.76	.42	.46	.46	.46	.62	.41	.47	.67	.78	.68	.62	.38	.46	.65					
SKWE ET	5	49	1.64	.18	.18	.18	.18	.18	.18	.19	.18	.18	.17	.18	.18	.18	.18	.18	.19	.18					
SKWE IR	5	49	97.96		-.46	-.47	-.83	-.88	-.88	-.88	-.50	-.67	-.88	-.41	-.39	-.51	-.57	-.54	-.54	-.54					
AVE ET	6	49	.90	7.86	6.83	6.73	4.17	3.80	3.80	3.97	5.59	6.05	4.58	7.86	7.85	6.05	6.51	4.53	5.24	7.46					
AVE IR	6	49	100.00		6.13	6.04	3.67	3.25	3.25	3.41	5.02	5.56	4.00	7.22	7.16	5.42	5.86	4.09	4.78	6.77					
STDD ET	6	49	.80	.48	.41	.41	.25	.23	.23	.24	.34	.37	.28	.48	.48	.37	.39	.27	.32	.45					
STDD IR	6	49	100.00		.86	.86	.60	.62	.62	.63	.71	.67	.68	.87	.90	.78	.82	.56	.61	.89					
SKWE ET	6	49	.94	-.07	-.08	-.08	-.08	-.08	-.08	-.08	-.08	-.07	-.08	-.08	-.07	-.07	-.07	-.07	-.08	-.08					
SKWE IR	6	49	100.00		-.21	-.21	-.28	-.34	-.34	-.33	-.21	-.14	-.30	-.13	-.16	-.22	-.21	-.21	-.21	-.17					
AVE ET	7	48	.24	8.58	6.99	5.28	7.92	7.91	7.91	7.87	2.17	7.13	8.52	6.57	4.99	6.61	7.29	6.75	6.76	8.15					
AVE IR	7	48	79.17		6.88	5.18	7.82	7.79	7.79	7.76	2.10	7.04	8.40	6.47	4.90	6.50	7.18	6.67	6.68	8.04					
STDD ET	7	48	.28	.33	.27	.20	.30	.30	.30	.30	.08	.27	.33	.25	.19	.25	.28	.26	.26	.31					
STDD IR	7	48	79.17		.37	.30	.39	.40	.40	.40	.17	.34	.42	.33	.28	.35	.38	.32	.32	.41					
SKWE ET	7	48	3.17	-.04	-.07	-.02	-.04	-.04	-.04	-.06	-.05	-.04	-.09	-.06	-.06	-.05	-.07	-.07	-.05	-.02					
SKWE IR	7	48	79.17		-1.17	-1.43	-.86	-.99	-.99	-1.01	-2.38	-.71	-.92	-.99	-1.37	-1.14	-1.07	-.75	-.76	-.98					
AVE ET	8	49	.51	7.14	5.43	2.92	3.29	6.52	6.52	6.07	5.32	6.89	1.30	1.09	5.50	6.07	5.63	5.72	6.77						
AVE IR	8	49	79.59		5.16	2.70	3.09	6.25	6.25	5.80	5.13	6.61	1.13	.91	5.25	5.81	5.43	5.52	6.50						
STDD ET	8	49	.74	.34	.26	.14	.16	.31	.31	.29	.25	.33	.06	.05	.26	.29	.27	.27	.32						
STDD IR	8	49	79.59		.64	.48	.45	.69	.69	.66	.52	.72	.35	.36	.62	.66	.53	.54	.71						
SKWE ET	8	49	2.37	.12	.11	.12	.11	.12	.12	.14	.13	.13	.12	.12	.12	.13	.14	.13	.15						
SKWE IR	8	49	79.59		-1.66	-1.95	-1.82	-1.54	-1.54	-1.57	-1.43	-1.53	-2.16	-2.21	-1.63	-1.57	-1.40	-1.39	-1.52						
AVE ET	9	49	.61	5.39	3.74	1.40	.56	3.78	3.78		2.65	4.50			4.15	4.42	3.50	4.14	4.85						
AVE IR	9	49	85.71		3.42	1.13	.35	3.48	3.48		2.44	4.18			3.85	4.11	3.28	3.91	4.53						
STDD ET	9	49	.76	.34	.23	.09	.04	.24	.24		.17	.28			.26	.28	.22	.26	.30						
STDD IR	9	49	85.71		.57	.43	.34	.55	.55		.39	.61			.58	.59	.44	.48	.62						
SKWE ET	9	49	2.36	-.15	-.16	-.16	-.14	-.14	-.14		-.16	-.15			-.15	-.15	-.15	-.15	-.16						
SKWE IR	9	49	85.71		-1.52	-2.00	-2.16	-1.48	-1.48		-1.50	-1.39			-1.42	-1.38	-1.30	-1.18	-1.32						
AVE ET	10	48	.88	3.17	1.25	.34		.84					1.88			2.44	1.93								
AVE IR	10	48	93.75		.82	-.07		.43					1.43			1.98	1.49								
STDD ET	10	48	.65	.26	.10	.03		.07					.16			.20	.16								
STDD IR	10	48	93.75		.40	.35		.36					.43			.46	.43								
SKWE ET	10	48	1.15	-.17	-.17	-.35		-.17					.18			-.17	-.18								
SKWE IR	10	48	93.75		-.73	-.84		-.78					-.64			-.57	-.63								
AVE ET	SE	47	142.2	1385.	1025.	790.	547.	758.	732.	609.	417.	762.	909.	709.	795*	1030.	989.	686.	812.	1011.					
AVE IR	SE	47	0.0	0.	933.	702.	503.	693.	680.	565.	368.	710.	826.	639.	715.	928.	903.	645.	759.	936.					
STDD ET	SE	47	50.6	48.	35.	29.	19.	24.	24.	22.	18.	26.	28.	28.	34.	34.	32.	23.	27.	34.					
STDD IR	SE	47	0.0	0.	64.	58.	35.	46.	44.	40.	36.	44.	56.	48.	57.	61.	59.	37.	46.	60.					
SKWE ET	SE	47	.06	.01	-.05	-.04	-.24	-.17	-.33	-.05	-.16	-.32	-.27	-.09	.16	.01	-.18	-.38	-.31	-.32					
SKWE IR	SE	47			.08	.09	-.32	-.23	-.51	-.30	-.24	-.25	-.05	-.05	.04	.17	.02	-.44	-.27	-.28					

APPENDIX D
FURROW.EXE RESULTS

```

-- FURROW.EXE
INTAKE FAMILY (IF) = 0.55
DESIGN APPLICATION (Pa) = 0.56 INCHES
FURROW SLOPE (S) = 0.005 FEET/FOOT
FURROW SPACING (W) = 2.50 FEET
FURROW LENGTH (L) = 600 FEET
INFLOW RATE (Q) = 5.3 GPM/FURROW
APPLICATION TIME (Ti) = 12 HOURS
ADVANCE TIME (Ti) = 451.5 MINUTES; OR 7.5 HOURS
GROSS APPLICATION (PG) = 3.18 INCHES
NET APPLICATION (Fp) = 1.71 INCHES
RUNOFF (RO) = 0.12 INCHES
DEEP PERCOLATION (DP) = 2.49 INCHES
EFFICIENCY (E) = 17.63 %
TO CHANGE: PRESS (EXISTING)
Design Application (C1) = 0.56 in
Furrow Slope (C2) = 0.005 ft/ft
Furrow Spacing (C3) = 2.50 ft
Furrow Length (C4) = 600 ft
Furrow Intake Family (C5) = 0.55
Inflow Rate (C6) = 5.3 gpm/furrow
Inflow Time (C7) = 12 hours (ANALYSIS MODE)
TO PRINT: DATA WITH HEADING PRESS (B/9)
NEW DESIGN PRESS (10), NEW ANALYSIS PRESS (11), QUIT PRESS (12)?

```

Figure 1. Field 1a, onions.

```

-- FURROW.EXE
INTAKE FAMILY (IF) = 0.50
DESIGN APPLICATION (Pa) = 1.32 INCHES
FURROW SLOPE (S) = 0.010 FEET/FOOT
FURROW SPACING (W) = 2.50 FEET
FURROW LENGTH (L) = 500 FEET
INFLOW RATE (Q) = 3.5 GPM/FURROW
APPLICATION TIME (Ti) = 12 HOURS
ADVANCE TIME (Ti) = 193.7 MINUTES; OR 3.2 HOURS
GROSS APPLICATION (PG) = 2.67 INCHES
NET APPLICATION (Fp) = 2.24 INCHES
RUNOFF (RO) = 0.21 INCHES
DEEP PERCOLATION (DP) = 1.56 INCHES
EFFICIENCY (E) = 41.56 %
TO CHANGE: PRESS (EXISTING)
Design Application (C1) = 1.32 in
Furrow Slope (C2) = 0.010 ft/ft
Furrow Spacing (C3) = 2.50 ft
Furrow Length (C4) = 500 ft
Furrow Intake Family (C5) = 0.50
Inflow Rate (C6) = 3.5 gpm/furrow
Inflow Time (C7) = 12 hours (ANALYSIS MODE)
TO PRINT: DATA WITH HEADING PRESS (B/9)
NEW DESIGN PRESS (10), NEW ANALYSIS PRESS (11), QUIT PRESS (12)?

```

Figure 6. Field 6, beans.

```

-- FURROW.EXE
INTAKE FAMILY (IF) = 0.50
DESIGN APPLICATION (Pa) = 0.59 INCHES
FURROW SLOPE (S) = 0.005 FEET/FOOT
FURROW SPACING (W) = 2.50 FEET
FURROW LENGTH (L) = 1200 FEET
INFLOW RATE (Q) = 8.0 GPM/FURROW
APPLICATION TIME (Ti) = 12 HOURS
ADVANCE TIME (Ti) = 636.4 MINUTES; OR 10.6 HOURS
GROSS APPLICATION (PG) = 3.68 INCHES
NET APPLICATION (Fp) = 0.82 INCHES
RUNOFF (RO) = 0.25 INCHES
DEEP PERCOLATION (DP) = 2.74 INCHES
EFFICIENCY (E) = 19.16 %
TO CHANGE: PRESS (EXISTING)
Design Application (C1) = 0.59 in
Furrow Slope (C2) = 0.005 ft/ft
Furrow Spacing (C3) = 2.50 ft
Furrow Length (C4) = 1200 ft
Furrow Intake Family (C5) = 0.50
Inflow Rate (C6) = 8.0 gpm/furrow
Inflow Time (C7) = 12 hours (ANALYSIS MODE)
TO PRINT: DATA WITH HEADING PRESS (B/9)
NEW DESIGN PRESS (10), NEW ANALYSIS PRESS (11), QUIT PRESS (12)?

```

Figure 2. Field 1b, onions.

```

-- FURROW.EXE
INTAKE FAMILY (IF) = 0.50
DESIGN APPLICATION (Pa) = 1.46 INCHES
FURROW SLOPE (S) = 0.005 FEET/FOOT
FURROW SPACING (W) = 2.50 FEET
FURROW LENGTH (L) = 600 FEET
INFLOW RATE (Q) = 4.0 GPM/FURROW
APPLICATION TIME (Ti) = 12 HOURS
ADVANCE TIME (Ti) = 315.2 MINUTES; OR 5.3 HOURS
GROSS APPLICATION (PG) = 2.60 INCHES
NET APPLICATION (Fp) = 2.81 INCHES
RUNOFF (RO) = 0.29 INCHES
DEEP PERCOLATION (DP) = 1.33 INCHES
EFFICIENCY (E) = 47.40 %
TO CHANGE: PRESS (EXISTING)
Design Application (C1) = 1.46 in
Furrow Slope (C2) = 0.005 ft/ft
Furrow Spacing (C3) = 2.50 ft
Furrow Length (C4) = 600 ft
Furrow Intake Family (C5) = 0.50
Inflow Rate (C6) = 4.0 gpm/furrow
Inflow Time (C7) = 12 hours (ANALYSIS MODE)
TO PRINT: DATA WITH HEADING PRESS (B/9)
NEW DESIGN PRESS (10), NEW ANALYSIS PRESS (11), QUIT PRESS (12)?

```

Figure 7. Field 7, potatoes.

```

-- FURROW.EXE
INTAKE FAMILY (IF) = 0.42
DESIGN APPLICATION (Pa) = 1.37 INCHES
FURROW SLOPE (S) = 0.005 FEET/FOOT
FURROW SPACING (W) = 2.50 FEET
FURROW LENGTH (L) = 700 FEET
INFLOW RATE (Q) = 4.0 GPM/FURROW
APPLICATION TIME (Ti) = 12 HOURS
ADVANCE TIME (Ti) = 424.1 MINUTES; OR 7.1 HOURS
GROSS APPLICATION (PG) = 2.64 INCHES
NET APPLICATION (Fp) = 1.41 INCHES
RUNOFF (RO) = 0.29 INCHES
DEEP PERCOLATION (DP) = 0.79 INCHES
EFFICIENCY (E) = 51.90 %
TO CHANGE: PRESS (EXISTING)
Design Application (C1) = 1.37 in
Furrow Slope (C2) = 0.005 ft/ft
Furrow Spacing (C3) = 2.50 ft
Furrow Length (C4) = 700 ft
Furrow Intake Family (C5) = 0.42
Inflow Rate (C6) = 4.0 gpm/furrow
Inflow Time (C7) = 12 hours (ANALYSIS MODE)
TO PRINT: DATA WITH HEADING PRESS (B/9)
NEW DESIGN PRESS (10), NEW ANALYSIS PRESS (11), QUIT PRESS (12)?

```

Figure 3. Field 2, potatoes.

```

-- FURROW.EXE
INTAKE FAMILY (IF) = 0.55
DESIGN APPLICATION (Pa) = 2.19 INCHES
FURROW SLOPE (S) = 0.010 FEET/FOOT
FURROW SPACING (W) = 2.50 FEET
FURROW LENGTH (L) = 450 FEET
INFLOW RATE (Q) = 3.5 GPM/FURROW
APPLICATION TIME (Ti) = 12 HOURS
ADVANCE TIME (Ti) = 92.2 MINUTES; OR 1.5 HOURS
GROSS APPLICATION (PG) = 3.59 INCHES
NET APPLICATION (Fp) = 3.10 INCHES
RUNOFF (RO) = 0.19 INCHES
DEEP PERCOLATION (DP) = 1.22 INCHES
EFFICIENCY (E) = 60.95 %
TO CHANGE: PRESS (EXISTING)
Design Application (C1) = 2.19 in
Furrow Slope (C2) = 0.010 ft/ft
Furrow Spacing (C3) = 2.50 ft
Furrow Length (C4) = 450 ft
Furrow Intake Family (C5) = 0.55
Inflow Rate (C6) = 3.5 gpm/furrow
Inflow Time (C7) = 12 hours (ANALYSIS MODE)
TO PRINT: DATA WITH HEADING PRESS (B/9)
NEW DESIGN PRESS (10), NEW ANALYSIS PRESS (11), QUIT PRESS (12)?

```

Figure 8. Field 8a, grain.

```

-- FURROW.EXE
INTAKE FAMILY (IF) = 0.42
DESIGN APPLICATION (Pa) = 1.10 INCHES
FURROW SLOPE (S) = 0.005 FEET/FOOT
FURROW SPACING (W) = 2.50 FEET
FURROW LENGTH (L) = 500 FEET
INFLOW RATE (Q) = 3.0 GPM/FURROW
APPLICATION TIME (Ti) = 12 HOURS
ADVANCE TIME (Ti) = 265.0 MINUTES; OR 4.4 HOURS
GROSS APPLICATION (PG) = 2.77 INCHES
NET APPLICATION (Fp) = 1.42 INCHES
RUNOFF (RO) = 0.42 INCHES
DEEP PERCOLATION (DP) = 1.25 INCHES
EFFICIENCY (E) = 39.18 %
TO CHANGE: PRESS (EXISTING)
Design Application (C1) = 1.10 in
Furrow Slope (C2) = 0.005 ft/ft
Furrow Spacing (C3) = 2.50 ft
Furrow Length (C4) = 500 ft
Furrow Intake Family (C5) = 0.42
Inflow Rate (C6) = 3.0 gpm/furrow
Inflow Time (C7) = 12 hours (ANALYSIS MODE)
TO PRINT: DATA WITH HEADING PRESS (B/9)
NEW DESIGN PRESS (10), NEW ANALYSIS PRESS (11), QUIT PRESS (12)?

```

Figure 4. Field 3, beans.

```

-- FURROW.EXE
INTAKE FAMILY (IF) = 0.50
DESIGN APPLICATION (Pa) = 2.24 INCHES
FURROW SLOPE (S) = 0.010 FEET/FOOT
FURROW SPACING (W) = 2.50 FEET
FURROW LENGTH (L) = 450 FEET
INFLOW RATE (Q) = 3.0 GPM/FURROW
APPLICATION TIME (Ti) = 12 HOURS
ADVANCE TIME (Ti) = 107.8 MINUTES; OR 1.8 HOURS
GROSS APPLICATION (PG) = 3.08 INCHES
NET APPLICATION (Fp) = 2.36 INCHES
RUNOFF (RO) = 0.83 INCHES
DEEP PERCOLATION (DP) = 0.81 INCHES
EFFICIENCY (E) = 72.73 %
TO CHANGE: PRESS (EXISTING)
Design Application (C1) = 2.24 in
Furrow Slope (C2) = 0.010 ft/ft
Furrow Spacing (C3) = 2.50 ft
Furrow Length (C4) = 450 ft
Furrow Intake Family (C5) = 0.50
Inflow Rate (C6) = 3.0 gpm/furrow
Inflow Time (C7) = 12 hours (ANALYSIS MODE)
TO PRINT: DATA WITH HEADING PRESS (B/9)
NEW DESIGN PRESS (10), NEW ANALYSIS PRESS (11), QUIT PRESS (12)?

```

Figure 9. Field 8b, grain.

```

-- FURROW.EXE
INTAKE FAMILY (IF) = 0.42
DESIGN APPLICATION (Pa) = 0.57 INCHES
FURROW SLOPE (S) = 0.010 FEET/FOOT
FURROW SPACING (W) = 2.50 FEET
FURROW LENGTH (L) = 350 FEET
INFLOW RATE (Q) = 3.0 GPM/FURROW
APPLICATION TIME (Ti) = 12 HOURS
ADVANCE TIME (Ti) = 49.7 MINUTES; OR 0.8 HOURS
GROSS APPLICATION (PG) = 3.95 INCHES
NET APPLICATION (Fp) = 2.29 INCHES
RUNOFF (RO) = 1.65 INCHES
DEEP PERCOLATION (DP) = 1.29 INCHES
EFFICIENCY (E) = 14.39 %
TO CHANGE: PRESS (EXISTING)
Design Application (C1) = 0.57 in
Furrow Slope (C2) = 0.010 ft/ft
Furrow Spacing (C3) = 2.50 ft
Furrow Length (C4) = 350 ft
Furrow Intake Family (C5) = 0.42
Inflow Rate (C6) = 3.0 gpm/furrow
Inflow Time (C7) = 12 hours (ANALYSIS MODE)
TO PRINT: DATA WITH HEADING PRESS (B/9)
NEW DESIGN PRESS (10), NEW ANALYSIS PRESS (11), QUIT PRESS (12)?

```

Figure 5. Field 4, onions.

SCANLAN ENGINEERING

Groundwater and Environmental Engineering

RECEIVED

OCT 12 2001

WATER RESOURCES
WESTERN REGION

October 11, 2001

Lori Harris
Technical Records Specialist, Adjudication Section
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705

Subject: SRBA Claims for Mann Farms

Dear Lori:

Per our telephone conversation this morning, the total acres claimed (36 acres) under water right 63-4262 was correct. The error was in the acreage distribution. As shown on the attached aerial photo, the approximate acres are 13 acres in the SWNE, 1 acre in the SENE, 6 acres in the NESE, and 16 acres in the NWSE. The water diverted under this water right is used to irrigate fields 5, 6, 7, and 8 outlined on the aerial photo. The SCS determination of acreage was 36.3 acres.

Sincerely,



Terry M. Scanlan, P.E., P.G.

Cc: Kent Mann

SCANLAN ENGINEERING

Groundwater and Environmental Engineering

October 9, 2001

Lori Harris
Technical Records Specialist, Adjudication Section
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705

Subject: SRBA Claims for Mann Farms

Dear Lori:

Thank you for the copies of beneficial use claims and amended claims in the SRBA for Mann Farms that you sent to me on October 1. In reviewing the amended claims, I noticed the following errors that I made when I prepared them for Mann Farms.

- Amended Claim 03-4003. Item 14, "Remarks" indicates that Farmers Cooperative Ditch Company is also used. That is incorrect. Water diverted from the Snake River is the only irrigation source for these lands.
- Amended Claim 63-4262. Item 13 "Other Water Rights Used" lists Farmers Cooperative Ditch Company. That is incorrect. Waste water diverted from a drain ditch tributary to the Snake River is the only irrigation source for these lands.

I would appreciate it if you could correct your records for these two claims. Please call me with any questions.

Sincerely,



Terry M. Scanlan, P.E., P.G.

Cc: Kent Mann

RECEIVED

OCT 10 2001

WATER RESOURCES
WESTERN REGION

**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION FIELD REPORT**

Prior to Field Exam

- ☒ Copy of Claim, claim has been signed, sealed, and dated by notary?
- ☒ Check fees paid
 - ☐ Well logs (if needed)
 - ☐ Copy of topo or NAPP
 - ☐ Check of Govt. Lots, if needed, Govt. Plat/Tax lot information
 - ☐ Check POD & POU overlap, see below – include overlapping right for exam
 - ☐ Evidence of Priority – if none, talk with claimant

CLAIMANT INFORMATION – verify contact information is completeClaim No(s) 63-4262Owner: Mann Farms Phone No. 208-722-6343Current Address: 31801 Mann LAI Parma Id. 83660

- ☒ No change NAME IS THE SAME
- ☐ NEW OWNER _____
- ☐ No change Address _____
- ☐ NEW ADDRESS _____
- ☐ How long owned property? _____

Accompanied by: TERRY SCANLAN & Kent Mann**PRIORITY DATE**

- change*
- ☐ No change – Complete evidence submitted or not necessary
 - ☒ Incomplete – Claimant should be asked when water was first used and submit proof of date.
 - ☐ Priority date is acceptable/within mandatory filing dates?

Priority date, per claimant, is: APRIL 01, 1961

(If priority date, based on your exam, seems questionable, explain below.)

Source: Waste Water Tributary to SNAKE RIVER.

- ☒ No Change – SAME SOURCE
- ☐ Source found is different than claimed: _____

POINT OF DIVERSION

- ☒ No change
- ☐ POD found is different than claimed: _____
- ☐ If different, when did POD change? _____

DIVERSION AND DELIVERY SYSTEM

Points of Diversion:

ID #	Govt Lot #	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks GPS ID
			NW	SE	24	06N	06W	Coxson	

Description of diverting works

10-HSP Pump and pipelines to place of use

OVERLAP REVIEWOther water rights with the same point of diversion: NONE

Does overlap add acres or uses to existing system, increase rate of flow or volume, or other? Explain:

WATER USES

- ☐ No change
☐ Different Uses

Use IRRIGATION From 03/01 To 10/31 Amount 1.2 CFS AFA
 Use From To Amount CFS AFA
 Use From To Amount CFS AFA

TOTAL VOLUME – Groundwater only

- ☐ Incomplete on claim, the total is, Amount CFS AFA
☐ Changes found, the new total is, Amount CFS AFA
☐ More than 1" per Acre? Yes (claimant must complete excess flow sheet)

NON-IRRIGATION USES:

- ☒ No change
☐ Changes Exam found: Domestic # of homes Stock #
 Types Additional comments:

PLACE OF USE:

- ☒ No Change
☐ Changes shown below:

Place of Use			NE				NW				SW				SE				Totals
TWP	RGE	SEC	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
					13.0	1.0									6.0	16.0			36.0
																			36.0

Overlap with other water rights: _____

Does overlap increase rate of flow, volume, additional acres, different source for same acres? Explain: _____

Delivery System Narrative: Dam in d Rain with Headgate & Stand pipe
with over flow. (See pic # 2) backs water up to pump &
then pumped up to Cement ditch approx. 100' to the South of pump
to gravity irrigation. (See pic # 3 & 5)

Well or Diversion Identification No GPS ID	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge size
			Serial code		
	Landmark	10.0	92 02	Parma Water Lifter	8"

FLOW MEASUREMENTS:

Attach appropriate documents

DIVERSION (pump)

GPS 2258668

USR 1409026

CHECK STRUCTURE.

GPS 2258844

USR 1409271

NARRATIVE/REMARKS/COMMENTS

MR. Mann & TERRY Scanlan a going to send Evidence of
PRIORITY to TDWR. & ALSO wanting to change PRIORITY
Date.

AFTER EXAM THE FILE SHOULD CONTAIN:

- ☐ Completed claim checklist
- ☐ Photographs of POD's and POU
- ☐ GPS readings
- ☐ Completed map and or GIS layout showing POD's and POU

DATE EXAM CONDUCTED: 10-26-2005

FIELD EXAMINER: Ken Henley

FLOW CALCULATIONS

Measured Method:

_____ Additional Computation Sheets Attached

VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{36.0 \times 4.5 = 162.0 \text{ AF/Y}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{1.20 \times 260 = 312.0 \times 1.9835 = 618.852}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{162.0 \text{ AF/Y}}$$

2. Volume Calculations for Other Uses:

PRC#1 pump + outlet pipe to concrete ditch



063-4262

10-26-2005

GPS 2258668

USR 1469026



Outlet FROM
pump to
concrete ditch

PRC#3



GPS 2258844

USR 1469271

Dam with over flow

PRC#2

Pic# 4

PROPERTY

63-4262

10-26-2005



Pic# 5

8" INlet to concrete ditch
From pump