

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 63-15665
Date Received: 6/13/1989
Receipt No: C007410
Received By:

AMENDED

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

RECEIVED

SEP 08 2006

WATER RESOURCES
WESTERN REGION

1. Name of Claimant(s)

HARRIS MINK FARMS INC
15258 GREEN RD
CALDWELL ID USA 83605

Phone: (208)459-6015

2. Date of Priority: 03/20/1954

3. Source: GROUND WATER

Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of 1/4 of 1/4 Lot	County	Type
04N	03W	9	NW SE SE	CANYON	
04N	03W	9	NE SW SE	CANYON	
04N	03W	9	NE SW SE	CANYON	
04N	03W	9	NE SW SE	CANYON	

5. Description of diverting works:

THREE WELLS IN THE NESWSE, SEC. 9.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or) A.F.A
COMMERCIAL	01/01	12/31	0.32	14.4

7. Total Quantity Appropriated is:

0.32 C.F.S. and/or 14.4 A.F.A.

8. Total consumptive use:

9. Non-irrigation uses:
C/ MINK FARM; 24,000 MINK.

10. Place of use:

Township	Range	Section	1/4	of 1/4	Lot	Use	Acres
04N	03W	9	SW	SE		COMMERCIAL	
			SE	SE		COMMERCIAL	

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:
A63-15665

14. Remarks:

WATER RUNS IN SMALL STREAMS THROUGH APPROX. 240 ROWS IN 52 SHEDS ON A
CONTINUOUS BASIS TO ALLOW THE MINK TO DRINK FRESH WATER.
WATER ALSO USED TO MIX FEED AND CLEAN UP EQUIPMENT.

Right Nos. 63-15665 and 63-15666 are limited to a total combined diversion rate
of 0.32 cfs and 14.4 afa for commercial use from all four wells.

15. Basis of Claim: Beneficial Use

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 Organizations:

I do solemnly swear or affirm that I am President of
Title
Harris Mink Farms, Inc. that I have signed the foregoing
Organization
document in the space below as President of
Title
Harris Mink Farms, Inc. and that the statements contained in the
Organization
foregoing document are true and correct. Brent Harris
Signature of Authorized Agent
President, Harris Mink Farms, Inc.
Title and Organization
9/7/06
Date

State of Idaho)
County of Canyon) SS.

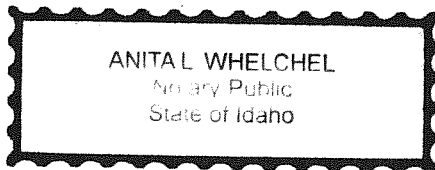
Subscribed and sworn (or affirmed) before me this 7th
of SEPT 2006

Anita L. Wheelchel

Notary Public

Residing at Trampa, ID

My commission Expires 07-01-08



My Commission Expires On
July 1, 2008

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: A63-15665
Date Received: 6/13/1989
Receipt No: 0007410
Received By: act

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: HARRIS MINK FARMS, INC. 208-459-6015
Address: 15258 GREEN ROAD
CALDWELL, ID 83605

2. Date of Priority: MAR 20, 1954

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
04N	03W	9	SE	SW	SE		CANYON

5. Description of diverting works:
WELL, APPROX.180', 4" CASING, 2 HP PUMP

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
COMMERCIAL	01/01	12/31	0.320		

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

8. Total consumptive use is Acre Feet Per Annum.

9. Non-irrigation uses:
C/MINK FARM, 24,000 MINK

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
04N	03W	9	SW	SE		COMMER	

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:

A63-15666, 2ND WELL USED IN SAME SYSTEM.

14. Remarks:

WATER RUNS IN SMALL STREAMS THROUGH APPROX. 240 ROWS IN 52 SHEDS
ON A CONTINUOUS BASIS TO ALLOW THE MINK TO DRINK FRESH WATER.
WATER ALSO USED TO MIX FEED AND CLEAN UP EQUIPMENT.

15. Basis of Claim: BENEFICIAL USE

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 X wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: 1

For Organizations:

I do solemnly swear or affirm that I am President of _____ Title

Harris Mink Farms, Inc. Organization, that I have signed the foregoing

document in the space below as President Title of

Harris Mink Farms, Inc. Organization and that the statements contained in the

foregoing document are true and correct.

Donald B. Harris
Signature of Authorized Agent

President, Harris Mink Farms, Inc.
Title and Organization

6/13/89
Date

State of Idaho)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 13th day
of June 19 87

Helen Harrington
Notary Public

Seal

Residing at Helen Harrington, Notary Public
Residing at Boise, Idaho
My Commission Expires December 1, 1994

3-11-55

Scale: 1 inch = 400 feet

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Race Time

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812-258-

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4-62-069A
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469-15666

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SWISS

A63-15665

醫學博士

13
OREGON TRAIL HIGHWAY
5

APPROXIMATE

NOTE: The above sketch is included here only to assist in locating the premises. No liability is assumed by the company as to its accuracy.

MICROFILMED

AUG 25 1992

09/07/2006

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

RIGHT NUMBER: 63-15665

NAME AND ADDRESS: HARRIS MINK FARMS INC
15258 GREEN RD
CALDWELL ID 83605

SOURCE: GROUND WATER

TRIBUTARY:

QUANTITY: 0.320 CFS
14.400 AFY

Right Nos. 63-15665 and 63-15666 are limited to a total combined diversion rate of 0.32 cfs and 14.4 afa for commercial use from all four wells.

PRIORITY DATE: 03/20/1954

POINT OF DIVERSION:

T04N R03W S9 NESWSE Within CANYON County

T04N R03W S9 NESWSE Within CANYON County

T04N R03W S9 NESWSE Within CANYON County

T04N R03W S9 NWSESE Within CANYON County

Three points of diversion located in T04N, R03W, S9, NESWSE.

PURPOSE AND
PERIOD OF USE:

PURPOSE OF USE
COMMERCIAL

PERIOD OF USE
01/01 12/31

QUANTITY
0.320 CFS
14.40 AFY

PLACE OF USE: COMMERCIAL Within CANYON County

T04N R03W S09 SWSE

T04N R03W S09 SESE

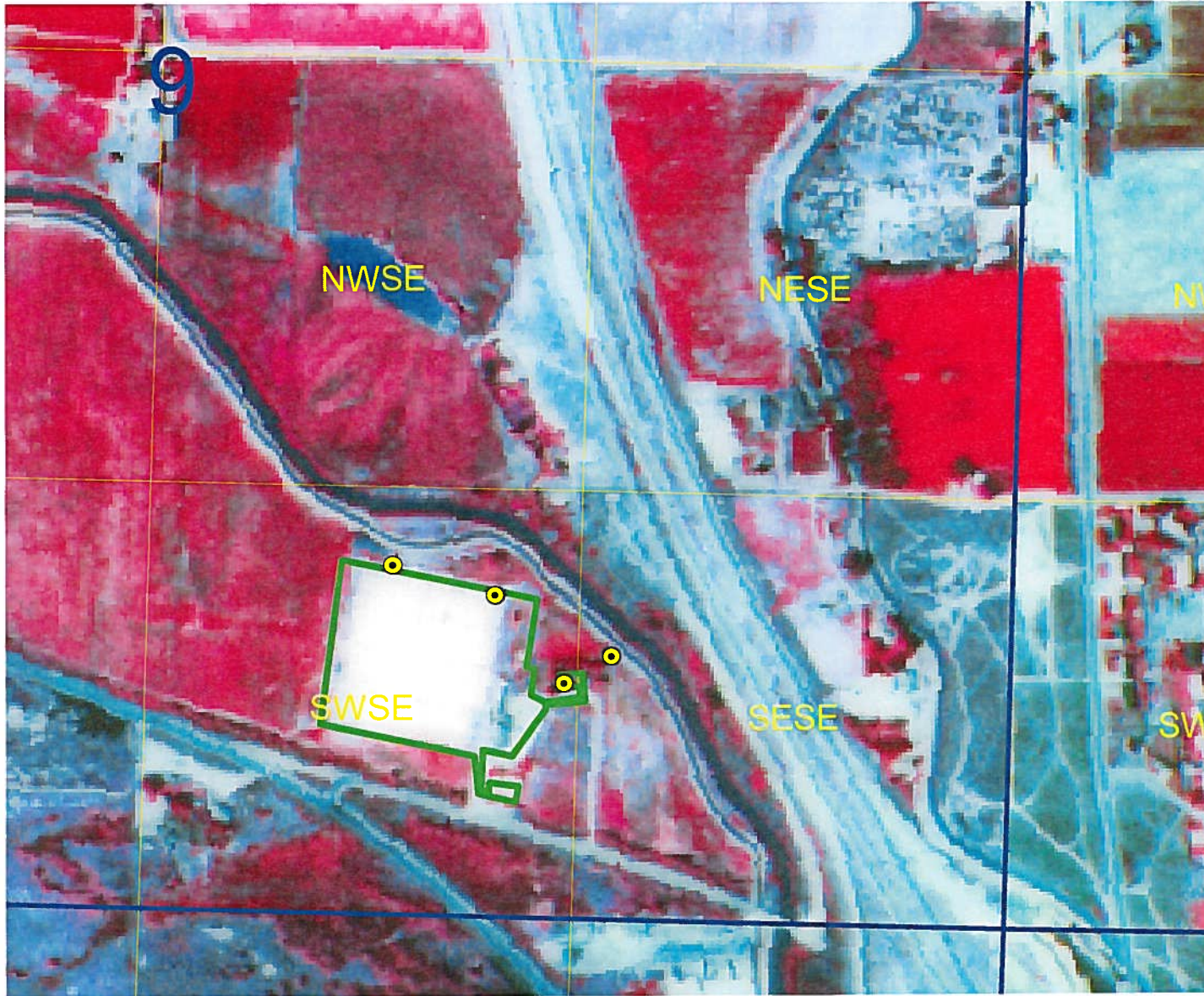
OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

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

Commercial use is for a mink farm.

Idaho Department of Water Resources



**T04N, R03W,
SEC 9**

Claim No: 63-15665

Prepared By: Kimberly Brown

Date: September 7, 2006



Place of Use



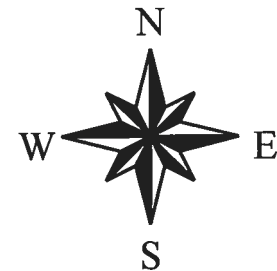
Section Lines



1/4 1/4



Point of Diversion



00.02 Miles



1987 NAPP

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Claim Report 63-15665

WATER RIGHT NUMBER: 63-15665 ✓

Owner Type

Current Owner

Name and Address

HARRIS MINK FARMS INC ✓
 15258 GREEN RD
 CALDWELL, ID 83605
 (208)459-6015

Priority Date: 03/20/1954 ✓

Basis: Beneficial Use ✓

Status: Active

Source

GROUND WATER ✓

TributaryBeneficial Use

COMMERCIAL ✓

From To

1/01 to 12/31 ✓

Diversion Rate

0.320 CFS ✓

Annual Volume

14.4 AFA

Total Diversion:

0.320 CFS ✓

14.4 AFA

Location of Point(s) of Diversion

GROUND WATER

CANYON County ✓

NE
 SE 1/4 SW 1/4 SE 1/4

Sec. 9, Twp 04N, Rge 03W, B.M. ✓

Place of Use

COMMERCIAL ✓

ADD: NW SE SE
 NE SW SE
 NE SW SE

ADD FOR - Three wells
 in the
 NE SW SE,
 S9.

Twp Rge Sec

04N 03W 9

NE

NE | NW | SW | SE

NW

NE | NW | SW | SE

SW

NE | NW | SW | SE

SE ✓

NE | NW | SW | SE

X X

Totals

Conditions of Approval:

1. Comments: WATER RUNS IN SMALL STREAMS THROUGH APPROX. 240 ROWS IN 52 SHEDS ON A CONTINUOUS BASIS TO ALLOW THE MINK TO DRINK FRESH WATER. WATER ALSO USED TO MIX FEED AND CLEAN UP EQUIPMENT.

Remarks:Comments:

ADD: When water rights 63-15665 and 63-15666 are combined they are limited to a total diversion rate of 0.64 cfs and 14.4 afa (for commercial use from all four wells.)

ADD - Commercial use is for a mink farm. (24,000 mink)

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM POU REVIEW REPORT
ADJUDICATION CLAIM NUMBER: 63-15665

09/07/2006

1

Right #	Type	Twp	Rge	Sec	QQ	Q	Lot	Purpose of Use	Acres/Total	Name
~~138E~~	~~Claim~~	~~04N~~	~~03W~~	~~9~~	~~SW~~	~~SE~~		~~IRRIGATION~~	~~40/964~~	~~CANYON DITCH CO~~
~~252~~	~~Claim~~	~~04N~~	~~03W~~	~~9~~	~~SW~~	~~SE~~		~~IRRIGATION~~	~~40/964~~	~~CANYON DITCH CO~~
~~369~~	~~Claim~~	~~04N~~	~~03W~~	~~9~~	~~SW~~	~~SE~~		~~IRRIGATION~~	~~40/964~~	~~CANYON DITCH CO~~
~~2322~~	~~Claim~~	~~04N~~	~~03W~~	~~9~~	~~SW~~	~~SE~~		~~IRRIGATION~~	~~5/6152~~	~~UNITED STATES OF AMERICA ACTING THROUGH~~
~~2322A~~	~~Claim~~	~~04N~~	~~03W~~	~~9~~	~~SW~~	~~SE~~		~~IRRIGATION~~	~~5/6152~~	~~BLACK CANYON IRRIGATION DIST~~
15667	Claim	04N	03W	9	SW	SE		IRRIGATION	5/5	HARRIS MINK FARMS INC
2322	Water Right	04N	03W	9	SW	SE		IRRIGATION	5/6152	US DEPT OF INTERIOR
27785	Water Right	04N	03W	9	SW	SE		STOCKWATER		BERYLIN E JAMESON
~~15665~~	~~Claim~~	~~04N~~	~~03W~~	~~9~~	~~SW~~	~~SE~~		~~COMMERCIAL~~		~~HARRIS MINK FARMS INC~~
15666	Claim	04N	03W	9	SW	SE		COMMERCIAL		HARRIS MINK FARMS INC
15661	Water Right	04N	03W	9	SW	SE		DOMESTIC		HARRIS MINK FARMS INC
15663	Water Right	04N	03W	9	SW	SE		DOMESTIC		LUCILE HARRIS
27785	Water Right	04N	03W	9	SW	SE		DOMESTIC		BERYLIN E JAMESON
138E	Claim	04N	03W	9	SE	SE		IRRIGATION	10/964	CANYON DITCH CO
252	Claim	04N	03W	9	SE	SE		IRRIGATION	10/964	CANYON DITCH CO
369	Claim	04N	03W	9	SE	SE		IRRIGATION	10/964	CANYON DITCH CO
2322	Claim	04N	03W	9	SE	SE		IRRIGATION	25/6152	UNITED STATES OF AMERICA ACTING THROUGH
2322A	Claim	04N	03W	9	SE	SE		IRRIGATION	25/6152	BLACK CANYON IRRIGATION DIST
2878	Claim	04N	03W	9	SE	SE		IRRIGATION	23/6927	BLACK CANYON IRRIGATION DIST
2322	Water Right	04N	03W	9	SE	SE		IRRIGATION	25/6152	US DEPT OF INTERIOR
23539	Water Right	04N	03W	9	SE	SE		STOCKWATER		ELIZABETH GLEASON
~~15665~~	~~Claim~~	~~04N~~	~~03W~~	~~9~~	~~SE~~	~~SE~~		~~COMMERCIAL~~		~~HARRIS MINK FARMS INC~~
15666	Claim	04N	03W	9	SE	SE		COMMERCIAL		HARRIS MINK FARMS INC
23258	Water Right	04N	03W	9	SE	SE		DOMESTIC		MARY E NELSON
23539	Water Right	04N	03W	9	SE	SE		DOMESTIC		ELIZABETH GLEASON

- overlap w/ #63-15666 →
limited to 0.64 cfs + 14.4 afa
when combined

Receipt Details for ID C007410

Status	Adjustment Type	Version
	Adjusted Receipt	1

General Information:

Date Received	Date Deposited	Region	Total Amount	Payment Type
6/13/1989 10:39:37 AM	6/13/1989	State	\$294.00	Check
Payer		HARRIS MINK FARM, INC.		

Account Information:

Check #	Account #	Credit Card Name	Authorization #
1421			
Card Expiration Date	Credit Card Transaction #		

Comment ADJUDICATION FEE

Fee Detail:

Amount	Description	PCA	Fund	Fund Detail	Subsidiary	Object
\$294.00	ADJUDICATION FEE	410162	9337	0	0	6490

Refund(s):

Amount	Payee	Date	Document Number
--------	-------	------	-----------------

Water Right Information:

Basin Number	Sequence Number	Split Suffix	Amount	Type
63	15661		\$25.00	Claim
63	15663		\$25.00	Claim
63	15664		\$25.00	Claim
63	15665		\$82.00	Claim
63	15666		\$82.00	Claim
63	15667		\$55.00	Claim

Print Report

CONVERSATION MEMORANDUM

**RE: Snake River Basin Adjudication Water Right Nos. A63-15665 to -15667
Harris Mink Farm**

July 6, 2006

Donald Harris called in response to the evidence of priority request he recently received. Mr. Harris stated that one well, at "the old stage stop," was originally a domestic well for the house built in 1886. He believes that well pertains to 63-15665. Regarding 63-15666, he replied, "I don't remember." When I mentioned the priority date of 1954, Mr. Harris said, "Oh, that's when the domestic well began being used for commercial purposes." He also added that they purchased the property in 1954. Regarding claim #63-15667, Mr. Harris said that well was "the Canyon Ditch Co. well" that they originally used to fill the canal before they got water from the river.

During our conversation, Mr. Harris also mentioned that they drilled a third well for their system last summer and that they currently have 40,000 mink. Since 40,000 mink is more than the 24,000 mink they claimed, I mentioned that they should file an *Application for Permit* to cover the additional mink.

September 5, 2006

Scott Harris called in response to the Amended Claims that he received in the mail for 63-15665 and 63-15666. Scott Harris was concerned about the volume calculation because they don't have a static water system and, therefore, their "water runs continually." Basically, Scott Harris is questioning the amount of water we are recommending to water the mink because the "water runs continually." "Those valves run 24 – 7 so that they [the mink] have clean water continually," he said, "so the 0.9 afa for the mink is as if they only had bowls of water." I read Dan Nelson's notes regarding his afa and cfs calculations to Mr. Harris and explained that we cannot give him water that is not consumed by the mink and passes by them in the watering tray. When I asked him if they use that excess water for any other purpose after it passes through the mink troughs, Mr. Harris replied that they do not. I, therefore, explained that that water is no

beneficially used and cannot be included in our commercial volume calculation. I asked for Mr. Harris' fax number (#459-1922) and faxed him the appropriate calculation sheets so that he could see what was include in the final volume being recommended. I also informed Mr. Harris that he may file an objection to my recommendation and let the court decide.

Kimberly Brown
Senior Water Resource Agent
Western Region

* * * Memory TX Result Report (Sep. 5. 2006 10:09AM) * * *

1) Idaho Dept. of Water Resources
2)

Date/Time: Sep. 5. 2006 10:07AM

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
5772	Memory TX	94591922	P. 4	OK	

Reason for error

E. 1)	Hang up or line fail	E. 2)	Busy
E. 3)	No answer	E. 4)	No facsimile connection
E. 5)	Exceeded max. E-mail size		

VOLUME CALCULATIONS FOR MINK OPERATION FOR WATER RIGHTS 63-15665 & 63-15666

Mink Drinking water was calculated using a sheet that owner gave me from the Mink Production Scientific 1st edition, 1985, Editor Gunar Jørgensen. This publication states that the mink need 260 grams of water daily. However, the mink get between 55% and 85% of their water needs if their feed is mixed with water. This mink farm did mix their feed with water, so I assumed that they would only drink a maximum of 45% of the 260 grams of water they need. Therefore, I used the following calculations to determine their annual water needs:

(Mink Drinking Water Needs = 25,000 mink in 1957) X (260 grams of water per animal per day) X (0.45 percent of water needed with wet feed) / (453.6 grams per pound) / (8.34 pounds per gallon of water) X (365 days per year) / (325850) = 0.9 acre feet of water needed per year for 25,000 mink.

The owner stated that they had 400 head of hogs in 1954 as well. Using the standard of 4 gallons of water per hog per day, I used the following calculation to determine the hog water needs:

(400 Head of Hogs) X (4 gallons per day per hog) X (365 days) / (325850) = 1.8 afa for hogs.

The owner also stated that he had 20 cows and 2 horses. Both of these animals consume 12 gallons of water a day, so their water needs were calculated as follows:

(22 Head of Cows and Horses) X (12 gallons per day per hog) X (365 days) / (325850) = 0.3 afa for Cows and horses.

The owners told me that they currently use 9,000 pounds of water to mix with their mink food. However, they are now feeding 40,000 mink instead of 25,000 mink so they would only have used 62.5% of that amount of water or 5,625 pounds of water [(25,000 / 40,000) X 9,000 = 5,625 pounds of water]. Therefore, the following are the calculations for the feed mixing needs:

Water Used in Feed Mixing = (5,625 pounds of water) / (8.34 pounds of water per gallon) X (365 days) / 325850 = 0.8 afa of Water Mixed With Feed.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

August 28, 2006

JAMES E. RISCH
Governor

KARL J. DREHER
Director

HARRIS MINK FARMS INC
15258 GREEN RD
CALDWELL ID 83605

RE: AMENDED CLAIMS

Snake River Basin Claim No(s): A63-15665 & A63-15666

Dear Claimants,

These two amended claims are based on the information field examiner Dan Nelson gathered during his 8/23/06 field investigation. Please sign both amended claims in front of a notary and then return them to me.

The signed amended claims need to be submitted by September 5, 2006. Please call me at #334-2190 if you have any further questions.

Respectfully Submitted,

A handwritten signature in cursive script that reads 'Kimberly Brown'. The signature is written in dark ink and is positioned above the printed name and title.

Kimberly Brown
Water Resource Agent
Adjudication Bureau

Enclosure: Amended Claims for A63-15665 & A63-15666

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 63-15665
Date Received: 6/13/1989
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AMENDED

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

COPY

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HARRIS MINK FARMS INC
15258 GREEN RD
CALDWELL ID USA 83605

Phone: (208)459-6015

2. Date of Priority: 03/20/1954

3. Source: GROUND WATER

Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of 1/4 of 1/4 Lot	County	Type
04N	03W	9	NW SE SE	CANYON	
04N	03W	9	NE SW SE	CANYON	
04N	03W	9	NE SW SE	CANYON	
04N	03W	9	NE SW SE	CANYON	

5. Description of diverting works:

THREE WELLS IN THE NESWSE, SEC. 9.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or) A.F.A
COMMERCIAL	01/01	12/31	0.32	14.4

7. Total Quantity Appropriated is:

0.32 C.F.S. and/or 14.4 A.F.A.

8. Total consumptive use:

9. Non-irrigation uses:
C/ MINK FARM; 24,000 MINK.

COPY

10. Place of use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
04N	03W	9	SW	SE		COMMERCIAL	
			SE	SE		COMMERCIAL	

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:
A63-15665

14. Remarks:

WATER RUNS IN SMALL STREAMS THROUGH APPROX. 240 ROWS IN 52 SHEDS ON A
CONTINUOUS BASIS TO ALLOW THE MINK TO DRINK FRESH WATER.
WATER ALSO USED TO MIX FEED AND CLEAN UP EQUIPMENT.

Right Nos. 63-15665 and 63-15666 are limited to a total combined diversion rate
of 0.32 cfs and 14.4 afa for commercial use from all four wells.

15. Basis of Claim: Beneficial Use

COPY

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 Organizations:

I do solemnly swear or affirm that I am _____ of
Title
_____, that I have signed the foregoing
Organization
document in the space below as _____ of
Title
_____ and that the statements contained in the
Organization
foregoing document are true and correct. _____
Signature of Authorized Agent

Title and Organization

Date

State of Idaho)
County of _____) SS.

Subscribed and sworn (or affirmed) before me this

of _____ 20__

Notary Public

Residing at _____

My commission Expires _____

MEMORANDUM

TO: ADJUDICATION FILES 63-15665, 63-15666, AND 15667

FROM: DANIEL A. NELSON

DATE: 8/23/06

SUBJECT: FIELD EXAMINATION

I performed a field exam on the above rights on 8/22/2006. In preparation for my exam, I was under the impression that there were only 3 wells associated with this property. They were the 1954 well, 1957 well, and the irrigation well. However, during my field examination, I discovered that there are actually 5 wells. Those 5 wells are the 1954 well, the 1957 well, the irrigation well, the house well, and a new well drilled to replace the 1957 well. All of these wells are connected into the system, so it was difficult to determine the actual rates of flow. Please see my flow rate calculation sheet to show how the flow rates were determined.

During my field examination, I also determine the volume needs for this facility as it was in 1987. This was also difficult, because the facility now has 40,000 mink instead of the 25,000 it had under these water rights. Therefore, I allowed them all of the peripheral uses such as the employee, cleanup, and break room water needs. I did limit the mink watering and feed mixing needs by the amount required for 25,000 animals instead of 40,000. Please see my volume and diversion rate sheets for these calculations.

The irrigation use was originally requested for the sprinkling of the sheds, and since the sheds are not a growing crop, I moved this use to the commercial use under water rights 63-15665 and 63-15666. The combined diversion rate of 0.64 cfs is more than enough to supply the 0.49 cfs needed for the shed cooling. The irrigation found were the yards around the two homes for a total of 0.8 acres. Therefore, water right 63-15667 will need to be limited to the diversion rate and volume for this irrigation use. All of the irrigation use comes out of the irrigation well, so there will be no need to amend this right.

The biggest issue here is the incorporation of all the wells for the commercial use under water rights 63-15665 and 63-15666. These two rights need to be amended to include the 1957 well, 1954 well, house well, and irrigation well. A new well is being drilled to replace the 1957 well, so I would use location of the new well for the point of diversion under the 1957 well. The 1957 well is supposed to be abandoned once the new well comes on line.

Page 2
Harris Mink Farm memo

I would recommend these rights as follows:

63-15665 = 0.32 cfs /14.4 afa for year round use

63-15666 = 0.32 cfs /14.4 afa for year round use

When water rights 63-15665 and 63-15666 are combined they are limited to total diversion rate of 0.64 cfs and 14.4 afa for commercial use from all four wells.

63-15667 = 0.02 cfs /3.6 afa from 3/1 to 11/15

NEW WELL
UNDER
CONSTRUCTION

1957
WELL

COMMERCIAL
PLACE OF USE

1954 WELL

IRRIGATION
WELL

HOUSE
WELL

SESE

SWSE

T4N R3W S9



DIVERSION RATE CALCULATION SHEET

Prior to visiting this site, I understood that there were only 3 wells. They were the 1954 well, the 1957 well, and the irrigation well. During my field exam I discovered that there are currently 5 wells. The 1954 well, the 1957 well, the irrigation well, the house well, and a replacement well for the 1957 well that is still under construction. I didn't consider the new well when determining the flow rates.

The 1954 well provides all the diversion rate needs for adjudication claim 63-15665. I limited the total of this right to the 0.32 cfs claimed. I took the diversion rate that exceeded the 0.32 cfs from water right 63-15665, and added it with the 1957 well to determine the flow rate for water right 63-15666. I also limited this right to 0.32 cfs. .

Below are my calculations of the flow rate for each right:

63-15665

1954 well = 0.51 cfs calculated flow (see theoretical sheets)

$(0.51 \text{ cfs amount calculated}) - (0.32 \text{ cfs amount claimed}) = 0.19 \text{ cfs available for other rights}$

63-15666

1957 well = 0.20 cfs calculated flow (see theoretical sheets)

$(0.32 \text{ cfs claimed}) - (0.20 \text{ cfs calculated}) = 0.12 \text{ cfs needed from other wells.}$

The 1954 well has 0.19 cfs, which is enough additional water to recommend this right for the full 0.32 cfs.

OTHER WELLS:

The irrigation well provides an additional 0.15 cfs and the house well provides an additional 0.08 cfs into this system. These wells need to be included into the total diversion rate, since they are connected into the system.

CONCLUSION:

There is 0.07 cfs from the 1954 and 1957 wells above the amounts claimed for these rights and an additional 0.23 cfs from the irrigation well and the house well that weren't originally included in these rights. The original claims were for 25,000 mink and the current operation support 40,000 mink. The original claim was for 62% of the current operation ($25,000/40,000 \times 100 = 62\%$). The claimed diversion rate was 0.64 cfs and the current diversion rate is 0.94 cfs when all the wells are added together. The diversion rate claimed is 68% of the amount now used in the facility ($0.64 \text{ cfs} / 0.94 \text{ cfs} \times 100 = 68\%$). With the expansion of the facility, it is only reasonable the diversion rate requirement would also increase. Whereas the mink numbers were 62% of the current operation and the claimed diversion rate was 68% of the current amount, I believe the diversion rate should remain the same as claimed and not be increased.

Even though I would leave the diversion rates at 0.32 cfs for each right, I would include all 5 wells onto the system. The irrigation well was developed in 1900 and the house well was developed around the same time, so I believe that these wells were connected to the system when the operation first started in 1954 as backups and cooling systems.

The total volume for this commercial use was calculated at 14.4 afa, which can easily be supplied under the 0.32 cfs diversion rate for the 63-15665 ($0.32 \text{ cfs} \times 1.9835 \times 365 \text{ days} = 231 \text{ acre feet capability per year}$). Therefore I would recommend that the following rates, volumes, and conditions be used:

63-15665 = 0.32 cfs /14.4 afa for year round use

63-15666 = 0.32 cfs /14.4 afa for year round use

When water rights 63-15665 and 63-15666 are combined they are limited to total diversion rate of 0.64 cfs and 14.4 afa for commercial use from all four wells.

GROUNDWATER THEORETICAL ANNALYSIS

1954 well

FILE: 63-15665

DATE: 8-22-06

BY: DAN NELSON

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$Q = \frac{(8.8 \times (5) \times (0.70))}{60.82} = 0.51 \text{ CFS.}$

$[(10) + (22 \times 2.31)] = 60.82$

LIFT FROM:

Measurement ()

Owner ()

Area estimate (X)

Well Logs ()

Booster (Y) (N)

PSI FROM:

Measurement (X)

Owner ()

Estimate ()

Owner Gage ()

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: The LIFT WAS ESTIMATED AT 10 FT
GIL OF THESE WELLS ARE EITHER FLOWING
ARTESIAN OR ARE HAVE WATER @ 5 FT. BELOW
GROUND. THE PRESSURE WAS MEASURED.

GROUNDWATER THEORETICAL ANNALYSIS

1957 well

FILE: 63-15666

DATE: 8-22-06

BY: DAN NELSON

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$(8.8) \times (2 HP.) \times (0.70) = 12.32$
 $Q = \underline{\hspace{2cm}} = \underline{0.20 CFS.}$

$[(10) + (22 psi' \times 2.31)] = 60.82$

LIFT FROM:

Measurement ()

Owner ()

Area estimate (X)

Well Logs ()

PSI FROM:

Measurement (X)

Owner ()

Estimate ()

Owner Gage ()

Booster (Y) (N)

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: This well was in the
process of being replaced so
I used the same lift pressure
as the 1954 well.

GROUNDWATER THEORETICAL ANNALYSIS

House
Well

FILE: 103-15665

DATE: 8-22-06

BY: DAN NELSON

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$Q = \frac{(8.8) \times (2) \times (0.70)}{153.22} = 0.08 \text{ cfs.}$

$[(10 \text{ FT}) + (62 \times 2.31)] = 153.22$

LIFT FROM:

Measurement ()

Owner ()

Area estimate (X)

Well Logs ()

Booster (Y) (N)

PSI FROM:

Measurement (X)

Owner ()

Estimate ()

Owner Gage ()

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS: The LIFT was Estimated at 10 FT.
All of these wells are either Flowing
artesian or are less than 5 FT below
ground. The pressure was measured.

GROUNDWATER THEORETICAL ANALYSIS

IRRIGATION
well

FILE: 63-15665 & 63-15667

DATE: 8-22-06

BY: DAN NELSON

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8 \times (HP) \times (EFF.))}{TDH}$

Q = CFS

HP = Total Brake Horsepower of pumping plant (including booster)

Eff. = Pumping plant efficiency (assume 70% or 0.70)

TDH = Total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = Depth to water in FEET from land surface to pumping water level

PSI = Pumping pressure measured in PSI near pump (if open discharge assume [0])

$(8.8) \times (\underline{3 HP}) \times (0.70) = 18.48$
Q = _____ = 0.15 CFS.

$[(\underline{5}) + (\underline{60} \times 2.31)] = 120.5$

LIFT FROM:

PSI FROM:

NOTES ON PUMP:

Measurement (☒)

Measurement ()

Motor Make, Serial or ID

Owner ()

Owner ()

Area estimate ()

Estimate (☒)

Pump Make, Serial or ID, rating

Well Logs ()

Owner Gage ()

Booster (Y) (N)

REMARKS: THE LIFT WAS MEASURED. I ESTIMATED
THE PRESSURE ON THE STANDARD OPERATION
NEEDS OF THE SPRINKLERS.

VOLUME CALCULATIONS FOR MINK OPERATION FOR WATER RIGHTS 63-15665 & 63-15666

Mink Drinking water was calculated using a sheet that owner gave me from the Mink Production Scientific 1st edition, 1985, Editor Gunar Joergenson. This publication states that the mink need 260 grams of water daily. However, the mink get between 55% and 85% of their water needs if their feed is mixed with water. This mink farm did mix their feed with water, so I assumed that they would only drink a maximum of 45% of the 260 grams of water they need. Therefore, I used the following calculations to determine their annual water needs:

(Mink Drinking Water Needs = 25,000 mink in 1957) X (260 grams of water per animal per day) X (0.45 percent of water needed with wet feed) / (453.6 grams per pound) / (8.34 pounds per gallon of water) X (365 days per year) / (325850) = **0.9 acre feet of water needed per year for 25,000 mink.**

The owner stated that they had 400 head of hogs in 1954 as well. Using the standard of 4 gallons of water per hog per day, I used the following calculation to determine the hog water needs:

(400 Head of Hogs) X (4 gallons per day per hog) X (365 days) / (325850 = **1.8 afa for hogs.**

The owner also stated that he had 20 cows and 2 horses. Both of these animals consume 12 gallons of water a day, so their water needs were calculated as follows:

(22 Head of Cows and Horses) X (12 gallons per day per hog) X (365 days) / (325850 = **0.3 afa for Cows and horses.**

The owners told me that they currently use 9,000 pounds of water to mix with their mink food. However, they are now feeding 40,000 mink instead of 25,000 mink so they would only have used 62.5% of that amount of water or 5,625 pounds of water [(25,000 / 40,000) X 9,000 = 5,625 pounds of water]. Therefore, the following are the calculations for the feed mixing needs:

Water Used in Feed Mixing = (5,625 pounds of water) / (8.34 pounds of water per gallon) X (365 days) / 325850 = **0.8 afa of Water Mixed With Feed.**

Volume Calculation sheet

The owners informed me that they use approximately 250 gallons of water a day to clean up their shop and another 250 gallons per day to cleanup their feeder equipment. They also use 20 gallons per day to cleanup their 7 transport tubs. This comes to a total of 640 gallons per day for cleanup $[(7 \times 20) + 250 + 250 = 640 \text{ gallons total cleanup}]$. I used the following calculations to determine the annual volume:

Cleanup = (640 gallons per day cleanup needs) X (365 days a year) / 325850 = **0.7 afa for cleanup**

The owners also have a washing machine that they run 3 loads of laundry a day. Using the standard 50 gallons of water per load standard, I calculated the following volume:

Washing Machine Volume = (50 Gallons per wash) X (3 washes per day) X (365 days) / 325850 = **0.2 afa for washing machine use.**

The owner has 15 employees that work 6 days a week for 10 Hour Shifts. There were no showers in this facility, but there was a kitchenette and bathrooms. Therefore, I used the standard 15 gallons of water use per day per employee in following volume calculation:

Employee Needs = (15 employees) X (15 gallons per employee) X (6 days per week) X (52 weeks per year) / (325850) = **0.2 afa for employee needs**

The owner's stated that they spray the top of the mink sheds to cool them down during extremely hot periods. They showed me a sprinkler that had a 5/32 nozzle on one side and an 11/64 nozzle on the other. They ran 19 sprinklers at a time at approximately 50 psi. Using the nozzle chart, the 5/32 nozzle would produce 5.15 gpm and the 11/64 nozzle would produce 6.19 gpm for a total of 11.34 gpm per sprinkler. The owner told me that he operates this system for 7 hours a day for approximately 30 days per year. Using this information, I calculated the barn cooling volume as follows:

Barn cooling = (19 sprinklers) X (11.34 gpm per sprinkler) X (60 minutes per hour) X (7 hours per day) X (30 days per year) / (325850) = **8.3 afa for barn cooling**

There are also two homes using this system. I am including them in the commercial use, eventhough they should be listed as domestic. I used the standard 0.6 afa per home for in-house use.

Home Use = (0.6 afa per year per home) X (2 homes) = **1.2 afa for home use.**

Page 3

Volume Calculation sheet

The following is the total commercial volume used for this facility:

(0.9 afa mink) + (1.8 afa hogs) + (0.3 afa cows and horses) + (0.8 afa feed mixing) +
(0.7 afa cleanup) + (0.2 afa washing machine) + (0.2 afa employees) + (8.3 barn cooling)
+ (1.2 afa home use) = 14.4 afa total commercial water use.

**I recommend that when water rights 63-15665 and 63-15666 are
combined that they are limited to a combined annual volume of 14.4 afa.**

Table 3

NON-IRRIGATION WATER REQUIREMENTS

Types of Establishments	<u>Gallons/day</u>
Airports (per passenger)	3-5
Apartments, multiple family (per resident)	60
Bathhouses (per bather)	10
Camps:	
Construction, semi-permanent (per worker)	50
Day with no meals served (per camper)	15
Luxury (per camper)	100-150
Resorts, day & night, limited plumbing (per camper)	50
Tourist, central bath & toilet facilities (per person)	35
Cottages with seasonal occupancy (per resident)	50
Courts, tourist with individual bath units (per person)	50
Clubs:	
Country (per resident member)	100
Country (per non-resident member)	25
Dwellings:	
Boardinghouses (per boarder)	50
Kitchen requirements (per boarder)	10
Multiple family apartments (per resident)	40
Roominghouses (per resident)	60
Single family (per resident)	50-75
Estates (per resident)	100-150
Hotels:	
With private baths (2 persons/room)	60
Without private baths (per person)	50
Hospitals (per bed)	250-400
Institutions other than hospitals (per person)	75-125
Laundries (per washing/customer)	50

Table 3

NON-IRRIGATION WATER REQUIREMENTS

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Airports (per passenger)	3-5
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Luxury (per camper)	100-150
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Tourist, central bath & toilet facilities (per person)	35
Cottages with seasonal occupancy (per resident)	50
Courts, tourist with individual bath units (per person)	50
Clubs:	
Country (per resident member)	100
Country (per non-resident member)	25
Dwellings:	
Boardinghouses (per boarder)	50
Kitchen requirements (per boarder)	10
Multiple family apartments (per resident)	40
Roominghouses (per resident)	60
Single family (per resident)	50-75
Estates (per resident)	100-150
Hotels:	
With private baths (2 persons/room)	60
Without private baths (per person)	50
Hospitals (per bed)	250-400
Institutions other than hospitals (per person)	75-125
Laundries (per washing/customer)	50

Mink Production

Scientific 1st ed. 1985
editor: Gunnar Torgenson

Water

Water is an often overlooked feedstuff. However, we have numerous examples showing that both the quantity and the quality of the water used at fur farms have a considerable effect on production results. This applies particularly in the winter period, when temperature conditions make effective watering difficult, and during lactation and the early growth period, while the kits are small and therefore have difficulty in learning how to use the automatic watering system.

Pollutants in the water

Drinking water is always a solution – though admittedly a very thin one – of different salts and organic compounds. It is the quantity of these substances that makes the water more or less suitable for drinking purposes. Many of the salts found in water are harmless in “normal” quantities, but the content can be so high that we get a toxic effect – in other words, we pass the toxic limit. The organic compounds are those that originate from plants and animals. Most of these contain nitrogen, and the water’s content of this is measured as its content of different nitrogenous compounds. Finally, the water can contain bacteria that can be directly pathogenic. See also the section on water analysis, page 277.

Water requirement

The mink’s requirement for drinking water depends on various factors, including the feed’s content of dry matter and its content of protein and energy. A mink fed with dry feed must obviously drink more water than one fed with normal mink feed, which in itself contains 60-75% water, but small differences in the water content of the feed can also affect the animals’ need for drinking water. The energy content approximately follows the content of dry matter and consequently has the same effect on the requirement for drinking water. The need for drinking water also increases when the feed contains a surplus of protein. This is because the nitrogen from the surplus protein cannot be converted in the mink and must therefore be eliminated with the urine. However, the organism is “designed” so that the urine can only contain a certain quantity of these “waste products”, and the only way the mink can get rid of them is to produce enough urine to eliminate the lot. That explains the increased need for drinking water.

American experiments have shown that the mink needs 2.8 g water per g dry feedstuff it eats, and that it does not matter whether the water is mixed with the feed or is given separately. However, the tests also show that it is difficult to get the mink to drink enough water when dry

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feed is used. This may be the reason for the problems occasionally encountered when feeding with 100% dry feed.

A male mink weighing 2 kg and a female mink weighing 1 kg have a water requirement of about 260 and 190 g/day, respectively, in the last part of the growth period. When a feed mix with 30% dry matter is used, 80-85% of the water requirement is covered via the feed, whereas with a feed containing 40% dry matter, only 55-60% of the requirement is covered.

Water requirement depends on water content of the feed

It is impossible to emphasize too strongly the importance of giving the mink easy access to a good and plentiful supply of drinking water throughout the year. The most critical periods are lactation and the first period after the kits have begun to eat solid feed in addition to suckling. The need for water is not particularly big in the breeding period, but cold weather can also make this period critical.

Handling of feed and quality requirements

Fresh feedstuffs such as fish offal, industrial fish and slaughterhouse offal are easily digestible raw materials, which must be treated with care if they are to be used with a good result as feed for mink.

The personnel at the feed centres have the experience and, in most places, also the necessary facilities for proper handling of the raw materials used, but the quality of the raw materials on reception sometimes varies considerably. Therefore, in the work going on to improve the quality of the feed, most attention has been paid to methods of producing the best possible raw materials and to control of the chemical and bacteriological quality of these materials.

Good raw materials and correct handling is obvious for a good feed

Decomposition or putrefaction of feed can be caused by microorganisms (bacteria and fungi) or by enzymes. Both the microorganisms and the enzymes mainly come from the natural content in the animals yielding the raw material and are thus necessary elements in a living organism that simply continue functioning after the animal's death.

They have adapted to the conditions in the living organism and consequently have the best conditions for their "work" when the external environment – temperature, relative humidity (water activity), pH, etc. – lies close to that to which they are accustomed. When we want to stop the process of putrefaction, we usually do so by changing one or

Keeping the quality

UNIVERSITY OF IDAHO — FACT SHEET

Hydraulic Relationships and Performance, Soil and Water Relationships

NOZZLE DISCHARGE IN GALLONS PER MINUTE

HYDRAULIC RELATIONSHIPS

*** NOZZLE DIAMETER IN INCHES ***										PRESSURE: (P)*MAY BE IN PSI OR EQUIVALENT FEET OF WATER 1.0 psi = 2.31 feet
psi	3/32	1/8	9/64	5/32	11/64	3/16	13/64	7/32	17/64	
20	1.17	2.09	2.65	3.26	3.92	4.69	5.51	6.37	7.13	FLOW: (Q)*MAY BE IN CFS OR EQUIVALENT GAL. PER MIN. 1.0 cfs = 449 gpm
25	1.31	2.34	2.96	3.64	4.38	5.25	6.16	7.13	8.16	
30	1.44	2.56	3.26	4.01	4.83	5.75	6.80	7.86	8.96	POWER: MAY BE IN KILLOWATTS (KW), WATER HORSEPOWER (WHP), and, ELECT. HORSEPOWER (EHP) 1.0 KW = 1.34 EHP 1.0 EHP = 0.746 KW WHP = Q(gpm) X P(ft) / 3960 KW = 1.732 X V X A X PF/1000
35	1.55	2.77	3.50	4.31	5.18	6.21	7.30	8.43	9.60	
40	1.66	2.96	3.74	4.61	5.54	6.64	7.80	9.02	10.29	EFFICIENCY: (EFF) MAY BE WATER TO WIRE ... WHP / EHP FLUID TO SHAFT .. WHP / SHP
45	1.76	3.13	3.99	4.91	5.91	7.03	8.30	9.60	10.95	
50	1.85	3.30	4.18	5.15	6.19	7.41	8.71	10.10	11.50	VOLUME: ACRE FT. OR ACRE IN. 1.0 cfs = 1.98 AF / DAY 1.0 AF = 12.0 AI
55	1.94	3.46	4.37	5.39	6.48	7.77	9.12	10.50	11.95	
60	2.03	3.62	4.50	5.65	6.80	8.12	9.56	11.05	12.59	
65	2.11	3.77	4.76	5.87	7.06	8.45	9.92	11.45	13.03	
70	2.19	3.91	4.96	6.10	7.34	8.78	10.32	11.95	13.66	
75	2.27	4.05	5.12	6.30	7.58	9.08	10.66	12.32	14.03	
80	2.35	4.18	5.29	6.52	7.84	9.39	11.02	12.74	14.41	
85	2.42	4.31	5.45	6.71	8.07	9.67	11.35	13.11	14.81	
90	2.49	4.43	5.61	6.91	8.31	9.95	11.69	13.51	15.22	
95	2.56	4.56	5.76	7.09	8.53	10.20	11.99	13.86	15.64	
100	2.63	4.67	5.91	7.29	8.76	10.50	12.32	14.23	16.07	

$$Q(\text{gpm}) = 30.0 \times D(\text{in.})^2 \times P(\text{psi})^{0.5}$$

h = AVERAGE APPLICATION RATE IN INCHES PER HOUR

spacing	2	3	4	5	6	7	8	9	10	11	12	spacing
feet	*	*	*	gallons per minute per sprinkler							*	feet
20x20	.48	0.72	0.96	1.20	1.44	1.70	1.93	2.16	2.40	2.64	x.x	20x20
20x30	.32	0.48	0.64	0.80	0.96	1.12	1.28	1.43	1.60	1.76	1.9	20x30
20x40	.24	0.36	0.48	0.60	0.72	0.84	0.96	1.08	1.20	1.32	1.4	20x40
30x30	.21	0.32	0.43	0.54	0.64	0.75	0.88	0.96	1.07	1.17	1.2	30x30
30x40	.16	0.24	0.32	0.40	0.48	0.56	0.64	0.72	0.80	0.88	0.9	30x40
30x50	.13	0.19	0.25	0.32	0.38	0.45	0.51	0.58	0.64	0.70	0.7	30x50
40x40	.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54	0.60	0.66	0.7	40x40
40x50	.10	0.14	0.19	0.24	0.29	0.34	0.38	0.43	0.48	0.53	0.5	40x50
40x60	.xx	0.12	0.16	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.4	40x60

LONG-TERM BASIC SOIL INFILTRATION RATES		PEAK APPLICATION RATE FOR PIVOTS	
AGGREGATED-STRUCTURED-BARE-OPEN SOIL & POOR SOIL		r; R = rad. of sprinkler and pivot	
Course Sand. (*0.9)	> 0.75 - 1.00"/hr.	0.35"/hr.	h = 122.5 X Q(pvt.gpm) / (r X R)
Fine Sands. (*1.2)	> 0.50 - 0.75"/hr.	0.25"/hr.	
Fine S.Loam. (*1.9)	> 0.35 - 0.50"/hr.	0.20"/hr.	EXPECTED IRRIGATION EFFICIENCIES
Silt Loam. (*2.3)	> 0.25 - 0.40"/hr.	0.13"/hr.	Sprinkler 50 to 70%
Clay Loam. (*2.2)	> 0.10 - 0.30"/hr.	0.07"/hr.	Drop Sprays 60 to 80%
For 10 - minute SHORT-TERM rate, multiply by 6		Level Boarder 50 to 80%	
(*X.X) = Aprox. Water Holding Capacity (in./ft.)		Furrow 20 to 50%	

CONVERSION TABLES

1 METER	= 1.09 YARDS or 39.37 INCHES
1 CUBIC FOOT OF WATER	= 7.48 GALLONS
1 U.S. GALLON	= 3.785 LITERS
1 U.S. GALLON	= 0.8327 IMPERIAL GALLONS
1 IMPERIAL GALLON	= 1.2 U.S. GALLONS
1 U.S. GALLON	= 8.333 or 8.34 POUNDS
1 CUBIC FOOT OF WATER	= 62.4 POUNDS
1 MILE	= 5,280 FEET
1 PSI	= 2.31 FEET OF WATER (HEAD)
1 PPM	= 1 mg/l
1 HORSEPOWER	= .7457 KW or 746 WATTS
33,000 FOOT POUNDS PER MINUTE	= 1 HORSEPOWER
27 CUBIC FEET	= 1 CUBIC YARD (3 x 3 = [9] x 3 = 27)
1 CUBIC FOOT	= 1728 CUBIC INCHES
1 ACRE	= 43,560 SQUARE FEET
1 ACRE FOOT	= 43,560 CU FT or 1 ACRE, 1 FOOT DEEP or .33 MG
144 SQUARE INCHES	= 1 SQUARE FOOT (12" x 12")
1728 CUBIC INCHES	= 1 CUBIC FOOT (12" x 12" x 12")
C° + 40 x 1.8 - 40	= DEGREES FAHRENHEIT
F° + 40 1. 1.8 - 40	= DEGREES CENTIGRADE
1 GALLON PER MINUTE	= 1440 GALLONS PER DAY (60 minutes x 24 hours)
1 CUBIC FOOT PER SECOND	= 448.8 GALLONS PER MINUTE (7.48 times 60 seconds)
453.6 GRAMS	= 1 POUND
7000 GRAINS	= 1 POUND
25.4 MILLIMETERS	= 1 INCH
2.54 CENTIMETERS	= 1 INCH
0.2642 GALLONS	= 1 LITER
Pi	= 3.14159265 or 3.14 or THE CIRCUMFERENCE DIVIDE BY THE DIAMETER (C/D)
1 CUBIT	= 18 INCHES (A PERSONS ELBOW TO THE END OF THE MIDDLE FINGER)
1 %	= 10,000 PPM OR 10,000 MG/L

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 8/22/2006

FILE NUMBER 63-15665 AND 63-15666



The top photo shows the 1957 well. The pump has been pulled from this well because it has sanded in. A replacement well due north of this well has been drilled, but it hasn't been constructed yet.

The photo below shows the two irrigation wells. The blue pump on the right is used for the shed cooling and has a control valve that will allow it to be used as a backup well for the entire system.



I forgot to get pictures of the 1957 well and was unable to get a picture of the house well. The house well is located under the front porch of the original home, so it cannot be seen without crawling under the porch. The house is rented, and the renter's dogs refused to give us or the owner entry onto the property.

PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 8/22/2006

FILE NUMBER 63-15665 AND 63-15666



The top photo shows the break room for this facility. You can see the washing machine, microwave, sink, refrigerator, and two bathrooms.



The middle and bottom photos show the watering device for the mink. There is a small trough that flows in front of the cages and there bend in the wire cage that allow the mink to drink out of the trough. The water flows 24 hours a day 7 days a week. Excess water is collected in the white troughs on the end and sent to the next set of pens.



PHOTOGRAPHER AND DATE OF PHOTOS DANIEL A NELSON 8/22/2006

FILE NUMBER 63-15665 AND 63-15666



The photo above shows the mink sheds and the sprinklers on top of the sheds.



The second photo shows the feed mixing room. The yellow hose is used to supply water for the feed. The black hose in the left hand corner is the pressure washer used to clean out the transport tubs. The feed wagon is in the foreground with a transport tub on it.



The picture below is shows a transport tub. These are cleaned daily.

FIELD NOTES

ADDITIONAL INFORMATION NEEDED FOR COMMERCIAL FIELD EXAMS

Field Examiners, please complete the following checklist. Mark "unknown" or N/A if information doesn't apply.

IF CURRENT OWNER DOES NOT MATCH PROOF REPORT PLEASE GIVE NEW OWNER CHANGE OF OWNERSHIP FORM TO COMPLETE.

Pump information:

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
1954	PRIEST ELECT	5HP	04-07-04 52092		3 in discharge
1900 well	Baldor	5hp	JML14062	Berkley	LFL4-3 540815

Lift (distance from pump to water) 10 FT Estimated

How was lift determined (well log, measurement, owner)? Estimated

Pressure against pump (this is checked using the owner's psi gauge, your gauge, or an estimate by owner) 62 PSI Measured.

Was a measurement made? NO If no can a measurement be made at a latter time? NO

What type of measurement device was used? Theoretical

Is there a pump curve available for pump? NO

ARTESIAN
FLOW
when
NOT
pumping

Mapping Information:

Please clearly outline area of commercial use on attached aerial photo. DONE

Please clearly mark all points of diversion on map and GPS. DONE

Please take pictures of Place of Use and Point of Diversion. DONE

Commercial Use Information (how much water per year do they use?):

Type of establishment (church, camp, hospital, laundry, ect.):

Type of Facilities (Kitchen/cafeteria, lavatories, showers, baths, sinks trailers flush toilets):

22 PSI
50 PSI
House well
MAKE BRUNDAGE UNKNOWN
HP
2HP
SERIAL
UNKNOWN
PUMP
MAKE
BRUNDAGE
DISCHARGE
UNKNOWN
62 PSI

Number of fixtures (number of flush toilets, number of bathtubs, number of bathroom/kitchen sinks, number of showers, ect.):

How Many Employees and/or public individuals per day use the facilities for this commercial use?

How Many Hours per day is the facility open for the above uses:

How Many Days per Year is the facility open for the above uses:

FIELD EXAMINERS NOTES:

WELL FOR ORIGINAL HOME WAS
USED FOR MINK FARM WHEN
CURRENT OWNER PURCHASED PROPERTY
IN 1954, THEY DRILLED THE SECOND
WELL WAS ADDED IN 1957.
BOTH WELLS OPERATE AT SAME
TIME. SO HAVE A COMBINED.

WAS
BUILT IN
1880.

IRRIGATION WELL USED FOR
BACKUP & COOLING USES

SHOULD BE ON @ 1954
RIGHT.

DATE EXAM CONDUCTED _____

FIELD EXAMINER _____

ADDITIONAL INFORMATION NEEDED FOR COMMERCIAL FIELD EXAMS

Field Examiners, please complete the following checklist. Mark "unknown" or N/A if information doesn't apply.

IF CURRENT OWNER DOES NOT MATCH PROOF REPORT PLEASE GIVE NEW OWNER CHANGE OF OWNERSHIP FORM TO COMPLETE.

Pump information:

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
57 Well	sears	2HP			2" DINE

Lift (distance from pump to water) 10 FT Estimated

How was lift determined (well log, measurement, owner)? ✓

Pressure against pump (this is checked using the owner's psi gauge, your gauge, or an estimate by owner) 22 PSI measured

Was a measurement made? NO If no can a measurement be made at a latter time? NO

What type of measurement device was used? Theoretical

Is there a pump curve available for pump? _____

Mapping Information:

Please clearly outline area of commercial use on attached aerial photo. _____ DONE

Please clearly mark all points of diversion on map and GPS. _____ DONE

Please take pictures of Place of Use and Point of Diversion. _____ DONE

Commercial Use Information (how much water per year do they use?):

Type of establishment (church, camp, hospital, laundry, ect.):

Type of Facilities (Ktichen/cafeteria, lavatories, showers, baths, sinks trailers flush toilets):

PS: 22
62
House/Shop
5700 ft
1 Addition
From

Number of fixtures (number of flush toilets, number of bathtubs, number of bathroom/kitchen sinks, number of showers, ect.):

How Many Employees and/or public individuals per day use the facilities for this commercial use? 15

12 employees 50 hrs/wk.
Bath Room, Lunch Room

How Many Hours per day is the facility open for the above uses:

STOVE
FRIDGE

How Many Days per Year is the facility open for the above uses:

2- HORSES -
200-400 hogs

MINK - 25,000 min
20 Head CATTLE (Range)

FIELD EXAMINERS NOTES:

Washer & Dryer - 2-3 Loads / 10 gal / 6 days/wk.
Water Cooler - DRINKING.

NO SHOWERS.

MIXING
↓
Shed

250 gal - 1 per Day - Shop clean up

250 gal - Feeder Equip Wash.

20 gal - Tub washing (Feeders)
- 7 Tubs

4 every other day
3 - every Day

Wash -

Shed Sprinkling - 19
1/2 5/32 1/2 3/8
1/2 3/8
19 nozzles per set
Time/day - 30 days.

DATE EXAM CONDUCTED

FIELD EXAMINER

1-Hemp
in 57

Feed mixing
9,000 Lbs water
per Day

Other House Built
in 78.



1957
Abundant
11m
11m
11m
11m

1978
11m
11m
11m
11m

1984
1988
1990
1991

X

A63-15665, -15666, -15667 Field Exam Request:
Harris Mink Farms Inc.

Contact:

07/12/2006

Contact **Donald or Brent Harris** at #459-6015 to set up a field exam.

Property Address:

15258 Green Rd.
Caldwell

Requests:

*Please verify all of the elements of this right.

In addition, please verify:

- **GPS** the location of the wells.
- Is **Canyon Ditch Irrigation Co.** water used to supplement any of these three rights? Or **just 63-15667**?
- **1987 Aerial Photo:** Please draw the **commercial POU**s and the **5.0 acres** that are irrigated on the enclosed **1987 aerial photograph(s)**. Draw the **diversion works** on the 1987 aerial photo also; along with the **points of diversion**.
- **Capacity of System:** Calculate the capacity of each system. Verify that the claimed **two 0.32 cfs** and **0.1 cfs** are possible/applicable.

How do **63-15665 & **63-25666** differ – just two different wells for the same use(s)?

Plus, I need **commercial use volumes for **63-15665** & **63-15666**. Please refer to the two **Commercial Use Volume questionnaires** submitted by the claimant (enclosed) and ask him if he has any idea of how many gallons per day he used in **1987** for **24,000 mink** (not the 40,000 mink they have today). Please attempt to calculate a commercial use volume for these two claims, if possible.

- Regarding **63-15667**, the claimed use is for **irrigation** purposes only. The Field Investigation conducted for this claim in 2003 by Karan Waters (enclosed) states that the **“POU is 2 house lawns and mink shed roofs for cooling plus back up for mink watering.”**

**The “two house lawns” makes sense, but I need more clarification on the irrigation of “shed roofs” and “mink watering.” Please clarify this “irrigation” use.

Kimberly Brown
Sr. Water Resource Agent
IDWR - Western Region

RECEIVED

JUL 11 2006

WATER RESOURCES
WESTERN REGION

COMMERCIAL USE VOLUME

Please keep in mind that these questions pertain only to the use of the water listed on the enclosed **Adjudication Claim Report #A63-15665**.

Type of Establishment: (example – camp, church, country club, bar/lounge, boardinghouse, factory, motel, highway rest area, hospital, laundry, office, park, restaurant, school, service station, theater)

Mink Farm

Type of Facilities: (example: kitchen facility/cafeteria, lavatory facilities, shower(s), bath(s), sink(s), trailers, flush toilets)

Watering Mink - Mix Feed and Clean Equipment

Number of Fixtures: (example: number of flush toilets, number of bathtubs, number of bathroom/kitchen sinks, number of showers, etc.)

240 rows in 82 Sheds + Feed Kitchen

How many employees (and/or public individuals) per day use each of the facilities your commercial use is based upon?

12

How many hours per day is the facility open for this specific use?

24

How many days per week is the facility open for this use?

7

Is this facility open year round? ☒ Yes ☐ No

If not, please indicate the length of time the facility is open during the year.

** Most businesses have a good idea of how many gallons of water per day they use. If this is true in your case, please indicate how many **total gallons of water you use** for the commercial purposes explained above:

2 hp pump - 2" pipe - at 36-35 psi
running continuously 24 hrs/day

Additional information you feel may be pertinent:

The house was built in 1886 - I assume the well was put in then. We moved in in 1954 and started using the well both as a domestic well and to water mink. In 1989, it became the backup well for a new 6" well. It is still used as a domestic well, for mixing feed and washing equipment and as a backup for watering mink.

Brent Harris
Your name

459-6015
Business telephone number

Please return to:

ATTN: Kimberly Brown
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705-5082



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

June 28, 2006

JAMES E. RISCH
Governor

KARL J. DREHER
Director

HARRIS MINK FARMS INC
15258 GREEN RD
CALDWELL ID 83605

RE: EVIDENCE OF PRIORITY

Snake River Basin Claim No(s): A63-15665, A63-15666, & A63-15667

Dear Claimants,

In the past, you submitted the above referenced claim(s) during the Snake River Basin Adjudication (SRBA) claims taking. Enclosed is a computer generated print-out of the claim(s) for your reference only, it is not necessary to return this print-out. You indicated, when this claim was filed, that the water right(s) was based on either a "Statutory Claim" or "Beneficial Use" of the water. Water rights of this type are established by historical use of the water for a beneficial use purpose, dating back to the time the water was first used; this date being the "Priority Date" as shown on the enclosed print-out. Your claim(s) has not been confirmed by a previous filing with the Department of Water Resources since there is no decree, license, or permit on file to verify the use of this water. For this reason, the Department is required to gather evidence from claimants supporting the date of priority for claims based on historical beneficial use of water.

Enclosed is a pamphlet entitled "Evidence of Priority" which describes why evidence of the priority date is necessary, along with examples of types of evidence that can be submitted to fulfill this requirement. While I encourage you to read the entire pamphlet, I direct your attention to the two sections entitled. **"What Kind of Evidence is Required"** and **"Some Examples of Documents Which May Be Evidence of the Priority Date."**

It is important that each element of the Notice of Claim be substantiated. For instance, regarding claims for irrigation, the evidence should tend to show that diversion works were in place, that they were capable of diverting the claimed diversion rate, and that the diverted water was beneficially used on the entire claimed place of use on or before the claimed priority date.

If no evidence is submitted, or we do not hear from you within the time limit below, your priority date, as claimed, may not be recommended to the SRBA court for decree. This could jeopardize your water use under this right(s) if water availability problems arise in the future.

The required evidence supporting the priority date(s) requested needs to be submitted by July 14, 2006. Please let me know if you may not be able to submit proof of priority or have any questions not covered by this letter and the enclosed pamphlet, by the date indicated above.

In addition, since it is our goal to decree the historical water right within the Snake River Basin as accurately as possible, field exams are now being conducted by Department water resource agents to verify claims in this area. In the near future, you will be receiving a call from us in order to set-up an appointment for a field exam.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

Respectfully Submitted,

Kimberly Brown

Kimberly Brown
Water Resource Agent
Adjudication Bureau

JAMES E. RISCH
Governor

KARL J. DREHER
Director

Enclosure: "Evidence of Priority" pamphlet
Notice of Claim A63-15665, A63-15666, & A63-15667

NOTE: If you no longer own the property upon which this claim was filed, please contact this office immediately. Idaho State law requires that the Department be notified of a change of owner or address on a water right.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

FAX (208) 334-2348

June 28, 2006

JAMES E. RISCH
Governor

KARL J. DREHER
Director

HARRIS MINK FARMS INC
15258 GREEN RD
CALDWELL ID 83605

RE: Commercial use for Snake River Basin Adjudication claims 63-15665 & 63-15666

To Whom It May Concern,

The Idaho Department of Water Resources is currently reviewing the claim to a water right you filed during claims taking in the Snake River Basin Adjudication (SRBA). During the initial review of this claim, we found that you claimed a commercial use that requires a volume amount be included in our recommendation to the SRBA Court (please refer to the enclosed copy of your adjudication claim report: under Annual Volume). In order for us to calculate your annual volume, it is necessary that we ask for additional information not gathered when you, or the original claimant, filed this water right.

Please refer to the Commercial Use Volume sheet (enclosed), answer the appropriate questions as specifically as possible, and return it to this office by July 14, 2006 so that we are able to calculate the annual volume associated with your water right; as required by the SRBA Court.

This review of your claim, in addition to the submittal of our recommendation to the SRBA Court, will result in a decreed right for your property. This water right then remains with the land as long as it is being used. We will give you the opportunity to review our recommendation and provide feedback, if necessary, prior to its submittal to the SRBA Court.

Please feel free to contact me at 334-2190 if you have any questions.

Respectfully submitted,

A handwritten signature in cursive script that reads 'Kimberly Brown'.

Kimberly Brown
Water Resource Agent

Enclosures

Field Investigation Report

Completed by *Karan Waters*

Claim Number 63-15667

Contact:

Contact Date: 5/23/03

Harris Mink Farms, Inc.

15258 GREEN RD

CALDWELL ID 83605

208-459-6015

☒ **Verified**

☐ **New owner**

Source of Information

Brent Harris

Contact Comments

Exit 26, right on green rd, 1st house on left

Appointment Date: 5/28/03

Appointment Time: 11:30 AM

Claim Number 63-15667

POD id 162101
Legal Description 04N 03W 9 SE SE
Desc of Diversion W well, approx. 24' deep, 10' dia.
Site Tag # A0002025 **GPS File Name** 234

Motor Make Baltimore, cat.no. jml1406t,s/
Pump Make Sta-rite model dhh-169 s/n d
Horsepower 3
Pressure gage 40 psi
pump bowl or static static
Depth level 1 Ft.
dyn. pump level 11 Ft.

POD Remarks:

The well is 10 ft. in diameter and there are 2 pump systems pumping water from the single pod. This is the Blue System description. The yellow system consists of a Dayton motor, s/n 11036..., 2hp, with a Sears pump, model 390, s/n 26080, pressure gage 40 psi. Using an 11' dynamic pumping level from BGW map for static level calculates to an additional .10 cfs. POU is 2 house lawns and mink shed roofs for cooling plus backup for mink watering. *average default psi used in theoretical

Pressure gage at sprinkler 0 psi

Bucket Measurment (gps) 0

Calc Method: Theoretical

Flow (cfs) 0.15

Photos

dsc00368	Blue system pump nameplate
dsc00369	blue system
dsc00372	yellow system
dsc00374	blue system motor nameplate
dsc00375	yellow system motor name plate
dsc00376	yellow system pump nameplate
dsc00377	sprinkler cooling system on barn roof facing north
dsc00379	mink sheds facing west
dsc00380	1st yard facing south
dsc00381	2nd yard facing NE
dsc00384	mink sheds facing N



368



369



372

BALDOR®

INDUSTRIAL MOTOR

SINGLE PHASE

CAT. NO.

SPEC.

FRAME

H.P.

VOLTS

AMPS

R.P.M.

HZ

SER. F.

FULL LOAD EFF.

RATING

SER.

DF

4

PH 1

DES

% PF

CLASS

CODE

CONNECTION

LOW VOLTAGE



LINE

HIGH VOLTAGE



LINE

TO 100% 110%
INS. RESISTANCE

MAY 28 2003

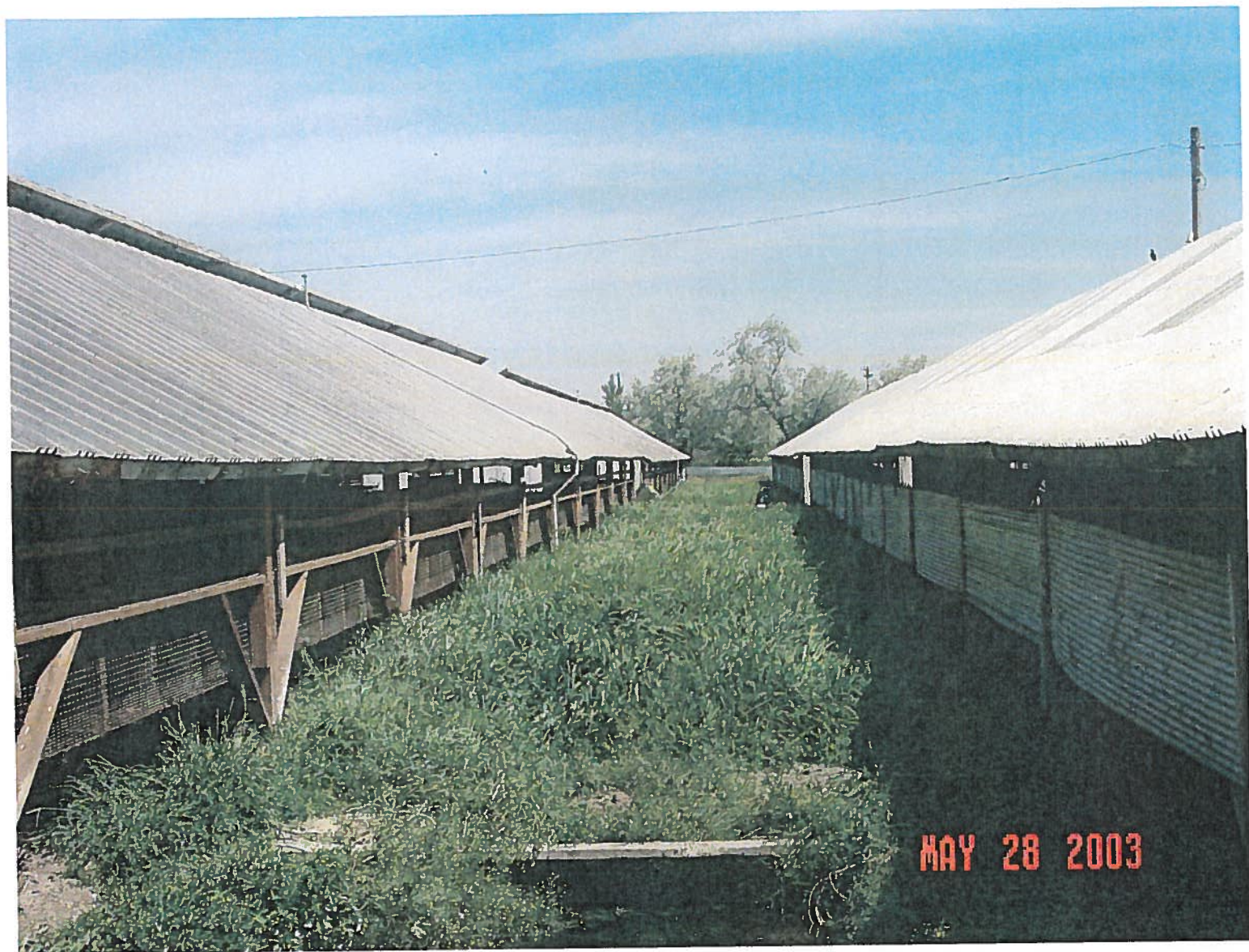
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375



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