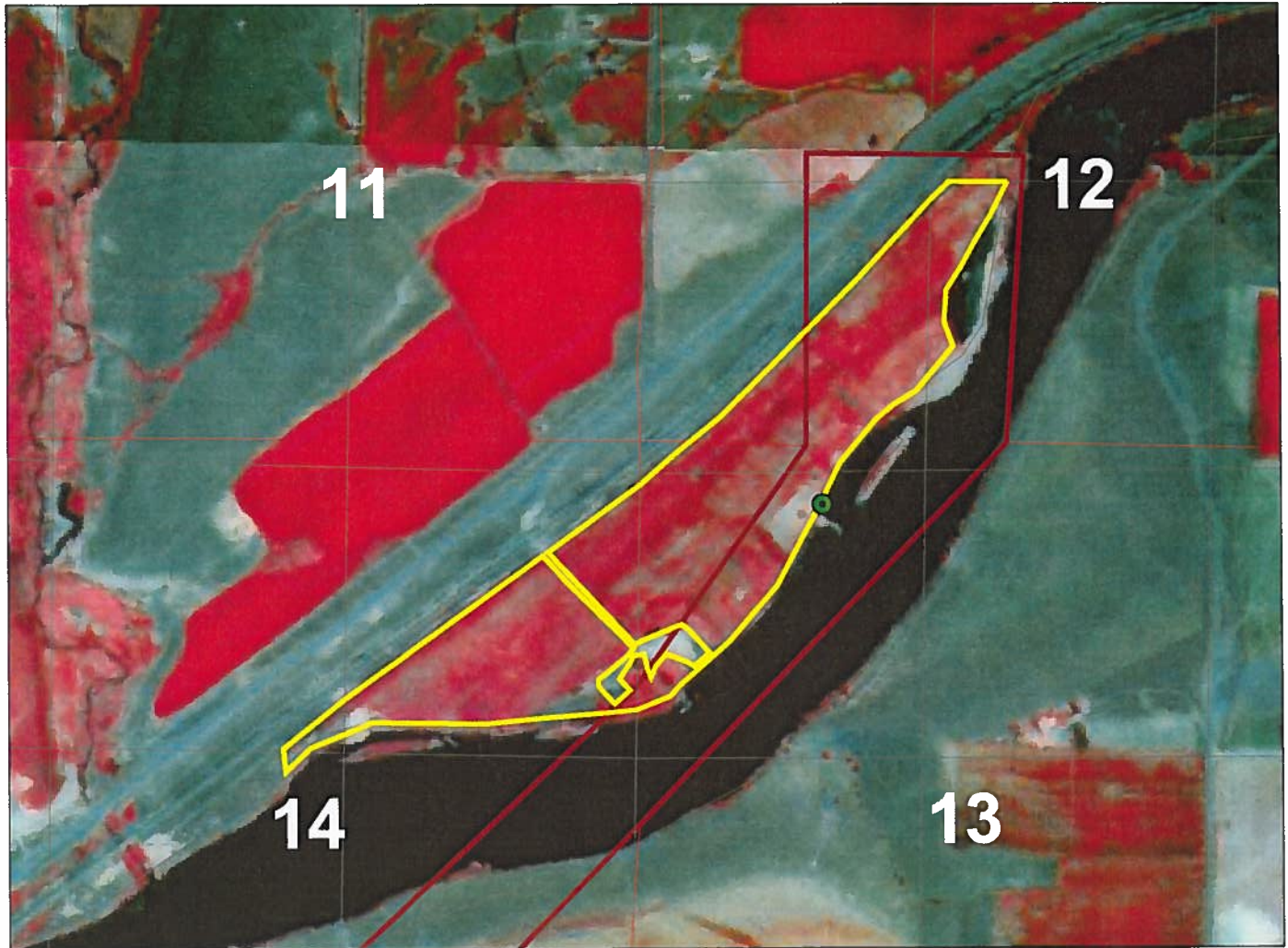


Idaho Department of Water Resources

Place of Use Layout 2-4004

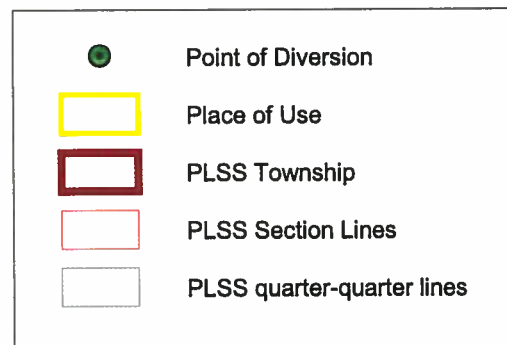


0 0.25 0.5 Miles

Township 5S Range 10E Sections 12, 13, & 14



GIS Place of Use Presentation
1987 NAPP photography.
Map prepared by: Scott King
Date prepared: May 20, 2003



05/20/2003

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

RIGHT NUMBER: 2-4004

NAME AND ADDRESS: HARRY W KNOX II
RIVER RANCH
BOX 16
KING HILL ID 83633

SOURCE: SNAKE RIVER

TRIBUTARY: COLUMBIA RIVER

QUANTITY: 0.980 CFS

PRIORITY DATE: 04/01/1912

POINT OF DIVERSION:

T05S R10E S13 NENWNW Lot 3 Within ELMORE County Source: SNAKE RIVER

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	03/15 11/15	0.980 CFS
STOCKWATER	03/15 12/31	0.020 CFS

PLACE OF USE: IRRIGATION Within ELMORE County

T05S R10E S12 Lot 4 SWSW	16.0	T05S R10E S12 Lot 3 SESW	1.0
T05S R10E S13 Lot 3 NWNW	15.0	T05S R10E S14 Lot 1 NENE	15.0
T05S R10E S14 Lot 2 NWNE	2.0		

STOCKWATER Within ELMORE County

T05S R10E S12 SESW

49 ACRES TOTAL

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: Beneficial Use

2-4004 Notes on Review

S. King
4-20-03

Q = Claimed 3.6 cfs

Measurement @ exam = 1.12 cfs

Recommend $0.02/\text{acre} = \underline{0.98 \text{ cfs}}$

Photo of wheel in vault file dated ~1912

— supports priority ✓

also affidavits

To Divert 3.6 cfs, wheel would need to be approx:

0.5 RPM

16 Buckets

or

100 gal/bucket

200 Gal/Bucket

Photo does not appear to support Q of this magnitude.

POD. from claim map and BOZ OQ "Pasadena Valley"

Use - Stock wasn't included in earlier claims. Included
as claimed.

Acres - GIS and BOZ-OQ agree with 49 acres
'irrigated.

IDWR - WESTERN REGION

CONTRACTOR: Karan Waters

CLAIM/ID: 02-04004 Date: 6-12-02

	TNS	RNG	SEC	NE				NW				SW				SE				Sum
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
Claim	5S	10E	12											04-15	03-10					25
-GIS-														16	3.7					19.7
Claim			13						03-14											14
GIS									15											15
Claim			14	01-23	02-6															29
GIS				20	1															21
Claim																				
GIS																				

Number of POD's 1

Total Claimed Acres: 68

Overlapping FOU Claim #'s:

Total GIS Acres: 55.7

COMMENTS:

per claim map

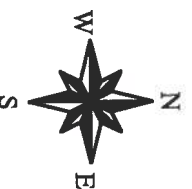
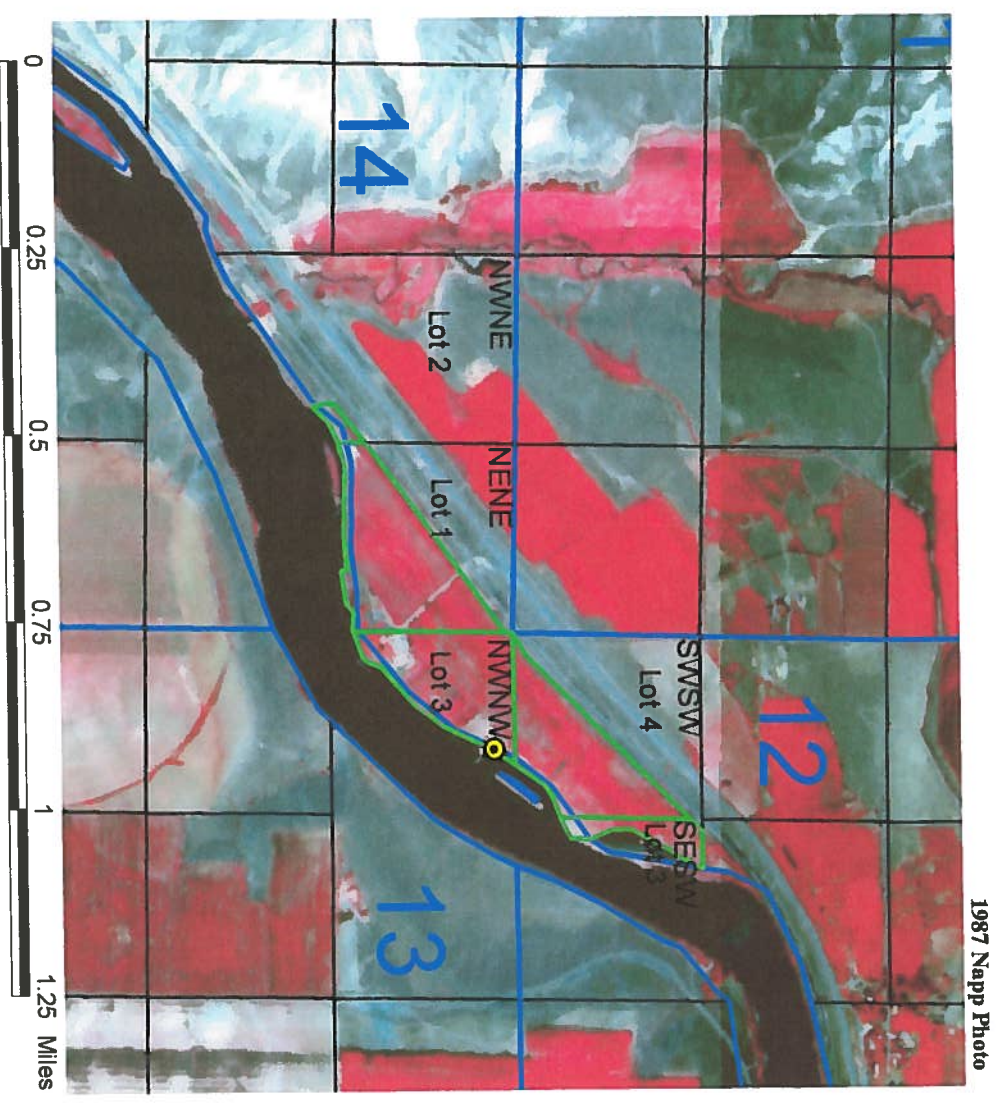
Idaho Department of Water Resources

Claim Number: 02-04004

Legal: T05S, R10E, S12, 13, 14

Reviewed By:

-  Point of Diversion
-  Place of Use
-  Section Lines
-  Quarter Quarter Lines



Idaho Department of Water Resources

Claim Number: 02-04004

Legal: T05S, R10E, S12, 13, 14

Reviewed By:



Point of Diversion



Place of Use

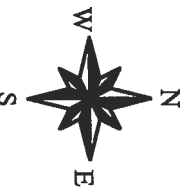
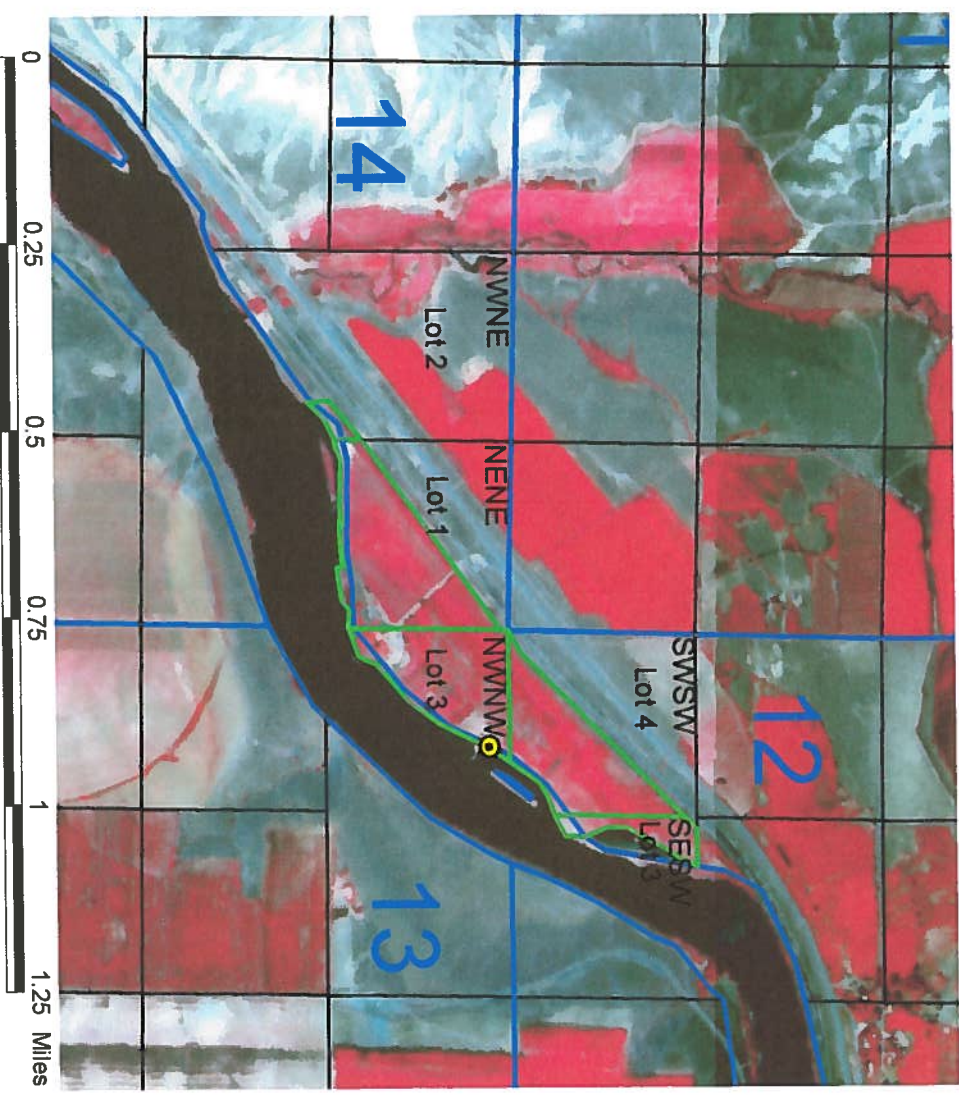


Section Lines



Quarter Quarter Lines

1987 Napp Photo



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: A02-04004
Date Received: 12/06/1989
Receipt No: CO13338
Received By: RAT

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: HARRY W. KNOX II 208-366-7484
Address: RIVER RANCH
BOX 16
KING HILL, ID 83633

2. Date of Priority: APR 01, 1912

3. Source: SNAKE RIVER Trib. to: COLUMBIA RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
05S	10E	13	SW	NE	NW	3	ELMORE

5. Description of diverting works: ^K
~~25~~ 10 HP ELECTRIC MOTOR, MAIN & HAND LINES, POND

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	10/01	3.600		
STOCKWATER	04/01	12/31	0.070		

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

8. Total consumptive use is 238.0 Acre Feet Per Annum.

9. Non-irrigation uses:
STOCKWATER POND USED FOR 75 HEAD CATTLE AND WILDLIFE

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
05S	10E	12	SW	SW	4	IRR	15.0

A02-04004

Page 1

Date: 12/06/89

MICROFILMED
AUG 07 1992

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
05S	10E	12	SE SE	SW SW	3	STOCK IRR	10.0
						Section Acres	25.0
		13	NW	NW	3	IRR	14.0
						Section Acres	14.0
		14	NE NW	NE NE	1 2	IRR IRR	23.0 6.0
						Section Acres	29.0
						Total Acres	68.0

11. Place of use in counties: ELMORE

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

13. Other Water Rights Used:

5 ACRE PORTION ALSO IRRIGATED FROM HOT WELL, 61-07154

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 X 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): X *Larry W. Shox* Date: 12-6-89

Date: _____

State of Idaho)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 6th day
of December 19 89

Helen Harrington
Notary Public

Seal

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

IN THE DISTRICT COURT OF THE Fourth JUDICIAL DISTRICT
OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF Ada

MAY 12 1981

Department of Water Resources
Western Regional Office

IN THE MATTER OF THE GENERAL DETER-
MINATION OF RIGHTS TO THE USE OF
Snake River from base of Milner
Dam to OREGON ~~DRAINAGE BASIN~~
Border.

NOTICE OF CLAIM TO A WATER RIGHT

02-4004
I.D. No.
\$8500
Fee Paid
18925
Map No.
Receipt No.

Notice is hereby given that MARY S. KNOX (Name of Claimant)

DRAWER AE CLENN'S FERRY, IDA.
(Mailing Address)

83623
(Zip Code)

Telephone No. 366-7482

claims a right to the diversion and beneficial use of the surface or ground water. The extent and nature of said claim is as follows:

- (1) Date of priority: (When was the water first applied to a beneficial use, or priority date of decreed, licensed or permit right) APR. 1, 1912
- (2) Describe the source of water: (Name of stream, lake, spring, etc., or ground water) Snake River tributary to COLUMBIA RIVER
- (3) Describe the purpose for which the water has been used and the time during the year when you have used the right claimed:
Quantity 98.272 Use IRRIGATION Period of Use From APR 1 To OCT 31
(CFS, GPD, AF) (Domestic, irrigation, stock, etc.) (Mo., Day) (Mo., Day)
3/15 (Both dates inclusive) 11/15
Quantity _____ Use _____ Period of Use From _____ To _____
(CFS, GPD, AF) (Domestic, irrigation, stock, etc.) (Mo., Day) (Mo., Day)
3/15 (Both dates inclusive) 11/15
Quantity _____ Use _____ Period of Use From _____ To _____
(CFS, GPD, AF) (Domestic, irrigation, stock, etc.) (Mo., Day) (Mo., Day)
3/15 (Both dates inclusive) 11/15
Quantity _____ Use _____ Period of Use From _____ To _____
(CFS, GPD, AF) (Domestic, irrigation, stock, etc.) (Mo., Day) (Mo., Day)
3/15 (Both dates inclusive) 11/15
- (4) 98.272 TOTAL QUANTITY CLAIMED. (CFS, GPD, AF) NE NW (LOT 3)
- (5) A) Point of Diversion: Give location of point where water is diverted from its source NE NW 1/4 (LOT 3)
Sec. 13, Twp. 5 S., Rge. 10 E., B.M., ELMORE County
Additional Points: SCI: 2720(1) 544.7
- B) Describe means of diversion of water: (Pump and pipeline, well, diversion dam, reservoir, length of ditch and field, etc.). Give sizes and capacities: be as specific as possible. Describe any changes in the system and give the date of the change. 25 HP PUMP + HANDLINES CONVERTED FROM GRAVITY IN 1978
SEE REMARKS BELOW:
- (6) A) Describe location of use by listing number of irrigated acres within each 40-acre tract in appropriate box. If use is not for irrigation, place an "X" in appropriate box to show location.

T	R	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
<u>55</u>	<u>NE</u>	<u>12</u>																	<u>25.17</u>
		<u>13</u>																	<u>14.15</u>
		<u>14</u>	<u>51</u>	<u>42</u>															<u>29.17</u>
		<u>15</u>	<u>2</u>																

Total no. of acres 68.49

B) If water is used for other than irrigation, fully describe that use, being as specific as possible:

NOTE: Include here the type and number of stock watered:

- (7) If you are claiming water as a member of an organization, list name of organization:
- (8) Remarks JUSTIFICATION FOR EXCESSIVE FLOW PER SCS LETTER DATED 3-7-81 AND FACT SHEET ATTACHED
- (9) Basis of claim (Check one) ☒ A) Right based on diversion and beneficial use.
☐ B) Right decreed by court, cite title of case.
- ☒ C) Right based on application, permit, license, or previous statutory claim filed with the Idaho

RECEIVED

NOV 1954
DEC 1954

CONSERVATION PLAN MAP

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

02-4004

Owner Mary Jensen (Knox)

Operator

County Elmore

State Idaho

Date 4-80

Approximate acres 120

Approximate scale

Cooperating with Elmore Soil Conservation District

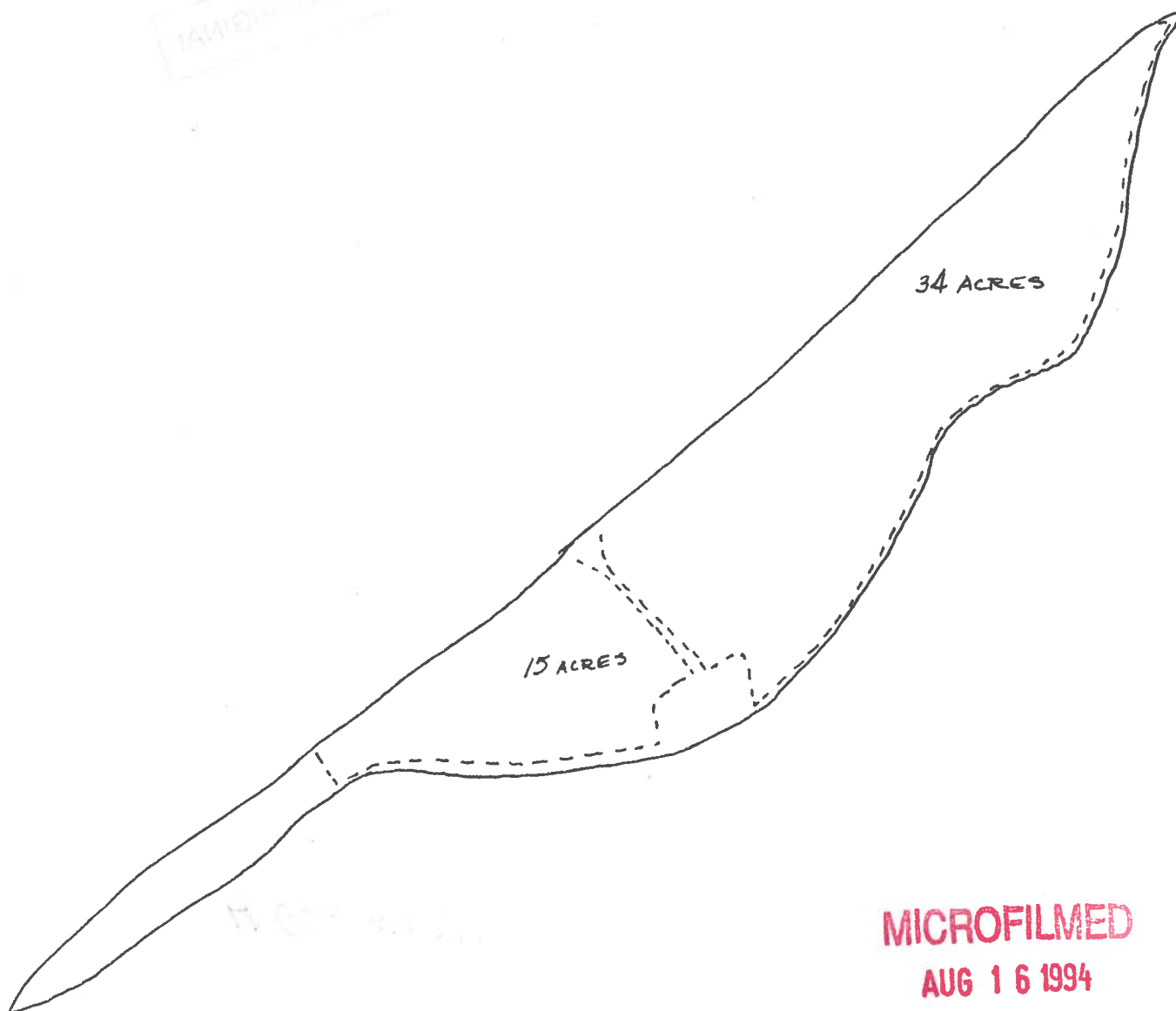
Conservation District

Plan identification

Photo number 377-148

Assisted by

USDA Soil Conservation Service



MICROFILMED
AUG 16 1994

State of Idaho
Department of Water Resources

ADJUDICATION CLAIM ANALYSIS SHEET

Review by D. SHAFF

Date 11/02/82

Right No. 02-4004

Claimant KNOX

Recommendation differs from claim:
(Document any differences) ☒ Yes ☐ No ☐ Disallow

Claim Details Verified Against:

Check (X or ✓) those searched. Circle records used for recommendation.
Include copies or memos where applicable to explain findings.

- ☐ License
- ☒ Previous Statutory Claim. AFFIDAVITS IN FILE (S.O.)
- ☐ Permits, valid or lapsed. Number(s) if different than above _____
- ☐ Decree. Name & date _____
- ☐ Conveyance Loss Calculations. See printout included.
- ☐ Title abstract. ☐ In file. Or, Name & location _____
- ☐ County records. ☐ In file. Or, Name & location _____
- ☐ Affidavits. ☐ In file.
- ☐ Posted Notices, Water Locations Notices. ☐ In file.
- ☐ Deed Records. ☐ In file. Or, Name & location _____
- ☐ Patent Records. ☐ In file. Or, Name & location _____
- _____
- ☐ Metzker Maps. Identify _____
- ☐ A.S.C.S. Records. Year & Photograph No. _____
- ☐ Irrigation Company/District Records. ☐ In file. Or Name & location _____
- ☐ Historical Books. Name(s) & location _____
- _____
- ☐ Interview(s). Attach conversation memorandum.
- ☒ Other EXCESSIVE FLOW SHEET & SCS LETTER 5/07/81
- ☒ IRRIGATION REQUIREMENT ANALYSIS 8/03/82
- Field Exam Made: ☒ Yes ☐ No Date 9/02/81
- ☒ Adj. Report in file ☐ Beneficial Use Report in License (S.O.) File

MEMO

TO: File No. 02-4004
FROM: Don Shaff *DS*
SUBJECT: Review Analysis
DATE: 11/02/82

This Claim was recommended at .02 cfs (1 inch per acre) based on the irrigation requirement analysis made by Verl King. His memo is dated August 3, 1982. King's calculations allowed a 56.5 per cent efficiency when .02 cfs per acre was used. In Table IX-D, page 32 of the Irrigation Guide, a 60 per cent efficiency is attainable where more than two linear inches of water are applied per irrigation and the wind speed is 10 to 15 miles per hour. In Table IX-C on page 31 of the Irrigation Guide a 55 per cent design efficiency is recommended where the slope range is three to eight per cent using furrow and corrugates. Each of these methods are ^{en}being currently ~~being~~ used or ^{has} ~~is~~ being used recently in the past. In both cases the efficiencies ^{was} ~~are~~ are nearly the same or greater than that which King's analysis allow.

Playing with the numbers King used in his analysis results in an even lower irrigation requirement. The maximum irrigation use between irrigations in King's analysis is 60 per cent of the available water holding capacity of ^{4.8 inches (linear)} ~~four point~~ ^{2.88 inches (linear)} ~~eight inches~~ equaling ~~two point eight eight inches~~. On page 11 of the Irrigation Guide a 50 per cent figure is stated as a normal irrigation application for alfalfa. Increasing the irrigation frequencies to seven days results in a irrigation requirement of .012 cfs per acre giving a 60 per cent efficiency.

The .02 cfs per acre is the most liberal of the irrigation requirements found in this review analysis.

MICROFILMED
AUG 16 1994

D. SHAFF

11/02/82

TRY 90%
 $.9(2.88) = 2.59$

9(.31)	2.79	.09	2.59	2.68
9(.27)	2.43	.25	2.59	2.84

80%
 $.8(2.88) = 2.30$

9(.31)	2.79	.09	2.30	2.39
9(.27)	2.43	Too Much		

85%
 $.85(2.88) = 2.44$

9(.31)	2.79	.09	2.44	2.53
9(.27)	2.43	.10	2.44	2.54 ok

~~85~~ %

7(.31)	2.17	.71	2.44	2.88
7(.27)	1.89	1.26	2.44	3.15
				3.70

70%

7(.31)	2.17	2.02 .71	2.02	2.88
7(.27)	2.43	.30	2.02	2.73
				2.32

$2.02 / 7 \text{ days} = .2886''/\text{DAY}$
 $\frac{2.886}{7} = .4120$

MICROFILMED
 AUG 16 1994



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

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

August 3, 1982

MEMO

TO: Dave Shaw

FROM: Verl G. King

SUBJECT: MARY JENSON KNOX -
Claim to a Water Right - #02-4004

An analysis has been made of the Mary Knox claim #02-4004. The analysis was based on growing alfalfa, the highest water requirement crop grown on these soils. It was determined that water in excess of 1.0 miners inch per acre is not required to grow alfalfa or other crops common to these soil conditions.

A copy of the analysis is attached.

VGK:mb

A handwritten signature in dark ink, appearing to read "V. G. King", is written over the typed name.

MICROFILMED
AUG 16 1994

MARY JENSON (KNOX)

CLAIM (#02-4004)

7/27/82

I DATA:

28

CROP = ALF. & PASTURE

SOILS = MOST RESTRICTIVE, MARSING (M₃) - LOAM.

AWNC = 4.8"

C.U. = 8.19" IN JULY (ALF.) - SCS IRR GUIDE

CLIMATIC AREA I.

II CALCULATIONS:

AVE. PEAK MONTHLY C.U. = $\frac{8.2}{31} = 0.2645"/\text{DAY}$

MAX. IRR. USE BETWEEN IRR = 60% (4.8) = 2.88"

PK. PERIOD C.U. (T.R. 21, TABLE 5) = 0.31"/DAY

IRR. FREQ. = $\frac{2.88}{0.31} = 9.29$ DAYS, USE 9 DAYS

TRY REPLACING 70% = .7(2.88") = 2.02"

	USED	AVAIL. REMAINING	REPL	BAL.
				2.88"
1. 9(.31)	2.79	0.09	2.02	2.11
2. 9(.27)	2.43	TO MUCH		

TRY REPLACING 80% = .85(2.88) = 2.44

1. 9(.31)	2.79	0.09	2.44	2.53
2. 9(.27)	2.43	0.10	2.44	2.57
9(.23)	2.07	.47	2.44	2.91

CROP NEED IS 2.44"/9 DAYS = 0.2711"/DAY

THEN $\frac{0.2711}{24} = 0.0113$ CFS/AC.

= 0.565 M-I/AC.

MICROFILMED

AUG 16 1994

1.0 M-I/AC ALLOWS FOR A 56.5% EFF. (ADEQUATE FOR SURFACE SHOULD ATTAIN 70% UNDER SCS

DBS



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

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

May 24, 1982

MEMO

TO: Dave Shaw

FROM: Verl G. King *VGK*

SUBJECT: STUDY REQUEST DATED 5/12/82 TO WAYNE HAAS

Additional information is needed on the land served by the three claimants involved in the above referenced study request. The additional information needed is:

1. Field layouts.
2. Field slopes.
3. Type of irrigation used.
4. Soils data for each field including:
 - Soil type and textures of soil profile.
 - Water holding capacity of textures within the soil profile.
 - Intake family of each soil type.
5. Typical crops grown for a season and the acreage of each.

It is expected that information can be obtained from the USDA - Soil Conservation Service office in Mountain Home if you don't have this information on hand.

VGK:mb

RECEIVED

MAY 25 1982

MICROFILMED

AUG 16 1994

Department of Water Resources
Western Regional Office

STUDY/PROJECT REQUEST

TO: W. HaasFROM: D. Shaff *DS*Date Initiated 5/12/82THROUGH: D. ShawRequested Completion date 8/01/82TITLE: Determination of irrigation requirement on selected lands along
Snake RiverPROBLEM AND/OR PURPOSE: Three claimants in the Snake River Adjudication have
made water right filings for a diversion rate greater than .02 cfs/acre. One
claim is based on a license issued for .04 cfs/acre.SCOPE (level or extent of detail): Preparer must be prepared to defend study
findings in a possible Department and/or court hearing.

DESCRIPTIONS OF WORK REQUESTED:

1. Study copies of water right claims attached analyzing diversion works and
place of use.
2. Analyze soil maps, crop requirements, and other appropriate data.
3. Calculate irrigation requirement at the diversion point for each of the
projects.

Additional staff input and information from the adjudication files is available
on request.REQUEST ORIGINATOR: Adjudication UnitTYPE OF REPORT: Memorandum with calculationsDISPLAY TABLES: YES ☐ NO ☒ANTICIPATED MAN-DAY EFFORT: 5

APPROVED BY: _____

ASSIGNED TO: _____

DATE: _____

ACTUAL MAN-DAYS: _____

MICROFILMED

AUG 16 1994

Ident. No. _____

FACT SHEET
for
Excessive Irrigation Flows

This information is to be submitted with any application for permit for which the irrigation rate of flow requested is more than .02 cfs per acre. One exception is that .03 cfs per acre is allowed for up to five (5) acres.

Soil Symbol	Mg	Ga	Ty
Soil type and soil profile:	Marsing	Garbutt	Turby Fill
Soil water holding capacity:	4.8	9.3	9.5
Soil intake family (if known):	2.0	0.3	1.5
Field slope:	1-12 ~~1-3%~~	0-1%	0-1%
Anticipated crops:	Pasture, Hay		
Method of irrigation:	Irrigation triaks ran on		
Remarks	similar soils in the Hammett area in 1980 showed irrigation efficiencies under surface irrigation to be 10-20%.		

RECEIVED

NOV 19 1981

Department of Water Resources
Western Regional Office

MICROFILMED

AUG 16 1994

POOR ORIGINAL

SCS CONS 16
OCTOBER 1974

CONSERVATION PLAN MAP

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Owner Mary Jensen (Knox) Operator _____
County Elmore State Idaho Date 4-80
Approximate acres 120 Approximate scale _____
Cooperating with Elmore Soil Conservation District Conservation District _____
Plan identification _____ Photo number 377-148
Assisted by _____ USDA Soil Conservation Service





State of Idaho

DEPARTMENT OF WATER RESOURCES

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

JOHN V. EVANS
Governor

(Office at the corner of
Franklin and Cole Roads)

C. STEPHEN ALLRED
Director

(208) 334-2190

October 20, 1981

Gene Crisman
District Conservationist
Soil Conservation Service
282 South Third West
Mountain Home, Idaho 83647

Dept of Water Resources

Re: 02-4004

Dear Mr. Crisman:

On May 7, 1981, you wrote a letter to Mary Knox, assisting her to justify a water right for two miners inches per acre on her farm near King Hill. Would you mind expanding and clarifying some points raised in the justification? In the process of the adjudication an objection could be raised to the irrigation efficiencies cited in your letter.

Mrs. Knox submitted a claim to water right in the Snake River adjudication for an amount of water equivalent to two miners inches per acre. Submitted with that claim was a fact sheet justifying a rate of flow in excess of one miners inch per acre. A copy of this fact sheet is inclosed to fill in some of the missing information, would you please complete the blank fact sheet that is also enclosed?

If you would, please take a look at this farm operation from the crop irrigation requirement point-of-view and the various irrigation systems that might meet that requirement. This information will allow a thorough analysis of the Knox farm operation.

cont.

RECEIVED

NOV 19 1981

MICROFILMED

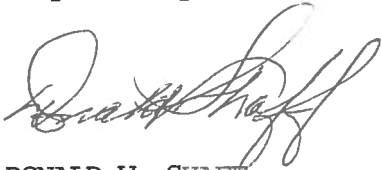
AUG 16 1994

Department of Water Resources
Western Regional Office

page 2
Gene Crisman

Supplied with the details requested above, the Department will be better prepared to determine the water right developed on the Knox farm in the years past. Thank you for your assistance and cooperation in this effort.

Respectfully,

A handwritten signature in dark ink, appearing to read "Donald V. Shaff", written in a cursive style.

DONALD V. SHAFF
Adjudication Section Supervisor

DBS:jp

Enc:

MICROFILMED
AUG 16 1994

M E M O R A N D U M

TO: File 02-4004

FROM: Don Shaff

SUBJECT: Conversation with Harry Knox

On 9/02/1981 Mr. Knox joined me on the field inspection after I had made the water measurement. His primary purpose was to indicate the permeability of the soils on this farm. He showed me the two old water wheel sites and said a large picture of one of the water wheels is located within Mary Knox's house on the farm. He said Frank Jones, a nearby neighbor, knows of the poor efficiency of the former gravity system. Mr. Knox changed the system from simply ditches to gated pipe, and then in about 1978 to the current sprinkler system. He said despite the thinking of agricultural technicians he is unable to shut the system down for any period, but he must keep it running 24 hours a day because of the black lava sand, gravel and rocks that are present. Although he presently has a more water efficient irrigation system with the sprinklers, he wants to keep a water right with a diversion rate for the less efficient gravity system (not less than 2 inches per acre) in the event economics dictates that he changes back to a water wheel and gated pipe or ditch system.



From the desk of

DONALD VANCE SHAFF

9/29/81

For Mary Knox claim

42-201

Evidence of Amt. Diverted

(Reno v. Richards) (1918)

32 Idaho 1, 178 p. 81.

MICROFILMED

AUG 16 1994

2:00 PM
9/02/01
ALONE

REPORT OF EXAMINERS - ADJUDICATION DIVISION

Claim No. 02-4004

1. Name of Applicant.....KNOX.....

2. Priority.....

3. Source of Water.....SNAKE RIVER.....

4. (Quan.) (Dom., Irr., Stk. water, etc.) (Period of Use)

..... cfs Use IRRIGATION From 3/15 To 11/15

..... cfs Use From..... To.....

..... cfs Use From..... To.....

5. Location of Point of Diversion: LOT 3 (NWNW) of Section 13

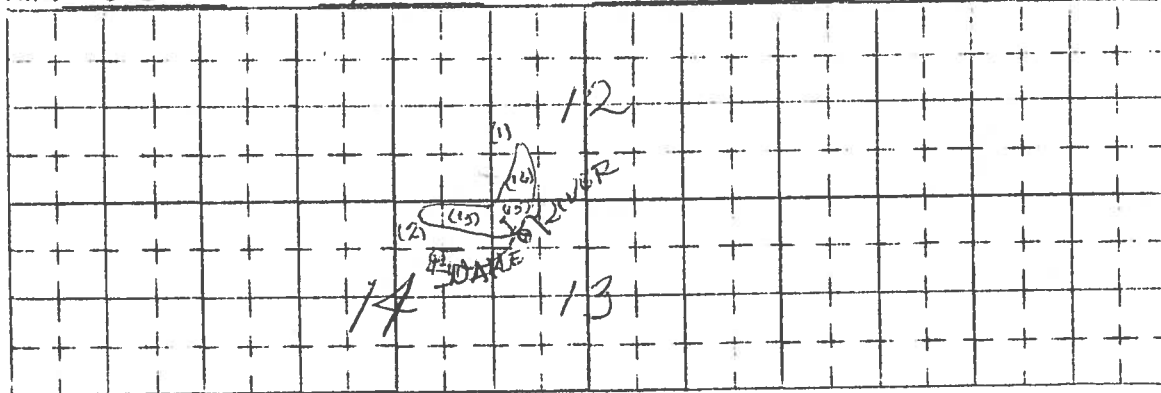
Twp. 5S, Rge. 10E, County of ELMORE

6. Describe Diversion Works: 25HP VORTEX MOTOR..... JANUZZI PUMP..... 25644-T
NOL PN 246TT DR 7323CB W FI
SN 847-2, 8" MAINLINE, 11.9" WEATHERFEC 10-304 9/4" NOZZLE SPRINGER HEADS

7. Describe Location of Use:

TWP.	RGE.	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
5S	10E	12											2.4	2.3					17
		13						1.3					16	1					15
		14	2.1	2.2															17
		15	2																

TWP. 5S RGE. 10E COUNTY ELMORE SCALE: 1" = 1 MILE



8. Purpose Other Than Irrigation: NONE.....

9. Remarks: DIVERSION RATE CALC. ON REVERSE. CAWN AREA

NOZZLE PRESSURE
FROM 3rd LINES

74
62
66
50
50
48
50
72
58
58
46
46
46

55 PSI THRU $\frac{9}{16}$ " NOZZLE = 4.22 GPM

$$119 \text{ HEADS} \times 4.22 = 1.12 \text{ CFS}$$

MICROFILMED

AUG 16 1994

$$726 \div 55 \underline{13}$$

1. describes location of net:

© 1994 by The McGraw-Hill Companies, Inc.

3-20106 OF 1956L

8. 64,000,000

1. NEWS OF THE WORLD

019100 1405

Ident. No. 012-4004

FACT SHEET
for
Excessive Irrigation Flows

This information is to be submitted with any application for permit for which the irrigation rate of flow requested is more than .02 cfs per acre. One exception is that .03 cfs per acre is allowed for up to five (5) acres.

Soil type and soil profile: Marsing, Garbutt, Turbyfill

Soil water holding capacity: See SCS Letter dated 5-4-81

Soil intake family (if known): " "

Field slope: " "

Anticipated crops: Pasture, Hay

Method of irrigation: Presently sprinkler irrigated

Remarks The farm ground is basically on a gravel bar and it's best use is pasture.

Because of the cost of power it is anticipated that there is sufficient salvage in the present system to justify conversion to a gravity system using gated pipe. The present system was developed to be used during a period of time sufficient to clear the large

floaters rocks from the fields. The original claim of 3.6 cfs should be amended to 2.72 cfs to support the future conversion back to gravity.

RECEIVED

MAY 12 1981

MICROFILMED

AUG 16 1984

Department of Water Resources
Western Regional Office

Mary S. Knox

IDAHO STATE BANK

DRAWER AE, GLENN'S FERRY, IDAHO 83623, (208) 366-7492

May 11, 1981

Donald V. Shaff, Adjudication Supervisor
State of Idaho
Department of Water Resources
92 South Cole Road
Boise, Idaho 83709

Dear Mr. Shaff:

Enclosed please find the Notice of Claim to a Water Right, letter from the Elmore County Soil Conservation Service and my check in the amount of \$85.00 for filing which was inadvertently omitted in Harry's letter of April 28, 1981.

The original water was conveyed by means of a water wheel between 1871 and 1899. Then pipe was added to convey the water to the various fields. The 1912 claim and subsequent 1968 filing were for 3.6 cfs. As I understand Harry, we must file for 2.72 cfs to support our anticipated conversion to gated pipe. At the rate we are proceeding on clearing the rock, it will take a few years to complete, however, Harry has many of them in rows with the use of a cat.

Please contact either Harry or me should anything further be necessary. I trust this will find you in the midst of a fine day.

Sincerely,

Mary S. Knox

Mary S. Knox

Enclosures
MSK:dm

RECEIVED
MAY 12 1981

Department of Water Resources
Western Regional Office

MICROFILMED
AUG 16 1984

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

282 S. 3rd W., Mtn. Home, ID 83647

SUBJECT:

DATE: May 7, 1981

TO: Mary Knox
Idaho State Bank
Glenns Ferry, Idaho 83623

A check was made on your request for justification for a water right of 2 miners inches per acre on your farm.

The soils on the ranch are Marsing, Garbutt and Turbyfill loams to fine sandy loams. Because of the floater rocks, crop production is pretty well limited to pasture.

Pasture has a net water requirement of 26 acre inches based on a growing season from March 15 to October 31. You stated you would need to irrigate from April 1 to October 15 for a total of 198 days.

Based on a seasonal water requirement, 2 miners inches per day would give you an irrigation efficiency of 13%. If we take the peak months of July and August, pasture needs are 6.78 and 5.60 acre inches respectively. 2 miners inches per acre flow would then give an irrigation efficiency of 23% in July and 18% in August with the balance of the year considerably less efficient if water were run continuously at this rate. While 20% is not a good efficiency it is certainly within the range we have observed when making surface irrigation efficiency trials on these type soils.

If you were to convert back to surface irrigation on this place 2 miners inches per acre flow in July and August would probably be needed for peak pasture production.



Gene Crisman
District Conservationist
Mtn. Home, Idaho

RECEIVED

MAY 12 1981

Department of Water Resources
Western Regional Office

MICROFILMED

AUG 16 1994



Ident. No. 02-4004

FACT SHEET
for
Excessive Irrigation Flows

This information is to be submitted with any application for permit for which the irrigation rate of flow requested is more than .02 cfs per acre. One exception is that .03 cfs per acre is allowed for up to five (5) acres.

Soil type and soil profile: Marsing, Garbutt, Turbyfill

Soil water holding capacity: See SCS Letter dated 5-4-81

Soil intake family (if known): " "

Field slope: " "

Anticipated crops: Pasture, Hay

Method of irrigation: Presently sprinkler irrigated

Remarks The farm ground is basically on a gravel bar and it's best use is pasture.

Because of the cost of power it is anticipated that there is sufficient salvage in the
present system to justify conversion to a gravity system using gated pipe. The present
system was developed to be used during a period of time sufficient to clear the large

floater rocks from the fields. The original claim of 3.6 cfs should be amended to 2.72 cfs
to support the future conversion back to gravity.

RECEIVED

MAY 12 1981

MICROFILMED

AUG 16 1994

Department of Water Resources
Western Regional Office

IN THE DISTRICT COURT OF THE Fourth

JUDICIAL DISTRICT

MAY 12 1981

OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF Ada

IN THE MATTER OF THE GENERAL DETER-
MINATION OF RIGHTS TO THE USE OF
Snake River from base of Milner
Dam to OREGON DRAINAGE BASIN
Border.

NOTICE OF CLAIM TO A WATER RIGHT

Department of Water Resources 02-4004 Western Regional Office	
I.D. No.	Map No.
\$ <u>8500</u>	<u>18925</u>
Fee Paid	Receipt No.

Notice is hereby given that

MARY S. KNOX

(Name of Claimant)

DRAWER AE GLENNS FERRY, IDA.

(Mailing Address)

83623

(Zip Code)

Telephone No. 366-7492

claims a right to the diversion and beneficial use of the surface or ground water. The extent and nature of said claim is as follows:

(1) Date of priority: (When was the water first applied to a beneficial use, or priority date of decreed, licensed or permit right) APR. 1, 1912(2) Describe the source of water: (Name of stream, lake, spring, etc., or ground water) Snake River tributary to Columbia River(3) Describe the purpose for which the water has been used and the time during the year when you have used the right claimed:
Quantity 2.72 Use IRRIGATION Period of Use From APR 1 To OCT 31
(CFS, GPD, AF) (Domestic, irrigation, stock, etc.) (Mo., Day) (Mo., Day)
(Both dates inclusive)Quantity _____ Use _____ Period of Use From _____ To _____
(CFS, GPD, AF) (Domestic, irrigation, stock, etc.) (Mo., Day) (Mo., Day)
(Both dates inclusive)Quantity _____ Use _____ Period of Use From _____ To _____
(CFS, GPD, AF) (Domestic, irrigation, stock, etc.) (Mo., Day) (Mo., Day)
(Both dates inclusive)Quantity _____ Use _____ Period of Use From _____ To _____
(CFS, GPD, AF) (Domestic, irrigation, stock, etc.) (Mo., Day) (Mo., Day)
(Both dates inclusive)(4) 2.72 TOTAL QUANTITY CLAIMED.
(CFS, GPD, AF)(5) A) Point of Diversion: Give location of point where water is diverted from its source NE 1/4 NE 1/4
Sec. 13, Twp. 5 S., Rge. 10 E., B.M., ELMORE County
Additional Points: _____B) Describe means of diversion of water: (Pump and pipeline, well, diversion dam, reservoir, length of ditch and field, etc.). Give sizes and capacities: be as specific as possible. Describe any changes in the system and give the date of the change. 25 HP PUMP + HANDLINES CONVERTED FROM GRAVITY IN 1978
SEE REMARKS BELOW:

(6) A) Describe location of use by listing number of irrigated acres within each 40-acre tract in appropriate box. If use is not for irrigation, place an "X" in appropriate box to show location.

T	R	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
<u>55</u>	<u>NE</u>	<u>12</u>											<u>25</u>	<u>10</u>					<u>25</u>
		<u>13</u>						<u>14</u>											<u>14</u>
		<u>14</u>	<u>25</u>	<u>25</u>	<u>25</u>														<u>29</u>

Total no. of acres 68

B) If water is used for other than irrigation, fully describe that use, being as specific as possible: _____

NOTE: Include here the type and number of stock watered: _____

(7) If you are claiming water as a member of an organization, list name of organization: _____

(8) Remarks JUSTIFICATION FOR EXCESSIVE FLOW PER SCS LETTER DATED 5-7-81 AND FACT SHEET ATTACHED(9) Basis of claim (Check one) ☐ A) Right based on diversion and beneficial use.☐ B) Right decreed by court, cite title of case. _____☐ C) Right based on application, permit, license, or previous statutory claim filed with the Idaho Department of Water Resources. Give No. 02-4004



D

208/366-7492

April 28, 1981

State of Idaho
Department of Water Resources
92 South Cole Road
Boise, Idaho 83709

Re: Mary S. Knox

ATTENTION: Donald V. Shaff
Adjudication Supervisor

Gentlemen:

Per our phone conversation previously, I have contacted the Soil Conservation Service regarding the information they were to have provided for the fact sheet on excessive irrigation flows. They are in the process of documenting the data and should have it to me within a week. They have been in the field a great deal this spring and were not aware of the urgency of my request.

I should surely have the claim form and other pertinent data to you within two weeks. I apologize for the delay and hope the information is complete. Enclosed please find a check for the filing fee.

*No check rec'd.
mm*

May this find you in the midst of a fine day.

Sincerely,

Harry W. Knox, II
Vice Chairman

HWK/es

MICROFILMED

AUG 16 1994

RECEIVED

APR 29 1981

Department of Water Resources
Western Regional Office

3/03/81 Glenns Ferry

TO: 02-4004

FROM: D. Shaff

SUBJECT: Conversation with Harry Knox

- Priority Date
- Amount of Water
- Transfer of Water

Mr. Knox, Mary Knox's son, said a water wheel was first used in 1871. However, he said substantiating the earlier date would be difficult, and the 1912 date would be satisfactory as he sees the situation now.

The most discussion centered on the amount of water connected with the 1912 priority date. Mr. Knox was advised the Department would question a diversion rate of 3.6 cfs for 68 acres (2.6+ inches/acre). He was asked to supply information to support the excessive flow. He questioned why the Department "would take away" part of the water right anyway.

Three years ago the conveyance system for this parcel was changed from a gravity system to a pump and sprinkler line system.

Mr. Knox is now interested in moving the present extra diversion rate to a new Point of Diversion and Place of Use. He was advised the Department would scrutinize this transfer in light of the original excess flow diversion. There was no conversation about consumptive use of water and related expansion with a transfer.

Supplied with this over abundance of information and possible implications, Mr. Knox decided to huddle with his associates and representatives.

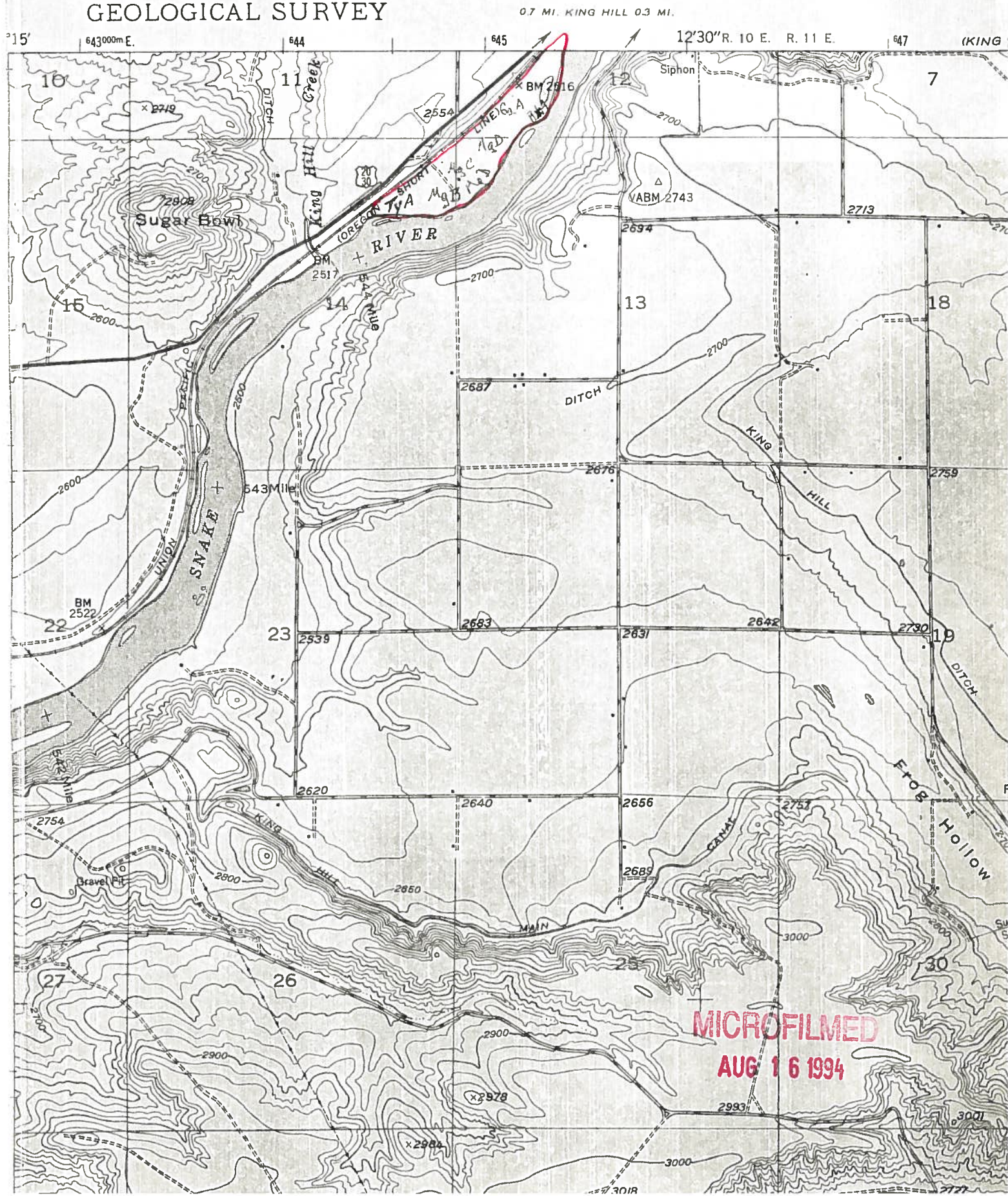
DVS:aje

MICROFILMED
AUG 16 1994

POOR ORIGINAL

SOILS SYMBOLS OBTAINED
2/01/81 AT SCS, MTN HOME

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Mary S. Knox

IDAHO STATE BANK

DRAWER AE, GLENNS FERRY, IDAHO 83623, (208) 366-7492

February 19, 1981

0 may way
2/26/81 JKN
Presumably
Telephone
Conversation
JKN/ajw

Idaho Department of Water Resources
Western Region Office
92 South Cole Road
Boise, Idaho 83709

Gentlemen:

In regard to your Certified letter concerning Snake River Water Users, I am enclosing a copy of a letter from the Department of Reclamation dated December 9, 1968, and a receipt No. 2208 for \$10.00. The letter states information in my claim is filed under Claim No. 02-4004.

I would assume that this means that I have an approved Water Right, and that I do not need to respond to the summons. Will you please let me know if this is correct.

Thank you very much.

Sincerely,

Mary S. Knox
Mary S. Knox

MEK:dm
Enclosures

RECEIVED
FEB 19 1981

Department of Water Resources
Western Regional Office

MICROFILMED
AUG 16 1984

DON SAMUELSON
GOVERNOR



R. KEITH HIGGINSON
State Reclamation Engineer

STATE OF IDAHO

DEPARTMENT OF RECLAMATION
STATEHOUSE - ANNEX 2
BOISE, IDAHO 83707

December 9, 1968

Re: Claim No. 02-4004

Mrs. Mary Knox
Idaho State Bank
Glenns Ferry, Idaho 83623

Dear Mrs. Knox:

Please be advised that the department has received and processed your claim to a water right. The information in your claim is filed under Claim No. 02-4004. Please refer to this number when adding or changing the information in your claim.

Enclosed is receipt No. 2208 in the amount of \$10.00 to cover the filing fee for the claim.

No further action is pending on your claim. If you are in need of any of the information in your claim it will be on file with the department and is now of public record.

Please contact us if we may be of further assistance.

Very truly yours,

A handwritten signature in cursive script that reads "Donald W. McEldowney".

Donald W. McEldowney
Appropriation Examiner

DWM:ks

enclosure: Receipt No. 2208

MICROFILMED
AUG 16 1994

Department of Reclamation

No. 2208

Boise, Idaho, Oct 17, 1968RECEIVED
FROMIdaho Land & Appraisal \$ 10⁰⁰
Ten & no/100 DOLLARS

FOR

<u>application</u>	\$	<u>10 00</u>
<u>for permit</u>	\$	
	\$	
	\$	
	\$	
TOTAL - - -	\$	<u>10 00</u>

Mary KnafE. J. C. C. C.
STATE RECLAMATION DEPARTMENTMICROFILMED
AUG 16 1994

CLAIMED 4/01/1912 3.6 cfs 10/14/68

10 HP MOTOR & PUMP REPLACED WATERWHEEL

AFF. GLENN E. MILLS, 56, 10/01/68

IRR > 56 yrs 180 in.

WTRWHL 1060' S. & 200' E OF SEC. CORNER 11, 12, 13, 14

PUMP 860' E & 130' S " "

AFF. FRANK LAMB, 30 10/01/68

IRR > 30 yrs 180 in.

AFF ESTER HUECHCRAFT 10/01/68

IRR > 30 yrs 180 in.

PHOTO (COPY) OF ~~THE~~ WTRWHL IN FILE

Irrigation Guide

Net Moisture to be Replaced
w/ each Irrigation (inches) 2.9

Peak Period Consumptive Use
(in/day) 0.25

Irrigation Freq., Peak (days) 11⁵

Est. Field Eff. 70%

Est Time Required (~~days~~) 14

$$\frac{2.9''}{12 \text{ Hrs}} \times 1,000 = .24 \text{ cfs/acre}$$

$$.24 \text{ cfs} \times 7 \text{ Ac} = 1.7052 \text{ cfs}$$

Moving handlines .1/12 Hrs
Complete rotation in 7 days

$$119 \text{ HEADS} \times 35 \text{ FT/HEAD} \times 70 \text{ FT DIA} / 43560 \text{ FT}^2/\text{ACRE} = 6.7 \text{ ACRES}$$

8.22''/Ac July

MICROFILMED

AUG 16 1994

Irrigation Guide

Net Moisture to be Replaced
w/ each Irrigation (inches) 2.9

Peak Period Consumptive Use
(in/day) 0.25

Irrigation Freq, Peak (days) 11⁵

Est. Field Eff. 70%

Est Time Required (~~hrs~~) 14

$$\frac{2.9''}{12 \text{ Hrs}} \times 1,000 = .24 \text{ cfs/acre}$$

$$.24 \text{ cfs} \times 7 \text{ Ac} = 1.7052 \text{ cfs}$$

Moving handlines .1/12 Hrs
Complete rotation in 7 days

$$119 \text{ HEADS} \times 35 \text{ FT/HEAD} \times 70 \text{ FT DIA} / 43560 \text{ FT}^2/\text{ACRE} = 6.7 \text{ ACRES}$$

8th / Ac July

MICROFILMED

AUG 16 1994