

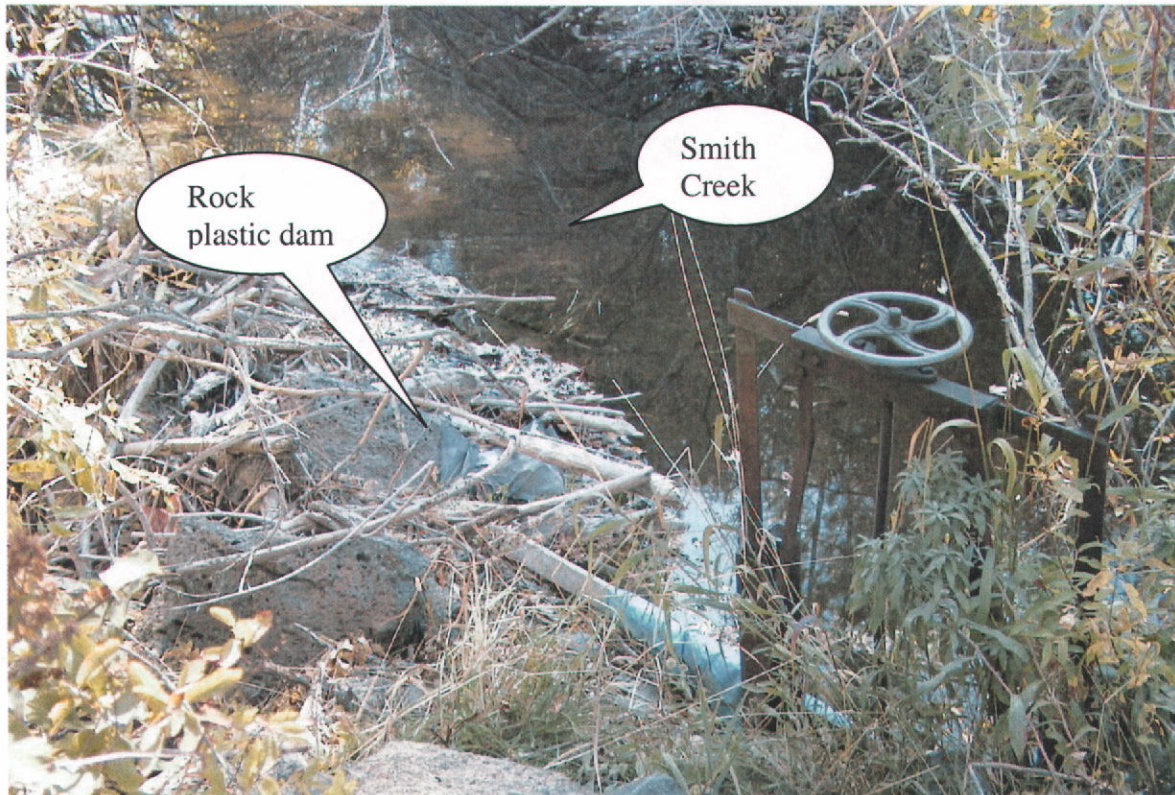


Photo 1. FX Oct. 4, 2001. Photos by RDH. 63-101, 102 & 103: POD screw head gate. T02N, R07E, S14, SENESE.



Photo 2. POU at beginning of field located in T02N, R07E, S14, NESE. View to West.

Idaho Department of Water Resources

T02N R07E
S14

Claims: 63-101-102-103
Updated: 15 Nov 01
by: Ron Howerton

 Place of use

 POD

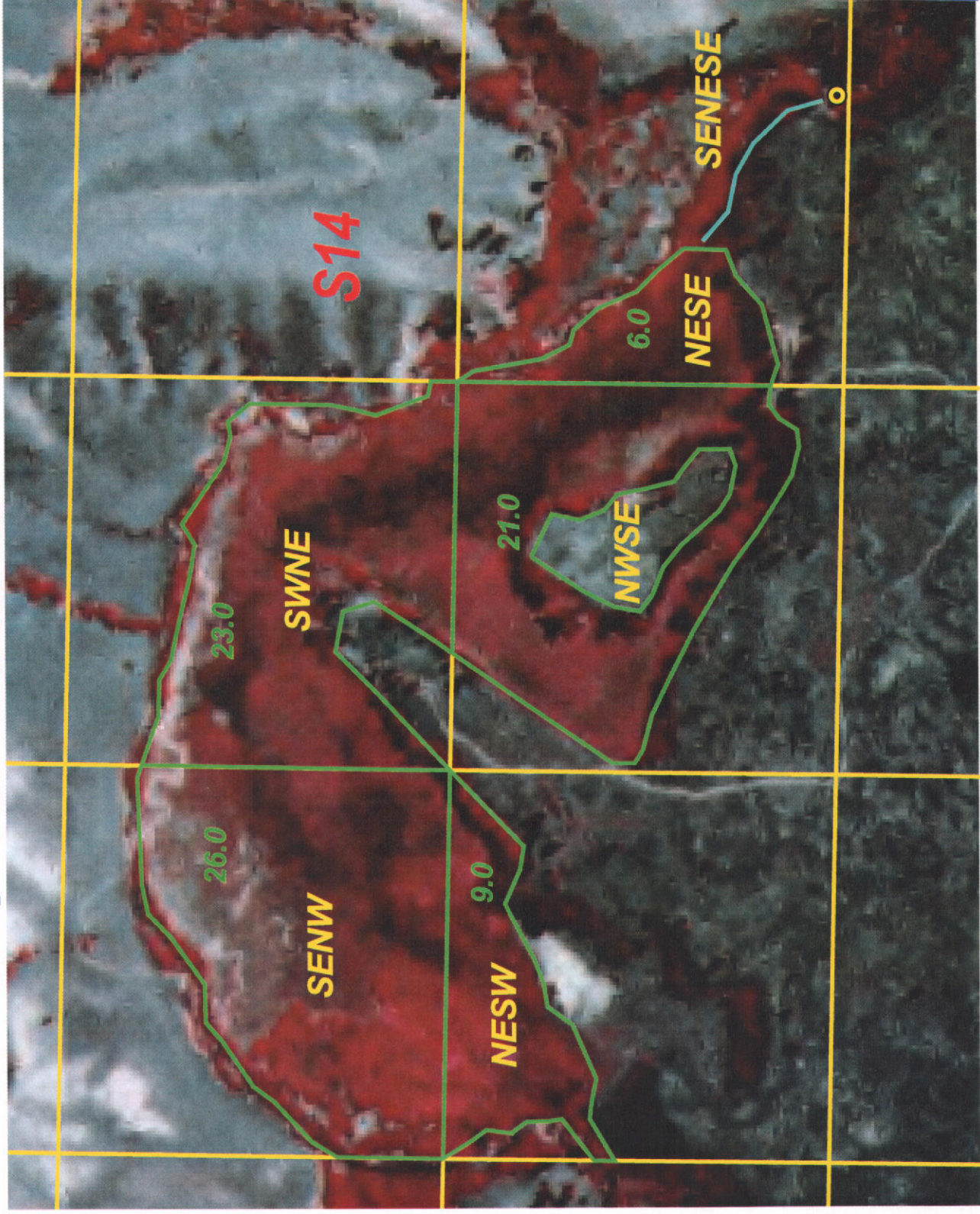
 SECTION

 1/4 1/4

85.0 Acres



1987 NAPP



Idaho Department of Water Resources

T02N R07E
S14

Claims: 63-101-102-103
Updated: 15 Nov 01
By: Ron Howerton

 Place of use

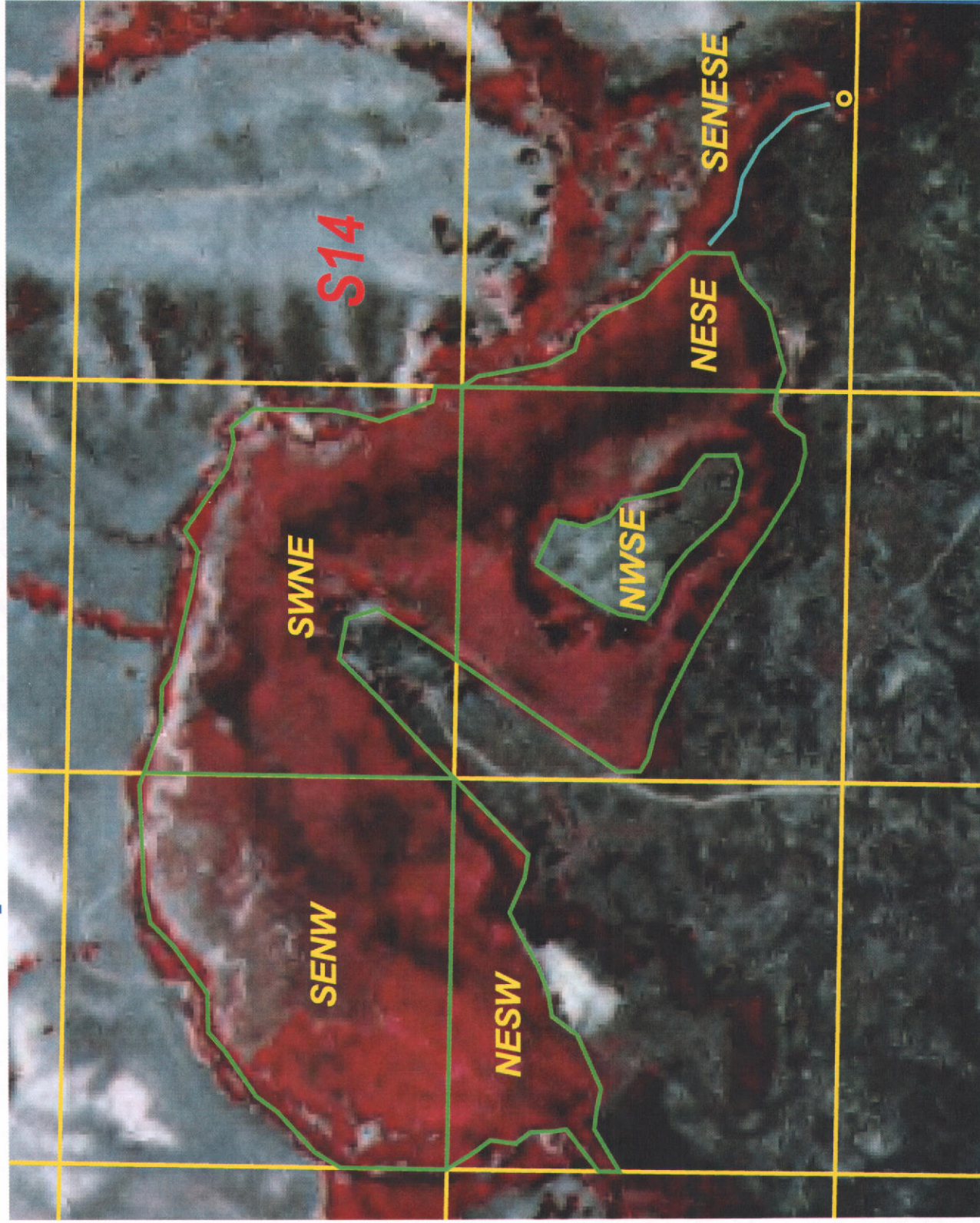
 POD

 SECTION

 1/4 1/4



1987 NAPP



0.25

0.5

0.75 Mile

63 0098

his U.S. Desert Land Entry No. 1675), 137, 1-2, inches continuous flow, and that he pay his costs in this action taxed at \$2.75.

That the defendant and cross complainant Martha B. Loving be, and she is hereby awarded the use of the amount of water hereinafter stated from the waters of said Smith Creek, in each year, said use to date from the 30th day of March 1900, for use upon the S.E.1-4, of the N.W.1-4, and Lots 2,3,4,5 and 6, of Section 30 in Tp.2, N.R.7. E.B.M., and upon the tract of unsurveyed land adjoining said above described land, described as, "commencing at the N.W. corner of Lot 2, in Section 30, Tp.2,N.R.7.E., running thence westerly about 400 yards to the top of East bank of South Fork of Boise River, thence Southeasterly along said river bank to the intersection with said Section 30, thence North to place of beginning", 116, 1-2, inches continuous flow, and that she pay her costs in this action, taxed at \$2.75.

63 0099

That the defendant and cross complainant A. E. Brown be, and he is hereby awarded the use of the amount of water hereinafter stated from the waters of said Smith Creek, in each year, said use to date from October 7, 1899, for use upon the E.1-2, of the N.E.1-4, the N.W.1-4, of the S.E.1-4, and the N.E.1-4, of the S.W.1-4 of Section 13, Tp.2, N.R.7, E.B.M., 175 inches continuous flow and that he pay his costs in this action, taxed at \$2.75.

63 0100

That the defendant and cross complainant George W. Goble be, and he is hereby awarded the use of the amounts of water hereinafter stated from the waters of said Smith Creek, in each year, for use upon the W1-2, of the N.E.1-4, and the N.W.1-4, of the S.E.1-4, and the S.E.1-4 of the N.W.1-4, of Section 14, Tp.2, N. R 7 E.B.M., as follows:

63 0101 1. For use upon said above described lands 37 1-2 inches continuous flow, said use to date from August 1st, 1894.

63 0102 2. For use upon said above described lands 37 1-2 inches continuous flow, said use to date from August 1st, 1902.

63 0103 3. For use upon said above described lands 62, 1-2 inches continuous flow, said use to date from May 1st, 1903, and that he pay his costs in this action, taxed at \$2.75.

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 63-103
Date Received: 12/4/1989
Receipt No: C013184
Received By:

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name of Claimant(s)

L G DAVISON & SONS INC Phone: (208)868-3243
1969 PRAIRIE RD
PRAIRIE ID USA 83647-9803

2. Date of Priority: 05/01/1903

3. Source: SMITH CREEK Trib. to: BOISE RIVER SOUTH FORK

4. Point of Diversion:

Township	Range	Section	1/4 of 1/4 of 1/4 Lot	County	Type
02N	07E	14	SE NE SE	ELMORE	

5. Description of diverting works:

ROCK DAM, HEADGATE, DITCH

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or) A.F.A
IRRIGATION	4/01	11/01	1.25	

7. Total Quantity Appropriated is:
1.25 C.F.S.

8. Total consumptive use:

9. Non-irrigation uses:

10. Place of use:

Township	Range	Section	1/4 of 1/4	Lot	Use	Acres
02N	07E	14	NW	SE	IRRIGATION	20
			SE	NW	IRRIGATION	35
			NW	NE	IRRIGATION	9
			SW	NE	IRRIGATION	20
			SE	NE	IRRIGATION	1
			SW	NW	IRRIGATION	1
			NE	SE	IRRIGATION	10
					Section Acres	96
					Total Acres	96

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:

14. Remarks:

ADDRESS CHANGED BY RDH ON 12/14/01.

15. Basis of Claim: Decreed

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: A63-00103
Date Received: 11/07/1989 12/4/89
Receipt No: 0013184
Received By: hst

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: L. G. DAVISON & SONS, INC. 208-868-3243
Address: C/O PRAIRIE STAGE
MOUNTAIN HOME, ID 83647
2. Date of Priority: MAY 01, 1903
3. Source: SMITH CREEK Trib. to: BOISE RIVER, SOUTH FORK
4. Point of Diversion:

Township	Range	Section	1/4	of	1/4	of	1/4	Lot	County
02N	07E	14	SE		NE		SE		ELMORE

5. Description of diverting works:
ROCK DAM, HEADGATE, DITCH

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	04/01	11/01	1.250		

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

8. Total consumptive use is 240.0 Acre Feet Per Annum.

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4	of	1/4	Lot	Use	Acres
02N	07E	14	NW		NE		IRR	9.0
			SW		NE		IRR	20.0
			SE		NE		IRR	1.0
			SW		NW		IRR	1.0

A63-00103

Page 1

Date: 11/21/89

MICROFILMED

AUG 14 1992

10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
02N	07E	14	SE	NW		IRR	35.0
			NE	SE		IRR	10.0
			NW	SE		IRR	20.0
						Section Acres	96.0
						Total Acres	96.0

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:
A63-00101, A63-00102

14. Remarks:

15. Basis of Claim: DECREED
Case Number:
Court :
Decree date:

THEODORE PIERCE
Decree Plaintiff

WM. PIERCE
Decree Defendant

vs

**SNAKE RIVER BASIN ADJUDICATION
CHANGE IN ADDRESS OF NOTICE OF CLAIM**

Claim Number(s): 63-97, 63-101, 63-102, 63-103, 63-104, 63-105, 63-106, 63-114
63-2237, 63-2598, 63-2916, 63-3611, 63-4881, 63-7059, 63-19768
63-2477

Previous Mailing Address: L. G. Davison & Sons, INC 63-19769
c/o Prairie stage 63-19770
MTN. Home, Id 63-19771
63-19772
63-30132

New Mailing Address: L. G. Davison & Sons, INC.
1969 Prairie Rd.
Prairie, Id. 83647-9803

Telephone Number: (208) 868-3243

Signature of Claimant(s): L. G. Davison

Please return this completed form to:

Adjudication Bureau
Idaho Dept. of Water Resources
1301 N. Orchard St.
Boise, ID 83706-2237
Ph. 1/800/451-4129 or
FAX 208/327-5400

Adjudication Bureau
Idaho Dept. of Water Resources
1341 Fillmore St., Ste. 200
Twin Falls, ID 83301-3380 or
FAX 208/736-3037

Adjudication Bureau
Idaho Dept. of Water Resources
2735 Airport Way
Boise, ID 83705-5082
Ph. 208/334-2190 or
FAX 208/334-2348

Adjudication Bureau
Idaho Dept. of Water Resources
900 N. Skyline, Ste. A
Idaho Falls, ID 83402-3653 or
FAX 208/525-7177

NOTE: THIS WAS
A POST-
OFFICE CHANGE
IN ADDRESSING
THE ADDRESS OF
LOCATION —
HASN'T
MOVED...
RCH

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 Asst. Sec. of _____ Title

L. G. Davison & Sons, Inc. , that I have signed the foregoing Organization
document in the space below as Asst. Sec. of _____ Title

L. G. Davison & Sons, Inc. and that the statements contained in the Organization
foregoing document are true and correct.

R. E. Davison
Signature of Authorized Agent

Asst. Sec. L. G. Davison & Sons, Inc.
Title and Organization

11-21-89
Date

State of Idaho)
County of Ada) SS.

Subscribed and sworn (or affirmed) before me this 21st day
of November 19 89

Helen Herrington
Notary Public

Seal

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

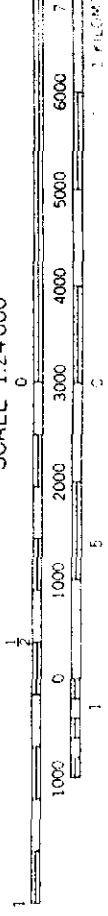


992 MB

Produced by the Geological Survey
in cooperation with the U.S. Forest Service

Orthophotograph prepared from 1:80,000-scale
aerial photographs taken Sept. 18, 1975

SCALE 1:24000



43° 30' 315° 37' 540,000 FEET

IDAHO DEPARTMENT OF WATER RESOURCES 12/20/2001
PRELIMINARY RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

NAME AND ADDRESS: L G DAVISON & SONS INC
1969 PRAIRIE RD
PRAIRIE ID 83647-9803

SOURCE: SMITH CREEK TRIBUTARY: SOUTH FORK BOISE RIVER
QUANTITY: 0.35 CFS

THIS RIGHT WHEN COMBINED WITH RIGHT NOS. 63-101 & 63-102 SHALL PROVIDE
NO MORE THAN .02 CFS PER ACRE WHEN MEASURED AT THE FIELD HEAD GATE.

PRIORITY DATE: 05/01/1903

POINT OF DIVERSION:
T02N R07E S14 SENESE Within ELMORE County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	04/01 10/31	0.350 CFS

PLACE OF USE: IRRIGATION Within ELMORE County

T02N R07E S14	SWNE	23.0	T02N R07E S14	SENW	26.0
T02N R07E S14	NESW	9.0	T02N R07E S14	NESE	6.0
T02N R07E S14	NWSE	21.0			

85 ACRES TOTAL

USE OF THIS RIGHT WITH THE RIGHTS LISTED BELOW IS LIMITED TO THE
IRRIGATION OF A COMBINED TOTAL OF 85 ACRES IN A SINGLE IRRIGATION
SEASON. COMBINED RIGHT NOS.: 63-101 & 63-102.

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: Decreed

RIGHT INCLUDES ACCOMPLISHED CHANGE IN PLACE OF USE PURSUANT
TO SECTION 42-1425, IDAHO CODE.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WESTERN REGION ADJUDICATION SECTION
CLAIM VERIFICATION FIELD EXAM SHEET
(Use with the ECVR)

CLAIM NO(s). 63-101 63-102 63-103

1. ☒ No Change NAME IS SAME
☐ NEW OWNER: _____
☐ No Change ADDRESS
☐ NEW ADDRESS: _____
2. ☒ No Change - DATE OF PRIORITY: Completed evidence submitted
☐ Incomplete - Claimant should be asked during the exam when was water first used and submit proof of date of priority.

Priority date, per claimant, is: _____
(If the priority date, based on your exam, seems questionable, explain below.)

3. ☒ No Change — SAME SOURCE
☐ Source is different than that claimed:

Source found: _____

4. ☒ No Change — POINT OF DIVERSION
☐ Point of diversion is different than the claim and/or new P/D's:

Township _____ Range _____ Section _____ 1/4 _____ 1/4 _____ 1/4 _____
Township _____ Range _____ Section _____ 1/4 _____ 1/4 _____ 1/4 _____

5. ☒ No Change - DESCRIPTION OF DIVERTING WORKS
☐ Incomplete description, list below:

6. ☐ No Change - WATER USES
☐ Different uses, (list uses found):

500 CHANGED
PER STANDARDS
NOT DECREASED.

Use _____ From _____ To _____ Amount _____ CFS _____ AFA
Use _____ From _____ To _____ Amount _____ CFS _____ AFA
Use _____ From _____ To _____ Amount _____ CFS _____ AFA

7. ☐ No Change - TOTAL VOLUME

☐ Incomplete on claim, the total is, Amount _____ CFS _____ AFA

1.85 =

☒ Changes found, the new total is, Amount _____ CFS _____ AFA

TOTAL CFS
CHANGED
PER DUTY OF
WATER &
CONFORMANCE LOSSES

8. ☒ No Change - NON-IRRIGATION USES:

☐ Changes Exam found:

Domestic # of homes: _____ Stock # _____ List types: _____

Additional comments: _____

9. ☒ No Change — PLACE OF USE: (If changed, list below.)

Use: _____ Township _____ Range _____ Section _____ 1/4 _____ 1/4 _____
Use: _____ Township _____ Range _____ Section _____ 1/4 _____ 1/4 _____
Use: _____ Township _____ Range _____ Section _____ 1/4 _____ 1/4 _____
Use: _____ Township _____ Range _____ Section _____ 1/4 _____ 1/4 _____

Remarks: (Comments pertinent to field examination) See additional attachment

PERMISSABLE POW RIGHTS 101, 102 & 103.

DITCH LOSS ADDED TO 103 - SEE FORMS IN FILE

☒ SYSTEM DIAGRAM INCLUDED ☐ NA

☒ Shown on GIS Layout

☐ CK IF IN OFFICE EXAM

DATE EXAM CONDUCTED: OCT 4, 2001

FIELD EXAMINER:

RON HOWERTON

Print Name

Ron Howerton
Signature

SEE FILE
FOR ADDITIONAL
DATA

RECOMMENDED

SUN STAINLESS CO.

- PER CULTURE -

COR

DATE: 11/15
PAGE: 3

**IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM PROFILE REPORT**

DATE: 11/15/01
PAGE: 3

DIVERSION
VOLUME

Stage: **DECREED**

:	NESE	NWSE	SWSE	SESE
:	Lt AC	Lt AC	Lt AC	Lt AC
:	(10)	(20)		
:				
:				

Field Inspection Flag: D
Presumption Flag:

Objection Filed Date:

pp 82 101, 102 & 103

Duty of water

$$(95 \text{ Acres})(0.02) = 1.7 \text{ cfs}$$

0.15 cfs of this
right is included
for Dutch loss

$$103 = 12 \text{ ct}$$

thus $\rightarrow 101 = 75$
 $102 = 75$

103 = 135

$= 1.7 \text{ cfs}$ duty of water plus .15 cfs ditch loss
 $= 1.85 \text{ cfs}$

OWNER CODE: C
NAME & ADDRESS: GEORGE W. GOBLE
PRIORITY DATE: 05/01/1903
WATER USE: IRRIGATION
USE PERIOD FROM TO: 00/00 00/00
DIVERSION RATE: 1.250 CFS
DIVERSION VOLUME: 1.250 CFS
TOTAL DIVERSION: 1.250 CFS

Water Source: SMITH CREEK Tributary to: BOISE RIVER, SOUTH FORK Stage: DECREED

Place of use Legal Description for: IRRIGATION																	
NE				NW				SW				SE					
NENE		NNNE		SUNE		SENE		NENW		SNNW		SENW		NESW		SWESE	
Lt		Ac		Lt		Ac		Lt		Ac		Lt		Ac		Lt	
T		R		S		:		Lt		Ac		Lt		Ac		Lt	
02N		07E		14		:		I		:		I		:		:	
																</	

Idaho Dept. of Water Resources
Place of Use Comparison Report

Type	WR #	Owner	Source	TRS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Rec	63 101	L G DAVISON & SONS INC.	SMITH CREEK	02N07E14				23				26	9				6	21			85
Rec	63 102	L G DAVISON & SONS INC.	SMITH CREEK	02N07E14				23				26	9				6	21			85
Rec	63 103	L G DAVISON & SONS INC.	SMITH CREEK	02N07E14				23				26	9				6	21			85
Right	63 101	GEORGE W GOBLE,	SMITH CREEK	02N07E14		X	X					X						X			0
Right	63 102	GEORGE W GOBLE,	SMITH CREEK	02N07E14		X	X					X						X			0
Right	63 103	GEORGE W GOBLE,	SMITH CREEK	02N07E14		X	X					X						X			0
Right	63 108	JULIUS P NAUERTH,	SMITH CREEK	02N07E14										X							0

Smith Cr (OLDEST RIGHTS)

101 102 103

Fx 10-4-01 Ron HOWERTON

GPS POD AS "SC101"

Ron
DAVISON

Directed to
LOCATION

he had to

LOCUS...

took Ditch
LOSS MEASUREMENTS

POU

Photo

DITCH

Found
WEIR

Photo

POD

SCREW
GATE

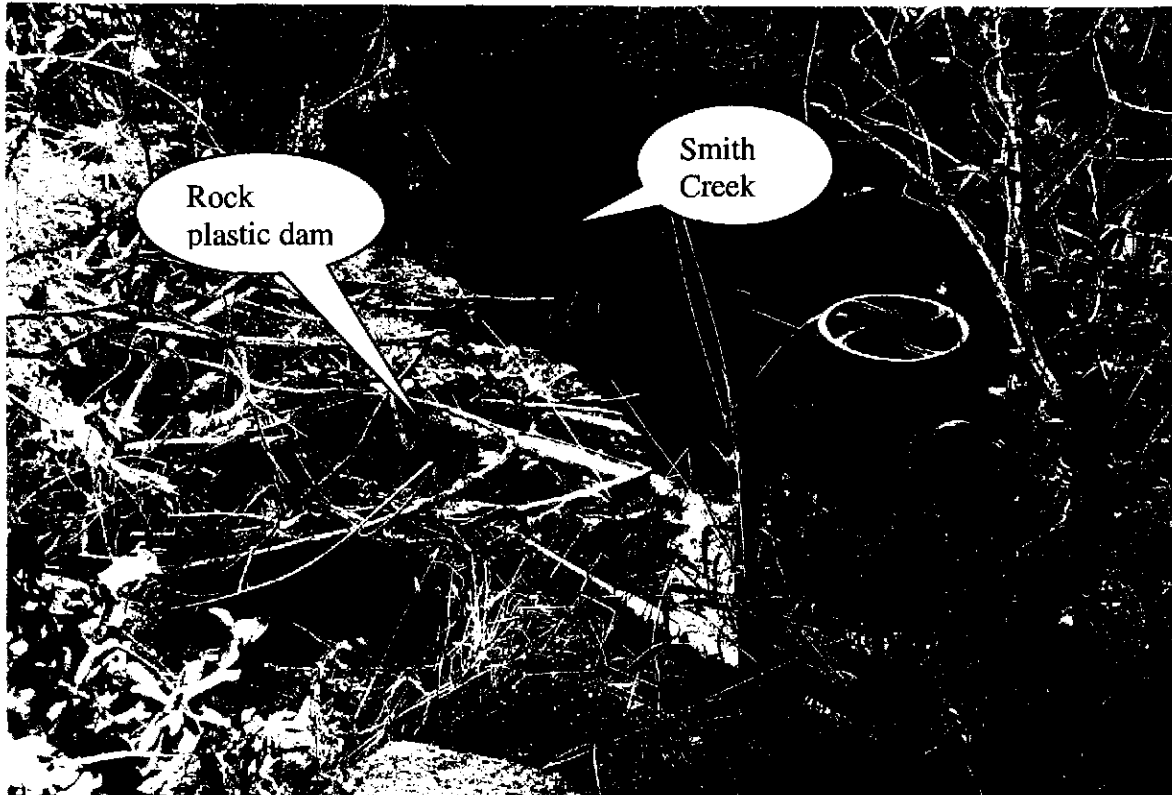


Photo 1. FX Oct. 4, 2001. Photos by RDH. 63-101, 102 & 103: POD screw head gate. T02N, R07E, S14, SENESE.

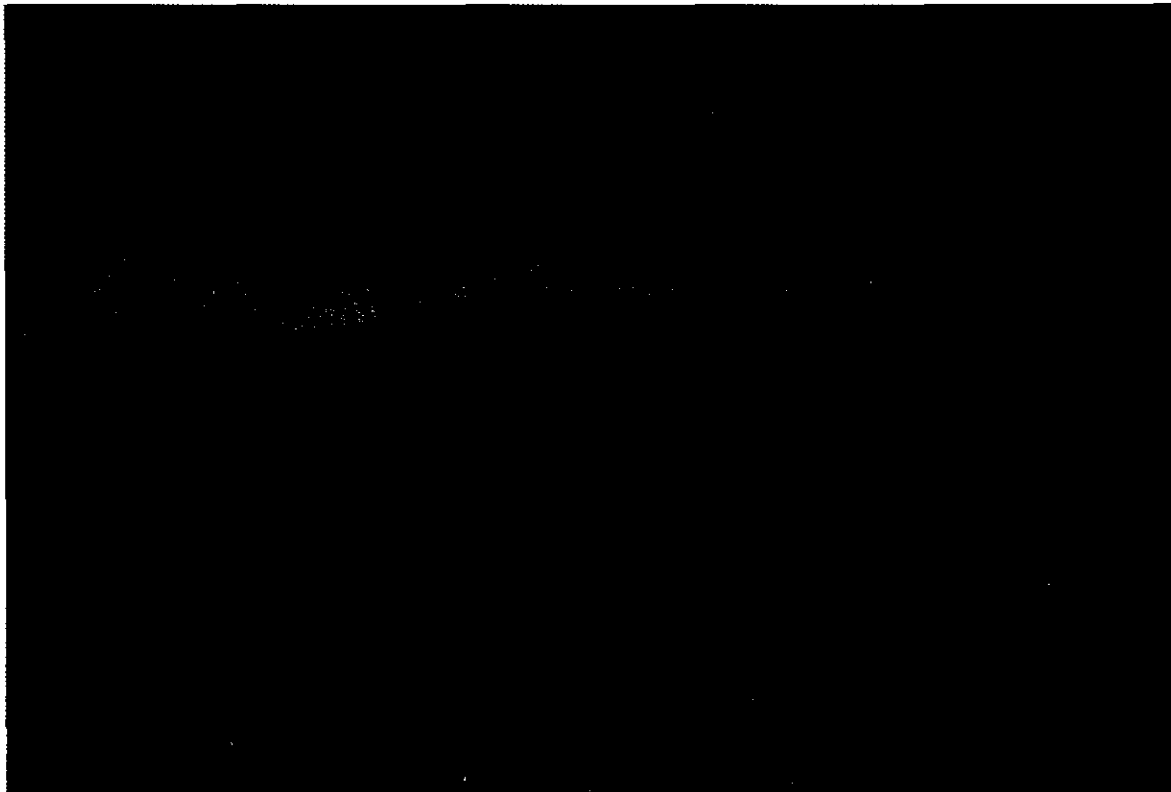


Photo 2. POU at beginning of field located in T02N, R07E, S14, NESE. View to West.

Idaho Department of Water Resources

T02N R07E

S14

Claims: 63-101-102-103

Updated: 15 Nov 01

by: Ron Howerton

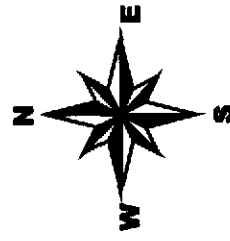
 Place of use

 POD

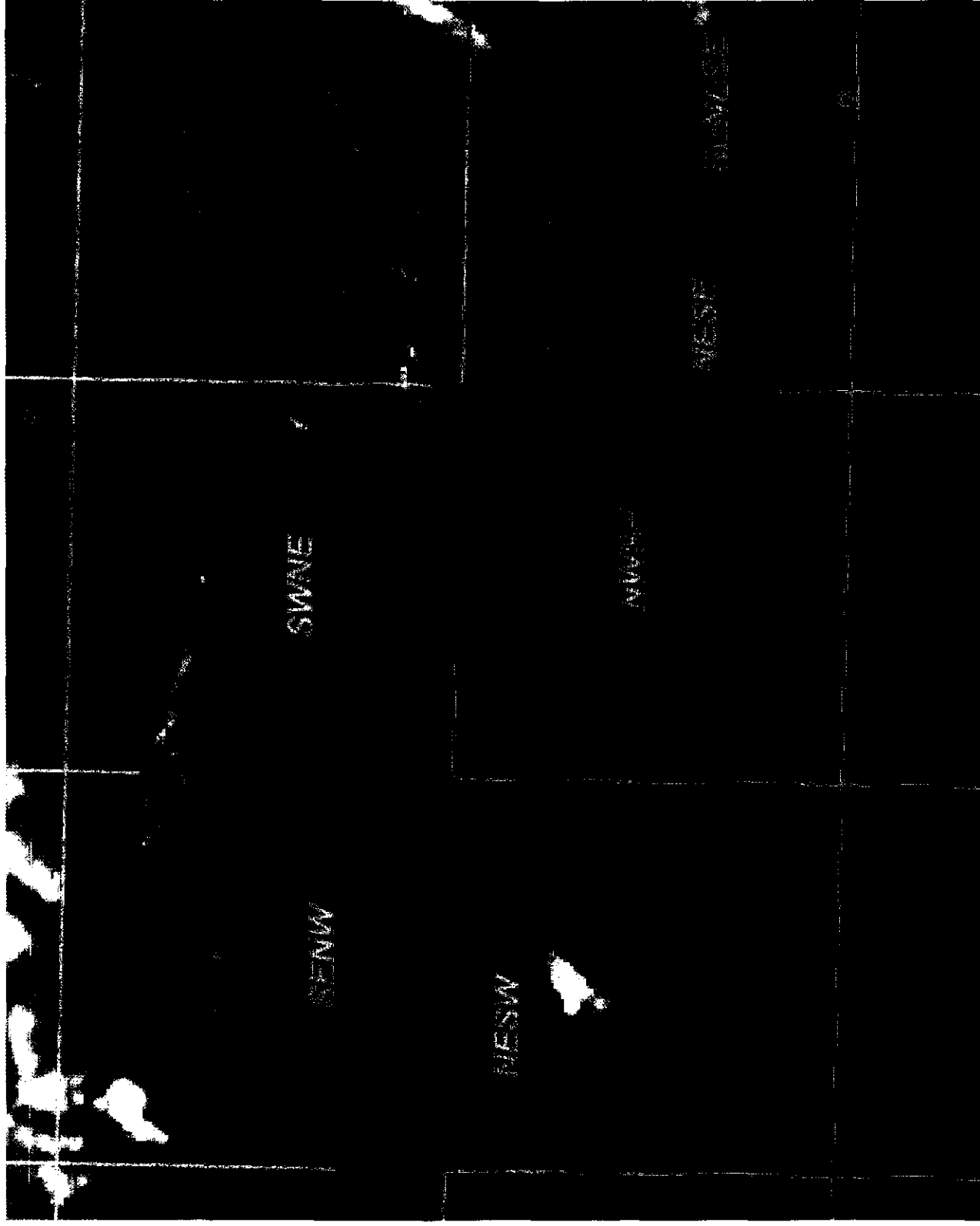
 SECTION

 1/4 1/4

85.0 Acres



1987 NAPP



0 0.25 0.5 0.75 Miles

Idaho Department of Water Resources

**T02N R07E
S14**

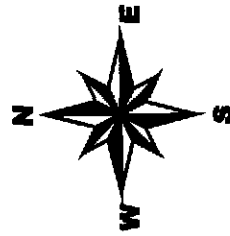
**Claims: 63-101-102-103
Updated: 15 Nov 01
By: Ron Howerton**

 **Place of use**

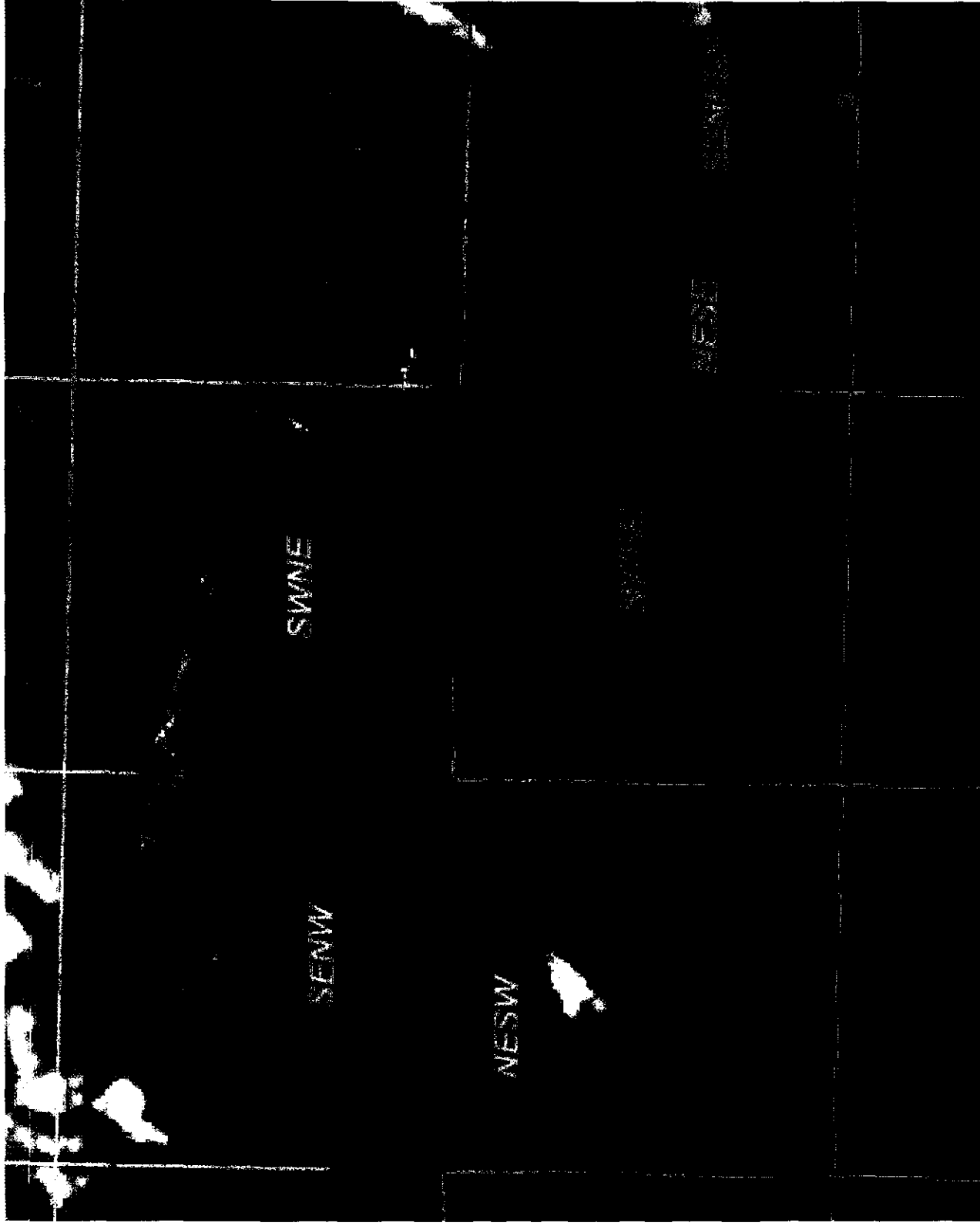
 **POD**

 **SECTION**

1/4 1/4



1987 NAPP



ESTIMATING CONVEYANCE LOSS

FIELD EXAMINER: RON HOWERTON

FIELD EXAM DATE: 10-4-01

FOR CLAIM(S) 63-101 63-102 63-103

FORMULA: $S = (W)(i)(0.0667)$

*Follow up ETAM
to do conveyance
Loss*

Where: S = Loss in CFS per Mile
 W = The top width of the high water mark in feet
 i = The loss rate in feet per day (see table)
 0.0667 is a factor used to convert to CFS per mile

TABLE:

Type of Soil	Loss Rate i (Ft/Day)
Medium clay loam.....	0.5 to 1.5
Impervious clay.....	0.5
Medium soils.....	1.0
Somewhat pervious soils.....	1.5 to 2.0
Gravel.....	<u>2.5</u> to 5.0



WORK SHEET

$W =$ () FT $i =$ () FT/DAY (0.0667)

$S =$ CFS/MILE

CONVEYANCE LOSS = (S) (LENGTH OF DITCH IN MILES)

CONVEYANCE LOSS = () CFS/MILE () MILE

CONVEYANCE LOSS =

0.15

TOP OF DITCH = W

MAP MEASUREMENT

Section 1 = 7 upper Ditch Length in Inches = = A

Section 2 = Section 3 = 5 lower Map Scale: In. = 1 Mile = B

Total... = 12 $A/X: B/5,280 = \text{Ft}/5,280 = \text{Mile}$

/2or 3... = 6 = W

Data/forms/Conv.loss.doc

*(800'
ft
(Ditch))*

ESTIMATING CONVEYANCE LOSS

FIELD EXAMINER: AGENT NAME

FIELD EXAM DATE: 9/26/01

FOR CLAIM(S): 57-02222

FORMULA: $S = (W)(i)(0.0667)$

Where: S = Loss in CFS per Mile

W = The top width of the high water mark in feet

i = The loss rate in feet per day (see table)

0.0667 is a factor used to convert to CFS per mile

TABLE:

Type of Soil	Loss Rate i (Ft/Day)
Medium clay loam.....	0.5 to 1.5
Impervious clay.....	0.5
Medium soils.....	1.0
Somewhat pervious soils.....	1.5 to 2.0
Gravel.....	2.5 to 5.0

WORK SHEET

$W = (3.25 \text{ FT}) \quad i = (2 \text{ FT/DAY})(0.0667)$

$S = .43355 \text{ CFS/MILE}$

CONVEYANCE LOSS = (S) (LENGTH OF DITCH IN MILES)

CONVEYANCE LOSS = (.43355 CFS/MILE) (.84375 MILE)

CONVEYANCE LOSS =

0.37

TOP OF DITCH = W

MAP MEASUREMENT

Section 1 = 3.5

Length in Inches = 6.75 = A

Section 2 = 3.0

Map Scale: 8 In. = 1 Mile = B

Section 3 = NA

A/X: B/5,280 = Ft./5,280 = Mile

Total... = 6.5

/2or 3... = 3.25 = W

Data/forms/Conv.loss.doc

$\frac{6.75}{x} : \frac{8}{5280} = \frac{4455 \text{ length ft}}{5280 \text{ ft/mile}} =$

.84375 per mile

CONVEYANCE LOSS - WORSTELL

NAME OF DITCH: SMITH CR

63-101-103 BY:

RDH

DATE: NOV 15, 2001

REACH	LENGTH (FT)	AVE WIDTH (FT)	SEEPAGE (FT/DAY)	WORSTELL LOSS (CFS)	DELIVERY (CFS)	DELIVERY LEFT (CFS)	LOSS FACTOR	DELIVERY LOSS (CFS)	FLOW (CFS)
1	800	6.0	2.50	0.15		0.00	0.0000	0.00	0.15
2				0.00		0.00	0.0000	0.00	0.00
3				0.00		0.00	0.0000	0.00	0.00
4				0.00		0.00	0.0000	0.00	0.00
5				0.00		0.00	0.0000	0.00	0.00
6				0.00		0.00	0.0000	0.00	0.00
7				0.00		0.00	0.0000	0.00	0.00
8				0.00		0.00	0.0000	0.00	0.00
9				0.00		0.00	0.0000	0.00	0.00
10				0.00		0.00	0.0000	0.00	0.00
11				0.00		0.00	0.0000	0.00	0.00
12				0.00		0.00	0.0000	0.00	0.00
13				0.00		0.00	0.0000	0.00	0.00
14				0.00		0.00	0.0000	0.00	0.00
15				0.00		0.00	0.0000	0.00	0.00
16				0.00		0.00	0.0000	0.00	0.00
17				0.00		0.00	0.0000	0.00	0.00
18				0.00		0.00	0.0000	0.00	0.00
19				0.00		0.00	0.0000	0.00	0.00
20				0.00		0.00	0.0000	0.00	0.00
TOTALS	800			0.15	0.00			0.00	

REACH = SECTION OF CHANNEL

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

AVE WIDTH = AVERAGE TOP WIDTH OF WATER SURFACE IN REACH

SEEPAGE = SOIL SEEPAGE RATE OF REACH

WORSTELL LOSS = CONVEYANCE LOSS IN REACH BASED ON WORSTELL METHOD

DELIVERY = TOTAL DELIVERIES IN REACH

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

LOSS FACTOR = WORSTELL LOSS/DELIVERY LEFT

DELIVERY LOSS = SUM(LOSS FACTORS OF CURRENT AND PREVIOUS REACHES) X DELIVERY;
REPRESENTS THE LOSSES ASSIGNED TO THE DELIVERIES IN THE REACH;
IF MULTIPLE RIGHTS WITHIN REACH, DELIVERY LOSSES SHOULD BE
PRORATED BASED ON SIZE OF DELIVERY FOR EACH RIGHT WITHIN REACH

FLOW = TOTAL FLOW AT BEGINNING OF EACH REACH

Most seepage formulas use a unit seepage rate which some call "C" and others call "i". In English units these coefficients are expressed as cubic feet per square foot per day or simply feet per day.

The following table of "C" values is from American Civil Engineering Practice:²⁵

<u>Kind of Material</u>	<u>Loss per Day</u> (in feet)
Cemented gravel and hardpan with sandy loam	0.34
Clay and clay loam	0.41
Sandy loam	0.66
Volcanic ash	0.68
Volcanic ash with some sand	0.98
Sand and volcanic ash or clay	1.20
Sandy soil with some rock	1.68
Sandy and gravelly soil	2.20
Concrete lining	0.33

The following table of "i" values is taken from the California Department of Water Resources Inspection Manual for use with the Etcheverry formula.

<u>Kind of Material</u>	<u>Loss per Day</u> (in feet)
Impervious clay loam	0.25 - 0.35
Medium clay loam underlaid with hardpan at depth of not over 2 to 3 ft. below bed	0.35 - 0.50
Ordinary clay loam, silt soil or lava ash loam	0.50 - 0.75
Gravelly clay loam, sandy clay loam, cemented gravel, sand or clay	0.75 - 1.00
Sandy loam	1.00 - 1.50
Loose sandy soils	1.50 - 1.75
Gravelly sandy soils	2.00 - 2.50
Porous sandy soils	2.50 - 3.00
Very gravelly soils	3.00 - 6.00

The following tables of "Average Seepage Rates" is from

²⁵ Abbett, Robert W., American Civil Engineering Practice, John Wiley & Sons, Inc., New York, 1956, Vol. II, pp. 17-31, 17-32.

63 0098 his U.S. Desert Land Entry No. 1675), 137, 1-2, inches continuous flow, and that he pay his costs in this action taxed at \$2.75.

That the defendant and cross complainant [REDACTED] be, and she is hereby awarded the use of the amount of water hereinafter stated from the waters of said Smith Creek, in each year, said use to date from the 30th day of March 1900, for use upon the S.E.1-4, of the N.W.1-4, and Lots 2,3,4,5 and 6, of Section 30 in Tp.2, N.R.7. E.B.M., and upon the tract of unsurveyed land adjoining said above described land, described as, "commencing at the N.W. corner of Lot 2, in Section 30, Tp.2,N.R.7.E., running thence westerly about 400 yards to the top of East bank of South Fork of Boise River, thence Southeasterly along said river bank to the intersection with said Section 30, thence North to place of beginning", 116, 1-2, inches continuous flow, and that she pay her costs in this action, taxed at \$2.75.

63 0100 That the defendant and cross complainant [REDACTED] and he is hereby awarded the use of the amount of water hereinafter stated from the waters of said Smith Creek, in each year, said use to date from October 7, 1899, for use upon the E.1-2, of the N.E.1-4, the N.W.1-4, of the S.E.1-4, and the N.E.1-4, of the S.W.1-4 of Section 13, Tp.2, N.R.7,E.B.M., 175 inches continuous flow and that he pay his costs in this action, taxed at \$2.75.

That the defendant and cross complainant [REDACTED] be, and he is hereby awarded the use of the amounts of water hereinafter stated from the waters of said Smith Creek, in each year, for use upon the W1-2, of the N.E.1-4, and the N.W.1-4, of the S.E.1-4, and the S.E.1-4 of the N.W.1-4, of Section 14, Tp.2, N. R 7 E.B.M., as follows:

63 0101 1. For use upon said above described lands 37 1-2 inches continuous flow, said use to date from August 1st, 1894.

63 0102 2. For use upon said above described lands 37 1-2 inches continuous flow, said use to date from August 1st, 1902.

63 0103 3. For use upon said above described lands 62, 1-2 inches continuous flow, said use to date from May 1st, 1903, and that he pay his costs in this action, taxed at \$2.75.