



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

February 6, 2006

David E Giorgi Family Trust
950 Glenn Annie Canyon Rd.
Goleta, CA 93117

Re: Snake River Basin Adjudication (SRBA)
Investigation of Claim No. 73-111A

Dear Claimants,

We are currently investigating your claim to the water right noted above and need your assistance.

The claim mentions the "Hardscrabble" or "Cotter" ditch. There are several ditches from Patterson Creek that deliver water in your general area, and the local names are confusing. We have enclosed a copy of the general area (your property is outlined in red.)

Please indicate your delivery ditch from Patterson Creek and land irrigated from that ditch on the enclosed map. Also, please describe exactly how your irrigation system works. For example, you might describe a pump or pipeline, open ditches, flood or sprinkler irrigation, etc. You may do this on the back of the map, if that is convenient.

Please return the map, and any other explanatory materials as soon as possible. It is important that we describe your water right as accurately as we can.

Please feel free to contact me at (208) 287-4914 if you have additional questions or concerns. You may also reach me using email: roxanne.brown@idwr.idaho.gov.

Sincerely,

A handwritten signature in cursive script that reads 'Roxanne'.

Roxanne Brown
Adjudication Bureau
Idaho Dept. of Water Resources



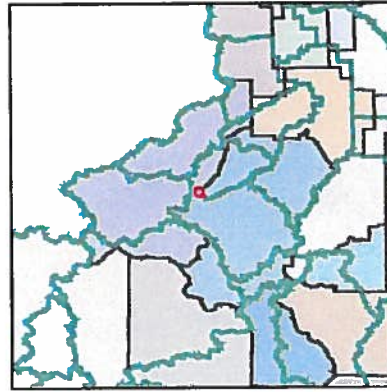
Idaho Department of Water Resources

Adjudication Claim Number: **73-111 A**

T15N R21E

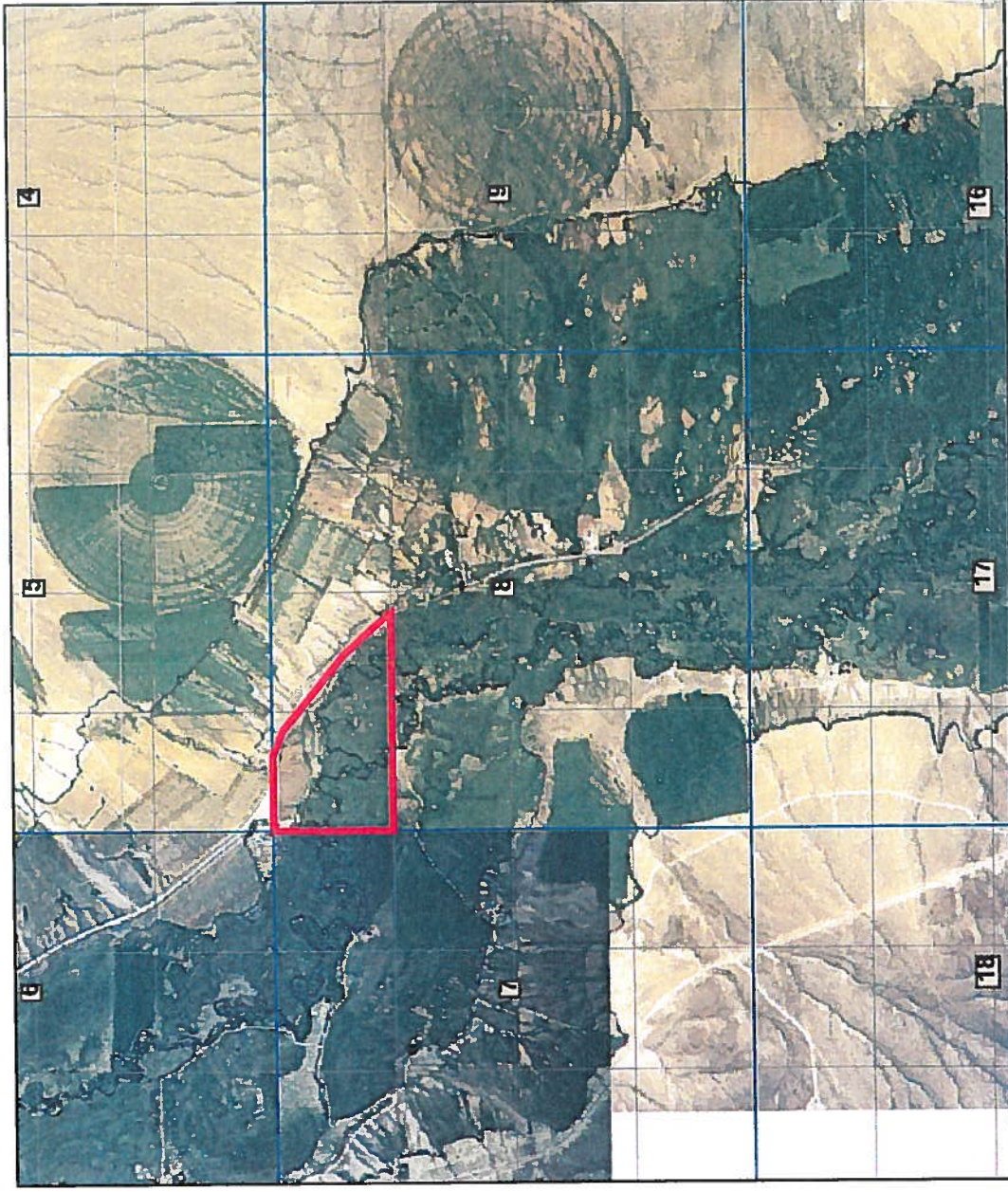
Legend

- Township/Range
- Sections
- GCDB15N21E GCDB



Custer County
IDWR Basin 73

Prepared by R. Brown
On Monday, February 6, 2006
1988 Aerial Photography



0 0.6 1.2 Miles

(208) 879-4488

JAMES R. BENNETTS
ATTORNEY AT LAW
P.O. Box 36
CHALLIS, IDAHO 83226

RECEIVED

MAR 03 1993

Department of Water Resources
Eastern District Office

ok DE

March 1, 1993

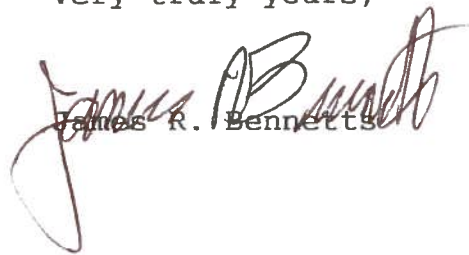
Idaho Department of Water Resources
Eastern Region Office
150 Shoup Avenue
Idaho Falls, ID 83401

Re: Water Right No. A73-00111A

Dear Sirs:

Enclosed is NEW PROPERTY OWNER NOTICE OF CHANGE OF WATER RIGHT OWNERSHIP regarding the sale by "Bud" A.E. Sloan Jr. the David E. Giorgi Family Trust.

Very truly yours,


James R. Bennetts

JRB:jab
Enclosure

MICROFILMED

APR 18 1994



NEW PROPERTY OWNER NOTICE OF CHANGE OF WATER RIGHT OWNERSHIP

Please print or type
(see instructions on back of page)

DATE OF CLOSING: 3-1-93

LEGAL DESCRIPTION OF PROPERTY: Township _____ Range _____
Section _____, 1/4 of _____ 1/4 of _____ 1/4, Govt. Lot _____, BM.
Lot _____, Block, _____, Subdivision/Townsite _____.

If you have additional legal descriptions, please attach separate sheet.

- ☐ Served Only by a Public Service Water Supply (all water is received from a city or company who maintains water supply system, owns the water right, and bills the customer on a regular basis)
- ☐ Water Right Number(s)
Assigned by IDWR: A73-00111A
- ☐ Name and Address of Former Owner/Claimant(s)(Seller): "BUD" A.E. SLOAN JR
SLOAN RANCHES, 7945 ALISO CYN RD
SANTA PAULA, CA 93060
- ☐ New Owner/Claimant (Purchaser): DAVID E. GIORGI & BARBARA K. GIORGI CO-TRUSTEES OF THE DAVID E. GIORGI FAMILY TRUST (SCHEDULE B), that certain Revocable Trust entered into as of the 11th day of November, 1982
- ☐ New Mailing Address: 950 GLENN ANNIE CANYON ROAD
GOLETA, CA 93117
- ☐ New Telephone Number: (805) 968 - 2967
- ☐ Does the change in ownership result in a splitting of the water right owned/claimed? yes ☒ no
If yes, then describe the portion of the water right that is now owned/claimed by the new owner:

- ☐ Attach proof of ownership, describe proof attached: Copy of Warranty Deed
(proof of ownership must describe either the property conveyed or include the claim number. Proof of ownership is not required if this form is signed by the former owner/claimant.)

- ☐ Signature of New Owner/Claimant(s): David E. Giorgi - Trustee Date 3/1/93
Date _____
- ☐ Signature of Former Owner/Claimant(s): Bud A. E. Sloan Jr Date 3/1/93
Date _____

(Signature of former claimant(s) is not required if proof of ownership is attached.)

FOR IDWR USE ONLY:

Initial Review and Data-Entry
Date: _____ By: _____
Further Action Needed:

Further Action Taken
Date: _____ By: _____

Final Review and Data-Entry
Date: _____ By: _____

Claim Numbers of Split, if any:

Original to be mailed to Idaho Department of Water Resources
Copies to Former Owner and New Owner

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APR 18 1994

WARRANTY DEED

POOR ORIGINAL

For Value Received

A. E. SLOAN SR. and ELSIE M. SLOAN, husband and wife,

the grantor s, do hereby grant, bargain, sell and convey unto DAVID E. GIORGI and BARBARA K. GIORGI CO-TRUSTEES OF THE DAVID E. GIORGI FAMILY TRUST (SCHEDULE B), tha certain Revocable Trust Agreement entered into as of the 11th day of November, 1982, the grantees , whose current address is 950 Glenn Annie Canyon Road, Goleta, CA 93117

the following described premises, in

Custer

County Idaho, to-wit:

See Exhibit "A" attached hereto and made a part hereof.

TO HAVE AND TO HOLD the said premises, with their appurtenances unto the said Grantee s , their heirs and assigns forever. And the said Grantor s do hereby covenant to and with the said Grantee s, that they are the owner s in fee simple of said premises; that they are free from all incumbrances

and that the y will warrant and defend the same from all lawful claims whatsoever.

Dated: February 12, 1993.

A. E. Sloan Sr.
A. E. Sloan Sr.

Elsie M. Sloan
Elsie M. Sloan

CALIFORNIA
STATE OF ~~KXXMO~~, COUNTY OF

On this day of February , 1993 , before me, a notary public in and for the said State, personally appeared A. E. SLOAN SR and ELSIE M. SLOAN, husband and wife,

known to me to be the person s whose name s are subscribed to the within instrument, and acknowledged to me that they executed the same.

Symon T. Stevenson Notary Public
Residing at Challis, Idaho
Comm. Expires 4-24-97

STATE OF IDAHO, COUNTY OF CUSTER

I hereby certify that this instrument was filed for record at the request of

at minutes past o'clock M.,
this day of
19 , in my office, and duly recorded in Book
of Deeds at Page

Ex-Officio Recorder

By Deputy.

Fees \$
Mail to:

MICROFILMED

APR 18 1994

55

APR 18 1994

EXHIBIT "A"

POOR ORIGINAL

ALL OF THE NW1/4NW1/4 IN SECTION 8, TOWNSHIP 15 N., RANGE 21 EAST, B.M. CUSTER COUNTY, IDAHO, LYING SOUTH OF THE PAHSIMAROI RIVER.

ALSO:

THIS TAX NUMBER (97) DESIGNATES THE FOLLOWING PEICE OR PARCEL OF LAND SITUATE, LYING AND BEING IN THE COUNTY OF LEMHI, STATE OF IDAHO, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS, TO WIT:

ALL OF THAT PART OF THE NW1/4NW1/4, SECTION 8, TOWNSHIP 15 NORTH, RANGE 21 E.B.M., LYING AND BEING ON THE NORTH AND EAST SIDE OF THE PAHSIMAROI RIVER,

EXCEPTING AND RESERVING FROM THE LAST NAMED SUBDIVISION ABOVE DESCRIBED, A WATERING PLACE ON THE WEST LINE THEREOF, TWO RODS WIDE AND 32 RODS LONG.

ALSO:

THE NE1/4NW1/4 OF SECTION 8, TOWNSHIP 15 NORTH, RANGE 21 EAST, B.M., LEMHI COUNTY, IDAHO, LESS THE FOLLOWING:

A FRACTION OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4NW1/4) OF SECTION EIGHT (8), TOWNSHIP FIFTEEN (15) NORTH, RANGE TWENTY-ONE (21) EAST, BOISE MERIDIAN, LEMHI COUNTY, IDAHO, MORE PARTICULARLY DESCRIBED AS FOLLOWS, TO-WIT: BEGINNING AT THE SOUTHEASTERLY CORNER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4NW1/4) OF SAID SECTION EIGHT (8), RUN THENCE SOUTH 89 DEGREES 55' WEST 126.0 FEET; THENCE NORTH 36 DEGREES 59' WEST 972.0 FEET; THENCE NORTH 48 DEGREES 15' WEST 813.95 FEET TO THE NORTHWESTERLY CORNER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4NW1/4) OF SECTION EIGHT (8), THENCE NORTH 89 DEGREES 55' EAST 1320.0 FEET TO THE NORTHEASTERLY CORNER OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4NW1/4) OF SECTION EIGHT (8), THENCE SOUTH 0 DEGREES 05' WEST 1320.0 FEET TO THE POINT OF BEGINNING.

A.E.S. AES, Sr.

E.M.G. EMS

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POOR ORIGINAL

ALSO: AN EASEMENT FOR ACCESS TO A SPRING LOCATED IN THE SOUTHEASTERLY PORTION OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4NW1/4) OF SECTION EIGHT (8), TOWNSHIP FIFTEEN (15) NORTH, RANGE TWENTY-ONE (21) EAST, BOISE MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS, TO-WIT:

COMMENCING AT THE SOUTHEASTERLY CORNER OF THE SAID NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4NW1/4) OF SECTION EIGHT (8), RUN THENCE SOUTH 89 DEGREES 55' WEST 126.0 FEET TO THE POINT OF BEGINNING; CONTINUING THENCE SOUTH 89 DEGREES 55' WEST 156.3 FEET; THENCE NORTH 12 DEGREES 44' EAST 160.0 FEET; THENCE SOUTH 36 DEGREES 59' EAST 193.0 FEET TO THE POINT OF BEGINNING.

ALSO: THE RIGHT OF THE USE OF AN EXISTING ROAD ACROSS THE NORTHERLY PORTION OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER (NE1/4NW1/4) OF SECTION EIGHT (8), TOWNSHIP FIFTEEN (15) NORTH, RANGE TWENTY-ONE (21) EAST, BOISE MERIDIAN, EXTENDING FROM THE LEMHI COUNTY ROAD TO THE ABOVE DESCRIBED TRACT OF LAND FOR THE PURPOSES OF INGRESS AND EGRESS.

AND LESS THE FOLLOWING:

A FRACTION OF THE N1/2NW1/4 OF SECTION 8, TOWNSHIP 15 N., RANGE 21 E., BOISE MERIDIAN, LEMHI COUNTY, IDAHO, MORE PARTICULARLY DESCRIBED AS FOLLOWS, TO-WIT:

COMMENCING AT THE SOUTHEASTERLY CORNER OF THE NE1/4NW1/4 OF SAID SECTION 8, RUN THENCE S. 89 DEGREES 55' W., 126.0 FEET TO THE POINT OF BEGINNING, AND THE SOUTHEASTERLY CORNER OF THE TRACT OF LAND HERIN DESCRIBED; THENCE N. 36 DEGREES 59' W., 972.0 FEET; THENCE N. 48 DEGREES 15' W., 813.95 FEET TO THE NORTHWESTERLY CORNER OF THE NE1/4NW1/4 OF SECTION 8; THENCE S. 89 DEGREES 55' W. ALONG THE NORTHERLY BOUNDARY OF SECTION 8 TO A POINT ON THE NORTHEASTERLY RIGHT OF WAY LINE OF THE LEMHI COUNTY ROAD; THENCE SOUTHEASTERLY ALONG SAID RIGHT OF WAY LINE TO A POINT ON THE SOUTHERLY BOUNDARY OF THE NE1/4NW1/4 OF SECTION 8; THENCE N. 89 DEGREES 55' E. ALONG THE SOUTHERLY BOUNDARY OF THE NE1/4NW1/4 OF SECTION 8; THENCE N. 89 DEGREES 55' E. ALONG THE SOUTHERLY BOUNDARY OF THE NE1/4NW1/4 OF SECTION 8, A DISTANCE OF 156.3 FEET TO THE POINT OF BEGINNING.

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AES, Sr

APR 18 1994

C.M.S. EMS

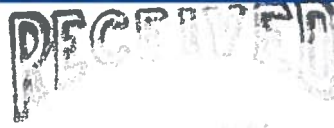


State of Idaho

DEPARTMENT OF WATER RESOURCES

150 Shoup Ave., Suite 15, Idaho Falls, Idaho 83402 - (208) 525-7161

EASTERN REGION



CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

January 8, 1991

Mr. "Bud" A.E. Sloan, Sr.
Sloan Ranch
7945 Aliso Cyn. Rd.
Santa Paula, CA 93060

Department of Water Resources
Eastern District Office

RE: Snake River Basin Adjudication Claims, Lemhi/Custer Counties

Dear Mr. Sloan:

Thank you for submitting the Adjudication Notices for your water uses in Lemhi and Custer Counties. However, before the Department can process your notices, some items must be clarified and some additional fees are due. I am returning your original notices but in their place I have partially completed 2 new notices (one irrigation notice and one domestic / stockwater notice) that you may review and submit as corrections to the originals. The revised notices incorporate the information that you submitted with the filings in conjunction with information in our records regarding the water right.

You submitted 2 irrigation notices, one for each parcel of land listed in your Warranty Deeds. Since the two parcels are next to each other and you have claimed that the same water right (73-00111) covers each, you may file the use under one notice as I have done.

To complete the notice, please indicate on the attached map the lands that are irrigated and determine the number of acres irrigated in each "40-acre" tract. Write in the acreages on the highlighted boxes in item #10 of the form. The acres you list in item #10 should be the actual acreage that is irrigated within your property boundary. I have corrected the legal descriptions on the form to match the property descriptions on your Warranty Deeds.

Regarding water right 73-00111, please find enclosed a computer printout of the water right for your reference. I have reviewed our adjudication records regarding this right and have found that A.M. Hatch & Son's claim that a portion of the water right covers their property that is adjacent to yours. The original right was decree 3.20 cfs or 160 miners inches of water that covers approximately 160 acres of land. The Hatches have claimed ownership of 2.02 cfs or 101 miners inches of this right. This leaves 1.18 cfs or 59 miners inches of water unclaimed that I believe may be your interest in the right. I have indicated on

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DEC 14 1992

Sloan #2

item #6 that this is the amount of water you are claiming. If you believe this amount is wrong, please correct the amount by lining through it and initialing the change.

The filing fee for your notices is the sum of:

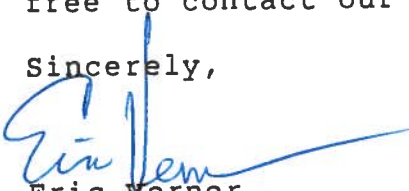
One irrigation notice = \$50.00 flat fee
Variable \$1.00/acre fee = Acres in item #10 X \$1.00
One domestic / stock notice = \$25.00 flat fee

Please calculate the variable acreage fee based upon the number of acres you claim irrigated in item #10 of the irrigation notice. Since we have received \$50.00 from you under receipt C013706 you may subtract this from the total due and just remit the balance.

Please review the corrected notices and when you are satisfied with them, sign them in the presence of a Notary Public and return them to my attention. We will hold further action on the notice for 30 days so your prompt attention is appreciated.

As always, if you have any questions regarding this matter, feel free to contact our office.

Sincerely,


Eric Verner
Sr. Water Agent

Enclosures

1, 14-91

Eric:
right. I think I have this all set up
or will be if I get water. I am sending you a dollar
a acre for five (5) acres, plus the little well. If in
wrong let me know.

So long
Paid \$50 00
5 acres @ \$ 5 00
Well owe 25 00
Check \$30, 00
Bud Sloan

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DEC 14 1992

4/11/1989

SRBA CLAIMS RECEIVING CHECKLIST #2

CLAIMANT'S NAME

"Ruo" E. Sloan

CLAIM IDENT. NO.

A73-00111A

DATE RECEIVED

12-22-89

CK #

5046

AMOUNT \$

C013706 \$5002
E015600 \$5002

- | | YES | NO | Required Info? |
|--|-------------------------------------|--------------------------|----------------|
| 1. Is the name and address complete with zip code? | ☒ | ☐ | * |
| 2. Is a priority date entered? | ☒ | ☐ | * |
| Is the priority date acceptable in view of mandatory filing dates? | ☒ | ☐ | * |
| See Adjudication Memos #1 and #4 to determine if a Permit is required. | ☒ | ☐ | * |
| 3. (a) Is a source entered? | ☒ | ☐ | * |
| (b) Is a tributary to entered? (if required) | ☐ | ☐ | * |
| 4. Is the legal description of the p.d. sufficient? | ☒ | ☐ | * |
| 5. Is there a description of the diverting works? | ☒ | ☐ | * |
| 6. Are the water uses appropriate for the form? The short form is limited to domestic and stockwater uses with direct diversion. All claims that include storage or instream stockwater must use long form. | ☒ | ☐ | * |
| Is the period of use included? | ☒ | ☐ | * |
| Is a quantity claimed for each use? | ☒ | ☐ | * |
| 7. Is a total quantity claimed entered? | ☒ | ☐ | * |
| 8. If required is a consumptive use entered? | ☒ | ☐ | * |
| Is the consumptive use correct? | ☒ | ☐ | * |
| 9. Are the non-irrigation uses listed properly? If this claim is on the short form, and more than one domestic use is listed, single ownership must be stated. If not under single ownership, see Adjudication Memo # 4. | ☒ | ☐ | * |
| 10. Is (are) the place(s) of use and purpose(s) indicated? | ☒ | ☐ | * |
| 11. Is (are) the county(ies) entered? | ☒ | ☐ | * |
| 12. Is the ownership of p.u. checked? | ☒ | ☐ | * |
| 13. Are other water rights listed or "none" indicated? | ☒ | ☐ | * |
| 14. If required, are remarks correct? (If the claimant does not own the place of use, authority for filing the claim must be explained in the remarks.) | ☒ | ☐ | * |
| 15. Is the basis of the claim indicated? | ☒ | ☐ | * |
| 16. If the claimant requested a monthly docket sheet, is payment enclosed? (If yes, describe payment status in "Comments" below.) | ☒ | ☐ | * |
| 17. Is the claim signed by the claimant, and is the signature appropriate? Organizations must complete the organization block. | ☒ | ☐ | * |
| 18. Has the claim been signed, sealed, and dated by a notary? | ☒ | ☐ | * |
| 19. Was this claim filed on time, or was an extension granted? | ☒ | ☐ | * |
| 20. Is the fee enclosed correct? | ☒ | ☐ | * |
| 21. If this claim is based on an existing water right, has the identification number been entered? | ☒ | ☐ | * |
| 22. Should this claim be data entered? | ☒ | ☐ | * |

Claim checked by: ESVDate: 1-16-91

Claim must be returned to claimant:

☐ (Yes) ☒ (No)

Claimant must be notified of modifications:

☐ (Yes) ☒ (No)

Receipt Prepared by:

Claim data entered by:

Sent to claimant by:

Date:

Date:

Date:

Checked by:

Date:

Comments:

* 10 MR. Sloan didn't return the map sent w/ 1/8/91 Correspondence.
Recommend splitting area b/t two parties and require field exam
to determine exact split.

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DEC 14 1992



SLOAN RANCHES

7945 ALISO CYN. RD.

SANTA PAULA, CA 93060

(805) 647-9374

Custer/Lemhi

12.18.89

Carter:

I Thank you for sending me all the papers to fill out for my little Sloan B+E Ranch in Idaho. I made a copy of the two deeds for you and hope I filled the water rights out so you can make heads or tails of them. I am also sending a check for ~~50~~ fifty dollars to cover my water rights. I thank you for all the help.

So long,

"Bud" A. E. Sloan Sr

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DEC 14 1992

WARRANTY DEED

For Value Received , I, JUNE ZIEGLER, a widow

the grantor , do hereby grant, bargain, sell and convey unto

A. E. SLOAN, SR. and ELISIE M. SLOAN, husband and wife,
whose current address is 7945 Aliso Canyon Rd, Santa Paula, CA

the grantee^s , the following described premises, in Custer County Idaho, to wit:

Section 8, Township 15 N. R. 21 E., BM. Custer
County, Idaho, Fraction of NW $\frac{1}{4}$ NW $\frac{1}{4}$

8.33 acres approximately

All of the NW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 8, lying South of the
Pahsimeroi River in Custer County, Idaho

The above conveyance is made free and clear of all other
encumbrances except: Rights of Way and easements,
reservations in Federal patents and state deeds,
o other restrictions imposed by law, building and use
restrictions of record, building and zoning regulations
and ordinances of any governmental unit.

TO HAVE AND TO HOLD the said premises, with their appurtenances unto the said Grantees ,
their heirs and assigns forever. And the said Grantor do hereby covenant to and
with the said Grantee s, that she is the owner in fee simple of said premises ; that they are free
from all incumbrances

and that she will warrant and defend the same from all lawful claims whatsoever.

Dated: January 5, 1988

JUNE ZIEGLER

STATE OF IDAHO, COUNTY OF Bannock
On this 5th day of January 1988 ,
before me, a notary public in and for said State, personally
appeared JUNE ZIEGLER

known to me to be the person whose name is
subscribed to the within instrument, and acknowledged to
me that she executed the same.

Notary Public
Residing at Pocatello, Idaho
Comm. Expires 10 October 1988

188029

CUSTER COUNTY

REQUEST OF

Bill Allen

'88 JAN 13 PM 1 41

ETHEL M. PECK, CLERK

M. Thompson, DEPUTY

FFEE \$300

WARRANTY DEED

For Value Received EIGHTY THOUSAND AND NO/100 (\$80,000.00) DOLLARS

FORD ZIEGLER and JUNE W. ZIEGLER, husband and wife

the grantors do hereby grant, bargain, sell and convey unto

A. E. SLOAN, SR. and ELSIE M. SLOAN, husband and wife

whose current address is 7945 Aliso Canyon Rd.
Santa Paula, California 93060.

the grantee is, the following described premises, in Lemhi County Idaho, to wit:

T-97 NE4NW4 LESS T-1570 T-1757

8 15 21

Together with all improvements located thereon or appurtenant thereto.

The above conveyance is made free and clear of all other encumbrances except: Rights-of-Way and easements, reservations in Federal patents and State deeds, or other restrictions imposed by law, building and use restrictions of record, building and zoning regulations and ordinances of any government unit.

TO HAVE AND TO HOLD the said premises, with their appurtenances unto the said Grantee their heirs and assigns forever. And the said Grantors do hereby covenant to with the said Grantees, that they are the owner s in fee simple of said premises; that they are f from all incumbrances

and that t hey will warrant and defend the same from all lawful claims whatsoever.

Dated: This 1st day of April, 1986

FORD ZIEGLER
JUNE W. ZIEGLER

STATE OF IDAHO, COUNTY OF LEMHI--SS
On this 1st day of April, 1986,
before me, a notary public in and for said State, personally appeared

FORD ZIEGLER

known to me the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

Notary Public

Residing at Salmon
Comm. Expires 1988

State of Idaho
County of Lemhi ss No 1822660

This instrument was filed for record at the request of Ford W. Ziegler and duly filed and indexed in the records of Lemhi County.

A. E. SLOAN, SR. Recorder

Deputy



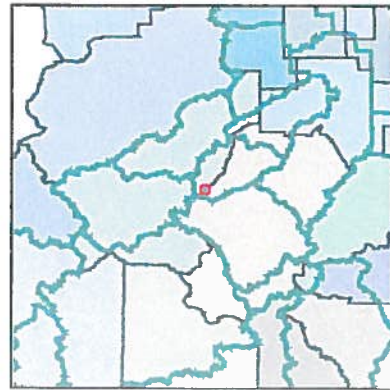
Idaho Department of Water Resources

SRBA Recommendation:

73-111A

Legend

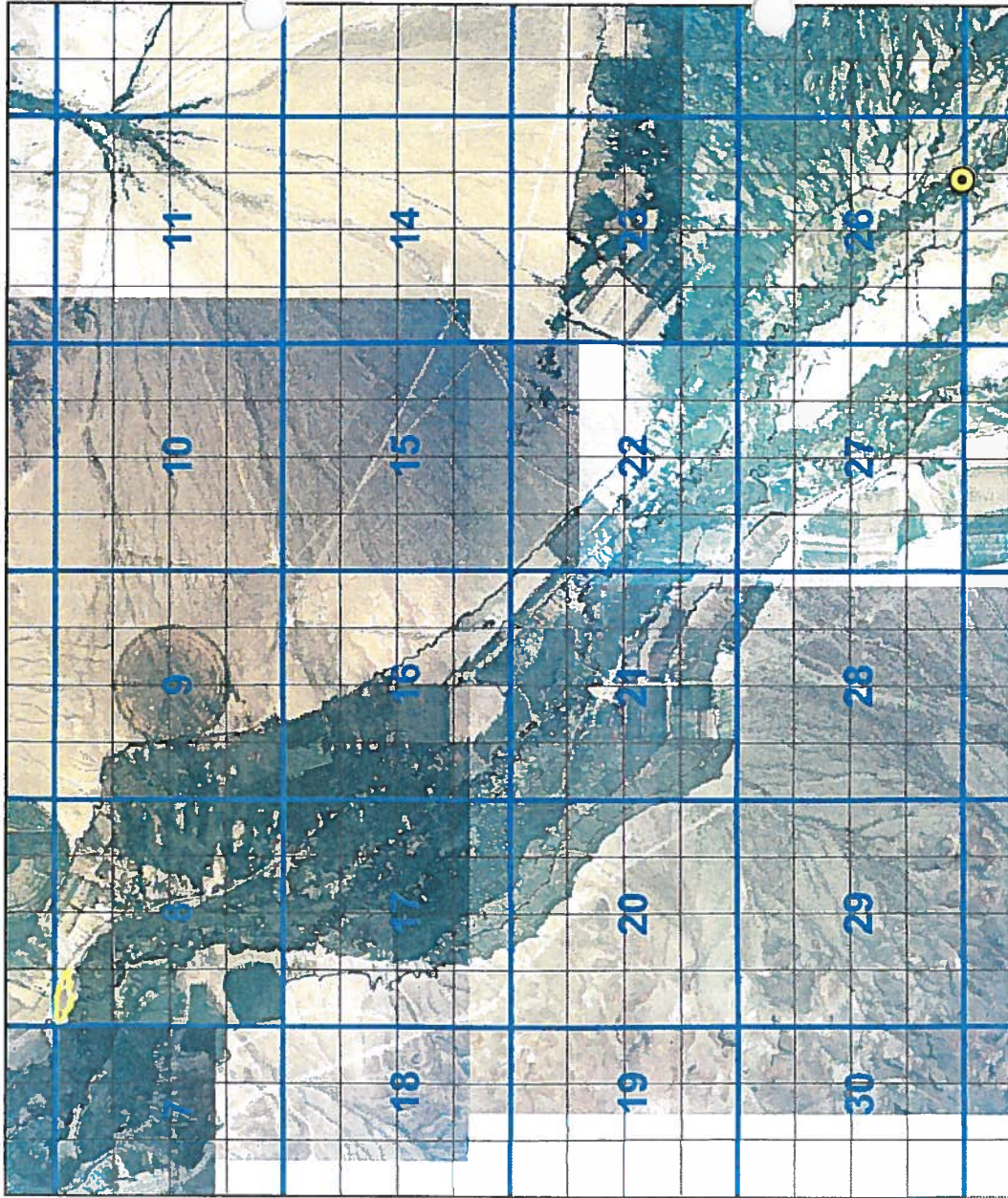
- Point of Diversion
- Place of Use
- Townships
- PLS Sections
- Quarter Quarters



Lemhi, Custer Counties
IDWR Basin 73



R21E

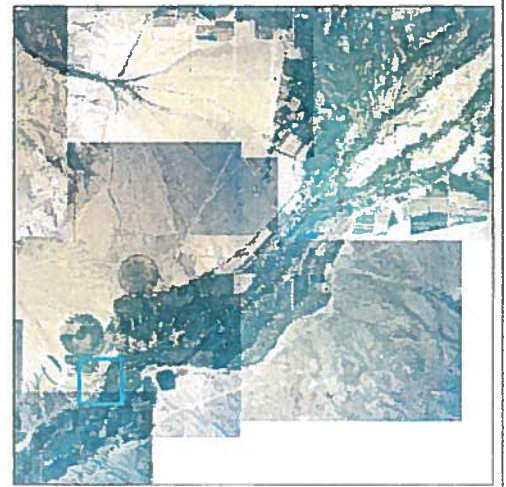
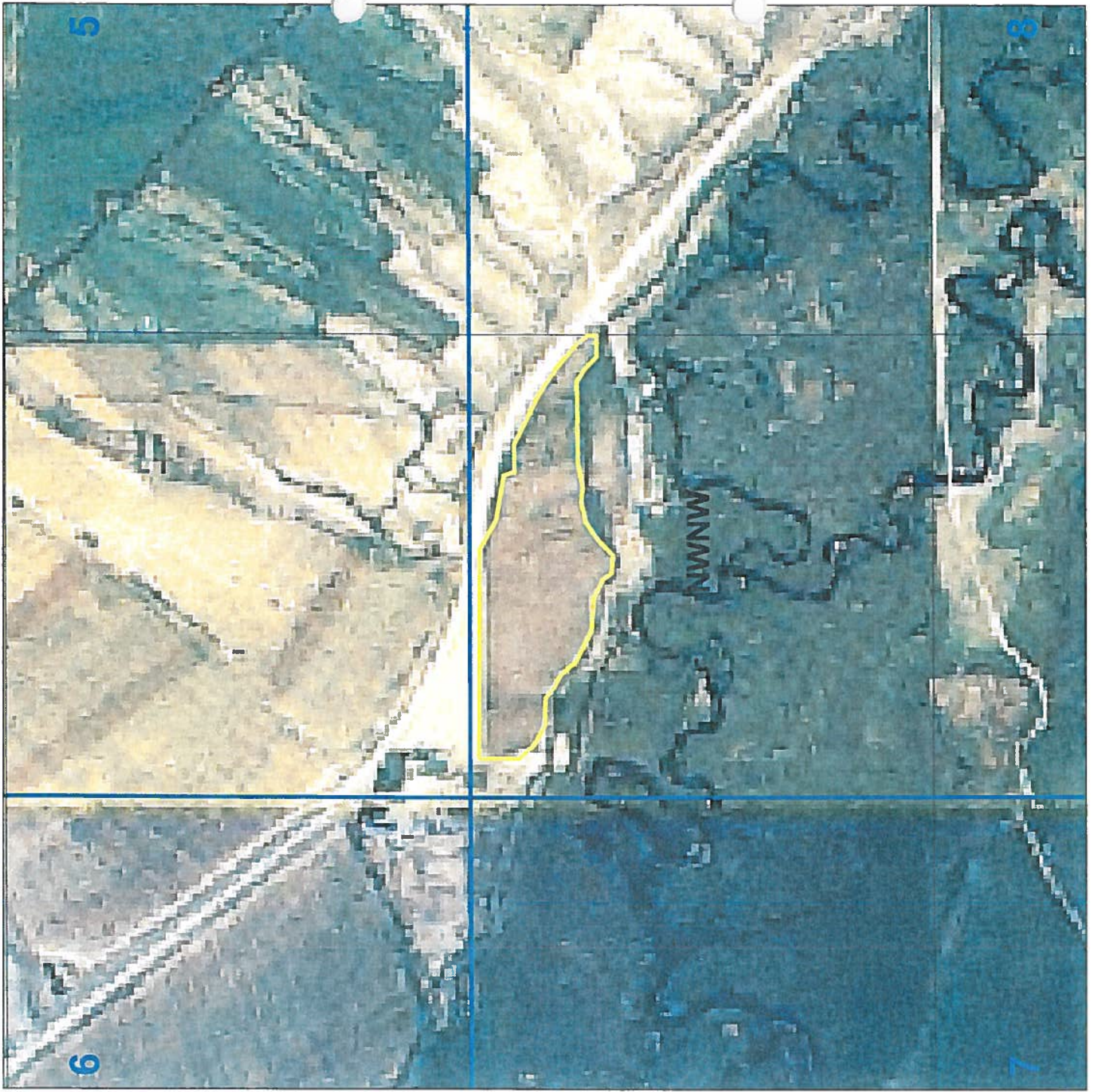


T15N

0 2 4 Miles

0

Prepared by R. Brown
On Thursday, May 18, 2006
1987/88 Aerial Photography



73-111A

ESTIMATING CONVEYANCE LOSS

enter or enter ditch

Formula:

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

where:

S is loss in cfs per mile

W is the top width of the high water mark in feet

i is 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

Worksheet:

$$S = (\underline{4.5} \text{ 'ft}) (\underline{2} \text{ ft/day}) (0.0667)$$

$$S = \underline{0.60} \text{ cfs/mi}$$

$$\text{Conveyance loss} = (S)(\text{length of ditch in miles})$$

$$\text{Conveyance loss} = (\underline{0.60} \text{ cfs/mi}) (\underline{3.6} \text{ mi})$$

$$\text{Conveyance loss} = \underline{2.16} \text{ cfs}$$