

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: A72-00149
Date Received: 11/15/1989
Receipt No: _____
Received By: _____

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

1. Name: NYLE J. THORNOCK 208-879-4472
Address: BOX 570
CHALLIS, ID 83226

AND/OR

Name: SHIRLEY ANN THORNOCK 208-879-4472
Address: BOX 570
CHALLIS, ID 83226

2. Date of Priority: MAY 01, 1907

3. Source: MORGAN CREEK Trib. to: SALMON RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
15N	19E	23	SE	NE	SE		CUSTER

5. Description of diverting works:
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	0.800		

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

8. Total consumptive use is 125.0 Acre Feet Per Annum.

9. Non-irrigation uses:

A72-00149

Page

1

Date: 11/15/89

MICROFILMED
MAR 18 1993

10. Place of Use:

Township	Range	Section	1/4 of 1/4	Lot	Use	Acres
15N	19E	24	NW	SW	IRR	32.0
			SW	SW	IRR	18.0
					Section Acres	50.0
					Total Acres	50.0

11. Place of use in counties: CUSTER

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

13. Other Water Rights Used:
72-0150

14. Remarks:

15. Basis of Claim: DECREED

Case Number:

Court :

Decree date:

IVAN HUGHES ET AL
Decree Plaintiff

vs

VAL JONES ET AL
Decree Defendant

Point of Diversion

CHALLIS SW QUADRANGLE
IDAHO—CUSTER CO.
7.5 MINUTE SERIES

R19E R20E

(CHALLIS NW)





Prepared by UNITED STATES DEPARTMENT of AGRICULTURE * SOIL CONSERVATION SERVICE
cooperating with

Custer Soil Conservation District
S.C. DISTRICT

OWNER Nyle Thonrock

OPERATOR

Custer
COUNTY

Idaho
STATE

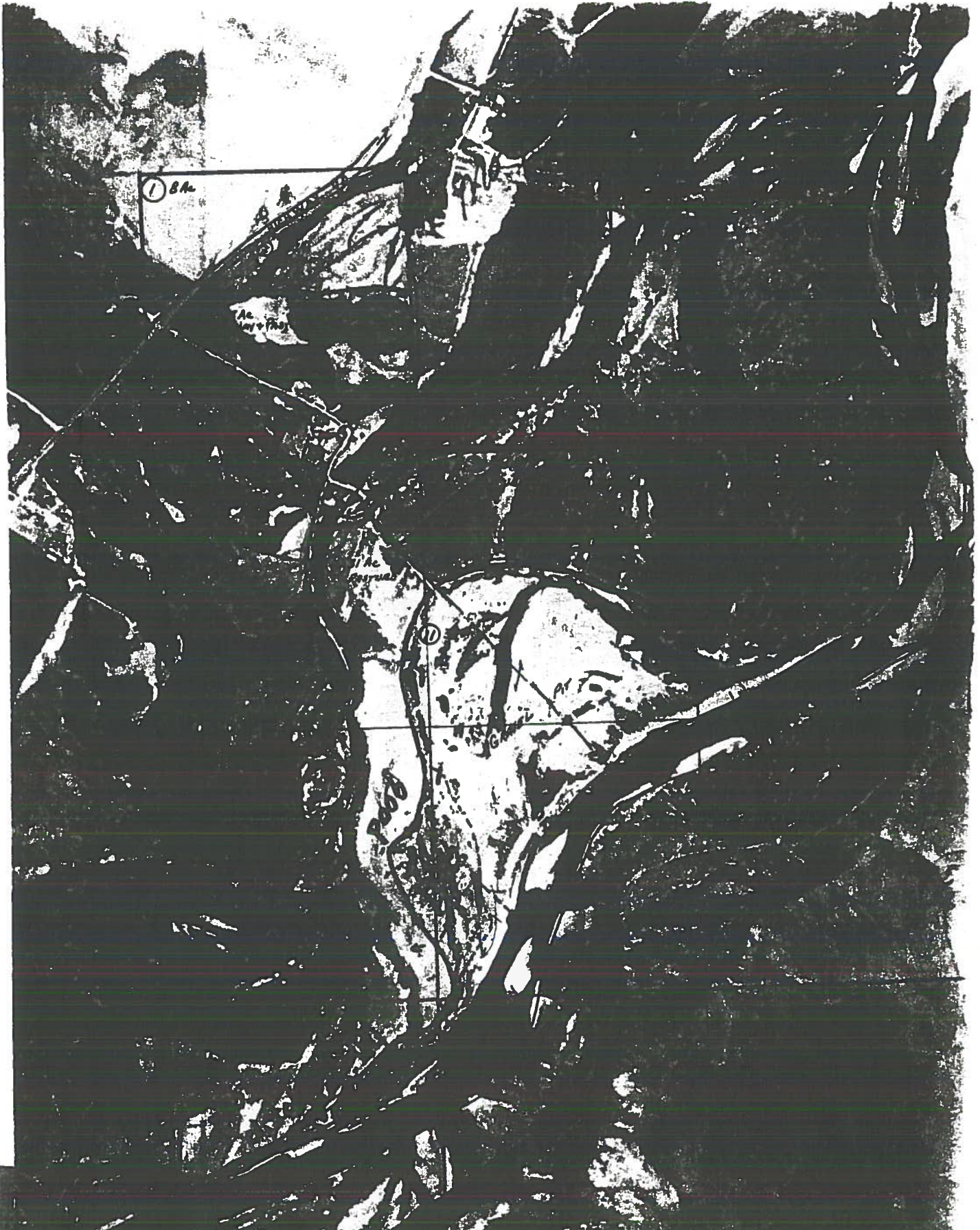
FARM NO.

DATE 6-68

SCALE 8" = 1 mi

ACRES 223

PHOTO NO. EVQ-19W-83
APPROXIMATE



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: 2 maps

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 Mike J Thorne Date: 11-15-89

Date: _____

State of Idaho)
County of Custer) SS.

Subscribed and sworn (or affirmed) before me this 15th day
of November 19 89

Helen Harrington
Notary Public

Seal

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

Water Right Number - R72-00149

Prefix Translation:

RESEARCH

Old (D) Number -

+ - - - - Last Name - - - - + + - First Name - - + + - - - - - Address - - - - -

*** C - CURRENT OWNER ***
THORNOCK

NYLE J

1 - PO BOX 570
2 -
3 -

State- ID Zip- 83226

THORNOCK

SHIRLEY ANN

City- CHALLIS
Phone - 208-879-4472
1 - PO BOX 570
2 -
3 -
City- CHALLIS
Phone - 208-879-4472

State- ID Zip- 83226

+ - - Priority Date - - + + - - - Region - - - + + - - - Stage - - - + + - - - Status - - - +
05/01/1907 17 SOUTHERN D - DECREED

+ - - - - Source - - - - - + + - - - - Tributary - - - - -
MORGAN CREEK SALMON RIVER

+ - - - - Point of Diversion - - - - -
Twn Rng Sec Tract Lot Rflg County
15N 19E 23 SE NE SE (37) CUSTER

+ - - - - Water Use - - - - - Diversion Rate Diversion Volume
Code Description Period From Period To
01 - IRRIGATION 04/01 10/31 0.800

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Consumptive Use - + + - KW Usage - +
0.800 0.0

+ - - - - Place of Use - - - - -
Twn Rng Sec Tract Lot Acres Code Description County
15N 19E 24 NW SW 29.4 01 IRRIGATION (37) CUSTER
15N 19E 24 SW SW 14.0 01 IRRIGATION (37) CUSTER
Total Acres: 43.4

+ - - Diversion Means - HEADGATE & DITCH

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - 72-00150, 72-16273 & 72-04031

+ - - - - Remarks - - - - -

POU1 USE OF THE RIGHTS LISTED BELOW ARE LIMITED TO THE IRRIGATION
OF A COMBINED TOTAL OF 43.4 ACRES IN A SINGLE IRRIGATION SEASON.
COMBINED RIGHT NOS. 72-00149, 72-00150, 72-16273 & 72-04031.

Prefix Translation: RESEARCH

EXP THE FOLLOWING RIGHTS ARE DIVERTED THROUGH THE POINT OF
DIVERSION DESCRIBED ABOVE. RIGHT NOS. 72-00149, 72-00150, AND
72-16273.

Conditions of Approval

THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF WATER

- THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF WATER
- IN BASIN 72 SHALL BE ADMINISTERED SEPARATELY FROM ALL OTHER WATER
- RIGHTS IN THE SNAKE RIVER BASIN:

WATER RIGHT NO.	SOURCE
NONE	NONE
ALL WATER RIGHTS WITHIN BASIN 72 ARE FROM CONNECTED SOURCES	
OF WATER IN THE SNAKE RIVER BASIN AND SHALL BE ADMINISTERED	
CONJUNCTIVELY.	

```

+-----+-----+-----+-----+-----+-----+-----+-----+
Date: 11/21/1998 User Id: AUJ10-DS Subject: AUJ10 CONDITION UPDATE
CONDITION CODE(S) C16 ADDED IF NOT ALREADY PART OF RECORD THRU AUJ10.

```

+-----Adjudication Rights Dates and Flags Area-----+

Court Report Filing	- 01/29/1999	Field Inspection Made	- 08/16/1993	Civil Case Number	-	39576
Objection Filed Date	- 06/02/1999	Field Inspection Flag	-	Old Case Number	-	
Response Filed Date	- 00/00/0000	Verified Date	- 00/00/0000	Old Judicial District	-	
Claim Received Date	- 11/15/1989	Last Amended Date	- 00/00/0000	Temporary Right	- P	
		Receipt Number	- X777777	Water District	- 72F	
		POU Ownership Flag	- Y	Federal/State Indicator	- S	
		Name Connector	- AND/OR	Presumption Flag	-	
				Notice of Error Flag	-	

Christensen, Kelly

From: Christensen, Kelly
Sent: Wednesday, December 29, 1999 10:54 AM
To: Denniston, Sara
Subject: SF5 THORNOCK 72-00149, 150, 4031, AND 16273

I created R records today (12-29-99) for the above listed claims. I changed the place of use by deleting the 0.4 acres in the SWSW and transferring them to the NWSW. I added the court dates and field exam dates back into the dates and flags fields.

Attached is a layout showing the changes made in GIS corresponding to the settled changes.

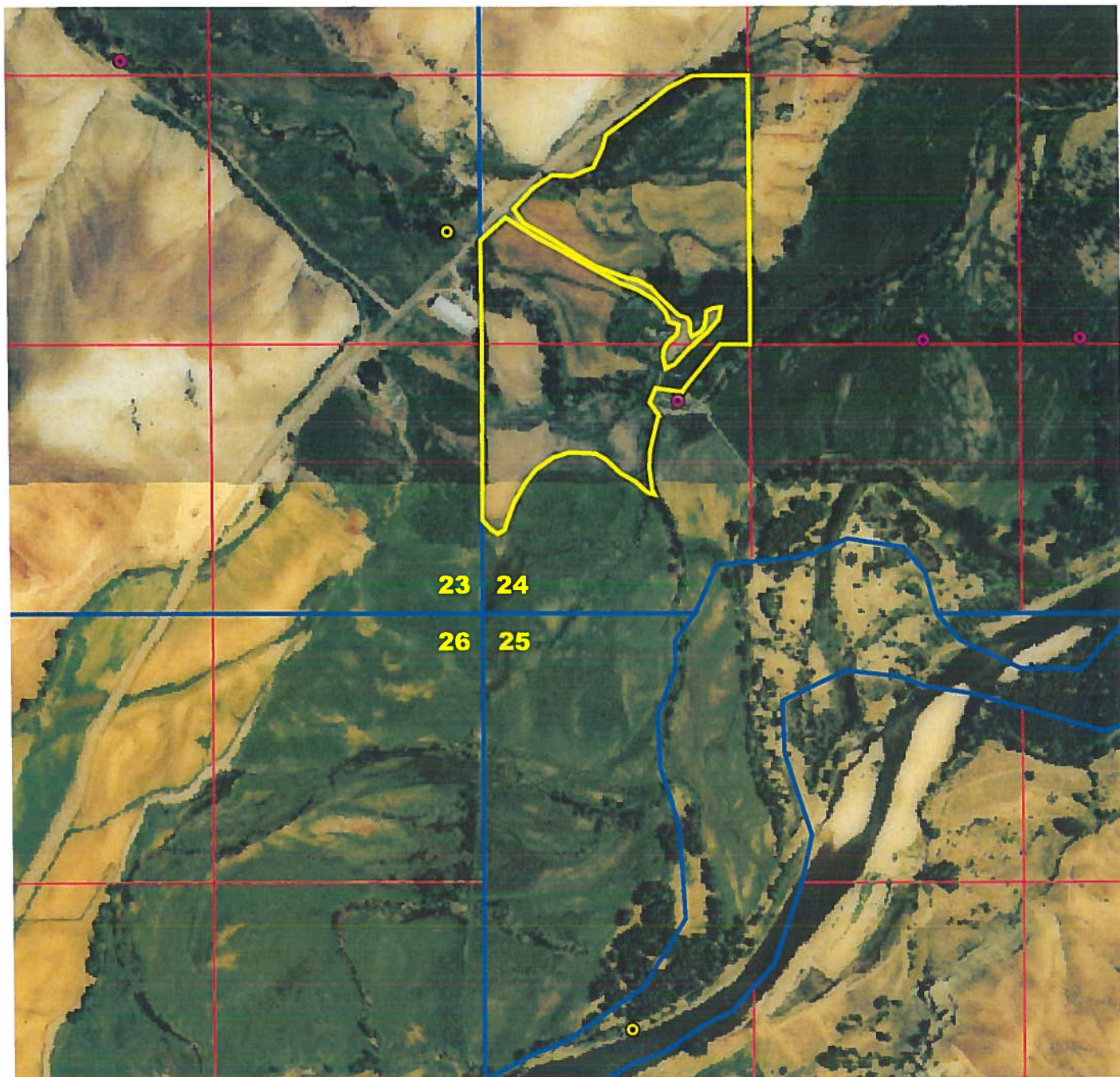


72-00149 sf5 p-u
thornock.jpg

I believe that this is all that is required for this set. Let me know if I missed something.

Kelly K Christensen

**RECOMMENDED PLACE OF USE
BASED UPON SETTLEMENT CONFERENCE
HELD 11-30-99**



**RECOMMENDED PLACE OF USE
TWP 15N, RNG 19E, SEC 24
Data Entry on December 29, 1999**



- RECOMMENDED POINT OF DIVERSION**
- RECOMMENDED PLACE OF USE**
- SECTION LINES**
- QUARTER/QUARTER LINES**

**GIS PLACE OF USE PRESENTATION
1992 USDA-F AERIAL PHOTOGRAPHY
DATA ENTRY BY KELLY K CHRISTENSEN**

CLAIM NUMBER
72-04031 }
Salmon }
Source }

72-00149 } Morgan Cr
72-00150 } Source
72-16273 }

DATE 12-29-99
AGENT KKC

TRANSFER NUMBER
CLAIMED ACRE TOTAL 50
GIS ACRE TOTAL 43.4

	TWP	RNG	SEC	NE				NW				SW				SE			
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
CLAIM	15N	19E	24							-0-			32	18					
GIS										-0-			29.2	13.9					
RECOM										-0-			29.4	14					43.4
CLAIM																			
GIS																			
RECOM																			
CLAIM																			
GIS																			
RECOM																			
CLAIM																			
GIS																			
RECOM																			

B72-DBPOU.SHP
SHAPE NOS.
136

A settlement was reached on 11-30-99 dropping 0.4 acres Recommended in SWNW of Sec 24 and finding an additional 0.4 acres within the NWSW of Sec 24.

No Change to P/D's.

B72-DBPOD.SHP
NOS. DESCRIPTION
51 Sec 23
SENESE Morgan Cr Source

46 Sec 25
SESWNW Salmon River Source

DBF TABLES UPDATED
B72-DBPOU.DBF
B72-DBPOD.DBF

Layout Created - 72-00149 SF5 P-U thornock
12-29-99

RECEIVED

DEC 6 1999

Department of Water Resources

DISTRICT COURT SRBA
FIFTH JUDICIAL DISTRICT
COUNTY OF TWIN FALLS, STATE OF IDAHO

NOV 30 1999

BY _____
CLERK

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

In Re SRBA) Subcase No. 72-00149
)
)
) Standard Form 5
)
)
) STIPULATED ELEMENTS
) OF A WATER RIGHT

This form is used to report the stipulated elements of one water right acquired under state law and/or one federal reserved water right. Submission of this form will not automatically result in the issuance of a partial decree. The Presiding Judge or Special Master will conduct any hearing necessary to determine the facts, date, expert opinions and law supporting the issuance of a partial decree for the water right.

The parties agree that the Snake River Adjudication Court has jurisdiction of the parties and subject matter to enter a partial decree for this water right; that they have been served with sufficient process, according to the law; and that they have appeared, prosecuted, and defended their positions with regard to this water right dispute.

The parties and IDWR agree and stipulate that the elements of this water right should be described per the attached. The parties and IDWR have further indicated their concurrence by initialing each of the attached pages.

CLAIMANT:

Nyle J. Thornock
Shirley Ann Thornock

OBJECTOR:

United States on behalf of the
Bureau of Land Management

Nyle J. Thornock 11-30-99
Nyle J. Thornock Date

Shirley Ann Thornock 11-30-99
Shirley Ann Thornock Date

IDWR CONCURRENCE:

Steve [Signature] 11/30/99
Date

Larry A. Brown 11/30/99
Larry A. Brown FWP Date
Attorney, U.S. Department of Justice
Environment and Natural Resources Div.

IDWR CONCURRENCE:

Wade Spencer 11-30-99
DEPUTY ATTORNEY GEN'L Date

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHTS FROM: SOURCE: MORGAN CREEK TRIBUTARY: SALMON RIVER

RIGHT NUMBER: 72-00149

NAME & ADDRESS: NYLE J THORNOCK
SHIRLEY ANN THORNOCK
PO BOX 570
CHALLIS ID 83226

SOURCE: MORGAN CREEK TRIBUTARY: SALMON RIVER

QUANTITY: 0.8 CFS

PRIORITY DATE: 05/01/1907

POINT OF DIVERSION: T15N R19E S23 SENESE Within CUSTER County

PURPOSE AND PERIOD OF USE: PURPOSE OF USE PERIOD OF USE QUANTITY -
IRRIGATION 04-01 10-31 0.8 CFS

PLACE OF USE: IRRIGATION Within CUSTER County
T15N R19E S24 ~~S24~~ NWSW 29 29.4
Lot 7 (SWSW)14
43.4 ACRES TOTAL

NBS
sc 10.2.

USE OF THE RIGHTS LISTED BELOW ARE LIMITED TO THE
IRRIGATION OF A COMBINED TOTAL OF 43.4 ACRES IN A SINGLE
IRRIGATION SEASON. COMBINED RIGHT NOS. 72-00149, 72-00150,
72-16273 & 72-04031.

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

THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF
WATER IN BASIN 72 SHALL BE ADMINISTERED SEPARATELY FROM ALL
OTHER WATER RIGHTS IN BASIN 72:

WATER RIGHT NO. SOURCE
NONE NONE

THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF
WATER IN BASIN 72 SHALL BE ADMINISTERED SEPARATELY FROM ALL
OTHER WATER RIGHTS IN THE SNAKE RIVER BASIN:

WATER RIGHT NO. SOURCE
NONE NONE

ALL WATER RIGHTS WITHIN BASIN 72 ARE FROM CONNECTED
SOURCES OF WATER IN THE SNAKE RIVER BASIN AND SHALL BE
ADMINISTERED CONJUNCTIVELY.

EXPLANATORY MATERIAL: BASIS OF CLAIM - DECREE

THE FOLLOWING RIGHTS ARE DIVERTED THROUGH THE POINT OF
DIVERSION DESCRIBED ABOVE. RIGHT NOS. 72-00149, 72-00150, AND
72-16273.

NBS *1/12*

SC *✓*
A.D.J.

FWP
1/3

CERTIFICATE OF MAILING

I certify that on 11-30, 1999, I mailed the original and copies of this form, including all attachments, postage prepaid and addressed as follows:

1. Original to:

Clerk of the District Court
Snake River Basin Adjudication
253 Third Avenue North
P. O. Box 2707
Twin Falls, Idaho 83303-2707

2. Copy to:

Idaho Department of Water Resources
Adjudication Bureau
1301 North Orchard Street
Boise, Idaho 83706

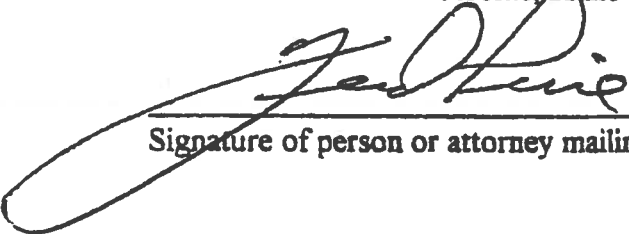
IDWR Document Depository
P. O. Box 83720
Boise, Idaho 83720-0098

3. Copies to all parties to the subcase (insert names and addresses):

U.S., Department of Justice
Environment and Natural Resources Division
General Litigation Section
550 West Fort Street, MSC 033
Boise, Idaho 83724

Nyle J. and Shirley Ann Thornock
P. O. Box 570
Challis, Idaho 83226

Patrick D. Brown, PC
109 S. Adams St.
Jerome, Idaho 83338



Signature of person or attorney mailing the form

RECEIVED

JUN 29 1999

Department of Water Resources
Southern Region

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

In Re SRBA

Case No. 39576

A. Subcase 72-00149

(Insert water right number)

STANDARD FORM 1
OBJECTION

Please fill in the following information:

B. NAME AND ADDRESS OF PERSON OBJECTING

Name: United States of America acting through the Department of Interior,
Bureau of Land Management, Idaho State Office

Address: 1387 South Vinnell Way
Boise, Idaho 83709-1657

Daytime Phone: see below

Name & Address of Attorney, if any:

Larry A. Brown 208 387-0835; R. Lee Leininger, 202 305-0242; Paul F. Holleman, 202 305-0494
United States Department of Justice; Environment and Natural Resource Division; General Litigation Section
550 West Fort Street, MSC 033; Boise, Idaho 83724

C. CLAIMANT OF WATER RIGHT AS LISTED IN DIRECTOR'S REPORT

Name: Nyle J & Shirley Ann Thornock

Address: PO box 570 Challis, ID 83226

Name:

Address:

Name:

Address:

Name:

Address:

D. I object to the following elements as recommended in the Director's Report. (Please check the appropriate box(es)).

1. ☐ **Name and Address**
Should be: _____
2. ☐ **Source**
Should be: _____
3. ☐ **Quantity**
Should be: _____
4. ☐ **Priority Date**
Should be: _____
5. ☐ **Point(s) of Diversion**
Should be: _____
6. ☐ **Instream Flow Description**
Should be: _____
7. ☐ **Purpose(s) of Use**
Should be: _____
8. ☐ **Period of Year**
Should be: _____
9. ☒ **Place of Use**
Should be: See attached

11. **I object because:**

- ☐ This water right should not exist.
- ☐ This water right was not recommended, but should be recommended with the elements described above.

E. REASONS SUPPORTING OBJECTION(S):

The United States of America, through the Bureau of Land Management, is the owner of the land upon which use is claimed. The claimant's use of Federal land is unauthorized. See attached POU. Claimant's water right should not include this POU.

F.

VERIFICATION (Must be Completed)

State of Idaho)

) ss.

County of Ada)

Gary A. Madenford, Water Rights Team Leader, duly sworn, upon oath, deposes and says:
(Name of person filing objection)

That I am the party/claimant filing this objection, as defined by I.C. §§ 42-1401A(1) and (6) or that I am the attorney for the party/claimant objecting and that I have read this objection, know its contents and believe that the statements are true to the best of my knowledge.

Gary A. Madenford
(Signature of person filing objection)

Carry G. Brown
(Attorney signing in representative capacity)

Subscribed and sworn to before me on: June 1, 1999

John W. Thornburgh

Notary Public for Idaho

Residing at: Boise

My Commission Expires: 05-16-2003

INSTRUCTIONS FOR MAILING

You must mail the objection, to the Clerk of the Court. **FAX filings will not be accepted.** You must also send a copy to all the parties listed below in the Certificate of Mailing.

G. CERTIFICATE OF MAILING

I certify that on June 2nd, 1999, I mailed the original and copies of this objection, including all attachments, to the following persons:

1. Original to:

Clerk of the District Court
Snake River Basin Adjudication
253 Third Avenue North
P.O. Box 2707
Twin Falls, ID 83303-2707

2. One copy to the claimant of the water right at the following address:

Name: Nyle J & Shirley Ann Thornock
Address: PO box 570 Challis, ID 83226
Name:
Address:
Name:
Address:
Name:
Address:

3. Copies to:

IDWR Document Depository
PO Box 83720
Boise, ID 83720-0098

United States Department of Justice
Environment and Natural Resource Division
550 West Fort Street, MSC 033
Boise, ID 83724

Chief, Natural Resources Division
Office of the Attorney General
State of Idaho
PO Box 44449
Boise, ID 83711-4449


Signature of Objector or attorney mailing on Objector's behalf

AJ5856NP

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

DATE: JAN-26-1999
PAGE: A-541

RIGHTS FROM: SOURCE: MORGAN CREEK TRIBUTARY: SALMON RIVER

RIGHT NUMBER: 72-00149

NAME & ADDRESS: NYLE J THORNOCK
SHIRLEY ANN THORNOCK
PO BOX 570
CHALLIS ID 83226

-POU ON BLM; UNAUTHORIZED USE

SOURCE: MORGAN CREEK TRIBUTARY: SALMON RIVER

QUANTITY: 0.8 CFS

PRIORITY DATE: 05/01/1907

POINT OF DIVERSION: T15N R19E S23 SENESE ✓ Within CUSTER County

PURPOSE AND PERIOD OF USE:	PURPOSE OF USE IRRIGATION	PERIOD OF USE 04-01 10-31	QUANTITY 0.8 CFS
----------------------------	------------------------------	------------------------------	---------------------

PLACE OF USE: IRRIGATION Within CUSTER County
T15N R19E S24 SWNW 0.4 BLM NWSW 29 ✓ Lot 7 (SWSW)14 ✓
43.4 ACRES TOTAL

USE OF THE RIGHTS LISTED BELOW ARE LIMITED TO THE IRRIGATION
OF A COMBINED TOTAL OF 43.4 ACRES IN A SINGLE IRRIGATION SEASON.
COMBINED RIGHT NOS. 72-00149, 72-00150, 72-16273 & 72-04031.

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

THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF WATER
IN BASIN 72 SHALL BE ADMINISTERED SEPARATELY FROM ALL OTHER WATER
RIGHTS IN BASIN 72:

WATER RIGHT NO.	SOURCE
NONE	NONE

THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF WATER
IN BASIN 72 SHALL BE ADMINISTERED SEPARATELY FROM ALL OTHER WATER
RIGHTS IN THE SNAKE RIVER BASIN:

WATER RIGHT NO.	SOURCE
NONE	NONE

ALL WATER RIGHTS WITHIN BASIN 72 ARE FROM CONNECTED SOURCES
OF WATER IN THE SNAKE RIVER BASIN AND SHALL BE ADMINISTERED
CONJUNCTIVELY.

EXPLANATORY MATERIAL: BASIS OF CLAIM - DECREE

AJ5856NP

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

DATE: JAN-26-1999
PAGE: A-542

RIGHTS FROM:	SOURCE: MORGAN CREEK	TRIBUTARY: SALMON RIVER
RIGHT NUMBER:	72-00149	(CONT)

EXPLANATORY MATERIAL: (CONT)

THE FOLLOWING RIGHTS ARE DIVERTED THROUGH THE POINT OF
DIVERSION DESCRIBED ABOVE. RIGHT NOS. 72-00149, 72-00150, AND
72-16273.

November 20, 1998

**NOTICE OF ERROR
REPLY**

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

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

YOUR DEADLINE FOR RETURNING A NOTICE OF ERROR REPLY IS: December 18, 1998

Water right number: 72-00149

NYLE J THORNOCK
SHIRLEY ANN THORNOCK
PO BOX 570
CHALLIS ID 83226

Daytime Telephone Number:

Evening Telephone Number:

1. Describe the portion of the proposed recommendation with which you disagree (e.g. priority date, period of use, source):
2. Describe the changes you wish to make in the proposed recommendation:
3. Give a brief explanation as to why you disagree with these portions:

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

DATE: 12-8-98

SIGNATURE:

Please print your name:

Nyle J Thornock

NYLE J THORNOCK

Water Right Number - R72-00149

Prefix Translation: RESEARCH

Old (D) Number -

+ - - - - Last Name - - - - + + - First Name - - + + - - - - - Address - - - - - +

*** C - CURRENT OWNER ***

THORNOCK

NYLE J

1 - PO BOX 570

2 -

3 -

City- CHALLIS

State- ID Zip- 83226

Phone - 208-879-4472

THORNOCK

SHIRLEY ANN

1 - PO BOX 570

2 -

3 -

City- CHALLIS

State- ID Zip- 83226

Phone - 208-879-4472

VERIFIED BY KKC
11-3-98+ - - Priority Date - - + + - - Region - - - + + - - Stage - - - + + - - Status - - - +
05/01/1907 17 SOUTHERN D - DECREED+ - - - - Source - - - - + + - - - - - Tributary - - - - - +
MORGAN CREEK SALMON RIVER+ - - - - Point of Diversion - - - - - +
Twn Rng Sec Tract Lot RFlg County Diversion Name15N 19E 23 SE NE SE ⁶⁰⁵ 51 (37) CUSTER+ - - - - Water Use - - - - - +
Code Description Period From Period To Diversion Rate Diversion Volume
01 - IRRIGATION 04/15 10/15 0.800+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Div. Capacity - + + - Total Consumptive Use - + + - KW Usage - +
0.800 0.0+ - - - - Place of Use - - - - - +
Twn Rng Sec Tract Lot Acres Code Description County

15N 19E 24 SW NW 0.4 01 IRRIGATION (37) CUSTER

15N 19E 24 NW SW 29.0 01 IRRIGATION (37) CUSTER

15N 19E 24 SW SW 7 14.0 01 IRRIGATION (37) CUSTER

Total Acres: 43.4

605
136

+ - - Diversion Means - HEADGATE & DITCH

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - 72-00150, 72-16273 & 72-04031

+ - - - - Remarks - - - - - +

POU1 USE OF THE RIGHTS LISTED BELOW ARE LIMITED TO THE IRRIGATION
OF A COMBINED TOTAL OF 43.4 ACRES IN A SINGLE IRRIGATION SEASON.
COMBINED RIGHT NOS. 72-00149, 72-00150, 72-16273 & 72-04031.

Water right number - R72-00149

Prefix Translation: RESEARCH

+ - - - - Remarks - - - - - +

EXP THE FOLLOWING RIGHTS ARE DIVERTED THROUGH THE POINT OF
DIVERSION DESCRIBED ABOVE. RIGHT NOS. 72-00149, 72-00150, AND
72-16273.

POST
find rights to
area

+ - - - - Old Water Right Numbers - - - - - +

No Old Water Right Numbers found.

+ - - - - Conditions of Approval - - - - - +

No Conditions of Approval found.

+ - - - - Decree Plaintiff - - - +

IVAN HUGHES ET AL

+ - - - - Decree Defendant - - - +

VAL JONES ET AL

+ - Decree Date - +

05/02/1935

+ - - Audit Fields - 11/13/92 CLELLAND 12/08/93 CHRISTEN 01/07/94 CHRISTEN 03/30/95 POST-STD 10/07/98 KCHRISTE

+ - - - - Comments - - - - - +

No Comments Found

+ - - - - Adjudication Rights Dates and Flags Area - - - - - +

Court Report Filing	- 00/00/0000	Field Inspection Made	- 08/16/1993	Civil Case Number	- 39576
Objection Filed Date	- 00/00/0000	Field Inspection Flag	-	Old Case Number	-
Response Filed Date	- 00/00/0000	Verified Date	- 00/00/0000	Old Judicial District	-
Claim Received Date	- 11/15/1989	Last Amended Date	- 00/00/0000	Temporary Right	- P
Proof Due Date	- 00/00/0000	Proof Made Date	- 00/00/0000	Water District	- 72F
Licensed Date	- 00/00/0000	Receipt Number	- M005223	Federal/State Indicator	- S
		POU Ownership Flag	- Y	Presumption Flag	-
		Name Connector	- AND/OR	Notice of Error Flag	-

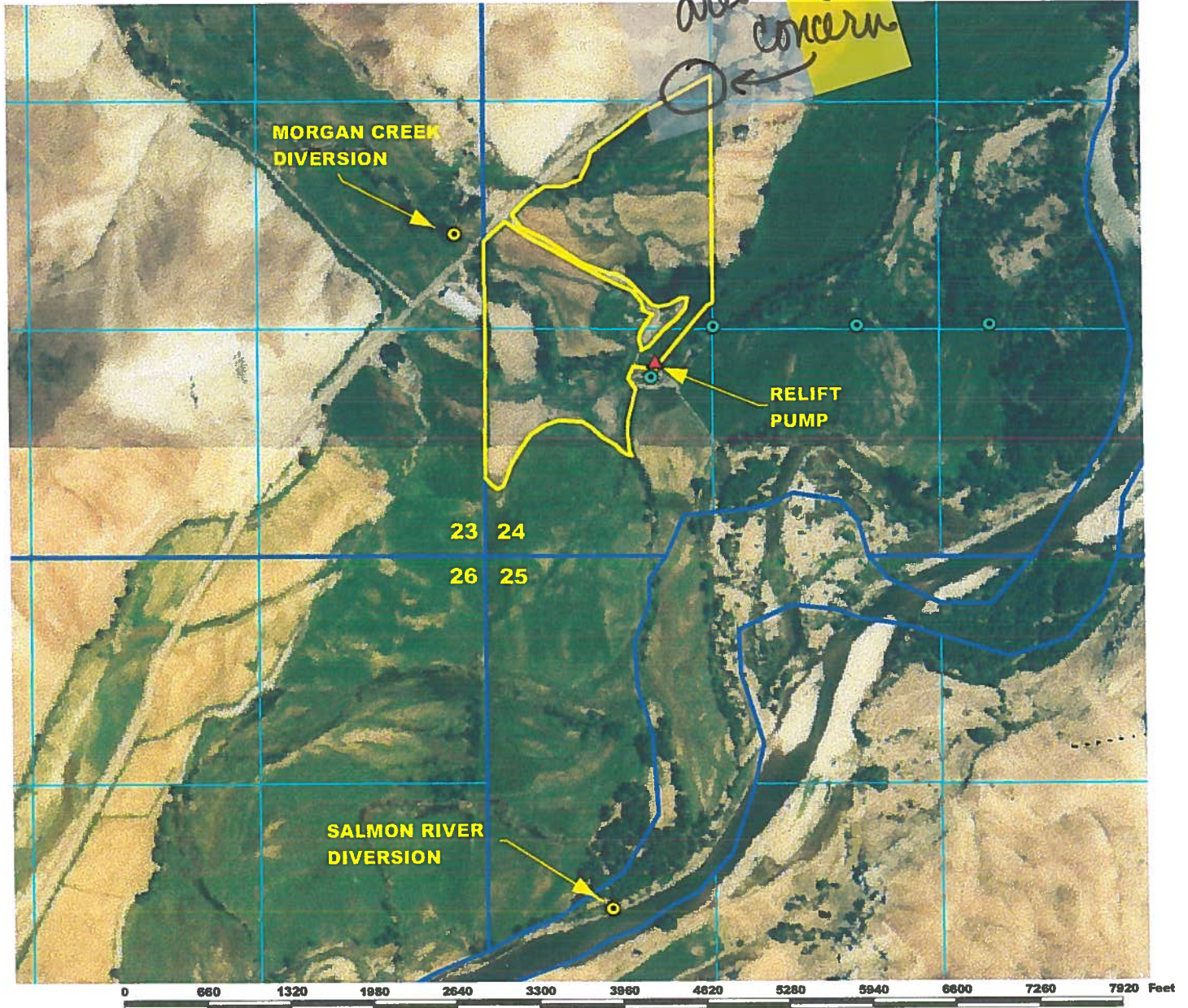
72-00149, 72-00150, & 72-16273

MORGAN CREEK RIGHTS

72-04031 SALMON RIVER RIGHT

THORNOCK

area of concern



RECOMMENDED PLACE OF USE
TWP 15N. RNG 19E, SEC 24
data entry on August 6, 1998



- REDIVERSION POINT
- RECOMMENDED POINT OF DIVERSION
- RECOMMENDED PLACE OF USE
- SECTION LINES
- QUARTER/QUARTER LINES

GIS PLACE OF USE PRESENTATION
1992 USDA-F AERIAL PHOTOGRAPHY
DATA ENTRY BY KELLY K CHRISTENSEN

AIM NUMBER

72-04031 Salmon River Right DATE 10-6-98

TRANSFER NUMBER

AGENT KKC

CLAIMED ACRE TOTAL 50

2-00149 72-00150 72-16273
Morgan Cr Right

GIS ACRE TOTAL 43.4

	TWP	RNG	SEC	NE				NW				SW				SE				
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
LAIM	15N	19E	24							0-			32	18						50
GIS										.4			28.9	13.9						
ECOM										.4			29	14						43.4
LAIM																				
GIS																				
ECOM																				
LAIM																				
GIS																				
ECOM																				
LAIM																				
GIS																				
ECOM																				

B72-DBPOU.SHP

SHAPE NOS.

136

Salmon River water is pumped from the Santee ditch to the point where the Morgan Creek water first enters the property. Therefore it irrigates all of the same P/2.

B72-DBPOD.SHP

NOS. DESCRIPTION

51 Sec 23 Morgan Cr Diversion
SE NESE

46 Sec 25 Salmon River Diversion
SE SWNW

DBF TABLES UPDATED

B72-DBPOU.DBF

B72-DBPOD.DBF

72-00149 72-00150 72-16273 (Morgan Cr.) (10-7-98)
 72-04031 Salmon River.
 Division Rate Analysis

Claimed rates

72-00149 - .8 CFS
 - 00150 .2 CFS
 - 16273 2.92 CFS
 total 3.92 CFS

Claimed rates

72-04031 1.80 CFS

Hubble Analysis Req

3.94 CFS

System Capacity

Morgan Cr 1.82 CFS
 Salmon River Pump - 2.31 CFS

Rate recommendations Morgan Cr.

72-00149 - .8 CFS
 00150 - .2 CFS
 16273 .82 CFS

System capacity - 1.82
 recom - 1.00 {00149
 dif {00150
 .82 CFS

1.82 CFS = system capacity (no comb right limit needed)

Salmon River.

72-04031 - 1.80 CFS (limit to claimed rate)

When systems are combined: Morgan Cr - 1.82

Salmon R - 1.80

3.62 CFS total

total combined rates are less than Excess flow analysis
 no comb. rate limit required.

Kelly K. Christensen

REEVALUATION OF IRRIGATION RATES BASED UPON 1997 REVISED HUBBLE ANALYSIS PROCEDURES

CLAIM NUMBERS

72-00149 72-00150
72-16273 72-04031

DATE: 10-7, 1998

REVIEWED BY KKC

CHALLIS AREA SOIL REVIEW

SOIL TYPE	BORDER CFS/AC		FURROW CFS/AC		OPTIMUM ROTATION	
	PAST	ALFA	PAST	ALFA	PASTURE	ALFALFA
ATC	.15	.13			6.49	7.62
BB1	.09	.09			6.09	6.17
BC1	.16	.17			5.82	5.46
BK1	.07	.06			10.62	11.86
BT1	.18	.16			3.99	4.19
BT2	.41	.32			2.34	2.87
CB1	.06	.06			11.55	13.47
CHA	.21	.21			4.52	4.76
CP1	.36	.36			2.61	2.78
DB1	.13	.11			5.66	6.65
DBB	.13	.11			5.71	6.69
DBC	.13	.11			5.71	6.69
DMF	.18	.21			5.12	4.72
DRF	.18	.19			9.08	9.68
DT2	.05	.04			12.46	16.50
DWA	.14	.14			4.79	5.01
G01	.10	.12			12.47	10.51
KEG	.08	.07			8.73	10.06
MBF	.15	.12			7.65	5.81
MUG	.15	.14			4.54	4.98
NDL	.13	.12			5.30	6.06

SOIL TYPE	BORDER CFS/AC		FURROW CFS/AC		OPTIMUM ROTATION	
	PAST	ALFA	PAST	ALFA	PASTURE	ALFALFA
PD2	.11	.12			5.15	4.74
Q	.26	.21			13.2	10.4
RE2	.29	.21			3.15	4.74
RP1	.19	.21			4.89	4.57
SH1	.06	.05			9.37	12.10
SOC	.08	.07			7.38	8.08
SSA	.15	.14			4.79	5.01
SXF	.12	.11			6.14	6.80
TC1	.06	.06			9.82	9.55
TD1	.04	.03			12.46	16.50
WB2	.13	.13			5.37	5.43
WAA	.19	.16			3.81	4.23
WBB	.17	.14			3.36	3.84
WC1	.07	.06			11.24	13.45
WPT	.19	.15			3.16	3.69
WV1	.07	.06			11.24	13.45
XHS						
YN1	.18	.14			5.38	6.92

The rate per acre calculations are based upon a 300 foot run at a 2% slope. An 8 hour set time was also used. Individual graded border evaluations, soil characteristics work sheets, and peak irrigation diversion requirement work sheets have been created and archived separately for each soil type.

Where actual rotation is shorter than the optimal rotation, optimal rotation is the criteria to be used for the recommendation analysis and, therefore, the rotation percentage adjustment is not necessary. The rate becomes the acres per soil type times the rate per acre from the above chart.

SOIL TYPE	OPTIMAL / ROTATION (chart)	ACTUAL / ROTATION (field)	ACRES PER SOIL TYPE (field)	RATE PER ACRE (chart)	TOTAL DIVERSION RATE
BT2	2.87	10	27.5	.32	2.53 CFS
BK1	11.86	10	3.1	.06	.19 CFS
CB1	13.47	10	1.1	.06	.07 CFS
CP1	2.78	10	6.9	.36	.69 CFS
RP1	4.57	10	4.8	.21	.46
TOTAL ACRES					3.94

72-00149 -
00150 -

decided at
1.80 CFS
.20 CFS

CLAIMED DIVERSION RATE = 3.92
MEASURED DIVERSION RATE =

16273 claimed at 1.00
2.92 2.92 CFS total claimed

Water Right Number - R72-00149

Prefix Translation: RESEARCH

Old (D) Number -

*** C - CURRENT OWNER ***
THORNOCK

NYLE J.

VERIFIED BY: [Signature]

THORNOCK

SHIRLEY ANN

1 - PO BOX 570
2 -
3 -
City- CHALLIS
Phone - 208-879-4472
1 - PO BOX 570
2 -
3 -
City- CHALLIS
Phone - 208-879-4472

State- ID Zip- 83226

Priority Date - +
05/01/1907

Region - +
17 SOUTHERN

Stage - +
D - DECREED

Status - +

Source - +
MORGAN CREEK

Tributary - +
SALMON RIVER

Twm Rng Sec Tract Lot Rflg County Point of Diversion
15N 19E 23 SE NE SE (37) CUSTER

Code Description Period From Period To Water Use Diversion Rate Diversion Volume
01 - IRRIGATION 04/15 10/15 D.800
+ - Total Div. Rate - + - Total Div. Volume - + - Total Consumptive Use - + - KW Usage -
0.800 0.0

Total Acres: 40.0

+ - - Diversion Means - HEADGATE & DITCH
+ - - Non-Irrigation Use -
+ - - Other Rights for Same Use - 72-00150 & 72-04031
72-16273 KKL
1-7-94
changed & verified

RIGHT NOS. 72-00150 & 72-16273 ARE ALSO DIVERTED THROUGH THE
POINT OF DIVERSION DESCRIBED ABOVE.
USE OF THIS RIGHT WITH 72-00150 & 72-16273 IS LIMITED TO A

MICROFILMED
NOV 0 1 1994

Water right number - R72-00149

Prefix translation: RESEARCH

Remarks - - - - -
TOTAL COMBINED DIVERSION RATE OF 1.82 CFS. WHEN THIS RIGHT IS
COMBINED WITH 72-00150, 72-16273 AND 72-04031 THEY ARE LIMITED TO
A TOTAL COMBINED DIVERSION RATE OF ~~2.82~~ 3.08 CFS. ALL RIGHTS ARE LIMITED
TO AN ANNUAL CONSUMPTIVE USE VOLUME OF 100 AF, AND TO THE
IRRIGATION OF A COMBINED TOTAL OF 40 ACRES IN A SINGLE IRRIGATION
SEASON.

*3.08 cfs changed & re-verified
KHC 1-7-94*

No Old Water Right Numbers Found

Old Water Right Numbers - - - - -

Conditions of Approval - - - - -
No Conditions of Approval found.

Decree Plaintiff - - - +
IVAN HUGHES ET AL

Decree Defendant - - - +
VAL JONES ET AL

Decree Date - - +
05/02/1935

Comments - - - - -
No Comments Found

Audit Fields - - - +
01/07/94 CHRISTEN

Adjudication Rights Dates and Flags Area - - - - -

Court Report Filing	- 00/00/0000	Field Inspection Made	- 08/16/1993	Civil Case Number	- 39576
Objection Filed Date	- 00/00/0000	Field Inspection Flag	-	Old Case Number	-
Response Filed Date	- 00/00/0000	Verified Date	- 01/07/1994	Old Judicial District	-
Claim Received Date	- 11/15/1989	Last Amended Date	- 00/00/0000	Temporary Right	- P
		Receipt Number	- M005223	Water District	- 72F
		POU Ownership Flag	- Y	Federal/State Indicator	- S
		Name Connector	- AND/OR	Presumption Flag	-
				Notice of Error Flag	-

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NOV 0 1 1994

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

09:11:31
05/30/92

PAGE: 1
GENERAL INFORMATION

CLAIM NUMBER: A72-001

~~LAST: BLUME
ADDRESS:
CITY: X
PHONE NUMBER: 208-000-0000
OWNER CODE: D~~

FIRST: IVAN
STATE: ID ZIP: 0

LAST: THORNOCK
ADDRESS: BOX 570
CITY: CHALLIS
PHONE NUMBER: 208-879-4472

FIRST: NYLE J.
STATE: ID ZIP: 83226

OWNER CODE: C

LAST: THORNOCK
ADDRESS: BOX 570
CITY: CHALLIS
PHONE NUMBER: 208-879-4472

FIRST: SHIRLEY ANN
STATE: ID ZIP: 83226

OWNER CODE: C

FIELD EXAM REQUIRED?
VERIFICATION REQUIRED DUE TO REMARKS?
NO REMARKS IN CLAIM

DATABASE FIELD
EXAMINER N

MICROFILMED
NOV 01 1994

CONTACT PERSON: Delbert Hughes

DATE OF FIELD EXAM: 8/16/93

APPOINTMENT MADE: Y() N()

ACCOMPANIED BY: 9-1-93

PHONE NUMBER: (____) _____ - _____
 TIME: _____ : _____ A(____) P(____)
 PHONE NUMBER: (____) _____ - _____

RELATIONSHIP TO CLAIMANT: lessor/holder

DIRECTIONS TO PROPERTY / REMARKS:

A. AJ CLAIM: # A72-00149 PRIORITY DATE: 05-01-1907 STAGE: D
B. WR RECORD: # 72-00149 PRIORITY DATE: 05-01-1907 STAGE: D

C. FIELD EXAM REQUIRED?
DUE TO PRIORITY DATE DISCREPANCY? (Y/N) DATABASE FIELD EXAMINER
N -----

ARE THERE OBVIOUS REASONS TO QUESTION THE PRIORITY DATE CLAIMED? Y() N()
IF YES EXPLAIN.

REMARKS:

*claimed priority date matches claimed date
; claimed P/u matches Decend P/u*

accept as claimed

RECOMMENDED PRIORITY DATE:
05-01-1907

REVIEWED BY *5-1-07 XHC*

DATE *12-7-93*

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NOV 01 1994

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A72-00149	15N	19E	23	SE	NE	SE		CUSTER

OTHER AJ CLAIMS WITH SAME AJ POD
 A PREFIX R PREFIX
 A72-00150 NONE
 72-00150
 72-04191

SOURCE: MORGAN CREEK

TRIB: SALMON RIVER

B. WR POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A72-00149	15N	19E	23		NE	SE		CUSTER

OTHER WR RECORDS WITH SAME WR POD
 AJ CLAIMS IN SAME 40 ACRE TRACT
 A PREFIX R PREFIX

72-00150
 72-04191
 A72-00150
 A72-10164
 A72-10454
 NONE

SOURCE: MORGAN CREEK

TRIB: SALMON RIVER

C. FIELD EXAM REQUIRED?

DUE TO POD DISCREPANCY?	(Y/N)	DATABASE	FIELD EXAMINER
DUE TO SOURCE DISCREPANCY?	(Y/N)		

REMARKS:

claimed ~~POD~~ P/D matches found P/D & matches deeded P/D
Accept as claimed.

NOT RECORDED
 NOV 1 1994

RECOMMENDED POINT(S) OF DIVERSION AND SOURCE:
TWP. RGE. SEC. 1/4 1/4 LOT COUNTY

OK as claimed

SOURCE: MORGAN CREEK TRIB: SALMON RIVER

REVIEWED BY: *KKC* DATE: *12-7-93*

MICROFILMED
NOV 01 1994

TWP	RNG	SEC	1/4	1/4	LOT	NAME
-----	-----	-----	-----	-----	-----	------

THOR
THOR

THOR

THOR

37-00

FOU COUNTY: CUSTER

REMARKS:

found ~~lower~~ a cre than claimed. See also Field span attachment dated 12-6-93 for up date.

RECOMMENDATIONS

TOTAL ACRES:

40

REVIEWED BY:

KKC

DATE _____

12-7-93

#AJ/ACHES

#/ACRES

LANGSAT
DATA

FIELD EXAM.

RECDOM:
ACRES

20

22

12

2

40 40

A. AJ CLAIMED USES:

PURPOSES
A72-00149 IRRIGATION

TOTAL DIVERSION RATE/VOLUME CLAIMED

4-15 10-15
MONTH/DAY
FROM TO
DIVERSION QUANTITY
.800 CFS
.800 CFS

B. WR RECORDED USES:

PURPOSES
72-00149 IRRIGATION

TOTAL DIVERSION RATE/VOLUME CLAIMED

FROM TO
MONTH/DAY
DIVERSION QUANTITY
.800 CFS
.800 CFS

C. FIELD EXAM REQUIRED?

DUPLICATE FLAG:
FIELD EXAM REQUIRED?
DUE TO WATER-USE DISCREPANCY? (Y/N)
DUE TO DIVERSION RATE DISCREPANCY? (Y/N)
DUE TO PERIOD FROM/TO DISCREPANCY? (Y/N)
DATABASE EXAMINER
N N
Y N
Y

D. PERIOD OF USE:

RECOMMEND AS CLAIMED?

RECOMMEND TO WR STANDARDS OR OTHER?

Y() N()
Y() N()

Explain in remarks, below.

REMARKS:

Claimed rate agreed with desired rate & is less than system requirement. Accept as claimed

See Hws 12-6-93 analysis Pg 3

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NOV 01 1994

A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORDS?

(X) Y *()* N *()*

AJ TOTAL CLAIMED DIVERSION RATE: 0.800 CFS
WR ROOT RIGHT TOTAL DIVERSION RATE: 0.800 CFS

*** IF NO OR IF STATUTORY CLAIM OR BENEFICIAL USE THEN FLOW MEASUREMENT REQUIRED. ***
** If an amount smaller than the original diversion rate is **
** claimed and an exam is NOT required, explain in remarks. **

FLOW MEASUREMENT REQUIRED?

FIELD
DATABASE EXAMINER

DUE TO STAGE OR DIVERSION RATE DISCREPANCY? (Y/N)

Y

MEASUREMENT METHOD

See Pg 3A FLOW MEASUREMENT

SEE ATTACHED CALCULATIONS.

C. ARE OTHER WATER RIGHTS USED?

(Y) Y *()* N *()*

IF YES COMPLETE CURRENT REVIEW.

OTHER RIGHTS LISTED IN CLAIM: 72-0150

*See sup analysis
12-6-93*

LIST ALL RIGHTS WITH A SAME POU AND IRRIGATION USAGE:

*Also Charles analysis
1-7-94*

CLAIM NO.	SOURCE	NAME	DIV. RATE	DIV. RATE/ACRE	DIV. VOL.	DIV. VOL./ACRE
A72-00149	MORGAN CREEK	THORNOCK, NYLE J.	0.800	0.016		
A72-00150	MORGAN CREEK	THORNOCK, NYLE J.	0.200	0.004		
A72-00161	MORGAN CREEK	SAVAGE, LESTER JOHN	0.960	0.015		
A72-00162	MORGAN CREEK	SAVAGE, LESTER JOHN	0.240	0.003		
A72-04031	SALMON RIVER	THORNOCK, NYLE	1.800	0.040		
A72-04032	WASTEWATER	THORNOCK, NYLE	1.240	0.040		
A72-04033	SALMON RIVER	THORNOCK, NYLE	1.120	0.040		
A72-04034	SALMON RIVER	THORNOCK, NYLE	2.000	0.040		
A72-10163	MORGAN CREEK	SAVAGE, LESTER JOHN	2.000	0.031		

LIST ALL RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION.

CLAIM NO.	PURPOSES	NAME	MONTH/DAY	RATE	VOLUME
A72-10065	DOMESTIC	THORNOCK, NYLE J.	FROM 01-01 TO 12-31	0.040 CFS	

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NOV 01 1994

D.

RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE
ACRES 40 $\times$ 0.02 CFS/ACRE = 0.80 CFS
(Taken from p/u review)

1b. CALCULATIONS

DOES AMOUNT CLAIMED EXCEED 0.02 CFS/ACRE? Y() N(X)

*** IF YES ADDITIONAL WATER USE FORM FILED AND ATTACHED? Y(X) N() ***

2. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = 125.0 AF/A

ACRES $\times$ CONSUMPTIVE VOL. AF/A FOR AREA

TOTAL CONSUMPTIVE USE AF/A

combined up here

3. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = AF/A

ACRES $\times$ DIVERSION VOL. AF/A FOR AREA =

TOTAL DIVERSION VOLUME AF/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:

SEE ATTACHED SHEET? Y() N()

REMARKS: (Include limitations on CONSUMPTIVE USE for combined rights.)

See Remarks on p. 1.

MOVED TO FILE
MAY 9 1994

RECOMMENDATIONS:

REC.
PURPOSES

REC. PERIOD
FROM TO

REC. DIV
RATE CFS

REC. DIV
VOL. AF/A

REC. CONS
USE

IRRIGATION

4-15
14-01

10-15
10-01

DATABASE EXAMINER
0.800 .80

DATABASE EXAMINER
—

DATABASE EXAMINER
125.0
125.0
Consolidated

TOTAL FOR THIS RIGHT

REVIEWED BY:

KKe

DATE:

12-8-93

MICROFILMED

NOV 01 1994

A. CHECK ONLY THE FOLLOWING THAT APPLY:

OWNERSHIP
FORFEIT/ABANDON
ADDITIONAL DIV. AMOUNT

ACCEPTED
AS CLAIMER
()
()
()
NEEDS
REVIEW
()
()
()

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 72-00149
TOTAL DIVERSION RATE OF WR SPLITS

DATABASE
0.800

~~NA~~ EXAMINER

CFS

SPLITS:

OLD RIGHT
NUMBERS

CURRENT
CLAIM NUMBERS

DIVERSION
RATE

CURRENT "R"
CLAIM NUM.

"K" DIV.
RATE

WR RIGHT
NUMBERS

DIVERSION
RATE

-

A72-00149

0.800

-

72-00149

0.800

TOTAL CFS

0.800

0.800

DIVERSION RATE REVIEW

DO THE SUM CFS RATE OF THE SPLITS EQUAL THE ROOT RIGHT CFS RATE? (Y/N)
IF NO, is the written review sheet attached? (Y/N)

DATABASE
Y

FIELD
EXAMINER

REMARKS:

AUTHENTICATION:
SIGNATURE: Kelly H. Christensen

DATE: 1-7-94
TITLE: Sr Water Resource Agent.

WR ELEMENT	FIELD EXAM Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	VERIFIED BY CODE	COMPLETED REVIEW WHOM/DATE	COMPLETED DATA ENTRY WHOM/DATE
PRIORITY DATE							
POINT OF DIV	Y		KKC 12-7-93	N	1, 2, 5, 6	KKC 12-7-93	
SOURCE			8-16-93 KKC	N	1, 2, 5, 6	"	
PRICE OF USE	Y		9-1-93 KKC	N	"	"	
DIV. AMOUNT CES/VOLUME			8-16-93 KKC	N	"	"	
CONSUMPTIVE USE	-		"	N	"	"	
PURPOSES			12-7-93	Y	"	"	
PERIOD OF USE	Y		"	N	6	"	
DATE OF CLAIM			"	N	6	"	
REMARKS	Y		1-7-94 KKC	Y	6	"	

11-16-92
S

VERIFIED BY CODES

MAPS USED: DATE:

TOPO MAP/ORTHO-PQ = 1
ASCS MAP = 2
WATERMASTER RECORDS = 3
MAP PHOTOS = 4
FIELD EXAM = 5
OTHER (SEE REMARKS) = 6

MAPS USED: DATE:

ORTHO 1956
SCS SOILS MAP 243-34
BLM 7-10D-8 7-10-88

THESE CODES ARE USED TO INDICATE HOW THE FIELD EXAMINER VERIFIED THE INFORMATION
USED FOR THIS FIELD EXAMINATION. INDICATED ARE ALL CODES WHICH APPLY.

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NOV 11 1992

R19E R20E

CHALLIS SW QUADRANGLE

IDAHO-CUSTER CO.

7.5 MINUTE SERIES

114°07'30"

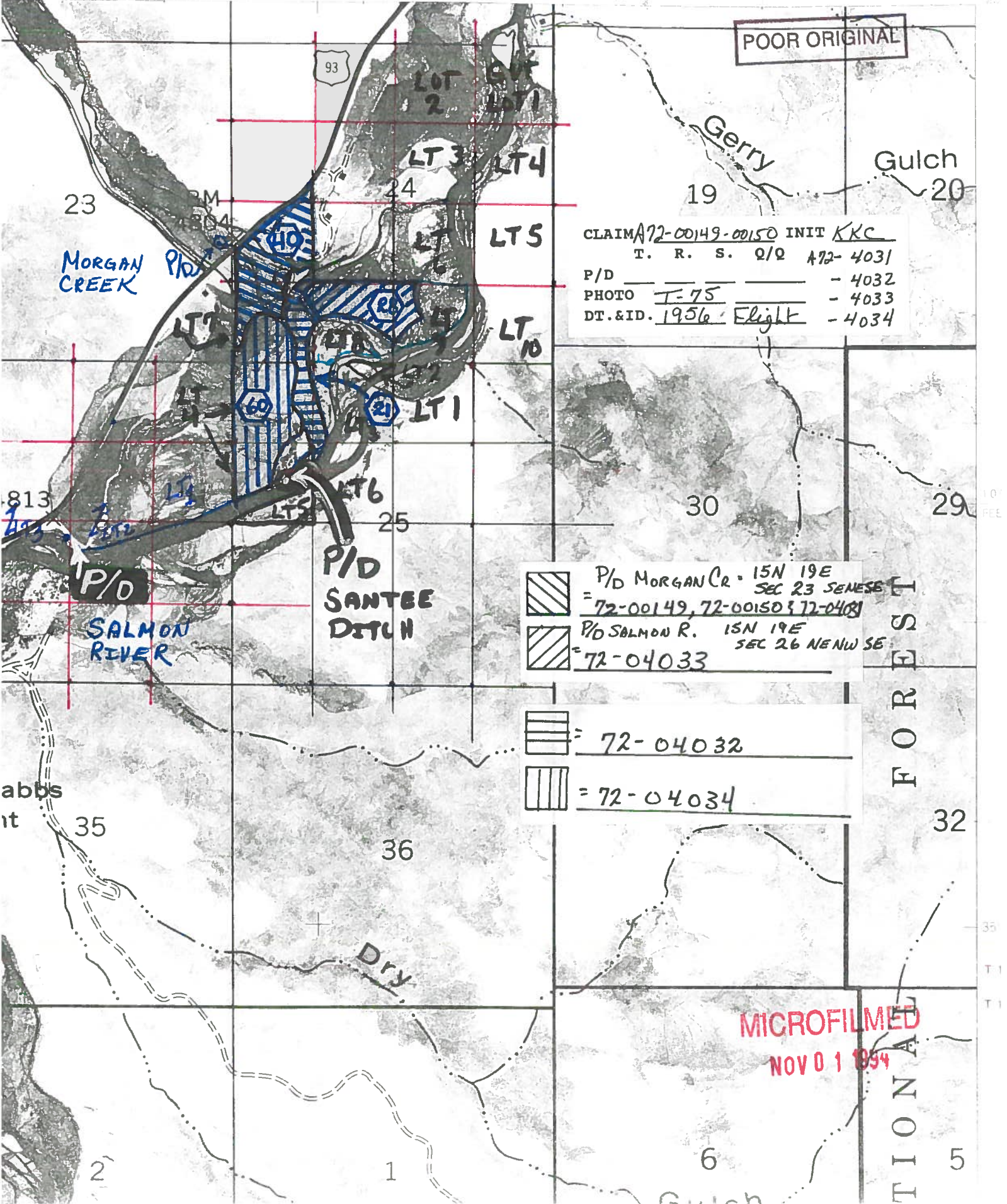
LIS NW)

10'

R 19 E

460 001 011

R 20 E



POOR ORIGINAL

Gerry Gulch

Gulch

23

24

19

20

MORGAN CREEK

CLAIM A72-00149-00150 INIT KKC

T. R. S. Q/Q A72-4031

P/D - 4032

PHOTO T-75 - 4033

DT.&ID. 1956 Flight - 4034

LT 5

LT 1

P/D Santee Ditch

SALMON RIVER



P/D MORGAN CR. SEC 23 SENESE
= 72-00149, 72-00150, 72-04031



P/D SALMON R. SEC 26 NENE SE
= 72-04033



= 72-04032



= 72-04034

FOREST

32

36

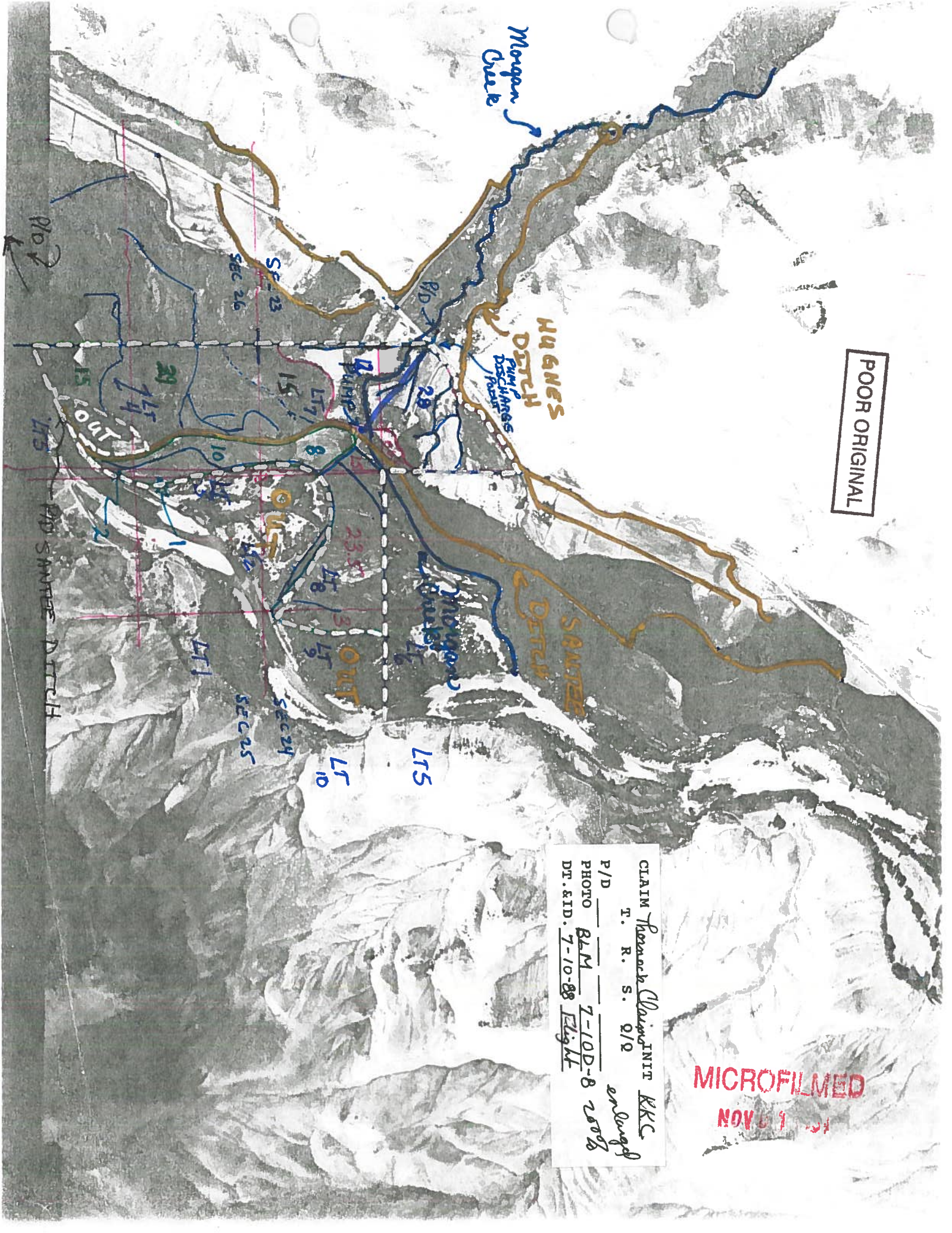
Dry

MICROFILMED
NOV 01 1954

TION A

5

POOR ORIGINAL



CLAIM Therach Claims INT KKC
T. R. S. Q/D
P/D B&M 7-10D-8 enlarge
PHOTO 7-10-88 Eligible
DT. & ID. 7-10-88

MICROFILMED
NOV 6 1981

POOR ORIGINAL

CLAIM # A72-00149 - A72-00150
DATE PHOTO TAKEN; 8-17-93
PICTURE # 1

This photo shows the measurement location in the foreground and the diversion point between the top two rails of the fence. The ditch was not at capacity. This photo is looking west northwest.



CLAIM # A72-04031, A72-04032,
A72-04033, & A72-04034
DATE PHOTO TAKEN 8-16-93
PICTURE # 2

This photo shows the diversion works for the Salmon River claims. You are looking east southeast. Also shown is the diversion point for the Dunfee pumping system that lifts out of the same ditch.

PUMP SITE



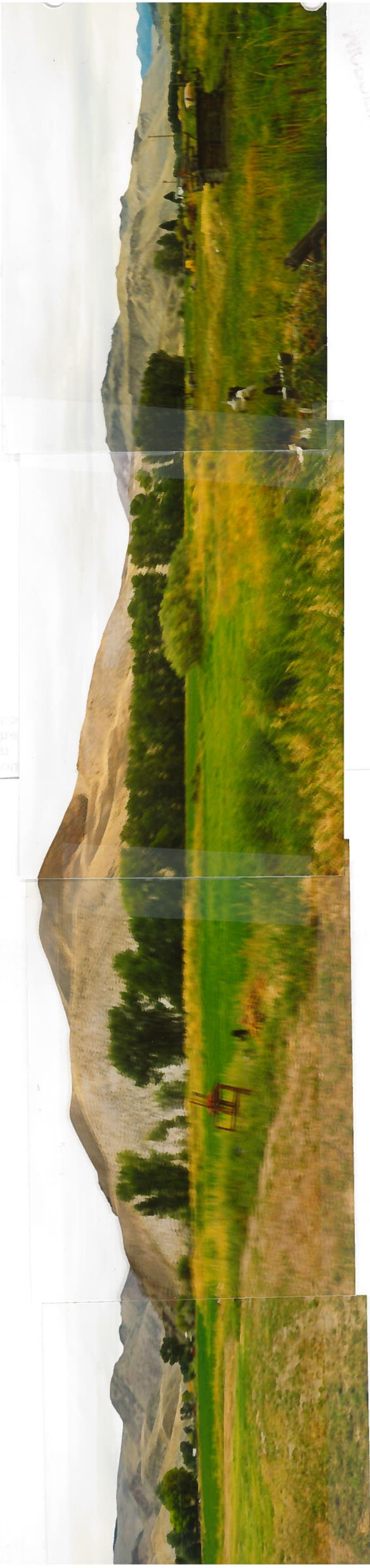
MICROFILMED
8-1-93

9 - A72-00150 & A72-04031
IN; 9-1-93

POOR ORIGINAL

shows the irrigation in the north end of the P/U. The photo was taken just
home and is looking north on the right to west on the left. The P/U is in
left. The headgate structure that receives the pump discharge is also on

FE



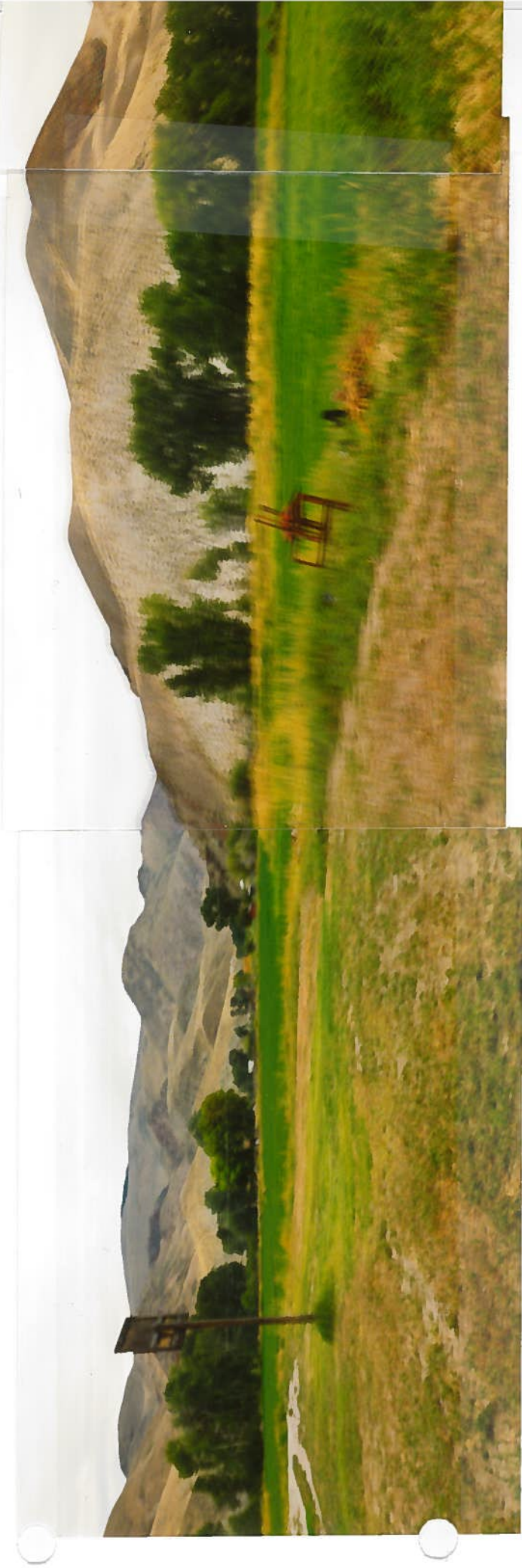
1 P
MICROFILMED

CLAIM # A72-00149 - A72-00150 & A72-04031
DATE PHOTOS TAKEN; 9-1-93
PICTURE SET # 3

POOR ORIGINAL

This picture set shows the irrigation in the north end of the P/U. The photo was taken just northeast of the home and is looking north on the right to west on the left. The P/D is in the trees on the left. The headgate structure that receives the pump discharge is also on the left.

P/D HEADGATE



CLAIM # A72-00149 - A72-00150 & A72-04031
DATE PHOTO TAKEN; 9-1-93
PICTURE # 4

POOR ORIGINAL

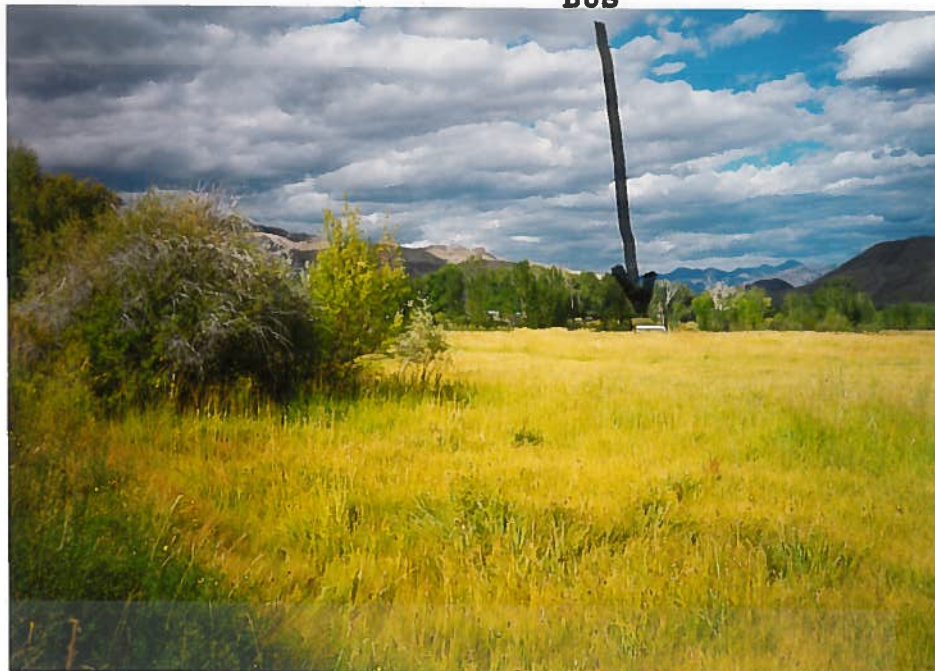
This photo set was taken south and west of the farmstead and is looking south on the left to southeast on the right. The trees on the right are on the western P/U boundary. Photos 5 & 6 were taken from the end of this field.



PICTURE # 5

This picture was taken from a spot just east of the location for picture set # 6 and is looking north northeast. The bus is near the juncture of Morgan Creek and the Santee ditch. The ground shown is not irrigated with Morgan Creek water, rather, with Salmon River water.

BUS



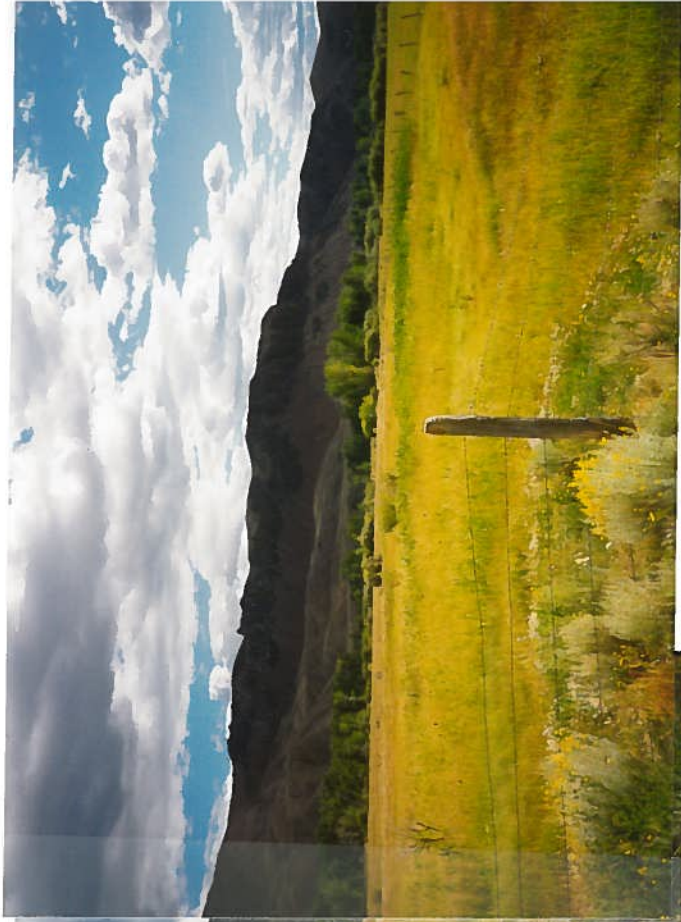
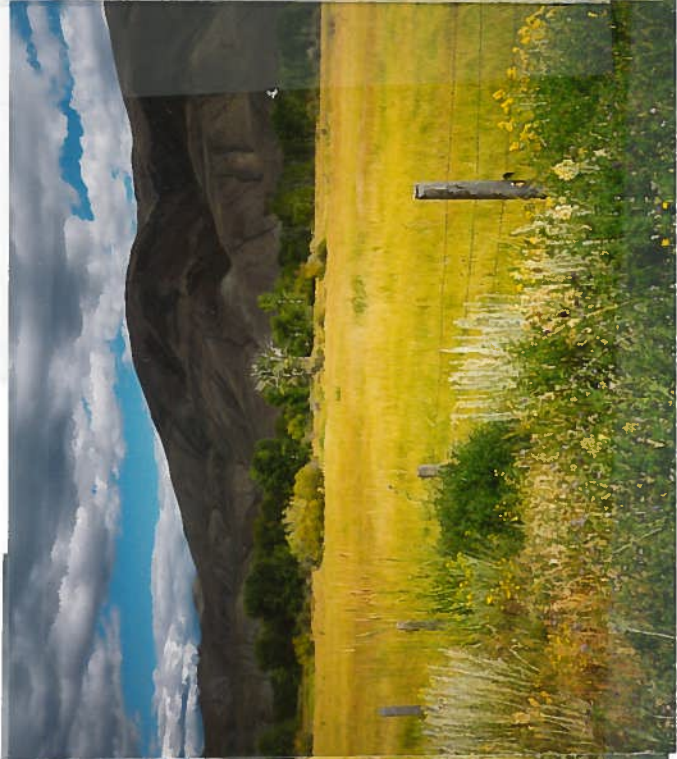
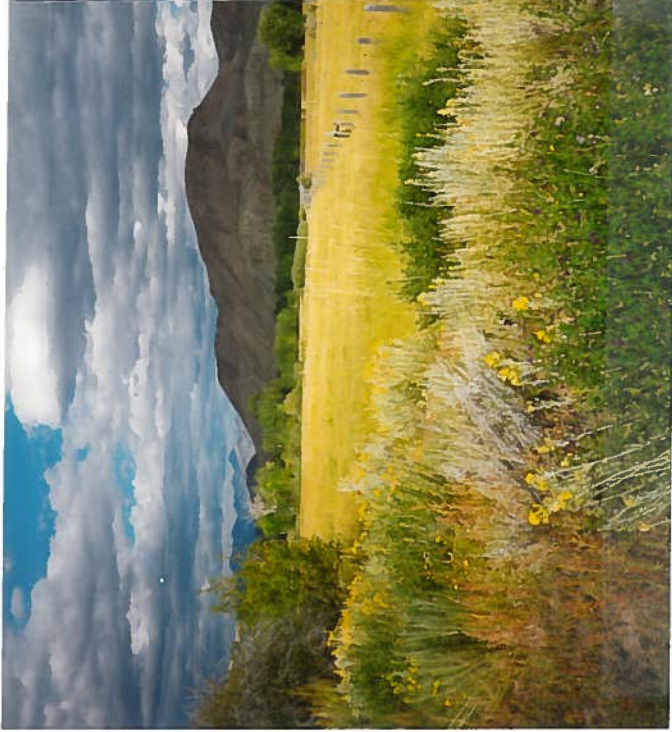
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NOV 0 1 1994

CLAIM # A72-04032, 04033, & 04034
DATE PHOTOS TAKEN; 9-1-93
PICTURE SET # 6

POOR ORIGINAL

This photo set shows the break area from the ground irrigated with Morgan Creek water and the ground irrigated with Salmon River water. The ground shown is irrigated with Salmon River water. You are looking south on the right to northeast on the left. The Salmon River flows along the base of the hills.

NOV 8 1993
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NOV 8 1993
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POOR ORIGINAL

CLAIM # A72-04032, 04033, & 04034
DATE PHOTOS TAKEN; 9-1-93
PICTURE SET # 6

This photo set shows the break area from the ground irrigated with Morgan Creek water and the ground irrigated with Salmon River water. The ground shown is irrigated with Salmon River water. The Salmon River flows water. You are looking south on the right to northeast on the left. The Salmon River flows along the base of the hills.



POOR ORIGINAL

CLAIM # A72-04032 - A72-04033 & A72-04034
DATE PHOTO TAKEN; 9-1-93
PICTURE # 7

This set shows the slew area comming from the Dunfee property and entering the Thornock property. Although this ground is bog-like, it is a portion of the recommended P/U. You are looking south along the western border of the P/U on the right to southeast on the right. The P/D for the Santee ditch is within the trees in the distance on the right. That area is excluded from the recommended P/U. This ground is specifically a portion of the P/U for A72-04034.

SANTEE DITCH P/D



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NOV 01 1994

original in
72-00149

PAGE:

1/4

FILES:

A72-00149, 00150

04031, 04032, 04033

AGENT:

04034 KKC

DATE:

12-6-93

ATTACHMENT SUBJECT:

System Description

The Thornock Property is irrigated via Morgan Creek water system, Salmon River flood system, and a pumping system to lift Salmon River water and/or Morgan Cr. waste water back to the initial Morgan Creek headgate.

The Morgan Creek Pk was determined using Property boundaries as the limits for the West, North, & East sides. The south boundary is a natural drain that eventually reaches the 'Santa' ditch. (Claims A72-00149, 00150, & 04031) A72-04032 has the Santa ditch as the West Boundary and an old Salmon River channel as the Eastern Boundary. The Northeast Boundary has no distinct physical Boundary other than an access road leading to the Santa Ditch diversion point. This road is accepted as the Boundary.

A72-04033 Lays east of the access road and north of the same 'old' river channel. The east boundary is a slew that probably was an old river channel. The north boundary is the property line between ~~Thornock~~ ^{THORNOK} & Hughes. There is no clear division line ¹³³⁴ between the properties in some areas. The Hughes property is

FIELD EXAM ATTACHMENT

POOR ORIGINAL

original in
72-00149PAGE: 2/4FILES: all thorough claimsAGENT: KKCDATE: 12-6-93ATTACHMENT SUBJECT: System desc. cont.

concurrently irrigated with this P/U and has only a small amount of independent delivery systems.

A72-04034. - The P/U for this claim covers the largest single acreage and lays south of the M. Cr. P/U, west of the Sante Litch (A72-04032) ~~and~~, east of the Dunfer property and North of the Salmon River.

Claims A72-04032, 04033, & 04034 all come from the same P/D but, based upon affidavits were developed at different times therefore they are recommended as individual claims. Each P/U has its own independent delivery system from the main ditch, allowing independent ^{concurrent} irrigation of each parcel.

1-7-94 Nyle filed an "excess flow claim" A72-16273 to recognize the excess dis rate above 1" to the acre determined as legally acceptable using the SCS Border Program.

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NOV 8 1 1994

FIELD EXAM ATTACHMENT

POOR ORIGINAL

original in
72-00149PAGE: 3/4FILES: A72-00149, 0015004031AGENT: KKCDATE: 12-6-93ATTACHMENT SUBJECT: Morgan Creek diversions

Found 40 Acres irrigated through M.C. system. All claims use a common delivery system. 00149 & 00150 are diverted from M.C. on the Savage property. The ditch enters the Thornoch property & immediately can be divided through a headgate system. The discharge from the pumping system for 04031 is into this headgate system. Normally 04031 is not used if sufficient water is available from Morgan Creek. Any waste water returned to system is already covered under decrees. Waste water not recommended.

Morgan Creek diversion measured at - 1.82 CFS

Theoretical on pumping system

$$\frac{8.8 \times .7 \times 15 \text{ HP}}{40' + (0 \times 2.3)} = 2.31$$

2.31 CFS

Excess flow analysis (see Lotus/Boulder calc.)

2.92 CFSDecreed A72-00149 - 0.80 CFS3.08 KKCA72-00150 - 0.20 CFS1.00 CFS total

Difference - measure

1.82

analysis

3.082.92 CFSdecreed1.00decreed1.00 CFS0.82

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2.92 CFS

NOV 01 1994

2.08

FIELD EXAM ATTACHMENT

POOR ORIGINAL

original
A72-00149

PAGE:

4/4

FILES:

A72-04032, 04033

04034

AGENT:

KKC

DATE:

12-6-93

ATTACHMENT SUBJECT:

Salmon River diversions

A72-04032 original claim amended on 9-23-93 to shift acres from this claim to A72-04034 based upon planimeter acreage determination of both parcels. The claimed diversion rate was also increased to reflect the soils analysis rate determination. (see attached analysis sheets.)

Per Phyllis Rose - old Fish & Game, the diversion of Salmon River water was measured on 6-2-93 at 18.2 cfs. The measurement location was downstream approx 100 to 150' from the Fish & Game fish screen #5-23. The ditch forks approx 40' from screen & two measurements were made, one on each canal. Fish & game also made a measurement on the ditch in 1959 & found 19.8 cfs being diverted. only one ditch measured (which ditch unknown) on 7-7-93 - found 4.9 cfs; 9-9-93 - 4.9 cfs F & G measurements. Measurements are downstream from Duffer Pump site for A72-07055.

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FIELD EXAM ATTACHMENT

POOR ORIGINAL

DATE: 1-7-94PAGE: 1/1AGENT: SKCFILES: A72-00149 00,50,
16273,04031ATTACHMENT SUBJECT: Excess flow AnalysisClaimant filed an excess flow claim on 1-7-94.Excess flow analysis confirms a need for a div rate in excess of one inch per acre. based upon the soil types obtained from the SCS and a 10 day rotation.Total decreed rate = 1.00 CFSExcess flow rate = $\frac{3.08 \text{ SKC}}{2.92} \text{ CFS}$ System Capacity measured = 1.82 CFS.the system capacity is considered the limiting factor for the Morgan Creek diversion therefore I recognize $1.82 - 1.00 \text{ CFS} = .82$ as the rate valid for A72-16273. As the system can be augmented with water from the Salmon River (A72-04031). A theoretical calculation of the pumping system for this claim is 2.31 CFSMorgan Cr water 1.82A72-040312.31Total4.13 CFSexcess flow analysisgives a requirementof $\frac{3.08 \text{ SKC}}{2.92} \text{ CFS}$ combined system limitation for all claims3.08 CFSseeNov 01 1994 worksheet

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REMARK AND CONDITION CODE WORKSHEET

POOR ORIGINAL

SYSTEM CLAIM NUMBERS

A72 00149A72 40310015016273

AGENT

INITIALS

KKC

DATE

12-7-94CLAIM NO.
OR ENTRY
ORDERREMARK
CODE

ENTRY DATA

CONDITION
CODESTAGE
OR
STATUSPRESUMPTION
CODEFD672-00149, 0015072-16273E12modify to cover both overlaps 3 Morgan Creek
right overlapping And then Morgan Creek
with the Salmon River Water (72-04031)Morgan Cr limit 1.82 CFS (capacity)All sources Comb. ~~3.08~~ CFS excess flow analysis
3.08 legal limit100 AF40 Acres

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NAME OF STREAM OR DITCH ----- MORGAN CR WATER
LOCATION ----- MEASURED JUST WEST OF H-93 ON SAVAGE PROP
PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW
BASIS OF VELOCITY CALCULATIONS
IF YOU ARE USING A PYGMY METER ENTER ----- 1
IF YOU ARE USING A AA METER ENTER ----- 2
ENTRY ----- = 1

WATER RIGHT NUMBER IF APPLICABLE ----- A72-00149 & 00150
AGENT CONDUCTING MEASUREMENT & DATE -- KKC 8-17-93
ACCOMPANIED BY ----- NO ONE
PREMEASUREMENT SPIN TEST (MIN/SEC) ---
POST MEASUREMENT SPIN TEST (MIN/SEC) -
DATE REPORT PREPARED ----- 15-Nov-93

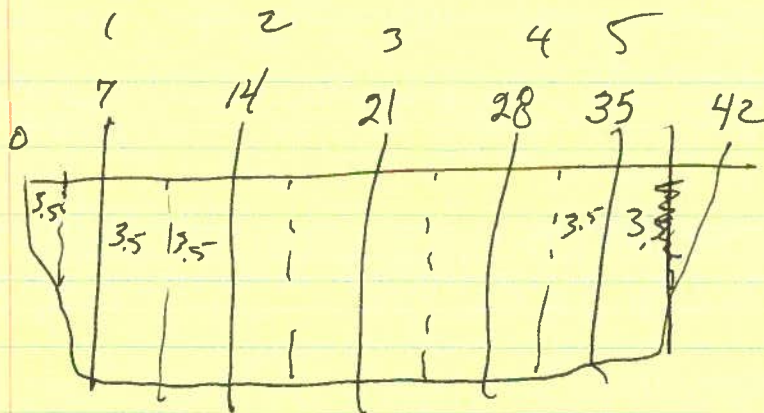
FOLLOWING THE LAST ENTRY IN: "END"
"DISTANCE FROM INIT PT" ENTRY MUST = "END"

INITIAL POINT	ANGLE OF COEFFICIENT	DISTANCE FROM INIT PT	DEPTH IN FEET	CALC DEPTH END PTS	VELOCITY DATA				CALC WIDTH	AREA IN SQ FT	CALCULATED VELOCITY				DISCHARGE IN CFS
					1ST MEASUREMENT REVS	2ND MEASUREMENT REVS	1ST TIME/SEC	2ND TIME/SEC			1ST POINT VELOCITY	2ND POINT VELOCITY	MEAN VELOCITY		
0.00				0.23					0.29	0.067				0.50	0.03
0.58			0.46		60	60.3			0.58	0.267			0.99	0.99	0.27
1.17			0.50		60	50.9			0.58	0.292			1.18	1.18	0.34
1.75			0.50		60	45.5			0.58	0.292			1.32	1.32	0.38
2.33			0.50		60	44.5			0.58	0.292			1.35	1.35	0.39
2.92			0.50		60	49.0			0.58	0.292			1.22	1.22	0.36
3.50				0.25					0.29	0.073				0.61	0.04
END															
															1.82

NOV 01 1994

8-17-93

POOR ORIGINAL



Thornock Div
Just West of 93 on
Savage Prop.

$$6 \overline{) 42} \begin{matrix} 7 \\ 3.5 \end{matrix}$$

stat	depth	Rotation	Sec
1	5 1/2	60	57.53
		60	1,03.13
2	6	60	51.22
			50.53
3	6		45.60
			45.47
4	6		44.40
			44.66
5	6		48.63
			49.37

water clear bottom
gravelly but smooth
sides with min vegetation,
measurement good.

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GRADED BORDER EVALUATION

Job name: A72-00149,00150,16273
By: KKC

Location: BK1 SOIL FOR 5 ACRES
Date:

Roughness coefficient (n)= 0.150 Intake family (If)=2.00
Slope (S)= 0.0400 ft/ft Border width (W)= 35 ft
Net application (Fn)= 4.32 inches Border length (L)= 210 ft
Inflow time (Ti)= 8 hours, 0 minutes

Flow per Border (cfs)	Unit Flow (cfs/ft)	Gross Application (in)	Deep Percolation (in)	Runoff (in)	Application Efficiency (percent)	Notes
0.30	Gross depth is less than required gross application depth					
0.31	Gross depth is less than required gross application depth					
0.32	Gross depth is less than required gross application depth					
0.33	Gross depth is less than required gross application depth					
0.34	Gross depth is less than required gross application depth					
0.35	0.010	16.46	11.96	0.17	26.2	(4)
0.36	0.010	16.93	11.96	0.64	25.5	(4)
0.37	0.011	17.40	11.96	1.11	24.8	(4)
0.38	0.011	17.87	11.96	1.58	24.2	(4)
0.39	0.011	18.34	11.96	2.05	23.6	(4)

(4) Less than minimum recommended depth of flow.

BK1 soil .35 5 acres
RPI soil 1.15 12 acres
BT2 soil 1.58 23 Acres
Totals. 3.08cfs 40 Acres

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NOV 8 1

SOIL CHARACTERISTICS

CLAIM NO. --- A72-00149, 0015D, 16273
 AGENT ----- KKC
 DATE ----- 01/07/94

Lotus Program:
 IRR-PRAC.WK3
 Date form revised:
 4/21/93 by KKC

Soil Type = BK1; BOCK...SILT LOAM, LOAM, GRAVELLY LOAM, FINE SANDY
 Source of Soils Data = Printout From SCS State Office

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	18	0.14	0.2	6.6	8.4	1	3	1	2.04	2	0.55
18	48	0.14	0.2	7.4	8.4			1	2.21		
48	60	0.03	0.05	7.4	8.4			3	6.12		
								4	8.16	alternate	
								5	8.64	method	
										NA	NA

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point (INCHES)	MAD
alfalfa (hay or seed)	5	0.5	4.32
corn (field or silage)	4	0.5	4.08
grain (winter or spring)	4	0.5	4.08
pasture (or grass hay)	3	0.5	3.06
other (enter below)			

FIELD NOTES AND CALCULATIONS

	FIELD 1	FIELD 2	FIELD 3	FIELD 4
FIELD WIDTH	1037	D		
IRRIGATION DAYS	10			
DRY DAYS	0			
SET TIME(hours)	8			
CALCULATED RUN (run = acres*43560/width)				
LENGTH (RUN) =	210			
CALCULATED BORDER WIDTH (ditch length/irr days * cha				
WIDTH =	35			
THEORETICAL ROTATION (mad/net irr req in inches per				
SELECTED MAD =	4.32			
ROTATION =	17.6 DAYS			

PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS
 Figure No = 10-15

crop	acres	system	recomm. eff.	Net Irrigation Requirement (mm/day)							
				mar	apr	may	jun	jul	aug	sep	oct
PASTURE	0	FLOOD			1.47	3.84	4.87	5.86	4.56	3.23	2.07
ALFALFA	5	FLOOD	26.4		1.28	4.51	5.65	6.25	4.45	2.52	0.7

Summary	5		26		1.28	4.51	5.65	6.25	4.45	2.52	0.70
Peak Net Irrigation Requirement (mm/day) =					6.25						

Program Operation based upon

"GUIDELINES FOR THE EVALUATION OF IRRIGATION DIVERSION RATES"
 HUBBLE ENGINEERING INC. OCTOBER 1991

Soil Characteristics based upon

SOIL CONSERVATION SERVICE STUDIES

Peak Irrigation Diversion based upon ALLEN & BROCKWAY WEATHER INFORMATION 1983

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NOV 01 1994

CLAIM NO. --- A72-00149, 00150, 04031
AGENT ----- KKC
DATE ----- 10/18/93

Lotus Program:
IRR-PRAC.WK3
Date form revised:
4/21/93 by KKC

SOIL CHARACTERISTICS

Soil Type = RP1; FEZIP...FINE SANDY LOAM, GRAVELLY SANDY LOAM
Source of Soils Data = Printout From SCS State Office

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	6	0.1	0.14	6.1	7.3	2	3	1	1.17	3	0.7
6	16	0.06	0.09	6.1	7.3			1	1.25		
16	26	0.1	0.14	6.1	7.3			3	2.92		
26	60	0.01	0.04	6.1	7.3			4	3.22	alternate	
								5	3.52	method	
										NA	NA

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point (INCHES)	MAD	FIELD NOTES AND CALCULATIONS			
				FIELD 1	FIELD 2	FIELD 3	FIELD 4
				FIELD WIDTH	2780	0	
				IRRIGATION DAYS	10		
				DRY DAYS	0		
				SET TIME(hours)	8		
				CALCULATED RUN (run = acres*43560/width)			
				LENGTH (RUN) =	188		
				CALCULATED BORDER WIDTH (ditch length/irr days * cha			
				WIDTH =	93		
				THEORETICAL ROTATION (mad/net irr req in inches per			
				SELECTED MAD =	1.76		
				ROTATION =	7.2 DAYS		

PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS
Figure No = 10-15

		recomm.		Net Irrigation Requirement (mm/day)						
crop	acres system	eff.	mar	apr	may	jun	jul	aug	sep	oct
PASTURE	0 FLOOD			1.47	3.84	4.87	5.86	4.56	3.23	2.07
ALFALFA	12 FLOOD	6.5		1.28	4.51	5.65	6.25	4.45	2.52	0.7

Summary 12 7 1.28 4.51 5.65 6.25 4.45 2.52 0.70
Peak Net Irrigation Requirement (mm/day) = 6.25

Program Operation based upon "GUIDELINES FOR THE EVALUATION OF IRRIGATION DIVERSION RATES"
HUBBLE ENGINEERING INC. OCTOBER 1991
Soil Characteristics based upon SOIL CONSERVATION SERVICE STUDIES
Peak Irrigation Diversion based upon ALLEN & BROCKWAY WEATHER INFORMATION 1983

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NOV 01 1994

GRADED BORDER EVALUATION

Job name: A72-00149, --, 04031
By: KKC

Location: RP1 SOILS FOR 12 ACRES
Date:

Roughness coefficient (n)= 0.150 Intake family (If)=3.00
Slope (S)= 0.0400 ft/ft Border width (W)= 93 ft
Net application (Fn)= 1.76 inches Border length (L)= 188 ft
Inflow time (Ti)= 8 hours, 0 minutes

Flow per Border (cfs)	Unit Flow (cfs/ft)	Gross Application (in)	Deep Percolation (in)	Runoff (in)	Application Efficiency (percent)	Notes
1.10	Gross depth is	less than required	gross application	depth		
1.11	Gross depth is	less than required	gross application	depth		
1.12	Gross depth is	less than required	gross application	depth		
1.13	Gross depth is	less than required	gross application	depth		
1.14	Gross depth is	less than required	gross application	depth		
1.15	0.012	22.73	20.79	0.18	7.7	(4)
1.16	0.012	22.93	20.79	0.38	7.7	(4)
1.17	0.013	23.13	20.79	0.58	7.6	(4)
1.18	0.013	23.32	20.79	0.77	7.5	(4)
1.19	0.013	23.52	20.79	0.97	7.5	(4)

(4) Less than minimum recommended depth of flow.

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CLAIM NO. --- A72-00149, 00150, 04031
AGENT ----- KKC
DATE ----- 10/19/93

Lotus Program:
IRR-PRAC.WK3
Date form revised:
4/21/93 by KKC

SOIL CHARACTERISTICS

Soil Type = BT2; BARTONFLAT...VERY GRAVELLY LOAM, EXTREMELY GRAVELLY SANDY LOAM
Source of Soils Data = Printout From SCS State Office

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	5	0.05	0.08	7.4	8.4	1	2	1	0.57	2	0.55
5	45	0.02	0.05	7.4	8.4			1	0.61		
45	60	0.02	0.05	7.4	8.4			3	1.41		
								4	1.83	alternate	
								5	2.25	method	
										NA	NA

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point (INCHES)	MAD
alfalfa (hay or seed)	5	0.5	1.13
corn (field or silage)	4	0.5	0.91
grain (winter or spring)	4	0.5	0.91
pasture (or grass hay)	3	0.5	0.71
other (enter below)			

FIELD NOTES AND CALCULATIONS

	FIELD 1	FIELD 2	FIELD 3	FIELD 4
FIELD WIDTH	4356	0		
IRRIGATION DAYS	10			
DRY DAYS	0			
SET TIME(hours)	8			
CALCULATED RUN (run = acres*43560/width)				
LENGTH (RUN) =	230			
CALCULATED BORDER WIDTH (ditch length/irr days * cha				
WIDTH =	145			
THEORETICAL ROTATION (mad/net irr req in inches per				
SELECTED MAD =	1.13			
ROTATION =	4.6 DAYS			

PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS
Figure No = 10-15

		Net Irrigation Requirement (mm/day)									
crop	acres system	recomm. eff.	mar	apr	may	jun	jul	aug	sep	oct	
PASTURE	0 FLOOD			1.47	3.84	4.87	5.86	4.56	3.23	2.07	
ALFALFA	23 FLOOD	8.1		1.28	4.51	5.65	6.25	4.45	2.52	0.7	

Summary	23	8	1.28	4.51	5.65	6.25	4.45	2.52	0.70	
Peak Net Irrigation Requirement (mm/day) =				6.25						

Program Operation based upon "GUIDELINES FOR THE EVALUATION OF IRRIGATION DIVERSION RATES"
HUBBLE ENGINEERING INC. OCTOBER 1991
Soil Characteristics based upon SOIL CONSERVATION SERVICE STUDIES
Peak Irrigation Diversion based upon ALLEN & BROCKWAY WEATHER INFORMATION 1983

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NOV 11 1993

GRADED BORDER EVALUATION

Job name: A27-00149, --, 04031
By: KKC

Location: BT2 SOILS FOR 23 ACRES
Date:

Roughness coefficient (n)= 0.150 Intake family (If)=2.00
Slope (S)= 0.0400 ft/ft Border width (W)= 145 ft
Net application (Fn)= 1.33 inches Border length (L)= 230 ft
Inflow time (Ti)= 8 hours, 0 minutes

Flow per Border (cfs)	Unit Flow (cfs/ft)	Gross Application (in)	Deep Percolation (in)	Runoff (in)	Application Efficiency (percent)	Notes
1.50	Gross depth is less than required gross application depth					
1.51	Gross depth is less than required gross application depth					
1.52	Gross depth is less than required gross application depth					
1.53	Gross depth is less than required gross application depth					
1.54	Gross depth is less than required gross application depth					
1.55	Gross depth is less than required gross application depth					
1.56	Gross depth is less than required gross application depth					
1.57	Gross depth is less than required gross application depth					
1.58	0.011	16.37	14.95	0.09	8.1	(4)
1.59	0.011	16.48	14.95	0.19	8.1	(4)
1.60	0.011	16.58	14.95	0.30	8.0	(4)
1.61	0.011	16.68	14.95	0.40	8.0	(4)
1.62	0.011	16.79	14.95	0.50	7.9	(4)

(4) Less than minimum recommended depth of flow.

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NWNW	NENW	NWNE	NEHE	NWNW	NENW	NWNE	NEHE	NWNW	NENW	NWNE	NEHE	01 NWNW	01 NENW	01 NWNE	01 NEHE
04 SWNW	04 SENW	04 SWNE	04 SEHE	03 SWNW	03 SENW	03 SWNE	03 SEHE	02 SWNW	02 SENW	02 SWNE	02 SEHE	01 SWNW	01 SENW	01 SWNE	01 SEHE
04 YNSW	04 NESW	04 NYSE	04 NESE	03 NWSW	03 NESW	03 NYSE	03 NESE	02 NWSW	02 NESW	02 NYSE	02 NESE	01 NWSW	01 NESW	01 NYSE	01 NESE
04 SWSW	04 SESW	04 SWSE	04 SESE	03 SWSW	03 SESW	03 SWSE	03 SESE	02 SWSW	02 SESW	02 SWSE	02 SESE	01 SWSW	01 SESW	01 SWSE	01 SESE
09 NWNW	09 NENW	09 NWNE	09 NEHE	10 NWNW	10 NENW	10 NWNE	10 NEHE	11 NWNW	11 NENW	11 NWNE	11 NEHE	12 NWNW	12 NENW	12 NWNE	12 NEHE
09 NWSW	09 NESW	09 NYSE	09 NESE	10 NWSW	10 NESW	10 NYSE	10 NESE	11 NWSW	11 NESW	11 NYSE	11 NESE	12 NWSW	12 NESW	12 NYSE	12 NESE
09 NWSW	09 NESW	09 NYSE	09 NESE	10 NWSW	10 NESW	10 NYSE	10 NESE	11 NWSW	11 NESW	11 NYSE	11 NESE	12 NWSW	12 NESW	12 NYSE	12 NESE
09 NWSW	09 NESW	09 NYSE	09 NESE	10 NWSW	10 NESW	10 NYSE	10 NESE	11 NWSW	11 NESW	11 NYSE	11 NESE	12 NWSW	12 NESW	12 NYSE	12 NESE
18 NWNW	18 NENW	18 NWNE	18 NEHE	15 NWNW	15 NENW	15 NWNE	15 NEHE	14 NWNW	14 NENW	14 NWNE	14 NEHE	13 NWNW	13 NENW	13 NWNE	13 NEHE
18 NWSW	18 NESW	18 NYSE	18 NESE	15 NWSW	15 NESW	15 NYSE	15 NESE	14 NWSW	14 NESW	14 NYSE	14 NESE	13 NWSW	13 NESW	13 NYSE	13 NESE
18 NWSW	18 NESW	18 NYSE	18 NESE	15 NWSW	15 NESW	15 NYSE	15 NESE	14 NWSW	14 NESW	14 NYSE	14 NESE	13 NWSW	13 NESW	13 NYSE	13 LT01
18 NWSW	18 NESW	18 NYSE	18 NESE	15 NWSW	15 NESW	15 NYSE	15 NESE	14 NWSW	14 NESW	14 NYSE	14 NESE	13 NWSW	13 NESW	13 NYSE	13 LT02
21 NWNW	21 NENW	21 NWNE	21 NEHE	22 NWNW	22 NENW	22 NWNE	22 NEHE	23 NWNW	23 NENW	23 NWNE	23 NEHE	24 NWNW	24 NENW	24 LT02	24 LT03
21 NWSW	21 NESW	21 NYSE	21 NESE	22 NWSW	22 NESW	22 NYSE	22 NESE	23 NWSW	23 NESW	23 NYSE	23 NESE	24 NWSW	24 NESW	24 LT03	24 LT04
21 NWSW	21 NESW	21 NYSE	21 NESE	22 NWSW	22 NESW	22 NYSE	22 NESE	23 NWSW	23 NESW	23 NYSE	23 NESE	24 NWSW	24 NESW	24 LT04	24 LT05
21 NWSW	21 NESW	21 NYSE	21 SESE	22 SWSW	22 SESW	22 SWSE	22 SESE	23 SWSW	23 SESW	23 SWSE	23 SESE	24 LT07	24 LT08	24 LT09	24 LT10
28 NWNW	28 NENW	28 NWNE	28 NEHE	27 NWNW	27 NENW	27 NWNE	27 NEHE	26 NWNW	26 NENW	26 NWNE	26 NEHE	25 LT04	25 LT03	25 LT01	25 NEHE
28 NWSW	28 NESW	28 NYSE	28 SEHE	27 NWSW	27 NESW	27 NYSE	27 SEHE	26 NWSW	26 LT03	26 LT02	26 LT01	25 LT06	25 SWNE	25 SEHE	
28 NWSW	28 NESW	28 NYSE	28 NESE	27 NWSW	27 NESW	27 NYSE	27 NESE	26 LT04	26 SWSW	26 LT06	26 LT05	25 NWSW	25 NESW	25 NYSE	25 NESE
28 NWSW	28 SESW	28 SWSE	28 SESE	27 SWSW	27 SESW	27 SWSE	27 SESE	26 LT08	26 LT07	26 SWSE	26 SESE	25 SWSW	25 SWSW	25 SWSE	25 SESE
33 NWNW	33 NENW	33 NWNE	33 NEHE	34 NWNW	34 NENW	34 NWNE	34 NEHE	35 LT03	35 NENW	35 NWNE	35 NEHE	36 NWNW	36 NENW	36 NWNE	36 NEHE
33 NWSW	33 SENW	33 SWNE	33 SEHE	34 SWSW	34 SENW	34 SWNE	34 LT01	35 LT03	35 SENW	35 SWNE	35 SEHE	36 SWSW	36 SENW	36 SWNE	36 SEHE

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