

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: **A72-04034**
Date Received: 11/15/1989
Receipt No: M005223
Received By: _____

AMENDED

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

AMENDED

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

AND/OR

Name: SHIRLEY ANN THORNOCK 208-879-4472
Address: P.O. BOX 570
CHALLIS ID 83226

2. Date of Priority: APR 1, 1900

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

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
15N	19E	26	NE	NE	SW	3	CUSTER

5. Description of diverting works:
HEADGATE AND DITCH

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	<u>5.64</u> <i>ngl</i> <u>2.000</u>		

7. Total Quantity Appropriated is:
5.64 *ngl*
2.000 C.F.S. (and/or) A.F.A.

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

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
15N	19E	24	SW	SW	9	IRR	<u>12.0</u> <u>15</u> <i>ngl</i>

10. Place of Use: Continued

Township	Range	Section	1/4 of 1/4	Lot	Use	Acres
					Section Acres	12.0
		25	NW	NW	4	IRR
			SW	NW	4	IRR
					Section Acres	38.0
					Total Acres	50.0

33 7/8
8.0 12 7/8

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:
NONE

14. Remarks:

CLAIMS A72-04032, A72-04033 AND A72-04034 DESCRIBE EXPANSIONS OF THE LAND AS IT WAS PUT INTO PRODUCTION.

15. Basis of Claim: STATUTORY CLAIM

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not _____ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: _____

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): *Nyle J. Hornack* Date: *11-23-93*

Date: _____

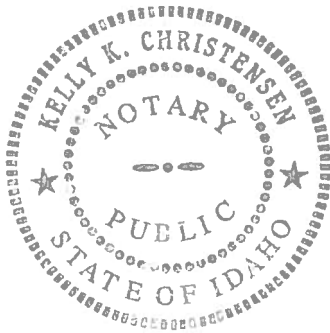
State of Idaho)
County of Custer) SS.

Subscribed and sworn (or affirmed) before me this 23rd day
of Nov 19 93

Kelly K. Christensen
Notary Public

Seal

Residing at Kimberly Rd
My Commission Expires 3-2-98



*we are amending the diversion rate to
recognize the excess flow requirement
and to shift 10 acres from the place
for use chemical under A 72-04032 to
the place of use covered by this claim*

Anne Throck

NAME: THORNOCK

CLAIM: 72-04034

CORRESPONDENCE

EVIDENCE OF

PRIORITY

✓

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
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IN RE THE GENERAL ADJUDICATION
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CHALLIS, ID 83226

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

2. Date of Priority: APR 01, 1900

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

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
15N	19E	26	NE	NE	SW	3	CUSTER

5. Description of diverting works:
HEADGATE AND DITCH

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	2.000		

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

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

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
15N	19E	24	SW	SW	9	IRR	12.0
						Section Acres	12.0
		25	NW	NW	4	IRR	30.0
			SW	NW	4	IRR	8.0
						Section Acres	38.0
						Total Acres	50.0

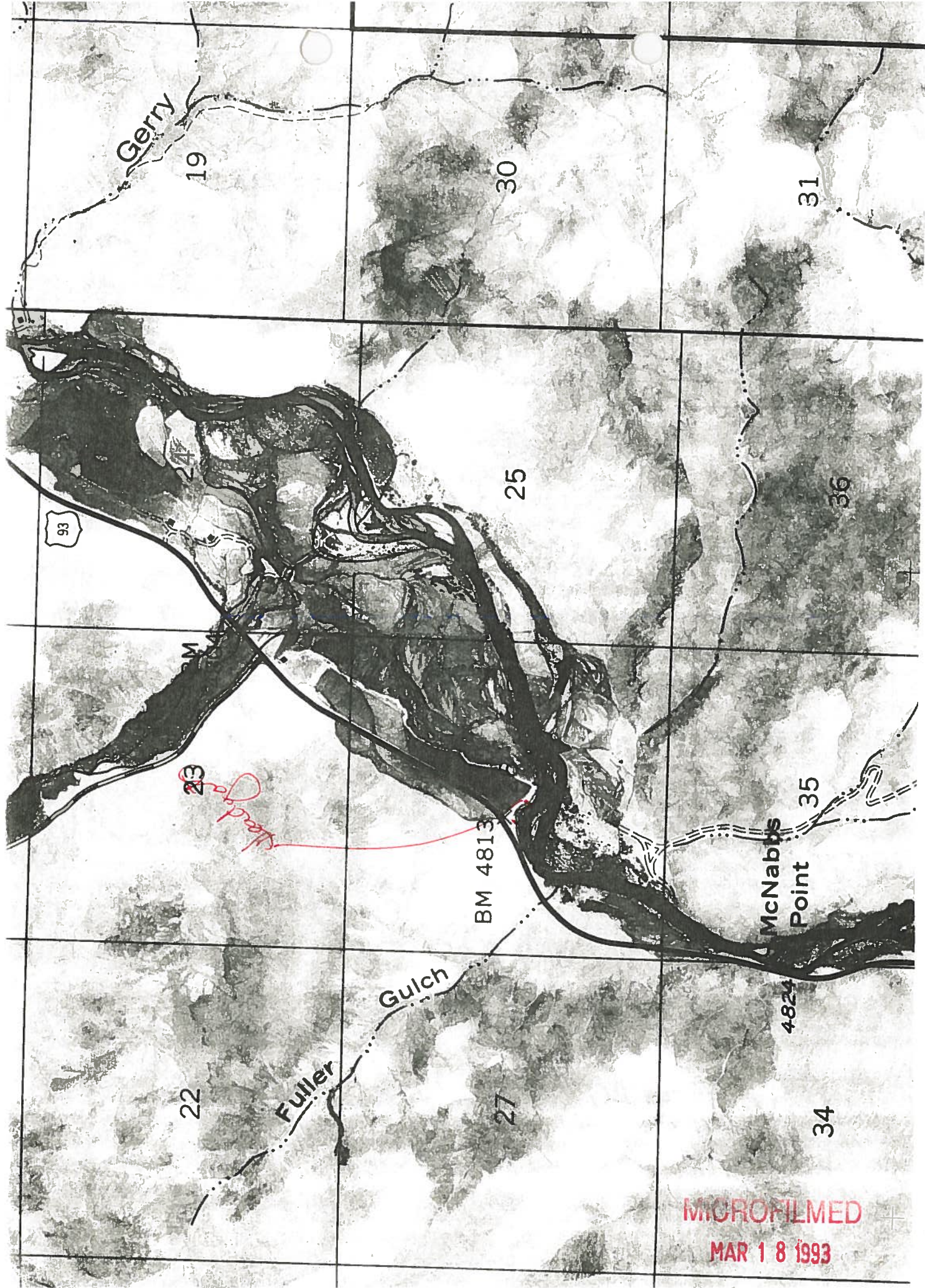
11. Place of use in counties: CUSTER

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

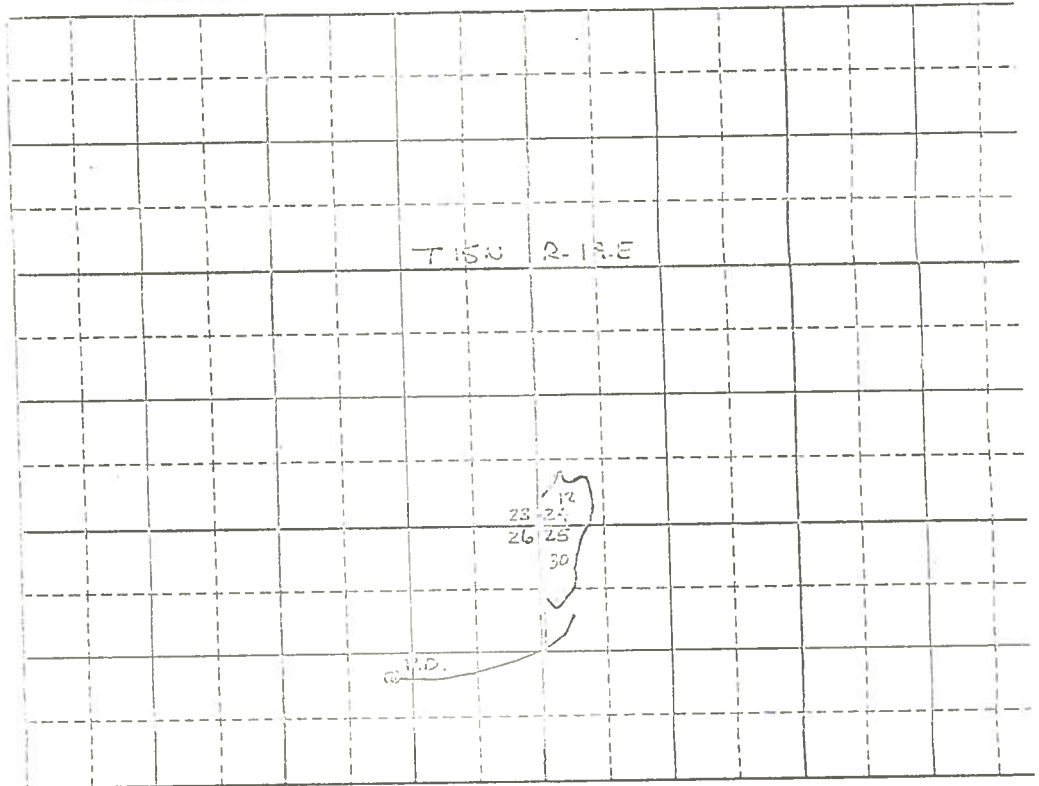
13. Other Water Rights Used:
NONE

14. Remarks:
CLAIMS A72-04032, A72-04033 AND A72-04034 DESCRIBE EXPANSIONS OF
THE LAND AS IT WAS PUT INTO PRODUCTION.

15. Basis of Claim: STATUTORY CLAIM



MICROFILMED
MAR 18 1993



Scale: 2 inches equal 1 mile.

Map should show the location of the point of diversion and the place of use of the water by 40-acre subdivisions, section, township and range of the public land survey system.

State of Idaho)
County of Idaho) ss.

Be it known that the undersigned, being duly sworn, deposes and says that he, she, they subscribed the foregoing claim to a water right, together with all attached information, and that the matters and facts therein are true to the best of the affiant's knowledge.

Subscribed and sworn to me this 5th day of May, 1977

Thyl. Thomsen
(Claimant)

Richard L. Stinson
Notary Public
Residing at Twin Falls, Idaho

MICROFILMED

MAR 18 1993

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: 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 Nyle J Thornock 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

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

CLAIM # A72-04034

Some evidence of priority was found on micro fiche records.
Evidence of priority letter not sent to claimant.

Evidence on micro fiche Claim # 72-04034

MICROFILMED

MAR 18 1993



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3033

CECIL D. ANDRUS
Governor

March 2, 1992

R. KEITH HIGGINSON
Director

A72-04034
NYLE THORNOCK
SHIRLEY ANN THORNOCK
P.O. BOX 570
CHALLIS

ID 83226

Letter not sent

RE: Evidence of Priority

RESPONSE DEADLINE

MAY 1, 1992

Dear Claimant:

The Notice(s) of Claim identified with the number shown above your name on the mailing label has been filed in the Snake River Basin Adjudication (SRBA). The Notice(s) indicate your water usage is based on "Beneficial Use" or a "Statutory Claim". Water rights of this type are established by the historical use of water, dating back to when water was first used for the purpose claimed. **The date of first use, known as the priority date**, has not been confirmed by a License, Decree or Permit. The Department will soon conduct reviews &/or field exams for the claims in your area. Since the priority date of a beneficial use water right can not be confirmed by field examination, **proof must be provided supporting the priority date you have claimed.**

The Department will not recommend the Notice(s) be decreed by the court as claimed if no evidence of a priority date is submitted.

Please find enclosed a computer printout of your Notice(s) and the pamphlet entitled **"Evidence of Priority"**. The pamphlet describes the types of evidence required and suggests which documents will fulfill this requirement. I direct your attention to the two sections entitled **"What Kind of Evidence is Required"** and **"Some Examples of Documents Which May Be Evidence of the Priority Date"**.

Please submit the required evidence supporting the priority date(s) by **May 1, 1992**, referencing all documents with the corresponding Notice number(s). If you have any questions not covered by this letter or the enclosed pamphlet, please contact this office.

Respectfully submitted,

Allen Merritt, P.E.
Water Rights Supervisor

Enclosures

MICROFILMED

MAR 18 1993

Water Right Number - A72-04034 Prefix Translation: ADJUDICATION CLAIM Old (D) Number -
+ - - - - Last Name - - - - + + - - - - First Name - - - + + - - - - Address - - - - - +

*** C - CURRENT OWNER ***
THORNOCK NYLE 1 - P.O. BOX 570
2 -
3 -

State- ID Zip- 83226
City- CHALLIS
Phone - 208-879-4472

SHIRLEY ANN 1 - P.O. BOX 570
2 -
3 -

State- ID Zip- 83226
City- CHALLIS
Phone - 208-879-4472

+ - - Priority Date - - + + - - Region - - - + + - - Stage - - - + + - - Status - - - +
04/01/1900 17 SOUTHERN S - STATUTORY CLAIM

+ - - Source - - - - - + + - - Tributary - - - - - +
SALMON RIVER SNAKE RIVER

+ - - Point of Diversion - - - - - +
Stream Index (Blank if no Index Code)

TwN Rng Sec Tract Lot Rflg County Point of Diversion Stream Index (Blank if no Index Code)

15N 19E 26 NE NE SW 3 (37) CUSTER Water Use Diversion Rate Diversion Volume

+ - - Code Description Period From Period To Diversion Rate Diversion Volume

01 - IRRIGATION 04/01 11/01 2.000

+ - - Total Div. Rate - + + - - Total Div. Volume - + + - - Total Div. Capacity - + + - - Total Consumptive Use - + + - - KW Usage - +
2.000 50.0 125.0

+ - - TwN Rng Sec Tract Lot Acres Code Description County

15N 19E 24 SW SW 9 12.0 01 IRRIGATION (37) CUSTER

15N 19E 25 NW NW 4 30.0 01 IRRIGATION (37) CUSTER

15N 19E 25 SW NW 4 8.0 01 IRRIGATION (37) CUSTER

Total Acres: 50.0

+ - - Diversion Means - HEADGATE AND DITCH

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - NONE

+ - - Remarks - CLAIMS A72-04032, A72-04033 AND A72-04034 DESCRIBE EXPANSIONS OF THE LAND AS IT WAS PUT INTO PRODUCTION.

MICROFILMED
MAR 18 1993

4034

I hereby attest to the fact water was first used on the lands now owned

by Tyler J. Thorsen in 1926 Continuously used

the lands are described as follows T15N R19E S24 SW1/4 12A

S. 25 NW1/4 30A SW1/4 8A COUNTY OF CUSTER

the point of diversion is located in the NE 1/4 SW1/4 S26 T15N R19E

COUNTY OF CUSTER

I have personal knowledge these facts are true.

Signed Ernest J. Starnes

Notary Public - South Dakota
Chas. W. T. Wells

Ralph H. Hutchinson

MICROFILMED

MAR 18 1993

I hereby attest to the fact water was first used on the lands now owned

by Nyle J. Thorneck in 1900 and continuously FB

the lands are described as follows T.15N R.19E S.24 SW 1/4 12A

S.25 NW 1/4 30A SW 1/4 8A COUNTY OF CUSTER

the point of diversion is located in the NE 1/4 SW 1/4 S.26 T.15N R.19E

I have personal knowledge these facts are true. COUNTY OF CUSTER.

Dwight Bradburn

Signed Wm J. Hancock
Notary Public Gr. Td. Co
Chas. W. Td. Co

MICROFILMED

MAR 18 1993

I hereby attest to the fact water was first used on the lands now owned

by Wyle J. Hammond in 1900 A.B.

the lands are described as follows T.15N R.19E S.24 SW 1/4 12A.

S. 15 NW 1/4 30A. SW 1/4 8A. COUNTY OF Custer

the point of diversion is located in the NE 1/4 SW 1/4 S. 26 T.15N R.19E
COUNTY OF CUSTER

I have personal knowledge these facts are true.

Wyle J. Hammond

Signed Wyle J. Hammond
Notary Public for Title Co.
Oklahoma, Tulsa

MICROFILMED

MAR 18 1993

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: 72-04034

NYLE 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 - R72-04034

Prefix Translation: RESEARCH

Old (D) Number -

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

*** C - CURRENT OWNER ***

THORNOCK

NYLE

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
11-6-98

+ - - Priority Date - - + + - - Region - - - + + - - Stage - - - + + - - Status - - - - +
04/01/1900 17 SOUTHERN J - BENEFICIAL USE

+ - - - - Source - - - - - + + - - - - Tributary - - - - - +
SALMON RIVER SNAKE RIVER

+ - - - - Point of Diversion - - - - - +
Twn Rng Sec Tract Lot RFlg County Diversion Name

15N 19E 26 NE NE SW 3 (37) CUSTER

GDS-52

+ - - - - Water Use - - - - - +
Code Description Period From Period To Diversion Rate Diversion Volume

01 - IRRIGATION 04/15 10/15 4.580

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Div. Capacity - + + - Total Consumptive Use - + + - KW Usage - +
4.580 0.0

+ - - - - Place of Use - - - - - +
Twn Rng Sec Tract Lot Acres Code Description County

15N 19E 24 SW SW 9 14.0 01 IRRIGATION (37) CUSTER

15N 19E 25 NW NW 4 28.0 01 IRRIGATION (37) CUSTER

15N 19E 25 SW NW 4 12.0 01 IRRIGATION (37) CUSTER

Total Acres: 54.0

GDS 138

+ - - Diversion Means - HEADGATE AND DITCH

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - NONE

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

EXP THE FOLLOWING RIGHTS ARE DIVERTED THROUGH THE POINT OF
DIVERSION DESCRIBED ABOVE: 72-04032, 72-04033, 72-04034
AND 72-04025.

✓

Water right number - R72-04034

Prefix Translation: RESEARCH

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

+ - - - - Old Water Right Numbers - - - - - +
No Old Water Right Numbers found.

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

+ - - - Decree Plaintiff - - - + + - - - Decree Defendant - - - + + - Decree Date - +
00/00/0000

+ - - Audit Fields - 11/13/92 CLELLAND 12/02/93 CHRISTEN 12/08/93 CHRISTEN 02/03/94 CHRISTEN 03/30/95 POST-STD
10/07/98 KCHRISTE

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

Date: 12/08/1993 User Id: CHRISTEN Subject: COPIED FROM REMARKS

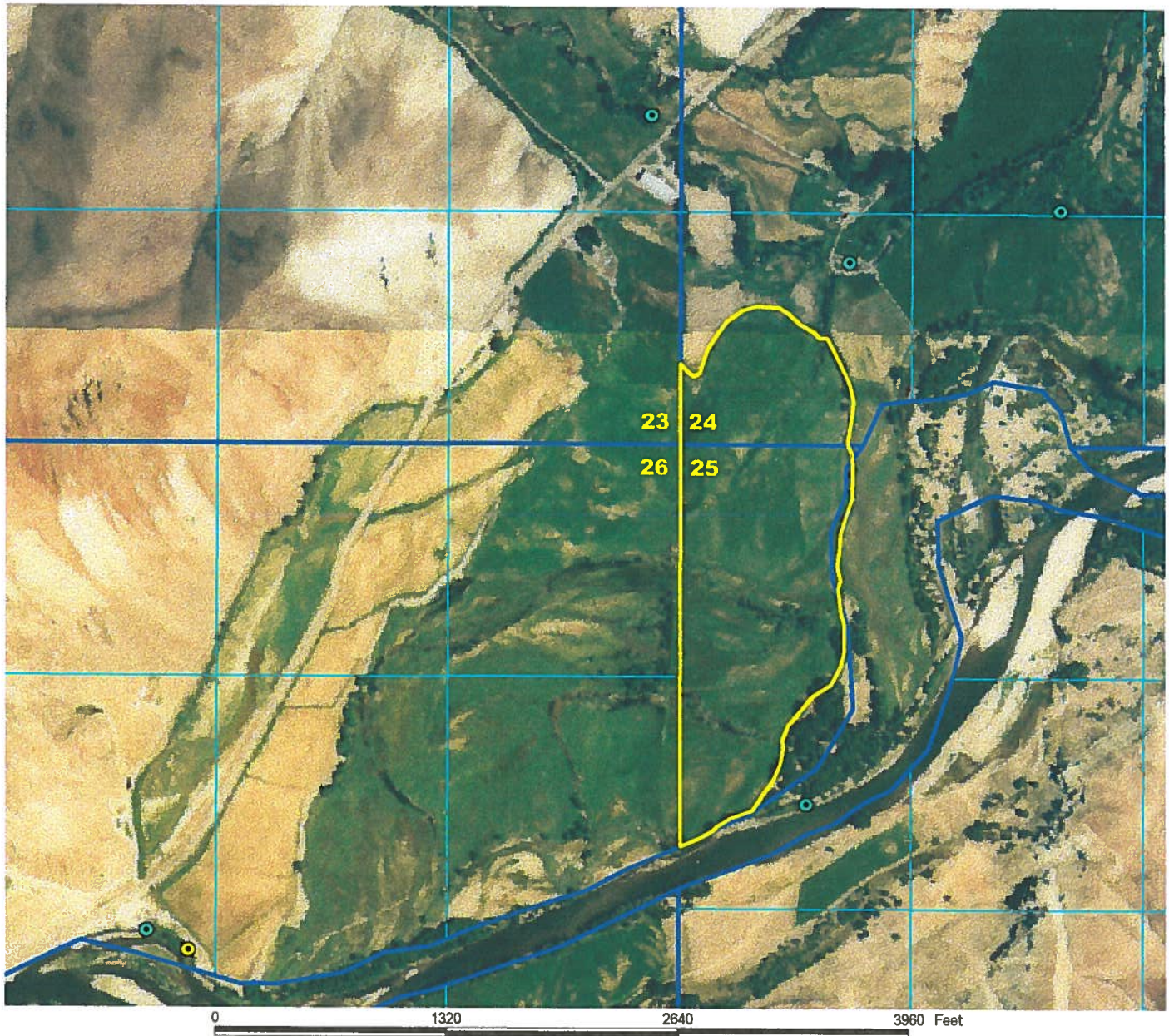
CLAIMS A72-04032, A72-04033 AND A72-04034 DESCRIBE EXPANSIONS OF THE LAND AS IT WAS PUT INTO PRODUCTION.

*** CLAIM WAS AMENDED ON 11-23-93 TO INCREASE THE CLAIMED DIVERSION RATE AND TO SHIFT 10 ACRES FROM THE CLAIMED P/U UNDER
A72-4032 TO THIS CLAIM. KKC ***

+ - - - - 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	-
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	-

72-04034 SALMON RIVER RIGHT THORNOCK



RECOMMENDED PLACE OF USE
TWP 15N. RNG 19E, SEC 24 & 25
data entry on October 7, 1998



-  **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

AINUMBER72-04034DATE10-7-98TRANSFER NUMBER
AGENTKKCCLAIMED ACRE TOTAL60
GIS ACRE TOTAL54

	TWP	RNG	SEC	NE				NW				SW				SE				
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
LAM	15N	19E	24											15						15
GIS														14.3						
ECOM														14						14
LAM	15N	19E	25					33	12											45
GIS								28.4	11.8											
ECOM								28	12											40
LAM																				
GIS																				
ECOM																				
LAM																				
GIS																				
ECOM																				

B72-DBPOU.SHP
SHAPE NOS.
138

B72-DBPOD.SHP
NOS. DESCRIPTION
52 Sec 26 P/D shared with
NENESW 72-04032
04033 and others

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

REEVALUATION OF IRRIGATION RATES BASED UPON 1997 REVISED HUBBLE ANALYSIS PROCEDURES

CLAIM NUMBERS

72-04034

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
<u>CB1</u>	<u>.06</u>	<u>.06</u>			<u>11.55</u>	<u>13.47</u>
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
<u>RPI</u>	<u>.19</u>	<u>.21</u>			<u>4.89</u>	<u>4.57</u>
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
<u>RPI</u>	<u>4.89</u>	<u>10</u>	<u>48</u>	<u>.19</u>	<u>4.46</u> CFS
<u>CB1</u>	<u>.06</u>	<u>.06</u>	<u>6</u>	<u>.06</u>	<u>.12</u> CFS
					CFS
					CFS

TOTAL ACRES 54

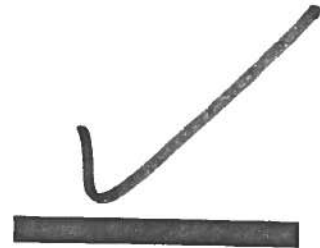
DECREED RATE

CLAIMED DIVERSION RATE =

MEASURED DIVERSION RATE =

5.64 4.58 CFS

R PROOF



CVR



MAPS



PHOTOS

*See A72-
00149*

MISC

*originals
in 00149*
A handwritten checkmark is positioned above a thick horizontal line.

Water Right Number - R72-04034

Prefix Translation:

RESEARCH

Old (D) Number -

*** C - CURRENT OWNER ***
THORNOCK

NYLE

VERIFIED BY *KKC*

THORNOCK

SHIRLEY ANN

State- ID Zip- 83226

Priority Date - - - +
04/01/1900

Region - - - +
17 SOUTHERN

Stage - - - +
J - BENEFICIAL USE

City- CHALLIS
Phone - 208-879-4472

State- ID Zip- 83226

Source - - - - +
SALMON RIVER

Tributary - - - - +
SNAKE RIVER

Twn Rng Sec Tract Lot Rflg County Point of Diversion
15N 19E 26 NE NE SW 3 (37) CUSTER

Code Description Period From Period To Water Use Diversion Rate Diversion Volume
01 - IRRIGATION 04/15 10/15 5.640

+ - Total Div. Rate - + + - Total Div. Volume - +
5.640

+ - Total Consumptive Use - + + - KW Usage - +
150.0

Twn	Rng	Sec	Tract	Lot	Acres	Place of Use Code	Description	County
15N	19E	24	SW SW	9	16.0	01	IRRIGATION	(37) CUSTER
15N	19E	25	NW NW	4	29.0	01	IRRIGATION	(37) CUSTER
15N	19E	25	SW NW	4	15.0	01	IRRIGATION	(37) CUSTER

Total Acres: 60.0

+ - - Diversion Means - HEADGATE AND DITCH

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - NONE

Remarks
THE FOLLOWING RIGHTS ARE ALSO DIVERTED THROUGH THE POINT OF
DIVERSION DESCRIBED ABOVE: 72-04025, 72-04032, 72-04033

[illegible]

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	VERIFIED DATE WHOM/DATE
PRIORITY DATE								
POINT OF DIV	Y	copy of affidavit in Minof.	KKC-93 8-16-91	N	G.	11-11-91 KKC 12-8-93		
SOURCE			"	N	"	"		
AGE OF USE	Y		"	Y	"	"		
DIV. AMOUNT CFS/VOLUME	Y		"	N	"	"		
CONSUMPTIVE USE	-		KKC 12-8-93	Y	6	"		
PURPOSES			"	N	6	"		
PERIOD OF USE			"	Y	6	"		
BASIS OF CLAIM			"	Y	6	"		
REMARKS	Y		"	Y	6	2-8-94 KKC		

VERIFIED BY CODES

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

MAPS USED:

DATE:

ASCS ~~1-75~~ 1956
ORTHO 1-75
NAPP 5025 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.

11-16-92
sw

PAGE: 1
GENERAL INFORMATION

CLAIM NUMBER: A72-04034

LAST: THORNOCK
ADDRESS: P.O. BOX 570
CITY: CHALLIS
PHONE NUMBER: 208-879-4472
OWNER CODE: C

FIRST: NYLE
STATE: ID ZIP: 83226

LAST: THORNOCK
ADDRESS: P.O. BOX 570
CITY: CHALLIS
PHONE NUMBER: 208-879-4472
OWNER CODE: C

FIRST: SHIRLEY ANN
STATE: ID ZIP: 83226

FIELD EXAM REQUIRED?
VERIFICATION REQUIRED DUE TO REMARKS?
DATABASE Y FIELD EXAMINER

CLAIM REMARKS: CLAIMS A72-04032, A72-04033 AND A72-04034 DESCRIBE EXPANSIONS OF
THE LAND AS IT WAS PUT INTO PRODUCTION.

FIELD EXAMINATION INFORMATION

CONTACT PERSON:

Deleat Hughes

PHONE NUMBER: ()

DATE OF FIELD EXAM:

8/16/93

APPOINTMENT MADE: Y(_____) N(_____) _____

TIME: _____ A(_____) P(_____) DATE: _____

ACCOMPANIED BY:

9-1-93

PHONE NUMBER: ()

RELATIONSHIP TO CLAIMANT:

Loose Holdings

DIRECTIONS TO PROPERTY / REMARKS:

A blank sheet of lined paper with horizontal ruling lines and a dashed midline, resembling notebook paper.

A. AJ CLAIM: # A72-04034 PRIORITY DATE: 04-01-1900 STAGE: S
B. WR RECORD: # 72-04034 PRIORITY DATE: 04-01-1900 STAGE: S

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(X)

REMARKS:

*affidavit from Miss L. 27 3 support 1900 and claim as
personal knowledge.*

RECOMMENDED PRIORITY DATE:
04-01-1900

REVIEWED BY

DATE

See 11-17-92

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A72-04034	15N	19E	26	NE	NE	SW	3	CUSTER

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

A PREFIX
A72-04031
A72-04032
A72-04033
A72-07055

R PREFIX
NONE

72-04031
72-04032
72-04033
72-07055

SOURCE: SALMON RIVER
TRIB: SNAKE RIVER

B. WR POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
72-04034	15N	19E	26	NE	SW		3	CUSTER

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

72-04031
72-04032
72-04033
72-07055

A72-04031
A72-04032
A72-04033
A72-07055

NONE

SOURCE: SALMON RIVER
TRIB: SNAKE RIVER

C. FIELD EXAM REQUIRED?

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

REMARKS:

*claimed legal description verified during field exam
accept as claimed.*

$\frac{1}{4}$

1/4

101

COUNTY

TRIB: SNAKE RIVER *OK*

REVIEWED BY: KHC DATE: 12-8-93

DATE: 12-8-83

A. ROOT WATER RIGHT NUMBERS: A72-04034

B. POU LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA	FIELD EXAM.	RECOMM. ACRES
15N	19E	24	SW	SW	9	THORNOCK, NYLE J.	A72-04034 /12.0	72-04034 /12.0			
			SW	SW		THORNOCK, NYLE J.	A72-00149 /18.0	72-00149 /			
			SW	SW		THORNOCK, NYLE J.	A72-00150 /18.0	72-00150 /			
			SW	SW	7	THORNOCK, NYLE	A72-04031 /15.0	72-04031 /15.0			
			SW	SW	7	THORNOCK, NYLE	A72-04032 /10.0	72-04032 /10.0			
			SW	SW	7	THORNOCK, NYLE J.	A72-04033 /2.0	72-04033 /2.0			
			SW	SW		THORNOCK, NYLE J.	72-04191 /18.0				
15N	19E	25	NW	NW	4	THORNOCK, NYLE	A72-04034 /30.0	72-04034 /30.0			43.0
			NW	NW	4	THORNOCK, NYLE	A72-04032 /20.0	72-04032 /20.0			
			NW	NW		BLUME, IVAN	72-00149 /				
			NW	NW		BLUME, IVAN	72-00150 /				
15N	19E	25	SW	NW	4	THORNOCK, NYLE	A72-04034 /8.0	72-04034 /8.0			43.0
			SW	NW	4	THORNOCK, NYLE	A72-04032 /1.0	72-04032 /1.0			
			SW	NW		HUTCHISON, RALPH W.	A72-04133 /15.0	72-04133 /15.0			
TOTAL ACRES							A72-04034 60	50.00		50.00	109.00
										15	15

ARE IRRIGATED ACRES FOUND IN TRACTS OTHER THAN INDICATED ABOVE, Y () N ()
IF YES SEE ATTACHED SHEET:

C. FIELD EXAM REQUIRED?

DUE TO POU DISCREPANCY? (Y/N)

DATABASE Y EXAMINER

POU COUNTY: CUSTER

PRESUMPTION FLAG:

REMARKS:

are System decs for field Boundary analysis (dated 12-6-93). P/U acres determined from map using a planimeter.

RECOMMENDATIONS:

TOTAL ACRES: 60

REVIEWED BY: KKC

DATE: 12-8-93

40 60

29 29

16 16

A. AJ CLAIMED USES:

PURPOSES
A72-04034 IRRIGATION

FROM ~~04-01~~ ^{MONTH/DAY} ~~TO 01-01~~

4-15 10-15 change to dpt standards.

2.000 CFS DIVERSION QUANTITY

TOTAL DIVERSION RATE/VOLUME CLAIMED

2.000 CFS

Amended to 5.64 CFS

B. WR RECORDED USES:

PURPOSES
72-04034 IRRIGATION

FROM 04-01 TO 11-01 MONTH/DAY

2.000 CFS DIVERSION QUANTITY

TOTAL DIVERSION RATE/VOLUME CLAIMED

2.000 CFS

C. FIELD EXAM REQUIRED?

DUE TO WATER-USE DISCREPANCY?	(Y/N)	DATABASE	FIELD EXAMINER
DUE TO DIVERSION RATE DISCREPANCY?	(Y/N)	N	---
DUE TO PERIOD FROM/TO DISCREPANCY?	(Y/N)	N	---

D. PERIOD OF USE:

RECOMMEND AS CLAIMED?

Y() N()

RECOMMEND TO WR STANDARDS OR OTHER?

Y() N() Explain in remarks, below.

REMARKS:

Claimed rate 5.64 CFS

excess flow analysis - 5.69 CFS

Recommended claimed rate.

5.64 / 60 = 0.094 CFS / hr
to reach D08 Not needed rate

A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORD? Y() N()

AJ TOTAL CLAIMED DIVERSION RATE: 2.000 CFS
WR ROOT RIGHT TOTAL DIVERSION RATE: 2.000 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 ATTACHED CALCULATIONS.

FLOW MEASUREMENT

*See Attached
Flow Measurement dated 12-6-93
Pg 2-34*

C. ARE OTHER WATER RIGHTS USED? Y() N(X) IF YES COMPLETE OVERLAP REVIEW.

OTHER RIGHTS LISTED IN CLAIM: NONE

LIST ALL RIGHTS WITH A SAME POU AND IRRIGATION USAGE:

CLAIM NO.	SOURCE	NAME	DIV. RATE	DIV. RATE/ACRE	DIV. VOL.	DIV. VOL./ACRE
A72-04034	SALMON RIVER	THORNOCK, NYLE	2.000	0.040		
A72-00149	MORGAN CREEK	THORNOCK, NYLE J.	0.800	0.016		
A72-00150	MORGAN CREEK	THORNOCK, NYLE J.	0.200	0.004		
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		
A72-04133	SALMON RIVER	HUTCHISON, RALPH W.	12.000	0.054		

NO RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION

D.

RATE/VOLUME CALCULATIONS: (IRRIGATION)

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

1b. CALCULATIONS

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

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

2. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = 125.0 AF/A

ACRES 60 $\times$ CONSUMPTIVE VOL. AF/A FOR AREA 2.5 =

TOTAL CONSUMPTIVE USE 150 AF/A

3. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = 11/4 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.)

per record book

RECOMMENDATIONS:

REC. PURPOSES	REC. PERIOD		REC. DIV		REC. DIV		REC. CONS.	
	FROM	TO	RATE	CFS	VOL.	AF/A	USE	EXAMINER
IRRIGATION	~~04-01~~ 4-15	10-15	~~2.000~~ 2.000	~~5.67~~ 5.67			~~125.0~~ 125.0	~~1.50~~ 1.50
TOTAL FOR THIS RIGHT								

REVIEWED BY: KKC
DATE: 12-8-93

A. CHECK ONLY THE FOLLOWING THAT APPLY:

OWNERSHIP
FOREFEIT/ABANDON
ADDITIONAL DIV. AMOUNT

ACCEPTED
AS CLAIMED
()
()
()
NEEDS
REVIEW
()
()
()

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 72-04034

TOTAL DIVERSION RATE OF WR SPLITS

DATABASE
2.000

EXAMINER

CFS

SPLITS:

OLD RIGHT
NUMBERS

CURRENT
CLAIM NUMBERS

DIVERSION
RATE

CURRENT "R"
CLAIM NUM.

"R" DIV.
RATE

WR RIGHT
NUMBERS

DIVERSION
RATE

A72-04034

2.000

-

72-04034

2.000

TOTAL CFS

2.000

2.000

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: *Robert Christensen*

NAME OF FIELD EXAMINER:

DATE: 3-2-94

TITLE: *Substantive Examiner*



Morgan Creek

HUGHES DITCH

PUMP DISCHARGES

1002

OUT

L15

L10

CLAIM Thomas Clavin INT KKC
T. R. S. 0/0
P/D
PHOTO BLM 7-10D-8 2002
DT. AID. 7-10-88 Elylt

R19E R20E

CHALLIS SW QUADRA

IDAHO - CUSTER CO

7.5 MINUTE SERIES

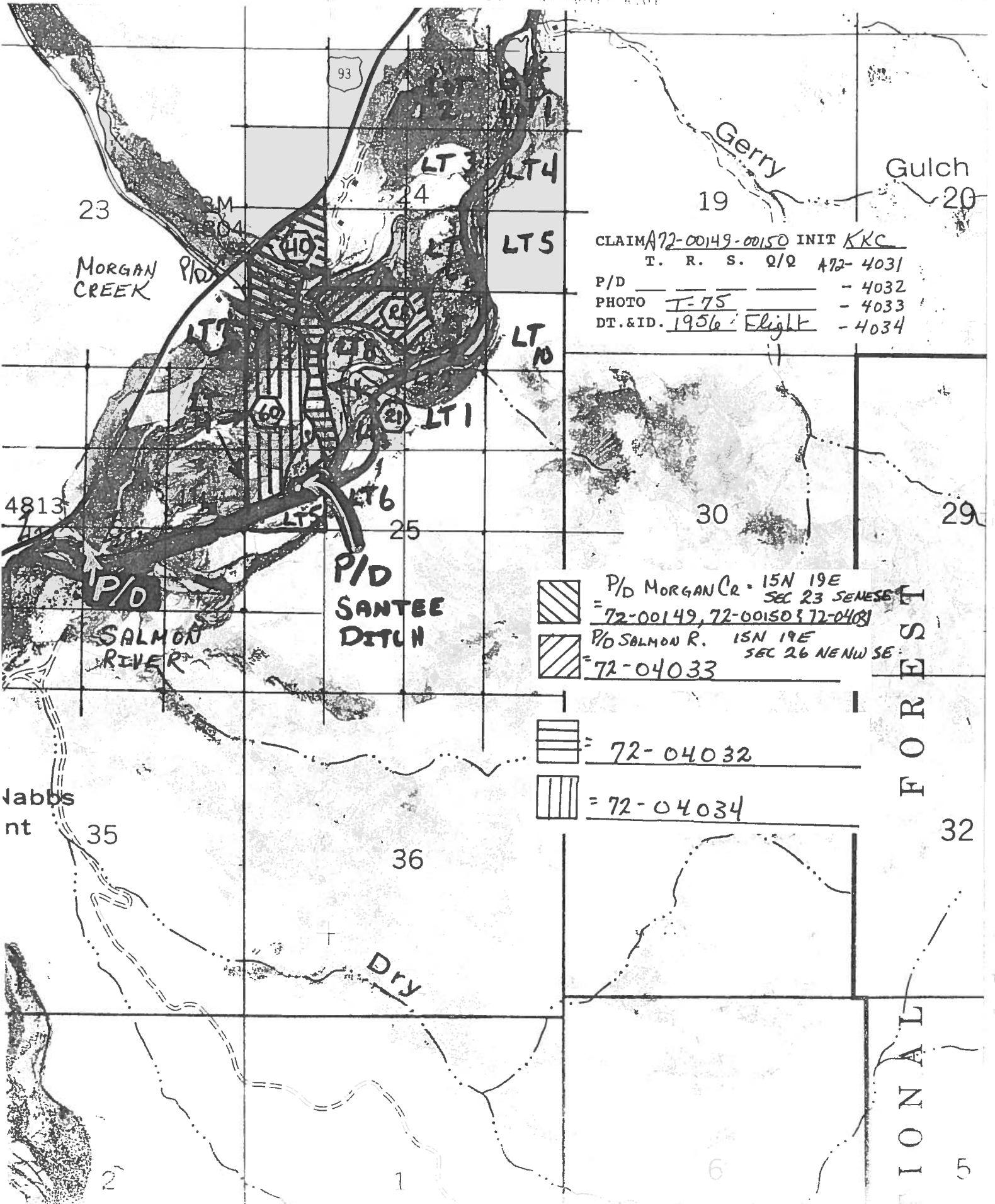
ALLIS NW

11'

R 19 E

11' 00' 00" 00' 00" 00' 00"

11'



REMARK AND CONDITION CODE WORKSHEET

SYSTEM CLAIM NUMBERS

~~A72-04032~~ ~~A72-04031~~
~~-04033~~ ~~A72-04025~~
~~-04034~~

AGENT

INITIALS

DATE

CLAIM NO.
OR ENTRY
ORDERREMARK
CODE

ENTRY DATA

CONDITION
CODESTAGE
OR
STATUSPRESUMPTION
CODE

F06

⁴
 All ~~#~~ less respective
 claim.

described & uses same
 ditch as diff system
 not included

4031 - 1.8 CFS

4032 - 1.44 CFS

4033 - 1.90 CFS

4034 - 5.64 CFS

~~10.79~~ CFS

4025 - 8.99

system capacity of 19.8 CFS
 is greater than total recommended
 div rates therefore no system
 capacity limiter necessary.

FIELD EXAM ATTACHMENT

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 Ptu 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 & Hughes. There is no clear division line between the properties in some areas. The Hughes property is

FIELD EXAM ATTACHMENT

original in
72-00149

PAGE: 2/4

FILES: all Thornock claims

AGENT: KKC

DATE: 12-6-93

ATTACHMENT 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.C. P/U, west of the Santee ditch (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.

FIELD EXAM ATTACHMENT

original in
72-00149

PAGE: 3/4

FILES: A72-00149, 00150

04031

AGENT: KKC

DATE: 12-6-93

ATTACHMENT SUBJECT: Morgan Creek diversions

Found 40 Acres irrigated through M. Cr system. All claims use a common delivery system. 00149 & 00150 are diverted from M. Cr. on the Savage property. The ditch enters the Thornock 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 wastewater returned to system is already covered under decrees. Wastewater 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 CFS

Decreed A72-00149 - 0.80 CFS

A72-00150 - 0.20 CFS

1.00 CFS total.

Differences - measure 1.82 analysis 2.92 CFS

decree 1.00 decree 1.00 CFS

0.82 1.92 CFS

FIELD EXAM ATTACHMENT

PAGE: 4/4
FILES: A72-04032, 04033
04034
AGENT: KKC
DATE: 12-6-93

orig. ind.
A72-00149

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 S-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 Duffin Pump site for.
A72-07055.

CLAIM NO. --- A72-04034
 AGENT ----- KKC
 DATE ----- 12/08/93

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	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	7078	0	
				IRRIGATION DAYS	10		
				DRY DAYS	0		
				SET TIME(hours)	8		
alfalfa (hay or seed)	5	0.5	1.76	CALCULATED RUN (run = acres*43560/width)			
corn (field or silage)	4	0.5	1.61	LENGTH (RUN) =	369		
grain (winter or spring)	4	0.5	1.61	CALCULATED BORDER WIDTH (ditch length/irr days * cha			
pasture (or grass hay)	3	0.5	1.46	WIDTH =	236		
other (enter below)				THEORETICAL ROTATION (mad/net irr req in inches per			
				SELECTED MAD =	1.46		
				ROTATION =	6.3 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	60	FLOOD			1.47	3.84	4.87	5.86	4.56	3.23	2.07
ALFALFA	0	FLOOD	6.5		1.28	4.51	5.65	6.25	4.45	2.52	0.7

Summary 60 1.47 3.84 4.87 5.86 4.56 3.23 2.07
 Peak Net Irrigation Requirement (mm/day) = 5.86

 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

GRADED BORDER EVALUATION

Job name: A72-04034
By: KKC

Location: RP1 SOILS FOR 60 ACRES
Date: Dec 8, 1993

Roughness coefficient (n)= 0.250 Intake family (If)=3.00
Slope (S)= 0.0200 ft/ft Border width (W)= 236 ft
Net application (Fn)= 1.46 inches Border length (L)= 369 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
5.65	Gross depth is less than required gross application depth					
5.66	Gross depth is less than required gross application depth					
5.67	Gross depth is less than required gross application depth					
5.68	Gross depth is less than required gross application depth					
5.69	0.024	22.58	21.10	0.02	6.5	
5.70	0.024	22.62	21.10	0.06	6.5	
5.71	0.024	22.66	21.10	0.10	6.4	
5.72	0.024	22.70	21.10	0.14	6.4	
5.73	0.024	22.74	21.10	0.18	6.4	
5.74	0.024	22.78	21.10	0.22	6.4	
5.75	0.024	22.82	21.10	0.26	6.4	

04 SEHW	04 SWNE	04 SENE	03 SWNW	03 SEHW	03 SWNE	03 SENE	02 SWNW	02 SEHW	02 SWNE	02 SENE	01 SWNW	01 SEHW	01 SWNE	01 SENE
04 NEHW	04 NWSE	04 NESE	03 NWSW	03 NEHW	03 NWSE	03 NESE	02 NWSW	02 NEHW	02 NWSE	02 NESE	01 NWSW	01 NEHW	01 NWSE	01 NESE
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 SEHW	09 SWNE	09 SENE	10 SWNW	10 SEHW	10 SWNE	10 SENE	11 SWNW	11 SEHW	11 SWNE	11 SENE	12 SWNW	12 SEHW	12 SWNE	12 SENE
09 NEHW	09 NWSE	09 NESE	10 NWSW	10 NEHW	10 NWSE	10 NESE	11 NWSW	11 NEHW	11 NWSE	11 NESE	12 NWSW	12 NEHW	12 NWSE	12 NESE
09 SESW	09 SWSE	09 SESE	10 SWSW	10 SESW	10 SWSE	10 SESE	11 SWSW	11 SESW	11 SWSE	11 SESE	12 SWSW	12 SESW	12 SWSE	12 SESE
18 SEHW	18 SWNE	18 SENE	15 SWNW	15 SEHW	15 SWNE	15 SENE	14 SWNW	14 SEHW	14 SWNE	14 SENE	13 SWNW	13 SEHW	13 SWNE	13 SENE
18 NEHW	18 NWSE	18 NESE	15 NWSW	15 NEHW	15 NWSE	15 NESE	14 NWSW	14 NEHW	14 NWSE	14 NESE	13 NWSW	13 NEHW	13 NWSE	13 NESE
18 SESW	18 SWSE	18 SESE	15 SWSW	15 SESW	15 SWSE	15 SESE	14 SWSW	14 SESW	14 SWSE	14 SESE	13 SWSW	13 SESW	13 SWSE	13 SESE
8 SESW	18 SWSE	18 SESE	15 SWSW	15 SESW	15 SWSE	15 SESE	14 SWSW	14 SESW	14 SWSE	14 SESE	13 SWSW	13 SESW	13 SWSE	13 SESE
1 HW	21 NWNE	21 NENE	22 NWNW	22 NENW	22 NWNE	22 NENE	23 NWNW	23 NENW	23 NWNE	23 NENE	24 NWNW	24 NENW	24 LT02	24 LT03
1 HW	21 SWNE	21 SENE	22 SWNW	22 SEHW	22 SWNE	22 SENE	23 SWNW	23 SEHW	23 SWNE	23 SENE	24 SWNW	24 SEHW	24 LT03	24 LT04
1 SW	21 NWSE	21 NESE	22 NWSW	22 NESW	22 NWSE	22 NESE	23 NWSW	23 NESW	23 NWSE	23 NESE	24 NWSW	24 NESW	24 LT04	24 LT05
1 SW	21 SWSE	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
8 HW	28 NWNE	28 NENE	27 NWNW	27 NENW	27 NWNE	27 NENE	28 NWNW	28 NENW	28 NWNE	28 NENE	25 LT04	25 LT03	25 LT01	25 NENE
8 HW	28 SWNE	28 SENE	27 SWNW	27 SEHW	27 SWNE	27 SENE	28 SWNW	28 LT03	28 LT02	28 LT01	25 LT06	25 SWNE	25 SENE	
1 SW	28 NWSE	28 NESE	27 NWSW	27 NESW	27 NWSE	27 NESE	28 LT04	28 SWNW	28 LT05	28 LT08	25 NWSW	25 NESW	25 NWSE	25 NESE
1 SW	28 SWSE	28 SESE	27 SWSW	27 SESW	27 SWSE	27 SESE	28 LT08	28 LT07	28 SWSE	28 SESE	25 SWSW	25 SESW	25 SWSE	25 SESE
W	23 NWNE	23 NENE	24 NWNW	24 NENW	24 NWNE	24 NENE	25 LT03	25 NENW	25 NWNE	25 NENE	26 NWNW	26 NENW	26 NWNE	26 NENE
23	23	24	24	24	24	24	25	25	25	25	26	26	26	26

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