

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: A43-00325
Date Received: 6/13/1989
Receipt No: S008195
Received By: _____

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: NATHAN F. GARDINER 208-645-2563
Address: HC 72 BOX 2038
MALTA, ID 83342

AND
Name: GOLDEN F. GARDINER 208-645-2563
Address: HC 72 BOX 2038
MALTA, ID 83342

AND
Name: BARBARA E. GARDINER 208-645-2563
Address: HC 72 BOX 2038
MALTA, ID 83342

2. Date of Priority: APR 30, 1887

3. Source: CASSIA CREEK Trib. to: RAFT RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
13S	24E	25	NE	SW	NW		CASSIA

5. Description of diverting works:
HEADGATE

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	03/15	11/15	0.500		

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

8. Total consumptive use is 480.0 Acre Feet Per Annum.

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
13S	25E	30	NW	SW	3	IRR	40.0
			SW	SW	4	IRR	40.0
			SE	SW		IRR	40.0
			SW	SE		IRR	40.0
Section Acres							160.0
Total Acres							160.0

11. Place of use in counties: CASSIA

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

13. Other Water Rights Used:
A43-00326

14. Remarks:

OWNERSHIP CHANGE 4/18/90 ADM

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

ALBION-IDAHO LAND CO.
Decree Plaintiff

vs

JOBE ADAMS ET AL
Decree Defendant

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): _____ Date: _____

Date: _____

State of Idaho)
) ss.
County of _____)

Subscribed and sworn (or affirmed) before me this _____ day

of _____ 19 _____

Notary Public

Seal

Residing at _____

My Commission Expires _____

CHANGE IN OWNERSHIP OF NOTICE OF CLAIM

[] Water Right Number(s): A43-00058; A43-00059; A43-00060; A43-00061; A43-00325; A43-00326; A43-00096; A43-00097A; A43-00098A; A43-00410

[] Name and Address of
Former Claimant:

Reuben A. Ward

Box 172

Albion, Idaho 83311

[] New Claimant(s):

Nathan F. Gardiner and Golden F. Gardiner

B2v62v2 E

[] New Mailing Address:

HC 72, Box 2038

Malta, Idaho

83342

New Telephone Number: (208) 645 - 2563

[] Does the change in ownership result in a splitting of the
water right claimed? yes x no

If yes, then describe the portion of the water right that is
now claimed by the new owner:

[X] Attach proof of ownership
Describe proof attached:

Copy of executed Agreement of Sale

[] Signature of New Claimant(s):

Nathan F. Gardiner
Golden F. Gardiner

Date: March 29, 1990

FOR IDWR USE ONLY:

Initial Review and Data-Entry

Date: 4/18/90 By: AD

Further Action Needed:

Further Action Taken

Date: By:

Final Review and Data-Entry

Date: 4/18/90 By: AD

Claim Numbers of Split, if any:

RECEIVED

APR 12 1990

Department of Water Resources
Southern Region Office

MICROFILMED

MAR 03 1993



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 734-3578

CECIL D. ANDRUS
Governor

R. KEITH HIGGINSON
Director

18-Apr-1990 14:23

Nathan/Golden/Barbara Gardiner
HC 72 Box 2038
Malta, ID 83342

RE: SRBA Claims A43-00058, A43-00059, A43-00060, A43-00061, A43-00325
A43-00326, A43-00096, A43-00097A, A43-00098A &
A43-00410A

Dear Claimants:

Pursuant to the notification that you presently own the property in which the above referenced adjudication claims are appurtenant, the Department has changed the record of the current owner as you requested. Please find enclosed copies of the computer record of the claims noting the change in claimant. Please review the record and if you have any corrections please notify this office.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Allen Merritt'.

Allen Merritt, P.E.
Water Rights Supervisor

Encl:

MICROFILMED

MAR 13 1993

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: A43-00325
Date Received: 6/02/1989
Receipt No: 5008195
Received By: LW

RECEIVED

JUN 08 1989

Department of Water Resources
Southern Region Office

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: REUBEN~~X~~ WARD 208-673-5349
Address: BOX 172
ALBION, ID 83311

AND/OR
Name: DELLA WARD 208-673-5349
Address: BOX 172
ALBION, ID 83311

2. Date of Priority: APR 30, 1887

3. Source: CASSIA CREEK Trib. to: RAFT RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
13S	24E	25	NE	SW	NW		CASSIA

5. Description of diverting works:
HEADGATE

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	03/15	11/15	0.500		

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

8. Total consumptive use is Acre Feet Per Annum.

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4	of	1/4	Lot	Use	Acres
13S	25E	30	NW		SW	3	IRR	40.0
			SW		SW	4	IRR	40.0
			SE		SW		IRR	40.0
			SW		SE		IRR	40.0
							Section Acres	160.0
							Total Acres	160.0

11. Place of use in counties: CASSIA

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

13. Other Water Rights Used:
A43-00326

14. Remarks:

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

ALBION-IDAHO LAND CO.
Decree Plaintiff

vs

JOBE ADAMS ET AL
Decree Defendant

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): Reuben Hard Date: 6-8-89
Della Hard Date: 6-8-89

State of Idaho)
County of TF) SS.

Subscribed and sworn (or affirmed) before me this 8th day
of June 19 89 Don White
Notary Public

Seal

Residing at TF
My Commission Expires 5/94

Water Right Number - 43-00325

Adj. Flag Translation: Standard Water Right Number

Old (D) Number -

--- Last Name --- +

+ First Name - - +

+ Address - - - - -

State - Zip -

*** C - CURRENT OWNER ***
TWITCHELL

LORENZO

1 -
2 -
3 -
City-
Phone -

+ Priority Date - - +
04/30/1887

+ Region - - - +

+ Stage - - - +
D - DECREED

+ Status - - - +

+ Source - - - - -
CASSIA CREEK

+ Tributary - - - - -
RAFT RIVER

+ Twn Rng Sec Tract Lot RFlg County Point of Diversion - - - - -
Stream Index (Blank if no Index Code)

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

01 - IRRIGATION

0.500

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

Twn	Rng	Sec	Tract	Lot	Acres	Place of Use Code	Description	County
13S	25E	30	NW SW	3		01	IRRIGATION	31 CASSIA
13S	25E	30	SW SW	4		01	IRRIGATION	31 CASSIA
13S	25E	30	SE SW			01	IRRIGATION	31 CASSIA
13S	25E	30	SW SE			01	IRRIGATION	31 CASSIA

Total Acres:

+ - - Diversion Means -

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - 43-0326

+ - - Remarks -
No Remarks found.

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

+ - - Decree Plaintiff - - - +
ALBION-IDAHO LAND CO.

+ - - Decree Defendant - - - +
JOBE ADAMS ET AL

+ - Decree Date - +
10/18/1928

MICROFILMED
MAR 13 1993

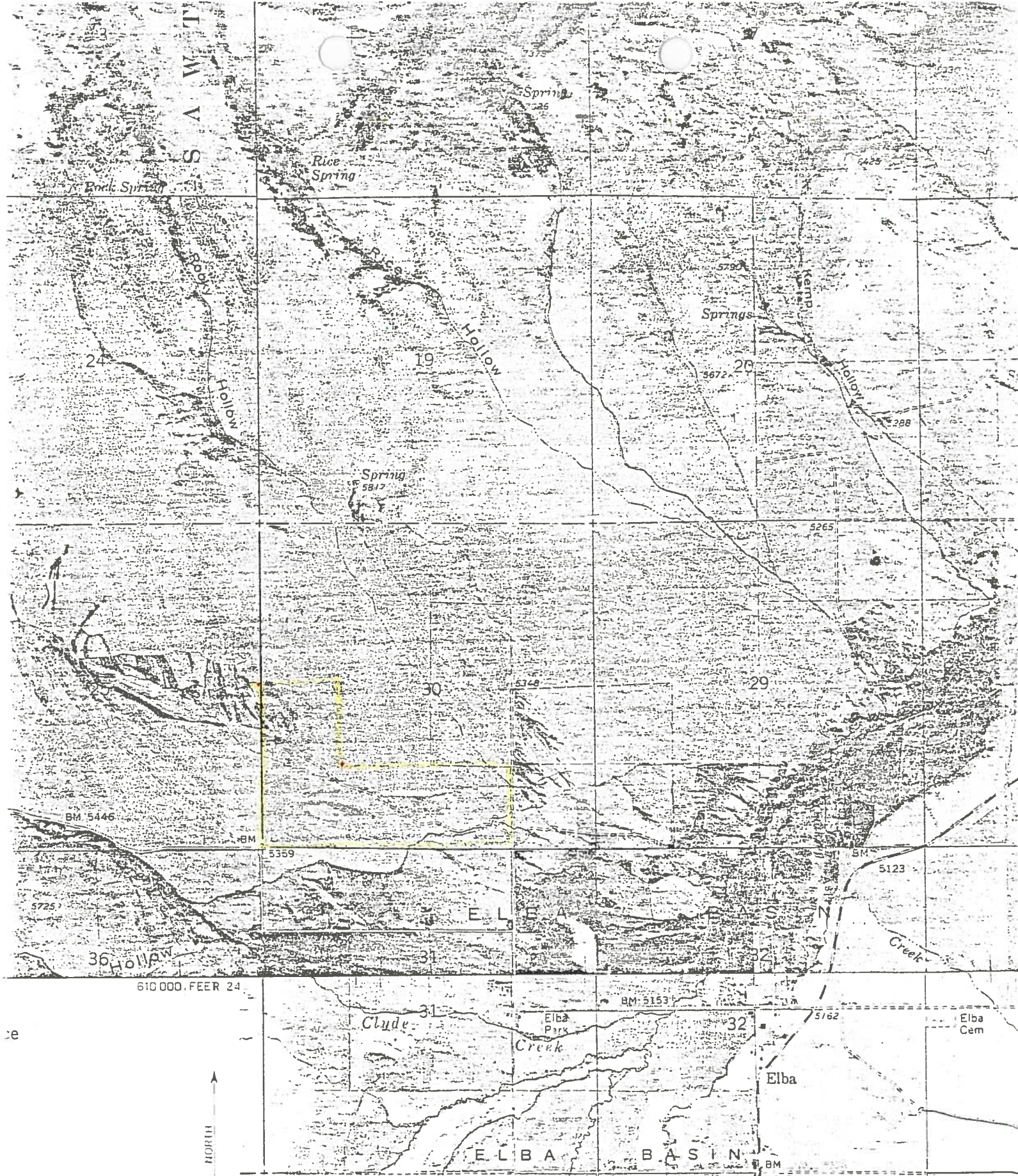
Add. flag translation: Standard Water Right Number

05/28/88 CONVERT

Water Rights Dates and Flags Area

Proof Due Date	00/00/0000	Field Exam Made	00/00/0000	Field Exam Fee	-
Approved/Denied	00/00/0000	Protested Date	00/00/0000	Swan Falls	-
Proof Made Date	00/00/0000	Hearing Date	00/00/0000	Temporary Right	P
Start Work Date	00/00/0000	Verified Date	04/08/1985	DLE/Carey Act	-
Order Show Cause	00/00/0000	Receipt Number	-	Water District	43C
Licensed Date	00/00/0000	Appl Received	00/00/0000	Transfer/Amended	-
Decree Date	10/18/1928				

MICROFILMED
MAR 03 1993



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, MENLO PARK, CALIF. 94025

MICROFILMED

MAR 03 1953

sources pursuant to
ations in the Snake
side and no legal
and reproduction
for the accuracy

01/31/2001

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

RIGHT NUMBER: 43-325

NAME AND ADDRESS: BARBARA E GARDINER
GOLDEN F GARDINER
NATHAN F GARDINER
HC 72 BOX 2038
MALTA, ID 83342

VERIFIED BY KKC

SOURCE: COTTONWOOD CREEK

TRIBUTARY: CLYDE CREEK

QUANTITY: 0.5 CFS

USE OF THE RIGHTS LISTED BELOW IS LIMITED TO A TOTAL COMBINED DIVERSION
RATE OF 2.22 CFS. COMBINED RIGHTS 43-00325 AND 43-00326.

PRIORITY DATE: 04/30/1887

POINT OF DIVERSION: T13S R24E S25

NESWNW

Within CASSIA County

PURPOSE AND
PERIOD OF USE:

PURPOSE OF USE
IRRIGATION

PERIOD OF USE
4-01 10-31

QUANTITY
0.50 CFS

PLACE OF USE:

IRRIGATION Within CASSIA County

T13S R25E S30	LOT 4	SWSW	35	T13S R25E S30	SESW	23
T13S R25E S30		SWSE	16			

74 ACRES TOTAL

USE OF THE RIGHTS LISTED BELOW IS LIMITED TO THE IRRIGATION OF A COMBINED
TOTAL OF 74 ACRES IN A SINGLE IRRIGATION SEASON. COMBINED RIGHTS; 43-00325
AND 43-00326.

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

EXPLANATORY MATERIAL: BASIS OF CLAIM - Decreed

THE COMBINED FLOW RATE FOR THE RIGHTS LISTED BELOW INCLUDES 0.74 CFS FOR
CONVEYANCE LOSS BETWEEN THE POINT OF DIVERSION AND THE FIELD HEADGATE.
COMBINED RIGHTS: 43-00325, AND 43-00326.

AJ0743NP
(OD-124)

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIMS PROOF READING REPORT
(REGIONAL)

04/13/00 09:40:54
Page 1

Water Right Number - R43-00325

Prefix Translation: RESEARCH

Old (D) Number -

*** C - CURRENT OWNER ***
GARDINER

GOLDEN F

1 - HC 72 BOX 2038
2 -
3 -

State- ID Zip- 83342

GARDINER

BARBARA E

City- MALTA
Phone - 208-645-2563
1 - HC 72 BOX 2038
2 -
3 -

State- ID Zip- 83342

GARDINER

NATHAN F

City- MALTA
Phone - 208-645-2563
1 - HC 72 BOX 2038
2 -
3 -

State- ID Zip- 83342

*** O - ORIGINAL OWNER ***
WARD

REUBENO

1 - BOX 172
2 -
3 -

State- ID Zip- 83311

WARD

DELLA

City- ALBION
Phone - 208-673-5349
1 - BOX 172
2 -
3 -

State- ID Zip- 83311

+ - - Priority Date - - +
04/30/1887

+ - - Region - - - +
17 SOUTHERN

+ - - Stage - - - +
D - DECREED

+ - - Status - - - +

+ - - Source - - - +
COTTONWOOD CREEK

+ - - Tributary - - - +
CLYDE CREEK

+ - - - - Point of Diversion - - - - -
Tm Rng Sec Tract Lot RFlg County
13S 24E 25 NE SW NW (31) CASSIA

+ - - - - Water Use - - - - -
Code Description Period from Period To Diversion Rate Diversion Volume
01 - IRRIGATION 04/01 10/31 0.500

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Consumptive Use - + + - KW Usage - +
0.500 0.0

VERIFIED BY Kike

+ - - - - - Adjudication Rights Dates and Flags Area - - - - - +									
Court Report Filing	-	00/00/0000	Field Inspection Made	-	07/21/1994	Civil Case Number	-	39576	-
Objection Filed Date	-	00/00/0000	Field Inspection Flag	-		Old Case Number	-		-
Response Filed Date	-	00/00/0000	Verified Date	-	04/13/2000	Old Judicial District	-		-

AJ0743NP
(00-124)

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIMS PROOF READING REPORT
(REGIONAL)

04/13/00 09:40:56
Page 3

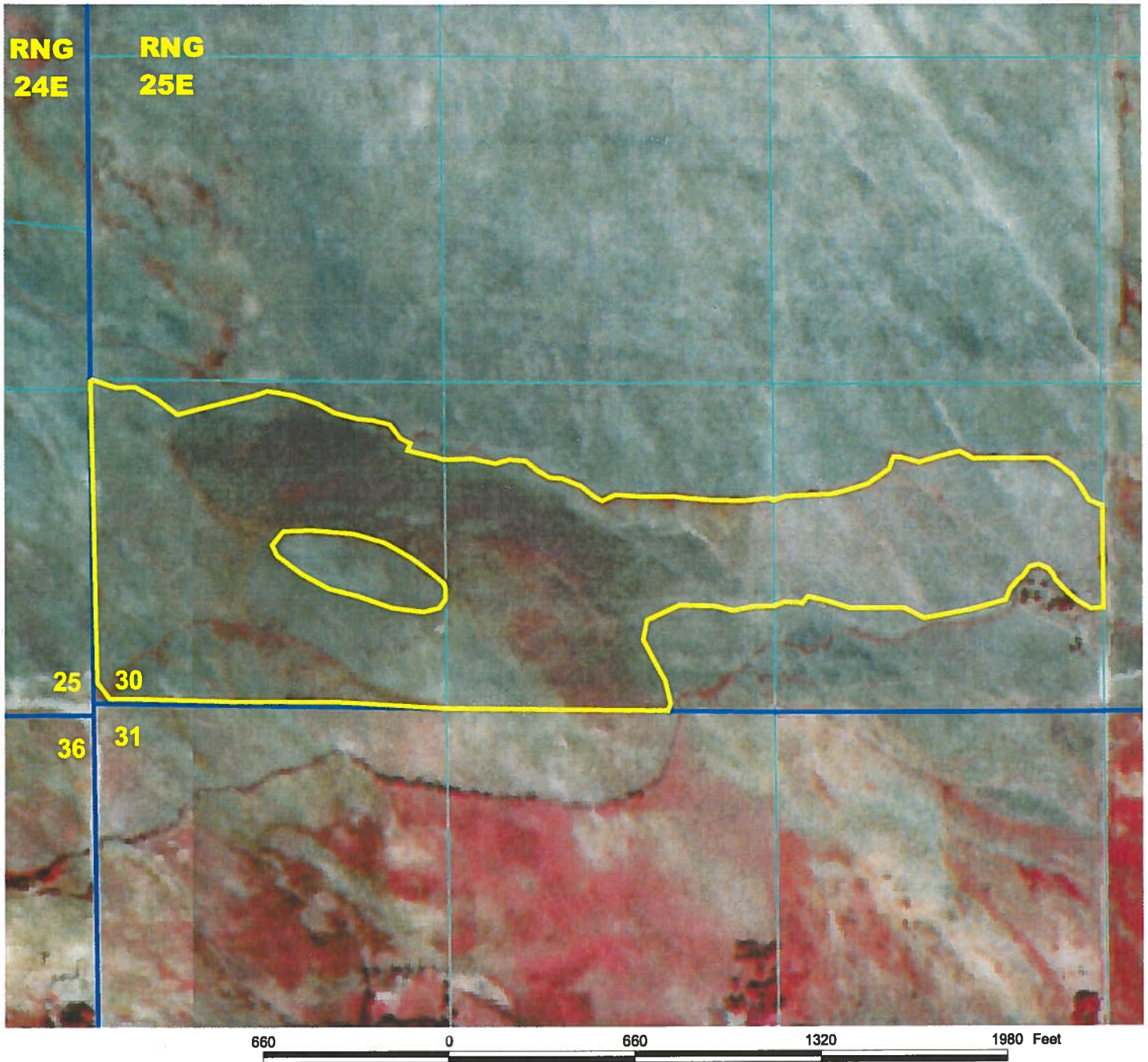
Water right number - R43-00325

Prefix Translation: RESEARCH

+ - - - - - Adjudication Rights Dates and Flags Area - - - - - +					
Claim Received Date	- 06/13/1989	Last Amended Date	- 00/00/0000	Temporary Right	- P
		Receipt Number	- S008195	Water District	- 43C
		POU Ownership Flag	- Y	Federal/State Indicator	- S
		Name Connector	- AND	Presumption Flag	-
				Notice of Error Flag	-

IDAHO DEPARTMENT OF WATER RESOURCES

**RECOMMENDED PLACE OF USE FOR
43-00325 AND 43-00326**

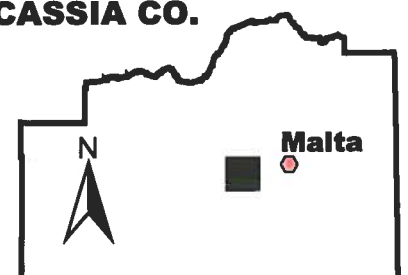


PLACE OF USE
TWP 13S RNG 25E, SEC 30
data entry on: April 13, 2000

GIS PLACE OF USE PRESENTATION
1987 AND/OR 1988 NAPP PHOTOGRAPHY
DATA ENTRY BY KELLY K CHRISTENSEN

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

CASSIA CO.



CLAIM NUMBER 43-00325 DATE 4-13-00
-00326 AGENT KKC

TRANSFER NUMBER _____
 CLAIMED ACRE TOTAL 160
 GIS ACRE TOTAL 74

				NE				NW				SW				SE				
	TWP	RNG	SEC	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
CLAIM	13S	25E	30										40	40	40			40		160
GIS			30											35.2	23.2			15.8		
RECOM														35	23			16		74
CLAIM																				
GIS																				
RECOM																				
CLAIM																				
GIS																				
RECOM																				

B43-POU.SHP

SHAPE NOS.

196

B43-POD.SHP

NOS. DESCRIPTION

33 Sec 25 P/D shared with
N/ESWNW Paul Ward (3 diff systems)

DBF TABLES UPDATED

B43-DBPOU.DBF 4-13

B43-DBPOD.DBF "

JPEG LAYOUT 43-00325 GARDNER.JPG

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

16:29:59
04/12/00

PAGE: 16
QUICKLOOK INFORMATION

16
CLAIM NUMBER: A43-00325

WR ELEMENT	DATA DISCREPANCY Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	ELEMENT DOCUMENTED WHOM/DATE	COMPLETED REVIEW WHOM/DATE	COMPLETED DATA ENTRY WHOM/DATE	VERIFIED DATE WHOM/DATE
PRIORITY DATE			7-21-94 KKC	N	KKC 4-13-00	KKC 4-13-00	KKC 4-13-00	
POINT OF DIV	Y			N				
SOURCE				Y				
PLACE OF USE	Y			Y				
DIV. AMOUNT CFS/VOLUME				N				
CONSUMPTIVE USE	-			-				
PURPOSES OF USE				N				
PERIOD OF USE	Y			Y				
BASIS OF CLAIM				N				
REMARKS	Y			Y				

BARCODE UPDATED
WHOM/DATE

KKC
4-13-00

MAPS AND AERIAL PHOTOGRAPHS USED TO REVIEW THIS NOTICE OF CLAIM TO A WATER RIGHT

TYPE OF MAP OR PHOTOGRAPH (CHECK IF USED)	IF USED, SUPPLY APPROPRIATE DATE AND OTHER INFORMATION	COPY INCLUDED IN FILE?
() ORTHOPHOTOQUAD	DATE OF PHOTO _____ IDWR ID NO. _____	Y() N()
() TOPOGRAPHIC	DATE FIELD CHECKED _____ IDWR ID NO. _____	Y() N()
() NAPP	DATE OF PHOTO _____ IDWR ID NO. _____	Y() N()
☒ ASCS AERIAL PHOTO	DATE OF PHOTO <u>1978 (see below)</u>	Y(☒) N()
() ASCS COLOR SLIDE	DATE OF PHOTO _____	Y() N()
() BLM OR USFS AERIAL PHOTO	DATE OF PHOTO _____	Y() N()
() TOWNSHIP SURVEY (GOVERNMENT PLAT)	DATE OF SURVEY _____	Y() N()
() SCS SOIL SURVEY MAP	DATE ISSUED _____	Y() N()
() SUBDIVISION PLAT MAP	DATE OF MAP _____	Y() N()
() OTHER _____	DATE _____	Y() N()
() OTHER _____	DATE _____	Y() N()
() OTHER _____	DATE _____	Y() N()

LIST OF ATTACHMENTS (CHECK IF ATTACHED)	IF ATTACHED, SUPPLY APPROPRIATE INFORMATION	NO. OF PAGES	NOTES
() LICENSING FIELD EXAM	DATE OF FIELD EXAM _____	_____	_____
() WATER RIGHT LICENSE	DATE LICENSE SIGNED _____	_____	_____
() IDWR APPROVED TRANSFER	DATE TRANSFER APPROVED _____	_____	_____
☒ SYSTEM DESCRIPTION	DATE DRAWN <u>7-21-94</u>	<u>1</u>	<u>ASCS Aerial photo used as</u>
☒ PHOTOGRAPHS	DATE(S) PHOTOS TAKEN <u>7-21-94</u>	<u>4</u>	<u>field map notes.</u> <u>Photographs multiple per</u> <u>photo set</u>
() SPLIT RIGHT REVIEW	DATE REVIEW COMPLETED _____	_____	_____
() HUBBLE ANALYSIS	DATE ANALYSIS COMPLETED _____	_____	_____
☒ CONVEYANCE LOSS ANALYSIS	DATE ANALYSIS COMPLETED <u>4-12-00</u>	<u>4</u>	_____
() FLOW MEASUREMENT CALCULATIONS	DATE SYSTEM MEASURED _____	_____	_____
() OTHER <u>GTS Recon Layout</u>	DATE <u>4-13-00</u>	<u>1</u>	_____
() OTHER <u>" Land list</u>	DATE <u>"</u>	<u>1</u>	_____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

16:29:59
04/12/00

PAGE: 1
GENERAL INFORMATION

1
CLAIM NUMBER: A43-00325

LAST: WARD FIRST: REUBENO
ADDRESS: BOX 172
CITY: ALBION STATE: ID ZIP: 83311
PHONE NUMBER: 208-673-5349

OWNER CODE: O

LAST: WARD FIRST: DELLA
ADDRESS: BOX 172
CITY: ALBION STATE: ID ZIP: 83311
PHONE NUMBER: 208-673-5349

OWNER CODE: O

LAST: GARDINER FIRST: GOLDEN F
ADDRESS: HC 72 BOX 2038
CITY: MALTA STATE: ID ZIP: 83342
PHONE NUMBER: 208-645-2563

OWNER CODE: C

LAST: GARDINER FIRST: BARBARA E
ADDRESS: HC 72 BOX 2038
CITY: MALTA STATE: ID ZIP: 83342
PHONE NUMBER: 208-645-2563

OWNER CODE: C

LAST: GARDINER FIRST: NATHAN F
ADDRESS: HC 72 BOX 2038
CITY: MALTA STATE: ID ZIP: 83342
PHONE NUMBER: 208-645-2563

OWNER CODE: C

FIELD EXAM REQUIRED?	DATABASE	FIELD EXAMINER
VERIFICATION REQUIRED DUE TO REMARKS?	Y	Y() N()

CLAIM REMARKS: GEN *****
OWNERSHIP CHANGE 4/18/90 ADM

CONTACT PERSON: Golden Gardner

PHONE NUMBER: (____) ____-____

DATE OF FIELD EXAM: 7/2/94

APPOINTMENT MADE: Y(____) N(____)

TIME: ____:____ A(____) P(____)

ACCOMPANIED BY: no one

PHONE NUMBER: (____) ____-____

RELATIONSHIP TO CLAIMANT: _____

DIRECTIONS TO PROPERTY / NOTES:

A. AJ CLAIM: # A43-00325 PRIORITY DATE: 04-30-1887 STAGE: D

B. WR RECORD: # 43-00325 PRIORITY DATE: 04-30-1887 STAGE: D

C. CAN THE PRIORITY DATE CLAIMED BE CONFIRMED BY A DECREE OR LICENSE? Y() N()

D. HAS THERE BEEN A LATER COURT DECREE OF THE WATER RIGHT(S) FROM THIS WATER SOURCE? Y() N()

E. IS THERE ANY INDICATION THAT THERE HAS BEEN A FIVE YEAR PERIOD OF CONTINUOUS NONUSE?
(IF YES, DESCRIBE BELOW) Y() N()

F. IF THIS CLAIM IS BASED ON A PERMIT, WHERE IS THE PERMIT IN THE LICENSING PROCESS?

PROOF OF BENEFICIAL USE SUBMITTED N/A() Y() N()

FIELD EXAM COMPLETED N/A() Y() N()

FIELD EXAM SENT TO STATE OFFICE N/A() Y() N()

LICENSE ISSUED N/A() Y() N()

* IF THE PERMIT WILL NOT BE LICENSED PRIOR TO THE DIRECTOR'S REPORT,
USE CONDITION CODE A01 AND RECOMMEND AS PERMITTED.

G. IF THIS CLAIM IS BASED ON BENEFICIAL USE, IS ADDITIONAL EVIDENCE
OF THE PRIORITY DATE REQUIRED? N/A() Y() N()

* FOR CLAIMS BASED ON BENEFICIAL USE, DESCRIBE THE EVIDENCE OF PRIORITY SUBMITTED,
INCLUDING THE ANALYSIS OF THE EVIDENCE.

H. IS THE STAGE OF THE CLAIM CODED CORRECTLY? Y() N()

NOTES: The found system is similar to the decreed rights
for this claim and 43-00326 the Claimed Priority dates
match the decreed dates therefore I accept the
priority dates as claimed.

RECOMMENDED PRIORITY DATE:

04-30-1887

REVIEWED BY KKC

DATE 4-12-00

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP. RGE.	SEC.	1/4	1/4	1/4	LOT	POD FLAG	COUNTY	DIVERSION NAME	DIVERSION NUMBER
A43-00325	13S 24E	25	NE	SW	NW			CASSIA		

OTHER AJ CLAIMS WITH SAME AJ POD

WR RECORDS IN SAME 40 ACRE TRACT

A PREFIX	R PREFIX
A43-00241	R43-00241
A43-00326	R43-00326
A43-00328	R43-00328
A43-00329	R43-00329
A43-00330	R43-00330
A43-00331	R43-00331

NONE

SOURCE: CASSIA CREEK

TRIB: RAFT RIVER

B. WR POINT OF DIVERSION AND SOURCE:

4300325 THERE IS NO POD ASSOCIATED WITH THIS WATER RIGHT NUMBER

SOURCE: CASSIA CREEK

TRIB: RAFT RIVER

C. IS THE CLAIMED POD WITHIN THE SAME 40 ACRE TRACT THAT IS DESCRIBED IN THE WATER RIGHT FILE? N/A(☒) Y(☐) N(☐)

* IF NO, AND IF THE CHANGE IS VERIFIED AS AN ACCOMPLISHED CHANGE IN POD, DESCRIBE THE INJURY ANALYSIS PERFORMED AND ENTER FLAG "C" WITH THE APPROPRIATE EXPLANATORY CODE.

D. CAN THE CLAIMED POD BE VERIFIED USING THE WATER RIGHT FILE OR GPS DATA? N/A(☐) Y(☐) N(☒)

E. SHOULD THE CLAIMED POD BE VERIFIED BY FIELD EXAM? Y(☒) N(☐)

F. IS THE CLAIMED SOURCE THE SAME AS DESCRIBED IN THE WATER RIGHT FILE? N/A(☐) Y(☒) N(☐)

* IF NO, AND IF THE CHANGE IS VERIFIED AS AN ACCOMPLISHED CHANGE IN SOURCE, DESCRIBE THE INJURY ANALYSIS PERFORMED AND ENTER FLAG "C" WITH THE APPROPRIATE EXPLANATORY CODE.

G. CAN THE CLAIMED SOURCE BE VERIFIED USING THE WATER RIGHT FILE? Y(☐) N(☒)

H. SHOULD THE CLAIMED SOURCE BE VERIFIED BY FIELD EXAM? Y(☒) N(☐)

I. HOW WAS THE POD AND SOURCE VERIFIED?

LICENSING FIELD EXAM (DATE OF FIELD EXAM _____) Y(☐) N(☐)

AJ FIELD EXAM (DATE OF FIELD EXAM 7-21-94 NAME OF EXAMINER KKC) Y(☒) N(☐)

OTHER (DESCRIBE IN NOTES BELOW)

NOTES: I found the P/O in the same tract as claimed, no change necessary. The decree lists Cassia Creek as the source, but Cassia Creek water could never physically reach the property without being pumped. All claimants stated that the existing system is the decreed system. The physical characteristics of the system support that statement. I am recommending Cottonwood

RECOMMENDED POINT(S) OF DIVERSION AND SOURCE: CHECK HERE IF RECOMMENDED AS CLAIMED ()

TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	POD	FLAG	COUNTY	DIVERSION NAME	DIVERSION NBR
13S	24E	25	NE	SW	NW				CASSIA		

SOURCE: ~~CASSIA CREEK~~ Cottonwood Creek
TRIB: ~~RAFT RIVER~~ Clyde Cr

REVIEWED BY: KKC DATE: 4-12-00

SYSTEM DESCRIPTION: DESCRIBED BELOW (), SEE LICENSE FILE (), OR SEE ATTACHMENT ()

The system is a Rock diversion in Cottonwood Cr diverting water into an earthen ditch and delivering water to the claimed P/O. It also supplies water to 3 other systems owned by Paul Ward. (see conveyance loss attachments.) Irrigation is wild flooding with the water generally flowing South east from the main ditch. The ground is natural pasture and does not appear to have ever been farmed. Due to the natural rolling characteristics of the ground a portion of the recommended P/O is actually NOT irrigated. As this area would be very difficult to identify, map I have included that ground as irrigated. Ground north of the main ditch has not been irrigated and is being identified as forfeited for now use

A. ROOT WATER RIGHT NUMBERS: A43-00325
R43-00325

B. POU LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA	FIELD EXAM.	RECOMM. ACRES
13S	25E	30	NW	SW	3	GARDINER, GOLDEN F	A43-00325 / 40.0	43-00325 /			
			NW	SW	3	GARDINER, NATHAN F	A43-00326 / 40.0	43-00326 /			
			NW	SW	3	GARDINER, GOLDEN F	R43-00325 / 40.0	- /			
			NW	SW	3	GARDINER, BARBARA E	R43-00326 / 40.0	- /			
			NW	SW	3	CASSIA CREEK IRRIGATION CO.		43-00015 /			
13S	25E	30	SW	SW	4	GARDINER, GOLDEN F	A43-00325 / 40.0	43-00325 /	33.0		
			SW	SW	4	GARDINER, NATHAN F	A43-00326 / 40.0	43-00326 /			
			SW	SW	4	GARDINER, GOLDEN F	R43-00325 / 40.0	- /			
			SW	SW	4	GARDINER, BARBARA E	R43-00326 / 40.0	- /			
			SW	SW	4	CASSIA CREEK IRRIGATION CO.		43-00015 /			
13S	25E	30	SE	SW		GARDINER, GOLDEN F	A43-00325 / 40.0	43-00325 /	27.0		
			SE	SW		GARDINER, NATHAN F	A43-00326 / 40.0	43-00326 /			
			SE	SW		GARDINER, GOLDEN F	R43-00325 / 40.0	- /			
			SE	SW		GARDINER, BARBARA E	R43-00326 / 40.0	- /			
			SE	SW		CASSIA CREEK IRRIGATION CO.		43-00015 /			
13S	25E	30	SW	SE		GARDINER, GOLDEN F	A43-00325 / 40.0	43-00325 /			
			SW	SE		GARDINER, NATHAN F	A43-00326 / 40.0	43-00326 /			
			SW	SE		GARDINER, GOLDEN F	R43-00325 / 40.0	- /			
			SW	SE		GARDINER, BARBARA E	R43-00326 / 40.0	- /			
			SW	SE		CASSIA CREEK IRRIGATION CO.		43-00015 /			

SEE GIS LAYOUT AND LAND LIST FORM
SHOWING ACRE COMPARISON AND
RECOMMENDATION
KKC

ADDITIONAL POU FOUND

On the photo - CC 80 - 1976 flight
ASCS " P-26 1978 flight
NAPP photography 1987-88 flight

TOTAL ACRES A43-00325 160.00 92.00

POU COUNTY: CASSIA

based upon Aerial photography from 1976 to 1987 (11 years non-use).
Ground South of a Clyde Cr diversion ditch system (in the SE corner of
the Deened P/U was also found. Not IRRIGATED over the
same time period. I walked that ditch and did not observe any
evidence of water ever being carried across the ditch. I also
found two high spots of significance within the Deened P/U.
One was an approximately 3 Acre oval in the SW SW of Sec 30
and the other was just north of the Clyde Cr ditch at the point where
the ditch enters the Property. All areas are identified as being
non-use based upon 11 years of non-use

C. IS WATER USAGE FOUND IN TRACTS OTHER THAN THOSE CLAIMED?

Y() N(☒)

* IF YES, ARE THESE TRACTS LISTED ABOVE (), OR ARE THEY LISTED ON AN ATTACHED SHEET ()

LIST OF ALL RIGHTS WITH A SAME POU AND IRRIGATION USAGE

CLAIM NO.	SOURCE	NAME	DIV. RATE	DIV. RATE/ACRE	DIV. VOL.	DIV. VOL./ACRE
A43-00325	CASSIA CREEK	GARDINER, GOLDEN F	0.500	0.003		
R43-00325	CASSIA CREEK	GARDINER, GOLDEN F	0.500	0.003		
R43-00326	CASSIA CREEK	GARDINER, BARBARA E	2.700	0.016		
A43-00326	CASSIA CREEK	GARDINER, NATHAN F	2.700	0.016		

NO RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION

D. ARE OTHER WATER RIGHTS USED FOR THE SAME PURPOSE?

Y(☒) N()

* IF YES, COMPLETE OVERLAP REVIEW:

OTHER RIGHTS LISTED IN CLAIM: A43-00326

E. IS THE CLAIMED POU THE SAME AS DESCRIBED IN THE WATER RIGHT FILE?

N/A() Y(☒) N()

* IF NO, AND IF THE CHANGE IS VERIFIED AS AN ACCOMPLISHED CHANGE IN POU, DESCRIBE THE INJURY ANALYSIS PERFORMED AND ENTER FLAG "C" WITH THE APPROPRIATE EXPLANATORY CODE.

F. CAN THE CLAIMED POU BE VERIFIED USING THE WATER RIGHT FILE AND AVAILABLE AERIAL PHOTOS?

N/A() Y() N(☒)

G. SHOULD THE CLAIMED POU BE VERIFIED BY FIELD EXAM?

Y(☒) N()

H. IS THERE ANY INDICATION THAT THERE HAS BEEN A FIVE YEAR PERIOD OF CONTINUOUS NONUSE OF THIS RIGHT, OR ANY PORTION OF THIS RIGHT?

Y(☒) N()

(X) NAPP, IDWR NO. GAS Rectified

☒ NAPP, IDWR NO. G-5 Rectified; ☒ ASCS PHOTO; () OTHER

NOTES: See Pgs 3 & 6

RECOMMENDATIONS:

TOTAL ACRES: 79 N/A()

REVIEWED BY: KRC

DATE: 4-13-00

A. AJ CLAIMED USES:

Sept Standard 4-1 10-31

PURPOSE OF USE	PERIOD OF USE (MONTH/DAY)	DIV. RATE FOR EACH USE	DIV. VOL. FOR EACH USE
A43-00325 IRRIGATION	FROM 03-15 TO 11-15	0.500 CFS	
TOTAL DIVERSION RATE/VOLUME		0.500 CFS	

B. WR RECORDED USES:

PURPOSE OF USE	PERIOD OF USE (MONTH/DAY)	DIV. RATE FOR EACH USE	DIV. VOL. FOR EACH USE
43-00325 IRRIGATION	FROM TO	0.500 CFS	
TOTAL DIVERSION RATE/VOLUME		0.500 CFS	

C. DOES THE CLAIMED PURPOSE OF USE CORRECTLY DESCRIBE THE WATER USE?

Y(☒) N(☐)

D. IS THE CLAIMED PURPOSE OF USE THE SAME AS DESCRIBED IN THE WATER RIGHT FILE?

N/A(☐) Y(☒) N(☐)

* IF NO, AND IF THE ACTUAL WATER USE IS VERIFIED AS AN ACCOMPLISHED CHANGE IN PURPOSE OF USE, DESCRIBE THE INJURY ANALYSIS PERFORMED AND ENTER FLAG "C" WITH THE APPROPRIATE EXPLANATORY CODE.

E. SHOULD THE CLAIMED PURPOSE OF USE BE VERIFIED BY FIELD EXAM?

Y(☐) N(☒)

F. DOES THE CLAIMED PERIOD OF USE CONFORM TO IDWR STANDARDS?

Y(☐) N(☒)

G. SHOULD THE PERIOD OF USE BE RECOMMENDED TO IDWR STANDARDS?

Y(☒) N(☐)

* IF THE RECOMMENDED PERIOD OF USE IS DIFFERENT THAN IDWR STANDARDS, EXPLAIN IN NOTES BELOW.

H. IS THE CLAIMED DIVERSION RATE FOR EACH USE THE SAME AS DESCRIBED IN THE WATER RIGHT FILE?

N/A(☐) Y(☒) N(☐)

* IF NO, DESCRIBE IN NOTES BELOW HOW THE RECOMMENDED DIVERSION RATE FOR EACH USE WAS DETERMINED.

I. SHOULD THE CLAIMED DIVERSION RATE FOR EACH USE BE VERIFIED BY FIELD EXAM?

N/A(☐) Y(☒) N(☐)

J. IS THE CLAIMED DIVERSION VOLUME FOR EACH USE THE SAME AS DESCRIBED IN THE WATER RIGHT FILE?

N/A(☐) Y(☐) N(☐)

* IF NO, DESCRIBE IN NOTES BELOW HOW THE RECOMMENDED DIVERSION VOLUME FOR EACH USE WAS DETERMINED.

K. SHOULD THE CLAIMED DIVERSION VOLUME FOR EACH USE BE VERIFIED BY FIELD EXAM?

N/A(☐) Y(☐) N(☐)

NOTES:

No season of use was decreed, therefore I am recommending the current Dept Standard Season.

Rate decreed & claimed is less than 1"/ac for flatland acres. Recommend @ claimed rate

AJ CLAIM TOTAL DIVERSION RATE: 0.500 CFS

WR ROOT RIGHT TOTAL DIVERSION RATE: 0.500 CFS

A. IS THE CLAIMED TOTAL DIVERSION RATE THE SAME AS DESCRIBED IN THE WATER RIGHT FILE? N/A() Y(☒) N()

B. CAN THE CLAIMED TOTAL DIVERSION RATE BE VERIFIED USING THE WATER RIGHT FILE? N/A() Y(☒) N()

* ALL CLAIMS BASED ON BENEFICIAL USE (INCLUDING POSTED NOTICES AND STATUTORY CLAIMS)
REQUIRE A FLOW MEASUREMENT.

C. IS THERE ANY INDICATION THAT THERE HAS BEEN A FIVE YEAR PERIOD OF CONTINUOUS NONUSE
OF THIS RIGHT, OR ANY PORTION OF THE DIVERSION RATE? Y() N(☒)

* IF AN AMOUNT SMALLER THAN THE ORIGINAL DIVERSION RATE IS CLAIMED AND A FIELD EXAM
IS NOT REQUIRED, EXPLAIN IN NOTES.

D. SHOULD THE CLAIMED DIVERSION RATE BE VERIFIED BY FIELD EXAM? Y() N(☒)

E. FLOW MEASUREMENT *system capacity exceeds rate*
MEASUREMENT METHOD Parshall Flume 2' throat, SEE ATTACHED CALCULATIONS.

F. RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE
ACRES 74 x 0.02 CFS/ACRE = 1.48 CFS
(Taken from pou review)

1b. CALCULATIONS

IS A DIVERSION RATE PER ACRE GREATER THAN 0.02 CFS/ACRE CLAIMED? Y() N()

IF YES, IS AN ADDITIONAL WATER USE FORM FILED AND ATTACHED? Y() N()

2. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = AF/A
ACRES _____ x DIVERSION VOL. AF/A FOR AREA _____ =
TOTAL DIVERSION VOLUME _____ AF/A

3. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = 480.0 AF/A
ACRES _____ x CONSUMPTIVE VOL. AF/A FOR AREA _____ =
TOTAL CONSUMPTIVE USE _____ AF/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION: SEE BELOW () OR SEE ATTACHMENT ()

*See conveyance analysis
Attachments §
Pg 5 & 6.*

NOTES: _____

WR RECORD CONDITIONS/REMARKS:

RECOMMENDATIONS: CHECK HERE IF RECOMMENDED AS CLAIMED ()

REC. PURPOSE OF USE	REC. PERIOD		REC. DIV		REC. DIV		REC. CONS.	
	FROM	TO	RATE CFS		VOL. AF/A		USE	
IRRIGATION			DATABASE EXAMINER		DATABASE EXAMINER		DATABASE EXAMINER	
	~~03-15~~ 4-1	~~11-15~~ 10-31	0.500 OK				~~480.0~~	
TOTAL FOR THIS RIGHT			0.500				480.0	

NON-IRRIGATION USES CLAIMED:

NON-IRRIGATION USES RECOMMENDED: CHECK HERE IF RECOMMENDED AS CLAIMED ()

REVIEWED BY: KKC

DATE: 4-13-00

FLAG: _____

STANDARD CONDITIONS (CODE):

STANDARD REMARKS (CODE):

POU1 when 43-00325 } comb. limit to 74/ac
00326
QNT " " " limit to 2.22 cfs

EXPLANATORY CONDITIONS (CODE):

EXPLANATORY REMARKS (CODE):

A. CHECK ONLY THE FOLLOWING THAT APPLY:

	ACCEPTED AS CLAIMED	NEEDS REVIEW
OWNERSHIP _____	☒	()
FORFEIT/ABANDON _____	()	()
ADDITIONAL DIV. AMOUNT _____	()	()

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 43-00325

TOTAL DIVERSION RATE OF WR SPLITS

DATABASE
0.500

EXAMINER

CFS

SPLITS:

OLD RIGHT NUMBERS	CURRENT CLAIM NUMBERS	DIVERSION RATE	CURRENT "R" CLAIM NUM.	"R" DIV. RATE	WR RIGHT NUMBERS	DIVERSION RATE
-	A43-00325	0.500	R43-00325	0.500	43-00325	0.500
TOTAL CFS		0.500		0.500		0.500

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 DESCRIBED BELOW () OR SEE ATTACHMENT ()?

DATABASE
Y
FIELD
EXAMINER
Y() N()

NOTES:

AUTHENTICATION:

SIGNATURE: Kelly K. Christensen DATE: 4-13-00

NAME OF FIELD EXAMINER: KELLY K. CHRISTENSEN TITLE: SR WATER RESOURCE AGT.

Claims diverting from Cottonwood Creek and sharing a common ditch

Paul Ward HES-104	Golden Gardner	Paul Ward P/U 2	Paul Ward, Home
43-00241	43-00325	43-00200	43-00328
	43-00326	43-00205	43-00329
			43-00330
			43-00331

Four systems share the ditch diverting water from Cottonwood Creek at TWP 13S, RNG 24E, SEC 25 NESWNW.

Paul Ward owns three parcels with independently decreed rights and Golden Gardner owns one system. Conveyance losses were calculated for the ditch, based upon estimated ditch width and soil properties obtained from the "Soil Survey of Cassia County, Idaho, Eastern Part" issued August 1994. See the Excel Spreadsheet dated 3-17-2000 (heading = **CONVEYANCE LOSS – WORSTELL**). Total conveyance losses were calculated to be 2.50 cfs

A second Excel Spreadsheet, **Claims diverting from Cottonwood Creek and sharing a common ditch** dated 4-10-2000 is an interactive spreadsheet that calculates the proportional share for each system based upon the reach and irrigation requirements at 1 inch per acre for the found irrigated acres.

Starting at the point of diversion and going downstream, the four systems are identified as follows Paul Ward HES-104, Golden Gardner, Paul Ward P/U 2, and Paul Ward home.

Paul Ward HES-104

As the place of use for Paul Ward HES-104 begins near the point of diversion, no conveyance losses are assigned for this system (claim).

Gardner system

The Gardner system has a 0.74 cfs proportionate share of the conveyance losses calculated for reach 1. I found 74 irrigated acres, which equates to 1.48 cfs at 1 inch per acre. 43-00325 was decreed for 0.50 cfs, which is less than the irrigation requirement for the found acres. This right is recommended in its entirety. 43-00326 has a later priority date and was decreed for 2.70 cfs. I am recognizing 1.48 cfs (irrigation requirement) and 0.74 cfs (conveyance loss) for a total of 2.22 cfs. The balance of the decreed rate is determined to be forfeited.

The decreed place of use not being recommended is;

1. the ground north and up hill of the ditch,
2. the ground southeast of a ditch coming from Clyde Creek and going to the Nelson and Nye properties in section 31,

3. a small area northwest of that same ditch and
4. a 3.7 acre knob in the SWSW of sec 30.

The 1976 orthophotograph and the 1987-88 NAPP photography both show the same non-irrigated place of use.

Paul Ward P/U 2 and Home

The two systems listed above are joined together along the eastern border of the SWSW of sec 29 and they have historically been operated as a combined system. The ditch carrying water across the decreed place of use for P/U 2 to the Home place of use is also the supply ditch for irrigation of the P/U 2 place of use. A portion of 43-00200 has historically been used as conveyance loss for the use of water rights decreed to the 34 acres of the Home place of use west of Cassia Creek. 1.04 cfs is the irrigation requirement for P/U 2 and an additional 0.99 cfs is recognized for conveyance loss which totals to 2.03 cfs. The balance of the decreed rate ($2.40 - 2.03 = 0.37$ cfs) is available for conveyance loss under the combined usage with the Home place of use rights. The conveyance loss calculations found 0.78 cfs appurtenant to those rights. As the decree for 43-00200 was for 2.40 cfs, that is the maximum that can be recognized under that right.

April 12, 2000

By Kelly K Christensen

File: Cottonwood Creek conveyance loss

CONVEYANCE LOSS - WORSTELL

NAME OF DITCH: Cottonwood ditch BY: kkc DATE: 3-17-00
 Shared by Ward (3 systems); Gardiner (1 system)

REACH	LENGTH (FT)	AVE WIDTH (FT)	SEEPAGE (FT/DAY)	WORSTELL LOSS (CFS)	DELIVERY (CFS)	DELIVERY LEFT (CFS)	LOSS FACTOR	DELIVERY LOSS (CFS)	FLOW (CFS)
1	5248	4.0	6.00	1.59	0.60	4.18	0.3806	0.23	6.68
2	2100	3.0	6.00	0.48	1.76	3.58	0.1334	0.90	4.49
3	3000	2.0	4.00	0.30	1.04	1.82	0.1666	0.71	2.25
4	2550	1.0	4.00	0.13	0.78	0.78	0.1652	0.66	0.91
5				0.00		0.00	0.0000	0.00	0.00
6				0.00		0.00	0.0000	0.00	0.00
7				0.00		0.00	0.0000	0.00	0.00
8				0.00		0.00	0.0000	0.00	0.00
9				0.00		0.00	0.0000	0.00	0.00
10				0.00		0.00	0.0000	0.00	0.00
11				0.00		0.00	0.0000	0.00	0.00
12				0.00		0.00	0.0000	0.00	0.00
13				0.00		0.00	0.0000	0.00	0.00
14				0.00		0.00	0.0000	0.00	0.00
15				0.00		0.00	0.0000	0.00	0.00
16				0.00		0.00	0.0000	0.00	0.00
17				0.00		0.00	0.0000	0.00	0.00
18				0.00		0.00	0.0000	0.00	0.00
19				0.00		0.00	0.0000	0.00	0.00
20				0.00		0.00	0.0000	0.00	0.00
TOTALS	12898			2.50	4.18			2.50	

REACH = SECTION OF CHANNEL
 LENGTH = LENGTH OF REACH, THE CHANNEL CAN BE DIVIDED INTO EQUAL LENGTH REACHES
 OR ACTUAL LENGTHS BETWEEN DELIVERY POINTS
 AVE WIDTH = AVERAGE TOP WIDTH OF WATER SURFACE IN REACH
 SEEPAGE = SOIL SEEPAGE RATE OF REACH
 WORSTELL LOSS = CONVEYANCE LOSS IN REACH BASED ON WORSTELL METHOI
 DELIVERY = TOTAL DELIVERIES IN REACH
 DELIVERY LEFT = SUM(DELIVERIES OF CURRENT AND REMAINING REACHES)
 LOSS FACTOR = WORSTELL LOSS/DELIVERY LEFT
 DELIVERY LOSS = SUM(LOSS FACTORS OF CURRENT AND PREVIOUS REACHES) X DELIVERY;
 REPRESENTS THE LOSSES ASSIGNED TO THE DELIVERIES IN THE REACH;
 IF MULTIPLE RIGHTS WITHIN REACH, DELIVERY LOSSES SHOULD BE
 PRORATED BASED ON SIZE OF DELIVERY FOR EACH RIGHT WITHIN REACH
 FLOW = TOTAL FLOW AT BEGINNING OF EACH REACH

Canal runs through two soil types that have basically the same soil types with regards to the ditch size.
 Soil types found in the "Soil Survey of Cassia County, Idaho, Eastern Part
~~Soil type 49 Beale 0-8 silt loam Pg 325~~
~~8-16 loam, silt loam~~
~~16-60 silt loam, very fine sandy silt loam~~
 Soil type 85 Jett ~~0-27 silt loam Pg 364~~
~~27-50 silt loam~~
 From Guidelines for the evaluation of irrigation diversion rates (HUBBLE ANALYSIS)
 Page 35 seepage rates "I" values
 Sandy Loam 0.75 - 1.00

Claims diverting from Cottonwood Creek and sharing a common ditch

Claimant	Rights	decreed Rate	Found Irrigated Acres	Rate at 0.02 cfs/acre
Paul Ward HES-104				
	43-00241	0.60	89.5	1.79
Golden Gardner				
	43-00325	0.50	74.0	1.48
	43-00326	2.70		
Paul Ward P/U 2				
	43-00200	2.40	52.0	1.04
	43-00205	0.40		
Paul Ward, Home				
	43-00328	0.60	34.0	0.68
	43-00329	1.00		
	43-00330	0.40		
	43-00331	0.48		

The delivery system is an earth ditch approximately 12,898 feet long. For this analysis the delivery system is divided into 3 reaches based upon each irrigation system's diversion from the main ditch.

Paul Ward system HES-104 irrigates ground at the point of diversion and no conveyance losses are attributed to this system or right (43-00241).

Reach 1 goes from the P.D to Gardner's diversion system. Paul Ward's other two systems and Gardner's system share the conveyance losses for this reach.

Reach 2 goes from the Gardner diversion to Ward's P/U 2 diversion point. This reach is shared by the two remaining Ward systems.

Reach 3 goes from Ward's P/U 2 diversion to Ward's home diversion. All of this reach is for the home system.

Reach 0

HES-104 = No conveyance losses assigned.

	Reach 1 = 5248			Reach 2 = 5136			Reach 3 = 2550			Individual System Total
	Loss =	1.59	Percent share	Loss =	0.78	Percent share	Loss =	0.13	Percent share	
Gardner		1.48	0.74							0.74
P/U 2		1.04	0.52		1.04	0.47				0.99
Home		0.68	0.34		0.68	0.31		0.68	0.13	0.78
	total delivery =	3.20		total delivery =	1.72		total delivery =	0.68		2.50
	share total =	1.59		share total =	0.78		share total =	0.13		2.50

Total Diversion Rate Recommendation by System

	Recomm endation @1"/acre	variance from decree	Rec. rate including conveyance losses		Recomm endation @1"/acre	variance from decree	Rec. rate including conveyance losses		Recomm endation @1"/acre	variance from decree
Ward HES-104				Ward P/U 2				Ward Home		
43-00241	0.60	0.00	0.6	43-00200	1.04	* 0.40	2.40	43-00328	0.60	0.00
Gardner				43-00205	0.40	0.00	0.40	43-00329	1.00	0.00
43-00325	0.50	0.00	0.5					43-00330	0.40	0.00
43-00326	1.48	(0.48)	2.22					43-00331	0.48	0.00

The recommended rate represents either the decreed rate or the found acres @ 1 inch /acre plus the proportional conveyance losses. This calculation has been made on a claim by claim basis.

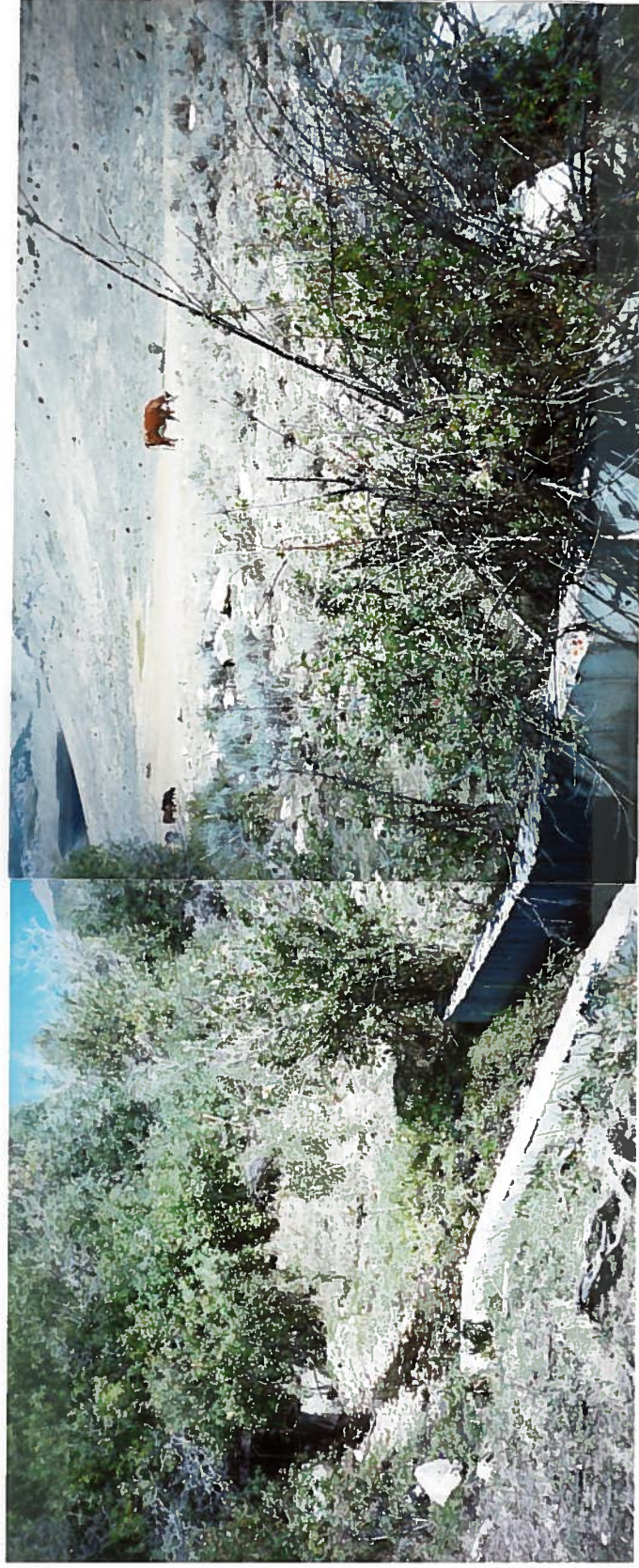
4-10-2000 By Kelly K Christensen
P/D: TWP 13S, RNG 24E, SEC 25 NESWNW
Excel spreadsheet
File: Cottonwood Conveyance Calc.

The Ward home system from Cottonwood also overlaps with delivery system from Cassia Creek through the Rice-Lessey Ditch. This same system is operated in conjunction with the Ward P/U 2 system.

* Therefore the conveyance losses are treated as a combined system and are identified under 43-00200 for that portion that does not exceed the decreed rate for that right.

CLAIM # A43-00205, A43-00241, A43-00325, & A43-00326
DATE PHOTOS TAKEN; 09-7-94
PICTURE SET # 1

THIS PHOTO SET SHOWS THE DIVERSION POINT AND MEASURING DEVICE FOR THREE SEPARATE PLACES OF USE FOR WARD (A43-00241 & A43-0205) AND ONE PLACE FOR GARDINER (A43-00325 & A43-00326). YOU ARE LOOKING NORTH NORTHWEST ON THE LEFT TO NORTH ON THE RIGHT. THE PARSHALL FLUME HAS A 2 FOOT THROAT AND WAS SLIGHTLY SILTED IN AT THE ENTRANCE OF THE FLUME.



CLAIM # A43-00325 & 00326
DATE PHOTOS TAKEN; 7-21-94
PICTURE SET # 1

This photo set shows the northeast corner of the P/U that is south of the main ditch. Shown is a cement structure that diverts water into a sub-lateral that parallels the main ditch and runs to the eastern boundary of the property. In the center, the orchard shown in subsequent photo set is visible. Irrigation runs from this ditch to the lower ditch although not every inch of ground is actually covered by water during irrigation.

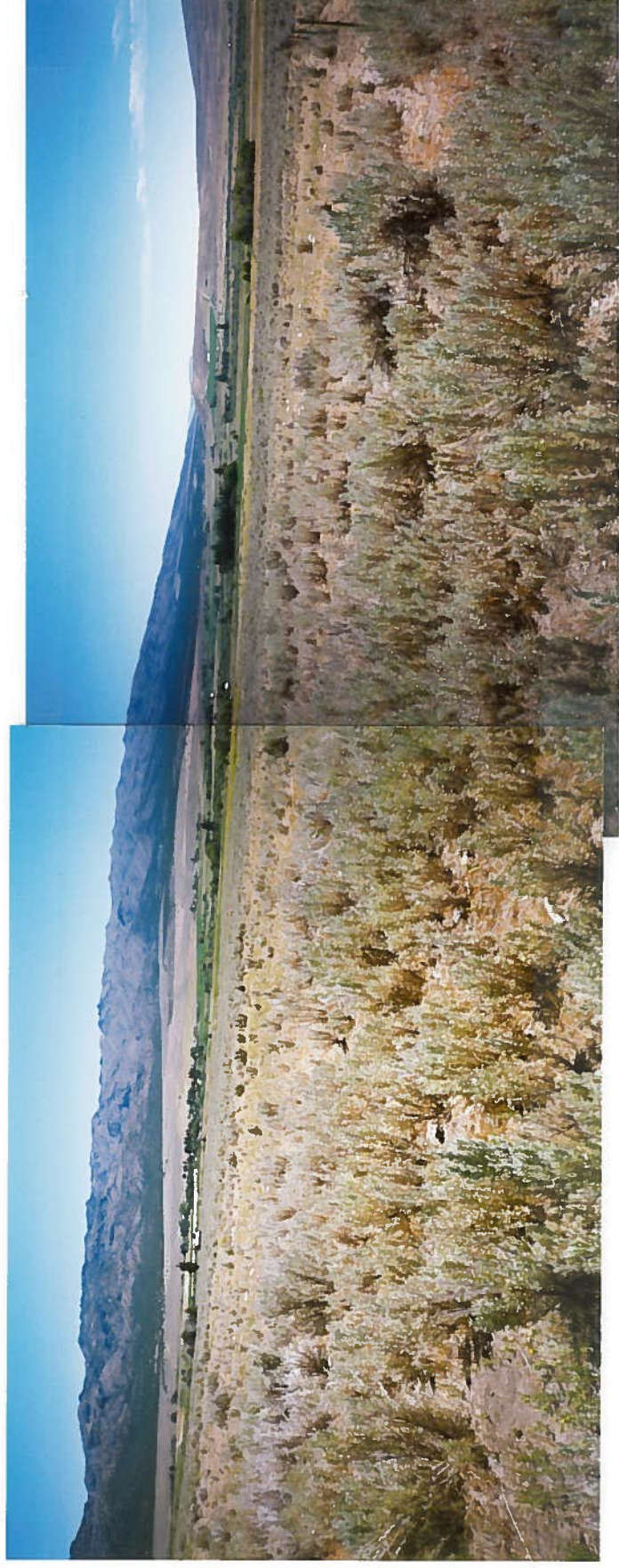
ORCHARD



CLAIM # A43-00325 & 00326
DATE PHOTOS TAKEN; 7-21-94
PICTURE SET # 2

This photo set is looking south on the right to southeast on the left and shows the ground south of the main ditch and east of the division fence that divides the west 1/2 from the east 1/2 of section 31. This shows some irrigation within this area. Most of the sagebrush is relatively new growth until you cross the sagebrush free area running through the center of this set. A sub lateral paralleling the main ditch and running east was observed at this point.

OLD SAGEBRUSH GROWTH AREA



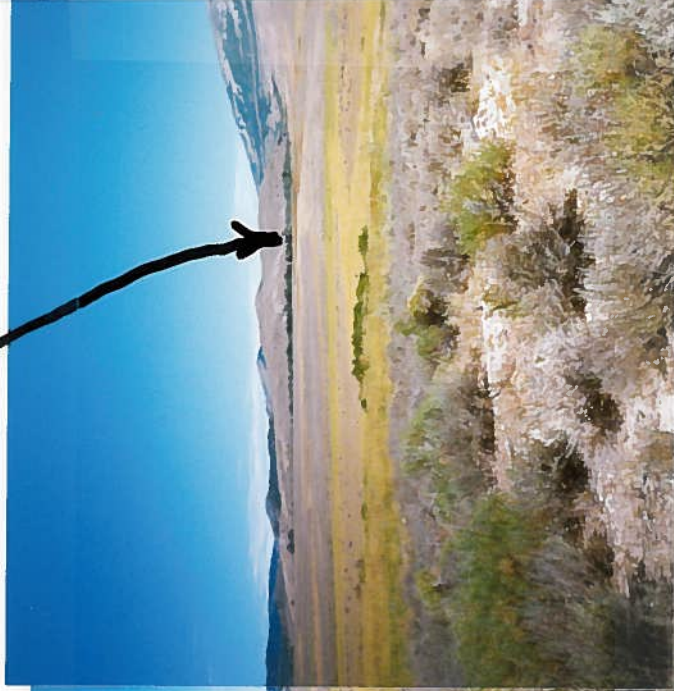
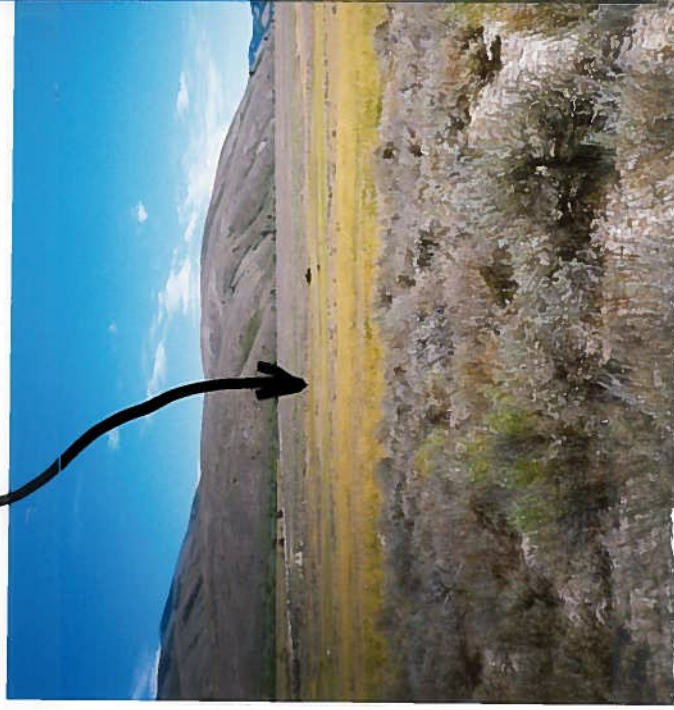
CLAIM # A43-00325 & 00326
DATE PHOTOS TAKEN; 7-21-94
PICTURE SET # 3

This set is looking north on the right to west northwest on the left. This captures the northern ditch and the southern ditch entering from the neighbor's property to the west. I was standing at the western edge of an unirrigated knob that is roughly oval in shape. Most of the ground in this general area is fairly well irrigated in the grassy areas and unirrigated in the sagebrush area. The northern ditch is just a branch off the main ditch that is diverted from Cottonwood Creek.

PROPERTY BOUNDARY

COTTONWOOD CREEK

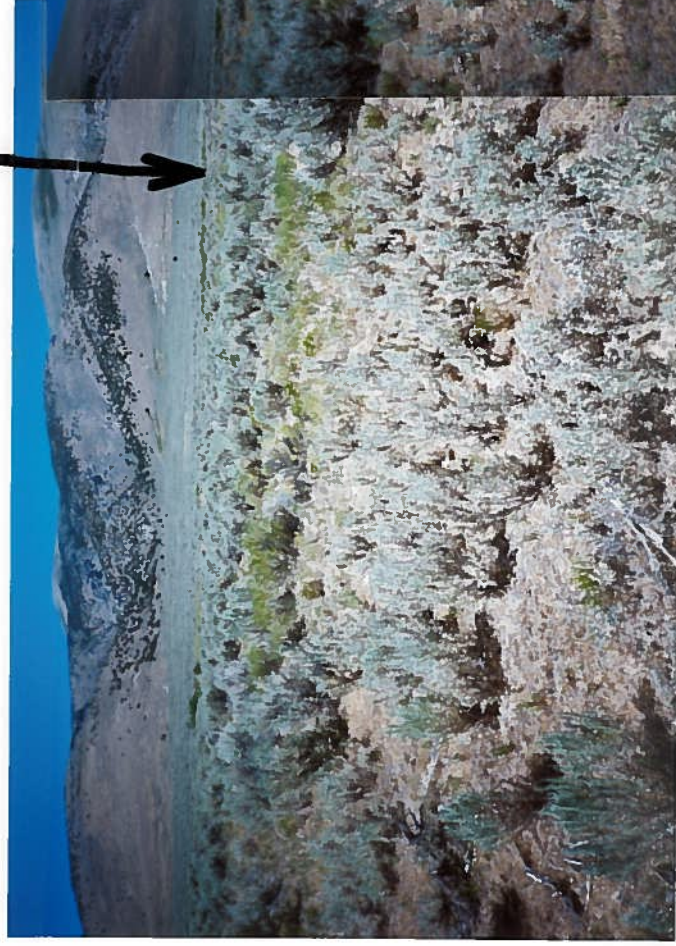
NORTHERN DITCH



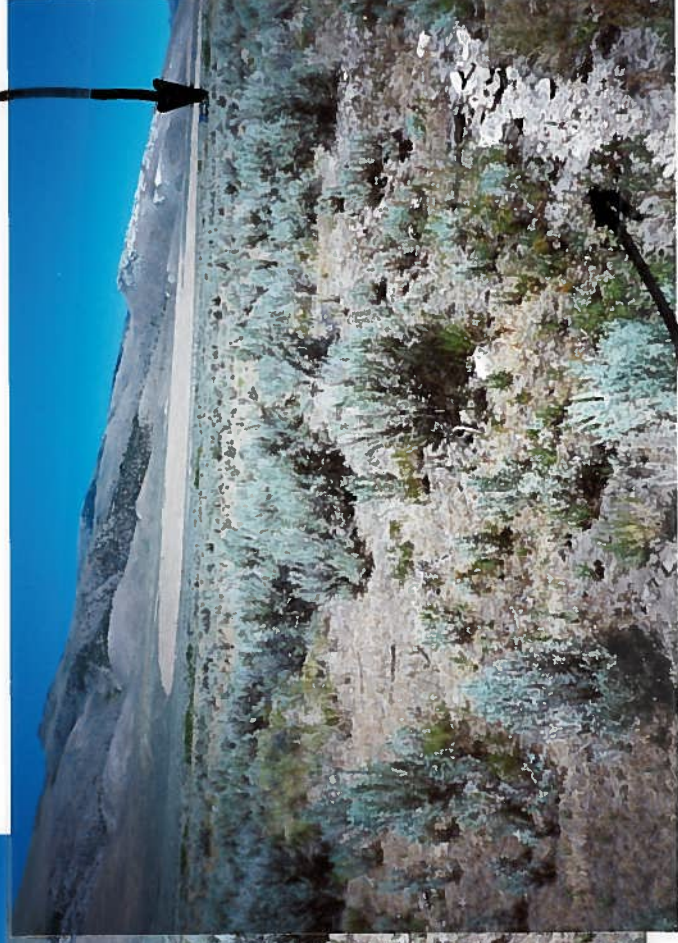
CLAIM # A43-00325, 00326
DATE PHOTOS TAKEN; 7-21-94
PICTURE SET # 4

This photo set is looking north northwest on the left to northeast on the right and shows the ground between the Clyde Creek ditch used by Nye and Ward and the Cottonwood ditch used under these rights. This shows the vegetation in this area. The ground west of this point was heavy sagebrush and was not irrigated. the ground north and east of this point has on occasion received water and is considered part of the irrigated P/U although not every spot within this area gets covered by water. This photo set location is just north and west of the orchard identified in photo set # 1.

COTTONWOOD DITCH



EAST END OF P/U



CLYDE CREEK DITCH