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FEB 12 1992

Department of Water Resources
Southern Region Office

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: A43-04167
Date Received: 6/16/1989
Receipt No: S008280
Received By: _____

AMENDED

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

AMENDED

1. Name: RUEL BARKER 801-375-7237
Address: 1621 WEST 950 NORTH
PROVO UT 84604
AND/OR
Name: KATHRYN H. BARKER 801-375-7237
Address: 1621 WEST 950 NORTH
PROVO UT 84604

2. Date of Priority: APR 1, 1954

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
13S	25E	32	SW	SE	SW		CASSIA

5. Description of diverting works:
WELL & PUMP TO DITCHES OR PIPELINE

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	03/15	11/15	1.500		

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

8. Total consumptive use is 582.0 Acre Feet Per Annum.

9. Non-irrigation uses:
NONE

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10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
13S	25E	31	NE	SE		IRR	36.0
			SE	SE		IRR	40.0
			Section Acres				76.0
		32	NE	SW		IRR	38.0
			NW	SW		IRR	40.0
			SW	SW		IRR	40.0
			Section Acres				118.0
			Total Acres				194.0

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:

A43-00135, 00236, 00137, 00138, 00139, 00238 & 04167

14. Remarks:

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):

Ruel Barker Date: 2/3/92
Kathryn H Barker Date: 2/3/92

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MAR 14 1993

State of Idaho)
County of Cassia) SS.

Subscribed and sworn (or affirmed) before me this 3rd day

of February 19 92

Kevin T. Edwards
Notary Public

Seal

Residing at Idaho, Idaho

My Commission Expires 9/93

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MAR 04 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

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PROVO, UT 84604

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2. Date of Priority: APR 01, 1954

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
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Township	Range	Section	1/4	of	1/4	Lot	Use	Acres
13S	25E	31	NE		SE		IRR	36.0
			SE		SE		IRR	40.0
							Section Acres	76.0
		32	NE		SW		IRR	38.0
			SW		SW		IRR	40.0
			NW		SE		IRR	40.0
							Section Acres	118.0
							Total Acres	194.0

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:

A43-00135, 00236, 00137, 00138, 00139, 00238 & 04167

14. Remarks:

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: See Map A43-00135

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): Paul Barker Date: 6/16/89
_____ Date: _____

State of Idaho)
County of Twink Falls) SS.

Subscribed and sworn (or affirmed) before me this 16th day
of June 19 89

Alan S. Smith
Notary Public

Seal

Residing at Kimberly, Id.
My Commission Expires 6/30/94

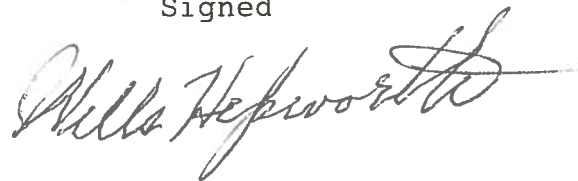
Elba Idaho
Jan. 25, 1992

Re: Claim number
A43-04167

To Whom It May Concern;

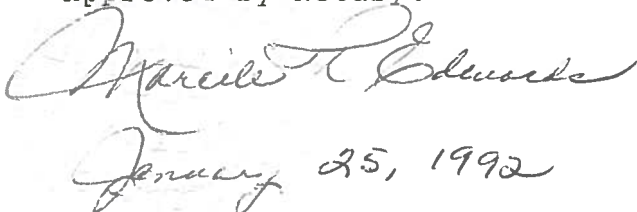
It is my purpose in this affidavit to affirm the claim of Beneficial use made by Ruel Barker, identified by claim number A43-04167. I qualify in this affirmation in several ways. I was the one who drilled the well in the early 1950's. I was the one who owned the land on which the well water was first put to beneficial use in 1954. I also sold the land to Mr. Barker in 1963, and have been a neighbor and friend to Mr. Barker since that time. I certify that the claim is correct and accurate.

Signed



Wells Hepworth

Approved by Notary:



January 25, 1992

Elba Idaho
Jan. 25, 1992

Re: Claim number
A43-04167

To Whom It May Concern;

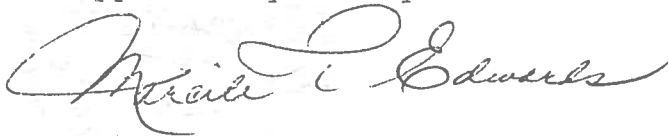
My name is Don Chandler, I've lived in Elba Idaho all my life I was very closely associated with Mr. Wells Hepworth when he drilled the well in question in claim number A43-04167 and started using the water from the well on the land until he sold his ranch to Mr. Ruel Barker in 1963. Mr Barker has continued using the well water for irrigation on that ranch from that time to the present. I certify the claim to be accurate and gladly sign my name to this affidavit. I also assisted Mr. Hepworth in the drilling of the well.

Signed



Don Chandler

Approved by Notary:



1/25/92

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JAN 29 1992

Department of Water Resources
Southern Region Office

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIMS PROOF READING REPORT

AJ5808NP
(00-26)

Water Right Number - A43-04167 Prefix Translation: ADJUDICATION CLAIM Old (D) Number -
+ - - - - Last Name - - - - + + - First Name - - - - + Address - - - - - +

*** C - CURRENT OWNER ***
BARKER

RUEL
1 - 1621 WEST 950 NORTH
2 -
3 -

State- UT Zip- 84604

BARKER

KATHRYN H.
City- PROVO
Phone - 801-375-7237
1 - 1621 WEST 950 NORTH
2 -
3 -
City- PROVO
Phone - 801-375-7237
State- UT Zip- 84604

+ - - Priority Date - - + + - - - Region - - - + + - - - Stage - - - + + - - - Status - - - +
04/01/1954 17 SOUTHERN S - STATUTORY CLAIM

+ - - - - Source - - - - + + - - - - Tributary - - - - - +
GROUNDWATER

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

13S 25E 32 SW SE SW (31) CASSIA

+ - - - - - - - - - - - Water Use - - - - - Diversion Rate Diversion Volume - - - - - +
Code Description Period From Period To 03/15 11/15 1.500
01 - IRRIGATION

+ - - Total Div. Rate - + + - - Total Div. Volume - + + - - Total Div. Capacity - + + - - Total Consumptive Use - + + - - KW Usage - + +
1.500 582.0

+ - - - - - - - - - - - Place of Use - - - - - Description - - - - - County - - - - - +
TwN Rng Sec Tract Lot Acres Code
13S 25E 31 NE SE 36.0 01 IRRIGATION (31) CASSIA
13S 25E 31 SE SE 40.0 01 IRRIGATION (31) CASSIA
13S 25E 32 NE SW 38.0 01 IRRIGATION (31) CASSIA
13S 25E 32 SW SW 40.0 01 IRRIGATION (31) CASSIA
13S 25E 32 NW SE 40.0 01 IRRIGATION (31) CASSIA
Total Acres: 194.0

+ - - Diversion Means - WELL & PUMP TO DITCHES OR PIPELINE

+ - - Non-Irrigation Use - NONE

+ - - Other Rights for Same Use - A43-00135, 00236, 00137, 00138, 00139, 00238 & 04167

+ - - - - - - - - - - - Remarks - - - - - No Remarks found.

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IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIMS PROOF READING REPORT

AJ5808NP
(00-26)

Prefix Translation: ADJUDICATION CLAIM

Water right number - AK3-04167

+ - - - - 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 - 06/16/89 MERRITT

+ - - - - -Comments- - - - - +
+ - - - - No Comments Found - - - - - +

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

| | | | | | |
|------------------------|--------------|-----------------------|--------------|-------------------------|---------|
| Court Report Filing | - 00/00/0000 | Field Inspection Made | - 00/00/0000 | Civil Case Number | - 39576 |
| Objection Filed Date | - 00/00/0000 | Field Inspection Flag | - | Old Case Number | - |
| Response Filed Date | - 00/00/0000 | Verified Date | - 03/12/1985 | Old Judicial District | - |
| Claim Received Date | - 06/16/1989 | Last Amended Date | - | Temporary Right | - P |
| Proof Due Date | - 00/00/0000 | Proof Made Date | - 00/00/0000 | Water District | - 43C |
| Licensed Date | - 00/00/0000 | Receipt Number | - S008280 | Federal/State Indicator | - S |
| Claims Tape Error Flag | - | POJ Ownership Flag | - Y | Presumption Flag | - C |
| Fee Exempt Flag | - | Name Connector | - AND/OR | Notice of Error Flag | - |

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MAR 04 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

December 5, 1991

R. KEITH HIGGINSON
Director

A43-04167
RUEL BARKER
KATHRYN H. BARKER
1621 WEST 950 NORTH
PROVO UT 84604

RE: Evidence of Priority

RESPONSE DEADLINE
FEBRUARY 3, 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 **February 3, 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 04 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

R. KEITH HIGGINSON
Director

29-Jan-1992

RUEL BARKER
KATHRYN H. BARKER
1621 W 950 N
PROVO UT 84604

RE: ADJUDICATION CLAIM NO. A43-04167

Dear Mr. and Mrs. Barker:

I have made the corrections in the legal description of your claim and have enclosed an amended copy which I ask that you please sign, have notarized, and return to me as soon as possible. The other copy is for your records.

If you have any questions or I can be of any further assistance to you, please feel free to give me a call at (208) 736-3033.

Sincerely,


Jeanie Robertson
Records Clerk

/jr
Enclosures

MICROFILMED
MAR 04 1993

Water Right Number - A43-04167 Prefix Translation: ADJUDICATION CLAIM Old (D) Number -

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

*** C - CURRENT OWNER ***
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1 - 1621 WEST 950 NORTH

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Phone - 801-375-7237

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BARKER

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04/01/1954 17 SOUTHERN S - STATUTORY CLAIM+ - - - - Source - - - - + + - - - - Tributary - - - - - +
GROUNDWATER+ - - - - - - - - - - - Point of Diversion - - - - - +
Twn Rng Sec Tract Lot RFlg County

13S 25E 32 SW SE SW (31) CASSIA

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

01 - IRRIGATION

03/15 11/15

1.500

+ - - Total Div. Rate - + + - - Total Div. Volume - + + - - Total Consumptive Use - + + - - KW Usage - +
1.500 582.0+ - - - - - - - - - - - Place of Use - - - - - +
Twn Rng Sec Tract Lot Acres Code Description County

| | | | | | | | |
|-----|-----|----|-------|------|----|------------|-------------|
| 13S | 25E | 31 | NE SE | 36.0 | 01 | IRRIGATION | (31) CASSIA |
| 13S | 25E | 31 | SE SE | 40.0 | 01 | IRRIGATION | (31) CASSIA |
| 13S | 25E | 32 | NE SW | 38.0 | 01 | IRRIGATION | (31) CASSIA |
| 13S | 25E | 32 | NW SW | 40.0 | 01 | IRRIGATION | (31) CASSIA |
| 13S | 25E | 32 | SW SW | 40.0 | 01 | IRRIGATION | (31) CASSIA |

Total Acres: 194.0

+ - - Diversion Means - WELL & PUMP TO DITCHES OR PIPELINE

+ - - Non-Irrigation Use - NONE

+ - - Other Rights for Same Use - A43-00135, 00236, 00137, 00138, 00139, 00238 & 04167

MICROFILMED
MAR 04 1993

| Court Report Filing | - 00/00/0000 | Field Inspection Made | - 00/00/0000 | 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 | - 06/16/1989 | Last Amended Date | - 01/29/1992 | Temporary Right | - P |
| | | Receipt Number | - S008280 | Water District | - 43C |
| | | POU Ownership Flag | - Y | Federal/State Indicator | - S |
| | | Name Connector | - AND/OR | Presumption Flag | - C |
| | | | | Notice of Error Flag | - |

MICROFILMED
MAR 04 1993

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

11/14/2000

RIGHT NUMBER: 43-4167
NAME AND ADDRESS: KATHRYN H BARKER
RUEL BARKER
1621 WEST 950 NORTH
PROVO, UT 84604

VERIFIED BY: KKC
11-14-00

SOURCE: GROUND WATER

QUANTITY: 1.5 CFS
748 AFY

WHEN COMBINED THE FOLLOWING RIGHTS SHALL PROVIDE NO MORE
THAN .02 CFS PER ACRE. COMBINED RIGHT NOS. 43-135, 43-139,
43-236, 43-238, 43-10816, 43-10817, 43-4167 AND 43-4167.

PRIORITY DATE: 04/01/1954

POINT OF DIVERSION: T13S R25E S32 SWSW Within CASSIA County

PURPOSE AND
PERIOD OF USE:

| <u>PURPOSE OF USE</u> | <u>PERIOD OF USE</u> | <u>QUANTITY</u> |
|-----------------------|----------------------|-----------------------|
| IRRIGATION | 04-01 10-31 | 1.50 CFS
748.0 AFY |

PLACE OF USE:

| <u>IRRIGATION Within CASSIA County</u> | | | |
|--|------|----|-----------------------|
| T13S R25E S31 | NESE | 35 | T13S R25E S31 SESE 40 |
| T13S R25E S32 | NESW | 34 | T13S R25E S32 NWSW 38 |
| T13S R25E S32 | SWSW | 40 | |
| 187 ACRES TOTAL | | | |

USE OF THE RIGHTS LISTED BELOW IS LIMITED TO THE IRRIGATION
OF A COMBINED TOTAL OF 187 ACRES IN A SINGLE IRRIGATION
SEASON. COMBINED RIGHT NOS. 43-135, 43-139, 43-236, 43-238,
43-10816, 43-10817 AND 43-4167.

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

THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS
NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE
EFFICIENT ADMINISTRATION OF THE WATER RIGHTS AS MAY BE
ULTIMATELY DETERMINED BY THE COURT AT A POINT IN TIME NO LATER
THAN THE ENTRY OF A FINAL UNIFIED DECREE. SECTION 42-1412(6),
IDAHO CODE.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

BARKER SYSTEM ANALYSIS

FOR P/U IN SW¼ OF SEC 32 AND E½SE¼ OF SEC 31

The claimed P/U consists of four different decreed parcels. The four parcels are now owned by one individual and operated as a permissible place of use with rights of like priority date claimed within a single combined claim. The property is irrigated through a series of diversions from Cassia Creek, one diversion from Clyde Creek and one diversion from Cross Creek. Some diversions are shared with other users through common ditch systems and others are for this ground only.

I found approximately 187 irrigated acres and the total claimed diversion rate from all rights is 3.40 cfs. This is less than one inch per acre for the found place of use. All rights are recognized as valid at each right's decreed diversion rate. I am recommending each right within the permissible place of use with an individual acre limit or for the 10,000 series claims, with a combined right limitation. (See the following table).

DECREE VS CLAIM ANALYSIS

The following table lists the adjudication claims in the first column and then identifies the basis for that claim in one or more of the next four columns. Those columns are identified as systems 1 through 4 and each column or system represents those rights decreed to a common place of use. The combined claimed rates match the total of the individual diversion rates for decreed rights combined in the 10,000 series claims. The left acre limit column identifies the found irrigated acres as related to the original decreed place of use. The right acre limit column represents the irrigated acre limit for the individual claim whether it is a 10,000 series claim or not.

| CLAIM NUMBER | DECREE SYSTEM NUMBERS
The system # represents how the original decreed rights were decreed on a common place of use. | | | | PRIORITY DATE | DECREED RATE | CLAIMED RATE | ACRE LIMIT | |
|--------------|---|----------|----------|----------|---------------|--------------|--------------|------------|-----|
| | SYSTEM 1 | SYSTEM 2 | SYSTEM 3 | SYSTEM 4 | | | | | |
| A43-00135 | 43-00135 | | | | 4-30-75 | 0.24 | 0.24 | 73 | 73 |
| A43-10816 | 43-00137 | | | | 4-30-81 | 0.13 | 1.73 | 73 | 153 |
| | | 43-00265 | | | 4-30-81 | 0.70 | | 50 | |
| | | | 43-00157 | | 4-30-81 | 0.90 | | 30 | |
| A43-10817 | 43-00138 | | | | 4-03-82 | 0.36 | 0.66 | 73 | 107 |
| | | 43-00237 | | | 4-30-82 | 0.30 | | 34 | |
| A43-00139 | 43-00139 | | | | 4-30-84 | 0.37 | 0.37 | 73 | 73 |
| A43-00236 | | 43-00236 | | | 4-30-80 | 0.30 | 0.30 | 34 | 34 |
| A43-00238 | | 43-00238 | | | 4-30-86 | 0.10 | 0.10 | 34 | 34 |
| totals | | | | | | 3.40 | 3.40 | | |

POINT OF DIVERSION ANALYSIS

| | Ditch Name | Legal Description | Source | Comments |
|---|-------------------|------------------------|--------------|-------------------------------------|
| 1 | Barker Ditch | 14S, 24E Sec 12 NWNENW | Cross Creek | A shared ditch |
| 2 | Rice Lessey Ditch | 14S 25E Sec 6 NWSWNE | Cassia Creek | A shared ditch |
| 3 | | 14S 25E Sec 6 SWNESE | Cassia Creek | Shared with 43-00124 |
| 4 | | 13S 25E Sec 31 NWNESE | Clyde Creek | Just south of Elba Park. Not shared |
| 5 | | 13S 25E Sec 31 SWNESE | Cassia Creek | Not shared |
| 6 | | 13S 25E Sec 31 NWSESE | Cassia Creek | Not shared |

1. A portion of the property in the southeast corner receives water from the Barker ditch at the end of that ditch. This is a multiple user ditch. The stream name is Cross Creek. This property is the last (northern most) portion of ground irrigated from that system.
2. The next P/D is the Rice-Lessey ditch system located in Twp 14S; Rng 25E; Sec 6; NWSWNE B.M. This is also a multiple user system. Water is diverted from the Rice Lessey ditch in several places with measuring devices at those locations.
3. This P/D from Cassia Creek is just east of the county road that splits the NE¼ of section 6. The legal for that P/D is Twp 14S; Rng 25E; Sec 6; SWNESE Lot 1 B.M. That P/D is shared with one other user represented by claim A43-00124. The delivery ditch runs north along side the county road and enters the property in the southwest corner.
4. There is one P/D from Clyde Creek located at the point where Clyde Creek enters the property that is at the southwest corner of Elba Park. The diversion structure is currently washed out and Tom Ottley indicated that he is attempting to negotiate with the neighbor to the west to change the P/D to that ground. A transfer would be required, as this change would place the P/D in a different quarter/quarter. The current location is Twp 13S; Rng 25E; Sec 31; NWNESE B.M. The delivery ditch from this diversion point runs south along the same county road described above.
5. The next P/D is on one of the braided channels of Cassia Creek and is located in Twp 13S; Rng 25E; Sec 31; SWNESE B.M. That channel catches wastewater from other systems and/or from small-unnamed springs in the general area. The delivery system carries water north toward the Clyde Creek diversion, again along the same described county road.
6. This diversion point is from another of the braided side channels from Cassia Creek. It is located south of the point of diversion described above as number 5. Tom Ottley indicated that they periodically have to construct diversion works in the southern channel of Cassia Creek in Sec 6 to force a portion of the Cassia Creek water into that channel. There is no measurement device at the split in Cassia Creek. There is a measurement device for the diversion at the road. As control of the water initially begins at the above point I am recommending that point as the P/D although at times work is done in Sec 6 to get water to that point.



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

Phone: (208) 327-7900 FAX: (208) 327-7866

A4 04167

February 10, 2000

Second Notice

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

BARKER, RUEL & KATHERYN
1621 WEST 950 NORTH
PROVO UT 84604

RE: Information about historical water diversion flow rate

Dear Wateruser:

This past December IDWR sent a letter to you requesting your assistance in providing information about flow rates from certain diversions (copy attached). These letters are being sent to claimants with identified rights that have not previously been confirmed (measured) either through the licensing process or by decree. IDWR desires to make the most accurate recommendation to the SRBA Court and this requires your participation and cooperation, pursuant Idaho Code §42-1410.

One advantage of providing good, verifiable information to us is that the flow rate that we recommend will be the full measure of your water right as developed. Another benefit is that disputes over the recommendation are minimized. Lastly, documentation for flow rate will likely be dated and may support evidence of priority determination.

In the absence of good information about historical diversion flow rates IDWR may conclude any of three less desirable alternatives:

- 1) Recommend disallowal of right.
- 2) Recommend a flow rate limited to a licensed rate, if a licensed diversion is part of the system, but with additional diversion volume if the use and diversion capacity is documented to have occurred before 1963.
- 3) Recommend the right as an expansion in a critical ground water area, §42-1416B I.C., which limits the flow rate AND volume to the licensed quantity. This provision also sets the priority at 6/30/1985, regardless of development date between 1963 and 1985.

Thank you for your attention to this matter and we look forward to your quick response and documentation relating to this request. Water Resource Agents from the department may be contacting you in the near future should field work be required to finalize recommendations. Inquiries related to this diversion rate information request should be made to Scott King or Cindy Bird at (208) 327-7900. Inquiries about other aspects of your claim should be made to the Southern Region Office (208) 736-3033.

Sincerely,

Scott King

Enclosures

MEMORANDUM

To: File
From: Scott King *SK*
Date: August 6, 2000
Subject: A43-04167, Barker

Cindy Bird and I inspected Ruel Barker's well at 13S 25E 32 SWSESW identified by the above claim number. The diversion is tagged A0004514. The pump was off for haying during our visit. Estimates for the pumping system indicate a potential capacity of about 1.8 cfs, which is close to the total claimed quantity of 1.5 cfs.

Tom Ottley is operating the system. The 30-hp well pump used to open discharge, but now discharges to a booster for operation of a sprinkler system. Tom is not aware of any modifications made to the well pump, and it's likely this is the same pump used for many years.

The claim states that the well is 300 feet deep, but did not give a depth to water. Our attempts to measure water depth were unsuccessful. I assumed a pumping water level of 100-feet for theoretical capacity estimates. Well logs for other wells in the general area indicate this may be a reasonable water depth.

| | |
|--|--|
| Record ID 253 | Measured Flow: |
| Water Right No. A43-04167 | Designed Flow: |
| Name Barker, Ruel | HP/Eff Flow: 1.83 cfs <<--Max |
| pod 13S 25E 32 SWSESW | Sprinkler Flow: |
| year: unknown | Pivot/System Flow: |
| Flow Measurement: [redacted] gpm = | |
| Curve/Pump Design: [redacted] gpm = | |
| Horsepower / Efficiency Method | |
| Horsepower [redacted] 30 hp | nameplate horsepower |
| PWL [redacted] 100 ft | estimated pumping water level |
| Disch Psi [redacted] 5 psi | estimated low pressure for open discharge conditions |
| PUMP Eff Estimate 0.77 % | |
| TDH 112 ft | |
| OHP 23.1 hp | |
| Flow 820 gpm = 1.83 cfs | |
| System Method: | |
| No Lines [redacted] | Nozzle Equation: $Q=C*A*\sqrt{2*g*h} / \sqrt{1-r^4}$ |
| Birds per line [redacted] | C= 1.00 Nozzle coefficient; typical 0.97 to 1.00 |
| Ttl no nozzles 0 | r= 0.0000 ft Nozzle radius |
| Nozzle size [redacted] in | A= 0.00000 ft^2 Nozzle area |
| Nozzle pressure [redacted] psi | h= 0 ft Head |
| Flow per nozzle 0.00 gpm | g= 32.2 ft/sec^2 Gravitational constant |
| Sprinkler Flow 0 gpm | Q= 0.000 cfs Flow per nozzle |
| Percent Leaks [redacted] % | = 0.000 gpm Flow per nozzle |
| Total Flow 0 gpm = | |
| Pivot / System rating [redacted] gpm = | |

Comments / Data Supplied:

8/4/2000 snk

Visited the system with Tom Ottley on June 21, 2000 with Cindy Bird. System is 30-hp well that delivers water to booster for pressurized sprinkler system. Prior to about 1986, system open-discharged. Tom has been familiar with and operated the system for a long time and is not aware of any pump modifications that have increased pumping capacity (except for the recent conversion to sprinkler). The above theoretical capacity estimate is conservative and indicates the system has the capacity to deliver the claimed quantity of 1.5 cfs.

Ruel Barker
A43-04167
June 21, 2000



Figure 1 Scott King and Tommy Ottley at Ruel Barker's irrigation well. Scott is attempting to measure the water level. The pump was off because of cutting the grass. The probe kept getting hung up on something so the water level wasn't measured. GPS file A0004514. POD T13S 25E section 30 SWSESW, Cassia County. US Electric 30 hp motor, serial number 1100377. The Pump was a Layne and Bowler, serial number 21910. GPS site tag was attached to the power pole. A booster pump is approximately $\frac{1}{4}$ mile west of the pump.

Ruel Barker

- Sent some proof of priority
depth

Possibly some data on open
discharge conditions.

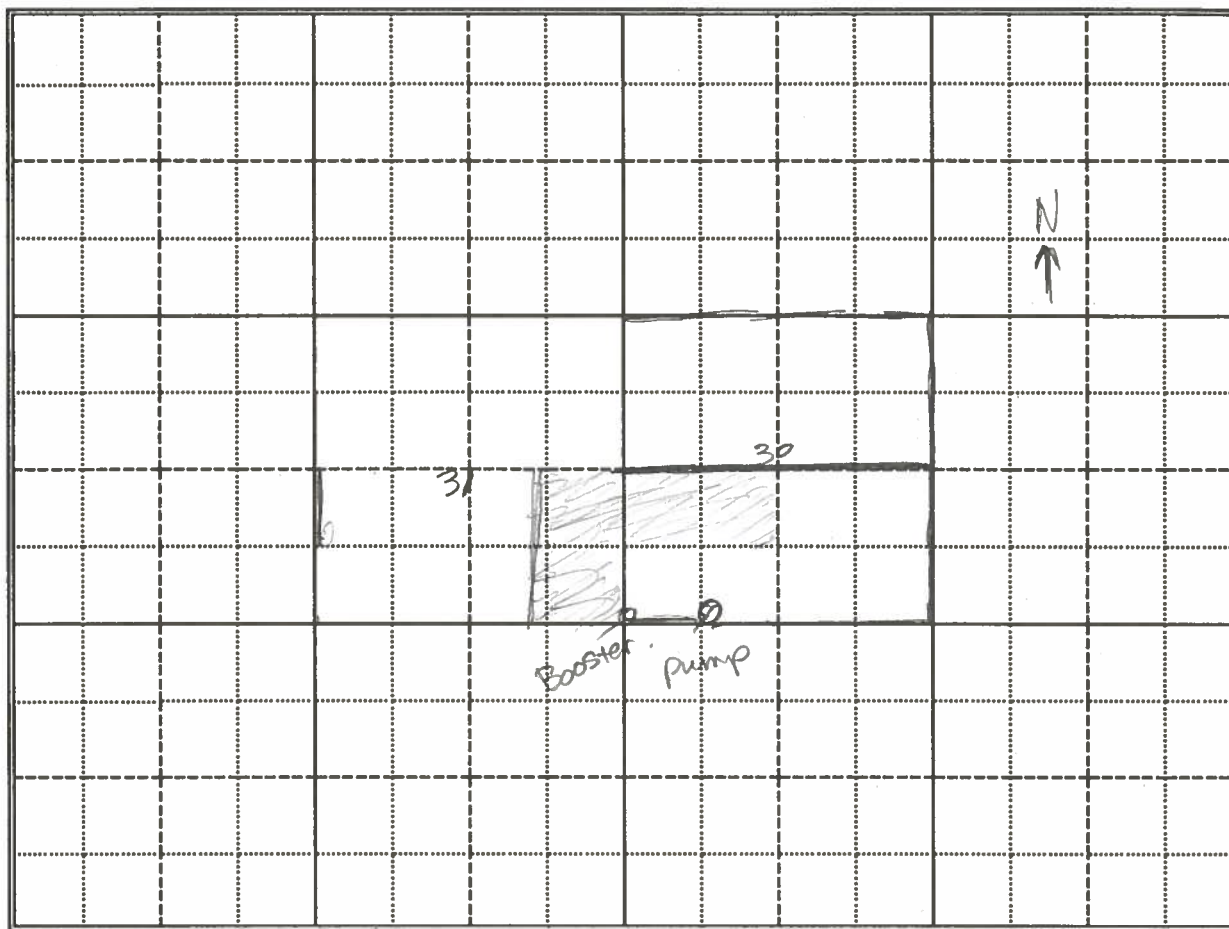
Runs now w/ Booster to pressurize
Pump never recondition

Ottley, Tom
638-5571

Deal w/ Tom on this system

[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate well size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

____ Aerial Photo Attached (required for irrigation of 10+ acres)

____ Photo of Diversion and System Attached

4.

| Well or Diversion Identification No.* | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|---------------------------------------|-------------|----|------------------|----------------|-----------------------------------|
| A0004514 | US Electric | 30 | 1100377 | Layne & Bowler | sl. 21910 |
| | | | | | |
| | | | | | |

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
| | | | | | | |
| | | | | | | |

2. Measurements: Pump off during visit.

E. NARRATIVE/REMARKS/COMMENTS

Photo 1

No measurement was available. The probe got hung-up in the well.

Pole # 17050 San Geronimo Electric Co. 3312670

240 V ; K_h 28.8 ; TA 30. 227. Kw.

Open discharge - originally

1986-1987 Sprinklers ; ASCS assisted with installing
sprinklers to help with land erosion.

Have conditions of permit approval been met? ☐ yes ☐ no

F. FLOW CALCULATIONSX Additional Computation Sheets Attached

Measured Method:

*Estimate capacity of 1.8 cfs***G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

 $V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____ $V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____ $V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} =$ _____

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

| Beneficial Use | Period of Use | | Rate of Diversion
Q (cfs) | Annual Volume
V (afa) |
|----------------|---------------|-------|------------------------------|--------------------------|
| | From | To | | |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| Totals: | | | _____ | _____ |

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above ___ None
___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATIONField Examiner's Name Scott King Date 6/21/2000

Reviewer _____ Date _____

SEAL