

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: **A72-00165**  
Date Received: 9/17/1993  
Receipt No: S016211  
Received By: KRC

**COPY FOR  
YOUR FILES**

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

**COPY FOR  
YOUR FILES**

1. Name: ANN FINLAYSON  
Address: 374 FAIRWAY DR  
POCATELLO ID

208-237-2234

83201

2. Date of Priority: MAY 1, 1922

3. Source: ALDER CREEK

Trib. to: MORGAN CREEK

4. Point of Diversion:

| Township | Range | Section | 1/4 of | 1/4 of | 1/4 | Lot | County |
|----------|-------|---------|--------|--------|-----|-----|--------|
| 17N      | 19E   | 18      | SW     | NE     |     |     | CUSTER |
|          |       |         | NE     | NW     |     |     | CUSTER |
|          |       |         | SE     | NW     |     |     | CUSTER |

5. Description of diverting works:  
CANVAS DAMS

6. Water is used for the following purposes:

| Purpose    | From  | To    | C.F.S | (or) | A.F.A. |
|------------|-------|-------|-------|------|--------|
| IRRIGATION | 04/01 | 10/31 | 0.700 |      |        |
| STOCKWATER | 04/01 | 10/31 | 0.020 |      |        |

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

A.F.A.

8. Total consumptive use is

Acre Feet Per Annum.

9. Non-irrigation uses:

STOCKWATER/ 120 MIXED BEEF CATTLE OR HORSES

10. Place of Use:

| Township | Range | Section | 1/4 of | 1/4 | Lot | Use   | Acres |
|----------|-------|---------|--------|-----|-----|-------|-------|
| 17N      | 19E   | 18      | SW     | NE  |     | STOCK |       |

A72-00165

Page 1

Date: 09/17/93

**MICROFILMED**  
**NOV 01 1994**

10. Place of Use: Continued

| Township | Range | Section | 1/4 | of | 1/4 | Lot | Use           | Acres |
|----------|-------|---------|-----|----|-----|-----|---------------|-------|
| 17N      | 19E   | 18      | SW  |    | NE  |     | IRR           | 15.0  |
|          |       |         | SE  |    | NW  |     | STOCK         |       |
|          |       |         | SE  |    | NW  |     | IRR           | 10.0  |
|          |       |         | NW  |    | SE  |     | STOCK         |       |
|          |       |         | NW  |    | SE  |     | IRR           | 25.0  |
|          |       |         |     |    |     |     | Section Acres | 50.0  |
|          |       |         |     |    |     |     | Total Acres   | 50.0  |

11. Place of use in counties: CUSTER

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

13. Other Water Rights Used:  
72-000166 & 72-04195

14. Remarks:

15. Basis of Claim: DECREED

Case Number:

Court :

Decree date: 5/ 2/1935

HUGHES

Decree Plaintiff

JONES ET AL

vs Decree Defendant

MICROFILMED  
NO. 01 1334

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 A-12 04195

Date Received \_\_\_\_\_

Receipt Number \_\_\_\_\_

NOTICE OF CLAIM  
TO A  
WATER RIGHT  
ACQUIRED UNDER STATE LAW

RECEIVED  
SEP 17 1993  
Department of Water Resources  
Southern Region Office

Please type or print clearly

1. Name of Claimant (s) ANN FINLAYSON Phone (208) 237-2234Mailing Address 374 Fairway Dr Zip 83201  
Pocatello, ID 832012. Date of Priority (Only one (1) per claim) May 1, 19223. Source of water supply (a) Alder Creek  
which is tributary to (b) Morgan Creek4. a. Location of existing point of diversion is: Township 17N Range 19E Section 18,  
\_\_\_\_\_ 1/4 of SW 1/4 of NE 1/4, Govt. Lot, \_\_\_\_\_ B.M., County of CusterAdditional points of diversion if any: NE 1/4 NW 1/4 & SE 1/4 NW 1/4  
SAME SECTIONb. If instream flow, beginning point of claimed instream flow is:  
Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_, \_\_\_\_\_ 1/4 of \_\_\_\_\_ 1/4 of \_\_\_\_\_ 1/4,

Govt. Lot \_\_\_\_\_ B.M., County of \_\_\_\_\_

ending point is: Township \_\_\_\_\_ Range \_\_\_\_\_ Section \_\_\_\_\_, \_\_\_\_\_ 1/4 of \_\_\_\_\_ 1/4 of \_\_\_\_\_  
\_\_\_\_\_ 1/4, Govt. Lot \_\_\_\_\_ B.M., County of \_\_\_\_\_5. Description of existing diversion works (Dams, Reservoirs, Ditches, Wells, Pumps, Pipelines, Headgates, Etc),  
including the dates of any changes or enlargements in use, the dimensions of the diversion works as  
constructed and as enlarged and the depth of each well. Canvas Dams

MICROFILMED  
NOV 01 1994

6. Water is claimed for the following purposes:

(both dates are inclusive) (cfs) (acre feet)

For IRRIGATION purposes from 04/01 to 10/31 amount .7 or \_\_\_\_\_

For STOCK WATER purposes from 06/01 to 11/31 amount .02 or \_\_\_\_\_

For \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ amount \_\_\_\_\_ or \_\_\_\_\_

For \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ amount \_\_\_\_\_ or \_\_\_\_\_

7. Total quantity claimed (a) .7 CFS (cfs) and/or (b) \_\_\_\_\_ (acre feet)

8. Total consumptive use claimed is \_\_\_\_\_ acre feet per annum.

9. Non-irrigation uses; describe fully (eg. Domestic: Give number of households served; Stockwater: Type and number of livestock Etc.) 120 cows & Horses

10. Description of place of use:

a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.

b. If water is used for other purposes, place a symbol of use (example: D for Domestic)

in the corresponding place of use below. See instructions for standard symbols.

| TWP        | RNG       | SEC       | NE 1/4 |       |           |           | NW 1/4 |       |       |           | SW 1/4 |       |       |       | SE 1/4 |       |       |       | Totals    |
|------------|-----------|-----------|--------|-------|-----------|-----------|--------|-------|-------|-----------|--------|-------|-------|-------|--------|-------|-------|-------|-----------|
|            |           |           | NE1/4  | NW1/4 | SW1/4     | SE1/4     | NE1/4  | NW1/4 | SW1/4 | SE1/4     | NE1/4  | NW1/4 | SW1/4 | SE1/4 | NE1/4  | NW1/4 | SW1/4 | SE1/4 |           |
| <u>17N</u> | <u>9E</u> | <u>18</u> |        |       | <u>10</u> | <u>15</u> |        |       |       | <u>25</u> |        |       |       |       |        |       |       |       | <u>50</u> |
|            |           |           |        |       |           |           |        |       |       |           |        |       |       |       |        |       |       |       |           |
|            |           |           |        |       |           |           |        |       |       |           |        |       |       |       |        |       |       |       |           |
|            |           |           |        |       |           |           |        |       |       |           |        |       |       |       |        |       |       |       |           |
|            |           |           |        |       |           |           |        |       |       |           |        |       |       |       |        |       |       |       |           |
|            |           |           |        |       |           |           |        |       |       |           |        |       |       |       |        |       |       |       |           |
|            |           |           |        |       |           |           |        |       |       |           |        |       |       |       |        |       |       |       |           |

Total number of acres irrigated 50

11. In which county (ies) are lands listed above as place of use located? Custer

12. Do you own the property listed above as place of use? Yes ☒ No ☐  
If your answer is No, describe in Remarks below the authority you have to claim this water right.

13. Describe any other water rights used at the same place and for the same purposes as described above.  
CLAIMING 72-00166 & 72-04195 or None ( )

14. Remarks:

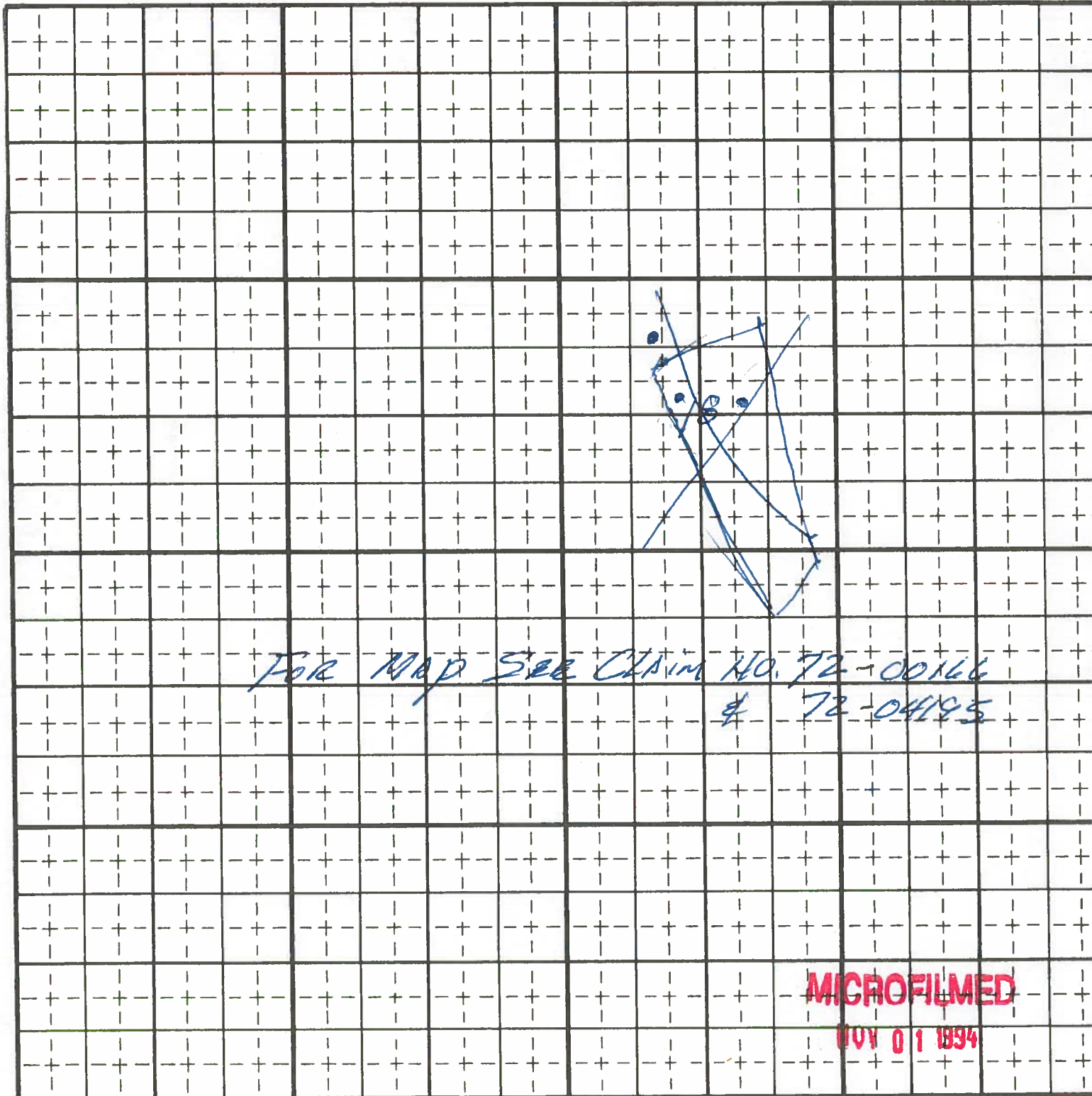
**MICROFILMED**  
**NOV 01 1994**

Last Name Finlayson Ident No. \_\_\_\_\_

Copies: White -State, Yellow-Claimant

Map of Project: show clearly the point of diversion, place of use, section number, township, and range number.

Scale: 2 inches equals 1 mile



Last Name Finlayson Ident No. \_\_\_\_\_

Copies: White-State, Yellow-Claimant

15. Basis of Claim (check one) Beneficial Use \_\_\_\_\_ Posted Notice \_\_\_\_\_ License \_\_\_\_\_ Permit \_\_\_\_\_  
Decree ☒

If applicable provide IDWR Water Right Number 72-00165

Court 6th District

Case Number       

Decree Date MAY 2, 1935

Plaintiff vs Defendant Hughes vs Jones et al

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 do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant (s) [Signature]

Date Aug 20, 1993

Date \_\_\_\_\_

For Organizations: I do solemnly swear or affirm that I am \_\_\_\_\_

Title

of \_\_\_\_\_, that I have signed the foregoing

Organization

document in the space below as \_\_\_\_\_ of \_\_\_\_\_

Title

Organization

and that the statements contained in the foregoing document are true and correct.

Signature of Authorized Agent \_\_\_\_\_

Title and Organization \_\_\_\_\_ Date \_\_\_\_\_

State of Idaho/or \_\_\_\_\_ )

County of Curlew ) SS.

Subscribed and sworn (or affirmed) before me this 20<sup>th</sup> day of August 19 93

SEAL

Notary Public [Signature]

Residing at Challis

My Commission Expires 3-19-98

Please Print Name

17. Notice of Appearance:

Notice is hereby given that I, \_\_\_\_\_ will be acting as attorney at law on behalf of the claimant signing above, and that all notices required by law to be mailed by the director to the claimant signing above should be mailed to me at the address listed below.

Signature \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

**MICROFILMED**

**NOV 01 1994**

Last Name \_\_\_\_\_ Ident. Number \_\_\_\_\_

Copies White-State, Yellow-Claimant

November 20, 1998

**NOTICE OF ERROR  
REPLY**

**RECEIVED**  
**DEC 07 1998**  
Department of Water Resources  
Southern Region

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: 72-00165

ANN FINLAYSON  
374 FAIRWAY DR  
POCATELLO ID 83201

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: 12-5-98 SIGNATURE:   
Please print your name: Ann Finlayson

AJ5808NP  
(OD-26)

IDAHO DEPARTMENT OF WATER RESOURCES  
ADJUDICATION CLAIMS PROOF READING REPORT

11/03/98 11:17:28  
Page 1

Water Right Number - R72-00165

Prefix Translation: RESEARCH

Old (D) Number -

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

\*\*\* A - ATTORNEY \*\*\*

WEBB

LLOYD

1 - PO BOX 1768

2 -

3 -

City- TWIN FALLS

State- ID Zip- 833031768

Phone - 208-734-1616

\*\*\* C - CURRENT OWNER \*\*\*

FINLAYSON

ANN

1 - 374 FAIRWAY DR

2 -

3 -

City- POCATELLO

State- ID Zip- 83201

Phone - 208-237-2234

+ - - Priority Date - - + + - - - Region - - - + + - - - Stage - - - + + - - - Status - - - +  
05/01/1922 17 SOUTHERN D - DECREED

+ - - - - Source - - - - - + + - - - - Tributary - - - - - +  
ALDER CREEK MORGAN CREEK

+ - - - - Point of Diversion - - - - - +

| Twn | Rng | Sec | Tract    | Lot | RFlg | County | Diversion Name |
|-----|-----|-----|----------|-----|------|--------|----------------|
| 17N | 19E | 18  | NE NW SE | 67  | (37) | CUSTER |                |
|     |     |     | NW NW SE | 66  | (37) | CUSTER |                |
|     |     |     | SE NW SE | 68  | (37) | CUSTER |                |

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

|                 |       |       |       |  |
|-----------------|-------|-------|-------|--|
| 01 - IRRIGATION | 04/15 | 10/15 | 0.700 |  |
| 04 - STOCKWATER | 04/15 | 10/15 | 0.020 |  |

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Div. Capacity - + + - Total Consumptive Use - + + - KW Usage -  
0.700 0.0

+ - - - - Place of Use - - - - - +

| Twn | Rng | Sec | Tract | Lot | Acres | Code | Description | County      |
|-----|-----|-----|-------|-----|-------|------|-------------|-------------|
| 17N | 19E | 18  | NE SE |     | 8.1   | 01   | IRRIGATION  | (37) CUSTER |
| 17N | 19E | 18  | NW SE |     | 11.0  | 01   | IRRIGATION  | (37) CUSTER |
| 17N | 19E | 18  | SW SE |     | 4.6   | 01   | IRRIGATION  | (37) CUSTER |
| 17N | 19E | 18  | SE SE |     | 16.0  | 01   | IRRIGATION  | (37) CUSTER |
| 17N | 19E | 19  | NE NE |     | 1.6   | 01   | IRRIGATION  | (37) CUSTER |
| 17N | 19E | 18  | NE SE |     |       | 04   | STOCKWATER  | (37) CUSTER |
| 17N | 19E | 18  | NW SE |     |       | 04   | STOCKWATER  | (37) CUSTER |
| 17N | 19E | 18  | SW SE |     |       | 04   | STOCKWATER  | (37) CUSTER |
| 17N | 19E | 18  | SE SE |     |       | 04   | STOCKWATER  | (37) CUSTER |
| 17N | 19E | 19  | NE NE |     |       | 04   | STOCKWATER  | (37) CUSTER |

Total Acres: 41.3

Water right number - R72-00165

Prefix Translation: RESEARCH

+ - - Diversion Means - CANVAS DAMS TO DIRT DITCHES TO PLACE OF USE FOR FLOOD IRRIGATION

+ - - Non-Irrigation Use - STOCKWATER/ 120 MIXED BEEF CATTLE OR HORSES

+ - - Other Rights for Same Use - 72-00166 & 72-04195

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

QNT USE OF THE RIGHTS LISTED BELOW IS LIMITED TO A TOTAL COMBINED  
DIVERSION RATE OF 3.85 CFS.  
COMBINED RIGHT NOS.: 72-00165, 72-00166, AND 72-04195.

POU1 USE OF THE RIGHTS LISTED BELOW IS LIMITED TO THE IRRIGATION OF  
A COMBINED TOTAL OF 41.3 ACRES IN A SINGLE IRRIGATION SEASON.  
COMBINED RIGHT NOS.: 72-00165, 72-00166, AND 72-04195.

GEN PROPERTY IS ALSO KNOWN AS HOMESTEAD ENTRY NO. 263.

EXP THE FOLLOWING RIGHTS ARE DIVERTED THROUGH THE POINTS OF  
DIVERSION DESCRIBED ABOVE: 72-00165, 72-00166, AND 72-04195.

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

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

- C02 - RIGHT INCLUDES ACCOMPLISHED CHANGE IN SOURCE PURSUANT TO  
- SECTION 42-1425, IDAHO CODE.  
C03 - RIGHT INCLUDES ACCOMPLISHED CHANGE IN POINT OF DIVERSION  
- PURSUANT TO SECTION 42-1425, IDAHO CODE.  
N05 - THE QUANTITY OF WATER UNDER THIS RIGHT FOR STOCKWATER USE  
- SHALL NOT EXCEED 13,000 GALLONS PER DAY.  
N08 - THE QUANTITY OF WATER DECREED FOR THIS WATER RIGHT FOR  
- STOCKWATER USE IS NOT A DETERMINATION OF HISTORICAL BENEFICIAL  
- USE.

+ - - - - Decree Plaintiff - - - +  
IVAN HUGHES ET AL

+ - - - - Decree Defendant - - - +  
VAL JONES ET AL

+ - Decree Date -  
05/02/1935

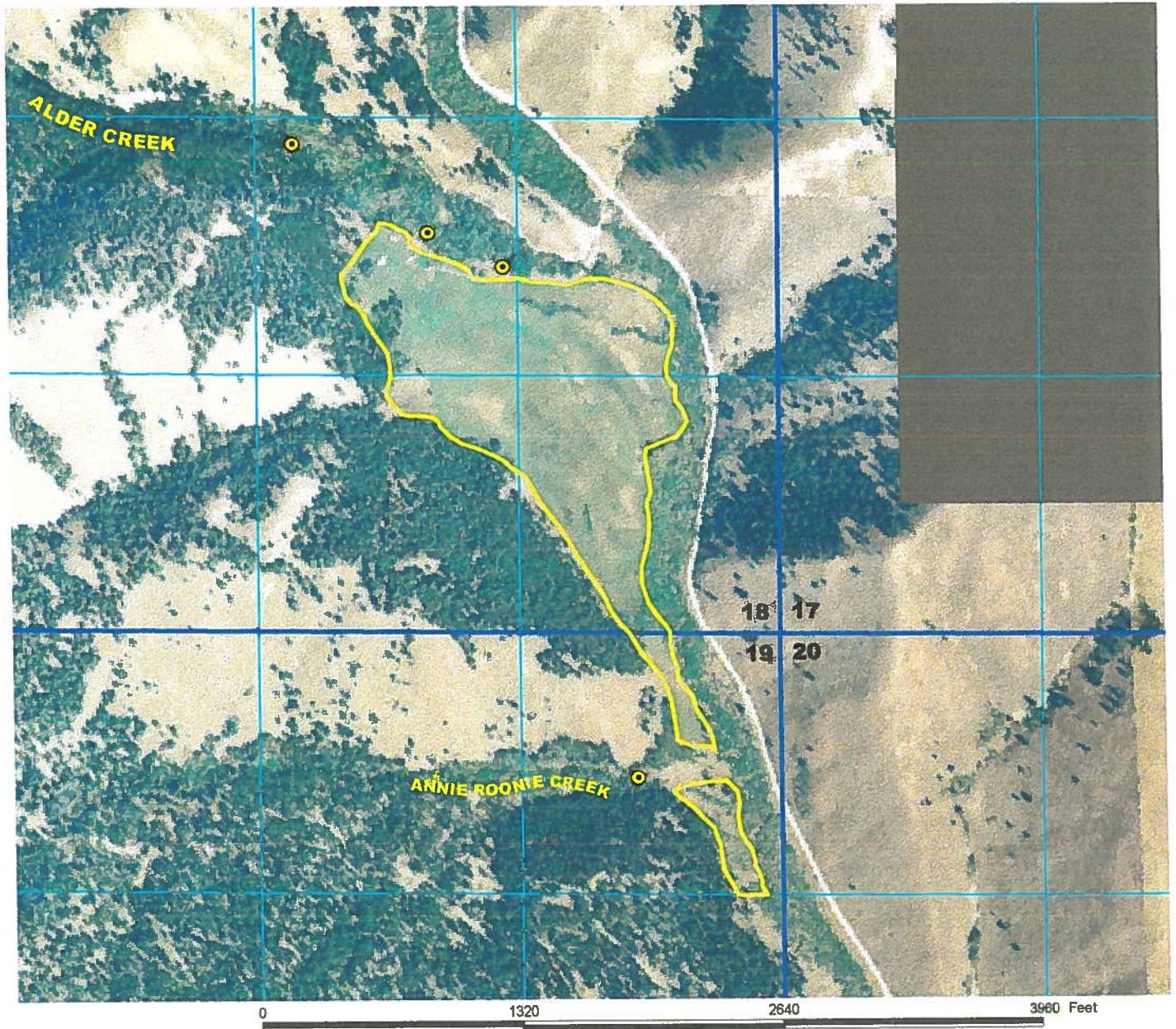
+ - - Audit Fields - 01/03/94 CHRISTEN 03/30/95 POST-STD 10/08/98 KCHRISTE 10/09/98 KCHRISTE

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

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

|                      |              |                       |              |                         |         |
|----------------------|--------------|-----------------------|--------------|-------------------------|---------|
| Court Report Filing  | - 00/00/0000 | Field Inspection Made | - 08/02/1993 | 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  | - 09/17/1993 | Last Amended Date     | - 08/14/1992 | Temporary Right         | - P     |
| Proof Due Date       | - 00/00/0000 | Proof Made Date       | - 00/00/0000 | Water District          | - 72F   |
| Licensed Date        | - 00/00/0000 | Receipt Number        | - S016211    | Federal/State Indicator | - S     |
|                      |              | POU Ownership Flag    | - Y          | Presumption Flag        | - C     |
|                      |              | Name Connector        | -            | Notice of Error Flag    | -       |

**72-00165, 72-00166, & 72-04195 ALDER CREEK  
72-04194 ANNIE ROONIE CREEK  
FENLAYSON**



**RECOMMENDED PLACE OF USE  
TWP 17N RNG 19E, SEC 18 & 19  
data entry on October 8, 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**

AIM NUMBER
72-00165 72-06
72-04195

DATE
10-8-98

AGENT
KKC

TRANSFER NUMBER

CLAIMED ACRE TOTAL
50

GIS ACRE TOTAL
41.7

|     | TWP | RNG | SEC | NE  |    |    |    | NW |    |    |    | SW |    |    |    | SE  |      |     |      |     |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|-----|------|-----|------|-----|
|     |     |     |     | NE  | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE  | NW   | SW  | SE   |     |
| AIM | 17N | 19E | 18  |     |    | 15 |    |    |    |    | 10 |    |    |    |    |     | 25   |     |      | 50  |
| IS  |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    | 8.1 | 10.7 | 4.6 | 15.6 |     |
| COM |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    | 8.1 | 11   | 4.6 | 16   | 39  |
|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      |     |
| AIM | 17N | 19E | 19  | -0- |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      | -0- |
| IS  |     |     |     | 1.6 |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      |     |
| COM |     |     |     | 1.6 |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      | 1.6 |
|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      |     |
| AIM |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      |     |
| IS  |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      |     |
| COM |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      |     |
|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      |     |
| AIM |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      |     |
| IS  |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      |     |
| COM |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |     |      |     |      |     |

72-DBPOU.SHP

LAPE NOS.

154

Alder Cr P/u. claimed

72-00165 - .70 CFS

00166 .175 CFS

04195 3.50

4.375 CFS

Soil Analysis

3.85

limiting factor

Sup. Capacity

4.23

72-DBPOD.SHP

OS. DESCRIPTION

66 Sec 18

NWNWSE

67 Sec 18

NENWSE

68 Sec 18

BF TABLES UPDATED

72-DBPOU.DBF

SENWSE

72-DBPOD.DBF

# **REEVALUATION OF IRRIGATION RATES BASED UPON 1997 REVISED HUBBLE ANALYSIS PROCEDURES**

CLAIM NUMBERS

72-00165 72-00166  
72-04195

DATE: 10-8, 1998

REVIEWED BY KKC

## **CHALLIS AREA SOIL REVIEW**

| SOIL TYPE | BORDER CFS/AC |      | FURROW CFS/AC |      | OPTIMUM ROTATION |         | SOIL TYPE | BORDER CFS/AC |      | FURROW CFS/AC |      | OPTIMUM ROTATION |         |
|-----------|---------------|------|---------------|------|------------------|---------|-----------|---------------|------|---------------|------|------------------|---------|
|           | PAST          | ALFA | PAST          | ALFA | PASTURE          | ALFALFA |           | PAST          | ALFA | PAST          | ALFA | PASTURE          | ALFALFA |
| ATC       | .15           | .13  |               |      | 6.49             | 7.62    | PD2       | .11           | .12  |               |      | 5.15             | 4.74    |
| BB1       | .09           | .09  |               |      | 6.09             | 6.17    | Q         | .26           | .21  |               |      | 13.2             | 10.4    |
| BC1       | .16           | .17  |               |      | 5.82             | 5.46    | RE2       | .29           | .21  |               |      | 3.15             | 4.74    |
| BK1       | .07           | .06  |               |      | 10.62            | 11.86   | RP1       | .19           | .21  |               |      | 4.89             | 4.57    |
| BT1       | .18           | .16  |               |      | 3.99             | 4.19    | SH1       | .06           | .05  |               |      | 9.37             | 12.10   |
| BT2       | .41           | .32  |               |      | 2.34             | 2.87    | SOC       | .08           | .07  |               |      | 7.38             | 8.08    |
| CB1       | .06           | .06  |               |      | 11.55            | 13.47   | SSA       | .15           | .14  |               |      | 4.79             | 5.01    |
| CHA       | .21           | .21  |               |      | 4.52             | 4.76    | SXF       | .12           | .11  |               |      | 6.14             | 6.80    |
| CP1       | .36           | .36  |               |      | 2.61             | 2.78    | TC1       | .06           | .06  |               |      | 9.82             | 9.55    |
| DB1       | .13           | .11  |               |      | 5.66             | 6.65    | TD1       | .04           | .03  |               |      | 12.46            | 16.50   |
| DBB       | .13           | .11  |               |      | 5.71             | 6.69    | WB2       | .13           | .13  |               |      | 5.37             | 5.43    |
| DBC       | .13           | .11  |               |      | 5.71             | 6.69    | WAA       | .19           | .16  |               |      | 3.81             | 4.23    |
| DMF       | .18           | .21  |               |      | 5.12             | 4.72    | WBB       | .17           | .14  |               |      | 3.36             | 3.84    |
| DRF       | .18           | .19  |               |      | 9.08             | 9.68    | WC1       | .07           | .06  |               |      | 11.24            | 13.45   |
| DT2       | .05           | .04  |               |      | 12.46            | 16.50   | WPT       | .19           | .15  |               |      | 3.16             | 3.69    |
| DWA       | .14           | .14  |               |      | 4.79             | 5.01    | WV1       | .07           | .06  |               |      | 11.24            | 13.45   |
| G01       | .10           | .12  |               |      | 12.47            | 10.51   | XHS       |               |      |               |      |                  |         |
| KEG       | .08           | .07  |               |      | 8.73             | 10.06   | YN1       | .18           | .14  |               |      | 5.38             | 6.92    |
| MBF       | .15           | .12  |               |      | 7.65             | 5.81    |           |               |      |               |      |                  |         |
| MUG       | .15           | .14  |               |      | 4.54             | 4.98    |           |               |      |               |      |                  |         |
| NDL       | .13           | .12  |               |      | 5.30             | 6.06    |           |               |      |               |      |                  |         |

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 |
|-----------|----------------------------|---------------------------|-----------------------------|-----------------------|----------------------|
| BC1       | 5.82                       | 10                        | 41.3                        | .16                   | 3.85 CFS             |
|           |                            |                           |                             |                       | CFS                  |
|           |                            |                           |                             |                       | CFS                  |
|           |                            |                           |                             |                       | CFS                  |

TOTAL ACRES \_\_\_\_\_

DECREED RATE = \_\_\_\_\_

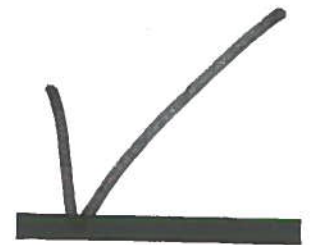
CLAIMED DIVERSION RATE = \_\_\_\_\_

MEASURED DIVERSION RATE = \_\_\_\_\_

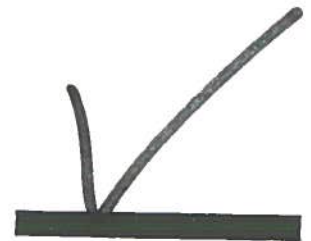
**R PROOF**



**CVR**



**MAPS**



**PHOTOS**



**MISC**





State of Idaho  
DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-30

CECIL D. ANDRUS  
Governor

R. KEITH HIGGINSON  
Director

17-Sep-1993

WEBB, PEDERSEN & WEBB  
ATTORNEYS AT LAW  
PO BOX 1768  
TWIN FALLS ID 83303-1768

RE: ADJUDICATION CLAIM NO. A72-00165, A72-00166 - FINLAYSON

Mr. Webb:

Pursuant to the notification that you are representing the claimant(s) on the above referenced Adjudication Claim(s), please find enclosed the receipt and a copy of the computer generated claim(s) based on the information from the original claim(s) which has been entered in our computer records.

Please review the record(s) and if you have any corrections or any questions, feel free to contact this office.

Sincerely,

  
Jeanie Robertson  
Records Clerk

/jr  
Enclosures

MICROFILMED  
NOV 01 1994

Old (N) Number -

KKC

**State- ID Zip- 833031768**

4 - - - - - SNIP1C

- - Tributary  
MORGAN CREEK

|        |      |      |      |
|--------|------|------|------|
| County | cus  | cus  | cus  |
| (37)   | (37) | (37) | (37) |

04/15  
04/15

+

6.0  
13.0  
9.0  
14.0  
3.0

NOV 1 1954

Water right number - R72-00165

Prefix Translation: RESEARCH

| Town | Range | Section | Tract | Lot | Acres | Code | Description | County |
|------|-------|---------|-------|-----|-------|------|-------------|--------|
|------|-------|---------|-------|-----|-------|------|-------------|--------|

Total Acres: 45.0

- - - Diversion Means - CANVAS DAMS TO DIRT DITCHES TO PLACE OF USE FOR FLOOD IRRIGATION

- - - Non-Irrigation Use - STOCKWATER/ 120 MIXED BEEF CATTLE OR HORSES

- - - Other Rights for Same Use - 72-00166 & 72-04195

REMARKS  
THE FOLLOWING RIGHTS ARE ALSO DIVERTED THROUGH POINT OF  
DIVERSION DESCRIBED ABOVE: 72-00166, AND 72-04195.  
PROPERTY IS ALSO KNOWN AS HOMESTEAD ENTRY NO. 263.  
USE OF THIS RIGHT WITH RIGHTS LISTED BELOW IS LIMITED TO A  
TOTAL COMBINED DIVERSION RATE OF 4.26 CFS, A TOTAL COMBINED  
ANNUAL CONSUMPTIVE USE VOLUME OF 112.5 AF, AND TO THE IRRIGATION  
OF A COMBINED TOTAL OF 45 ACRES IN A SINGLE IRRIGATION SEASON.  
COMBINED RIGHT NOS.: 72-00166, AND 72-04195.

- - - No Old Water Right Numbers Found

- - - Old Water Right Numbers - - - - -  
C02 - RIGHT INCLUDES ACCOMPLISHED CHANGE IN SOURCE PURSUANT TO IDAHO  
- CODE 42-1416A.  
C03 - RIGHT INCLUDES ACCOMPLISHED CHANGE IN POINT OF DIVERSION  
- PURSUANT TO IDAHO CODE 42-1416A.

- - - Decree Plaintiff - - - +  
IVAN HUGHES ET AL  
+ - - - - Decree Defendant - - - +  
VAL JONES ET AL  
+ - Decree Date - +  
05/02/1935

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

- - - Audit Fields - - - +  
01/03/94 CHRISTEN

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

| Court Report Filing               | Field Inspection Made              | Civil Case Number         |
|-----------------------------------|------------------------------------|---------------------------|
| Objection Filed Date - 00/00/0000 | Field Inspection Flag - 08/02/1993 | Old Case Number - 39576   |
| Response Filed Date - 00/00/0000  | Verified Date - 01/03/1994         | Old Judicial District -   |
| Claim Received Date - 09/17/1993  | Last Amended Date - 08/14/1992     | Temporary Right - P       |
|                                   | Receipt Number - S016211           | Water District - 72F      |
|                                   | POU Ownership Flag - Y             | Federal/State Indicator - |
|                                   | Name Connector -                   | Presumption Flag -        |
|                                   |                                    | Notice of Error Flag -    |

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| MR ELEMENT                | FIELD EXAM<br>Y/N | CORRESPONDENCE<br>SENT/RECEIVED<br>BY WHOM/DATE | FIELD EXAM<br>BY WHOM/DATE | CHANGE<br>CLAIM<br>Y/N | VERIFIED BY<br>CODE | COMPLETED<br>REVIEW<br>WHOM/DATE | COMPLETED<br>DATA ENTRY<br>WHOM/DATE | VERIFIED<br>DATE<br>WHOM/DATE |
|---------------------------|-------------------|-------------------------------------------------|----------------------------|------------------------|---------------------|----------------------------------|--------------------------------------|-------------------------------|
| PRIORITY DATE             |                   |                                                 | 8-2-93                     | N                      | 1,2-5,6             | KKC<br>1-3-94                    |                                      |                               |
| POINT OF DIV              |                   |                                                 | "                          | Y                      | "                   | "                                |                                      |                               |
| SOURCE                    |                   |                                                 | "                          | Y                      | "6                  | "                                |                                      |                               |
| PLACE OF USE              |                   |                                                 | "                          | Y                      | "                   | "                                |                                      |                               |
| DIV. AMOUNT<br>CFS/VOLUME |                   |                                                 | "                          | N                      | "                   | "                                |                                      |                               |
| CONSUMPTIVE USE           |                   |                                                 | "                          | N                      | "                   | "                                |                                      |                               |
| PURPOSES                  |                   |                                                 | "                          | Y                      | "                   | "                                |                                      |                               |
| PERIOD OF USE             |                   |                                                 | "                          | Y                      | 6                   | "                                |                                      |                               |
| BASIS OF CLAIM            |                   |                                                 | "                          | N                      | "                   | "                                |                                      |                               |
| REMARKS                   |                   |                                                 | "                          | Y                      | "                   | "                                |                                      |                               |

"VERIFIED BY" CODES

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

MAPS USED:

DATE:

ASCS Z-3 1968  
ORTHO QUAD S-74 1957  
MAPP SCS 5025 MAP 243-32  
BIRM USDAF 1789-122 9-4-91

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

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LAST: WEBB  
ADDRESS: PO BOX 1768  
CITY: TWIN FALLS  
PHONE NUMBER: 208-734-1616

OWNER CODE: A

FIRST: LLOYD  
STATE: ID ZIP: 833031768  
LAST: FINLAYSON  
ADDRESS: 374 FAIRMAY DR  
CITY: POCATELLO  
PHONE NUMBER: 208-237-2234

OWNER CODE: C

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

DATABASE  
N

MICROFILMED  
NOV 01 1994

FIELD EXAMINATION INFORMATION

CLAIM NUMBER: A/C-UU103

CONTACT PERSON: DECK FENLAWSON

PHONE NUMBER: ( ) - -

DATE OF FIELD EXAM: 8/2/93

APPOINTMENT MADE: Y( ) N( )

TIME: : A( ) P( )

ACCOMPANIED BY: \_\_\_\_\_

PHONE NUMBER: ( ) - -

RELATIONSHIP TO CLAIMANT: husband

DIRECTIONS TO PROPERTY / NOTES:

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**MICROFILMED**  
**NOV 01 1994**

A. AJ CLAIM: # A72-00165

PRIORITY DATE: 05-01-1922

STAGE: D

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

## NOTES:

Claimed date matches decedent data  
§ " P/14 " " P/14

Therefore is Accept the Date as claimed

RECOMMENDED PRIORITY DATE:

REVIEWED BY

KRC

DATE

1-3-94

MICROFILMED  
NOV 01 1994

## A. A1 CLAIM POINT OF DIVERSION AND SOURCE:

| RIGHT     | TWP. | RGE. | SEC. | 1/4 | 1/4 | 1/4 | LOT | CNTY   |
|-----------|------|------|------|-----|-----|-----|-----|--------|
| A72-00165 | 17N  | 19E  | 18   |     | SW  | NE  |     | CUSTER |
| A72-00165 | 17N  | 19E  | 18   |     | NE  | NW  |     | CUSTER |
| A72-00165 | 17N  | 19E  | 18   |     | SE  | NW  |     | CUSTER |

## OTHER A1 CLAIMS WITH SAME A1 POD

A PREFIX  
A72-00166 R PREFIX  
A72-04195 R72-04195

## WR RECORDS IN SAME 40 ACRE TRACT

72-00166  
72-04195

SOURCE: ALDER CREEK

TRIB: MORGAN CREEK

## NOTES:

Found 3 P.D.s. P.D. is within an unimproved area and was shown  
approx 3/8 of a mile northwest of actual location. The recommended legal description  
was determined using the USDA-BFerial photo adjusted to coincide with  
the scale of the S-74 quad maps.

| RECOMMENDED POINT(S) OF DIVERSION AND SOURCE: |      |      |     | DIVERSION NAME |     |
|-----------------------------------------------|------|------|-----|----------------|-----|
| TWP.                                          | RGE. | SEC. | 1/4 | 1/4            | LOT |
| 17N                                           | 19E  | 18   | NW  | SW             |     |
| 17N                                           | 19E  | 18   | NE  | NE             |     |
| 17N                                           | 19E  | 18   | SE  | NE             |     |
| 17N                                           | 19E  | 18   | SE  | NW             |     |

SOURCE: Alder Cr.

TRIB: Morgan Cr.

REVIEWED BY:

KKE

DATE: 1-3-93

SYSTEM DESCRIPTION:

See System description for Attached.

MICROFILMED

NOV 01 1994

A. ROOT WATER RIGHT NUMBERS: A72-00165

B. POU LISTING

| TWP | RNG | SEC | 1/4 | 1/4 | LOT | NAME        | AJ<br>#/ACRES   | MR<br>#/ACRES | LANDSAT<br>DATA | FIELD<br>EXAM. | RECOMM.<br>ACRES |
|-----|-----|-----|-----|-----|-----|-------------|-----------------|---------------|-----------------|----------------|------------------|
| 17N | 19E | 18  | SW  | NE  |     | WEBB, LLOYD | A72-00165 /     | /             |                 |                |                  |
| 17N | 19E | 18  | SW  | NE  |     | WEBB, LLOYD | A72-00165 /15.0 | -             | /               |                |                  |
| 17N | 19E | 18  | SE  | NW  |     | WEBB, LLOYD | A72-00165 /     | -             | /               |                |                  |
| 17N | 19E | 18  | SE  | NW  |     | WEBB, LLOYD | A72-00165 /10.0 | -             | /               |                |                  |
| 17N | 19E | 18  | NW  | SE  |     | WEBB, LLOYD | A72-00165 /     | -             | /               |                |                  |
| 17N | 19E | 18  | NW  | SE  |     | WEBB, LLOYD | A72-00165 /25.0 | -             | /               |                |                  |

TOTAL ACRES A72-00165

50.00

PRESUMPTION FLAG:

Recommended P/14

17N 19E S-18

NESE 6  
NWSE 13

NOTES:

*Plu found 3/8 mi S of claimed location. Flag in location is just map interpretation of surrounding area rather than an actual change. see also pg 5.*

SWSE 9  
SESE 14

17N 19E S-19 NE NE 3

total 45

RECOMMENDATIONS:

TOTAL ACRES: 45

REVIEWED BY: KRC

DATE: 1-3-93

MICROFILMED

NOV 01 1994

## A. AJ CLAIMED USES:

PURPOSES  
A72-00165 IRRIGATION  
A72-00165 STOCKWATER

MONTH/DAY  
FROM 04-01 TO 10-31  
FROM 04-01 TO 10-31

## DIVERSION QUANTITY

.700 CFS  
.020 CFS

TOTAL DIVERSION RATE/VOLUME CLAIMED

.700 CFS

## PRESUMPTION FLAG:

## D. PERIOD OF USE:

## RECOMMEND AS CLAIMED?

Y( ) N( )

## RECOMMEND TO WR STANDARDS OR OTHER?

Y(X) N( )

Explain in notes, below.

## NOTES:

irrigation rate matches desired rate accept as claimed  
Stockwater was not a portion of the original use but as an understated  
use not to exceed or increase the original desired rate is recognized  
as a valid use. Accept as claimed. Claimant indicated that  
up to 50 head of stock do at time grazing on fair property.

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NOV 01 1994

A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORDS?

Y( ☒ ) N( ☐ )

AJ TOTAL CLAIMED DIVERSION RATE: 0.700 CFS  
 MR ROOT RIGHT TOTAL DIVERSION RATE: 0.700 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 notes. \*\*

FLOW MEASUREMENT REQUIRED?

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

FIELD DATABASE EXAMINER  
 N

B.

MEASUREMENT METHOD

FLOW MEASUREMENT

, SEE ATTACHED CALCULATIONS.

C. ARE OTHER WATER RIGHTS USED?

Y( ☒ ) N( ☐ ) IF YES COMPLETE OVERLAP REVIEW.

OTHER RIGHTS LISTED IN CLAIM: 72-000166 & 72-04195

NO RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION

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RECOMMENDATIONS:

| REC.<br>PURPOSES     | REC. PERIOD |       | REC. DIV<br>RATE CFS | REC. DIV<br>VOL. AF/A |          | REC. CONS.<br>USE |
|----------------------|-------------|-------|----------------------|-----------------------|----------|-------------------|
|                      | FROM        | TO    |                      | EXAMINER              | EXAMINER |                   |
| IRRIGATION           | 04-01       | 10-31 | 0.700                | 0.020                 | 0.0      |                   |
| STOCKWATER           |             |       |                      |                       |          |                   |
| TOTAL FOR THIS RIGHT |             |       | 0.700                | .7                    |          |                   |

REVIEWED BY:

KKC

DATE:

1-3-94

MICROFILMED

NOV 01 1994

## A. CHECK ONLY THE FOLLOWING THAT APPLY:

|                        | ACCEPTED<br>AS CLAIMED | NEEDS<br>REVIEW |
|------------------------|------------------------|-----------------|
| OWNERSHIP              | ( )                    | ( )             |
| FORFEIT/ABANDON        | ( )                    | ( )             |
| ADDITIONAL DIV. AMOUNT | ( )                    | ( )             |

## AUTHENTICATION:

SIGNATURE:

*Jerry S. Christman*

DATE:

*1-4-94*

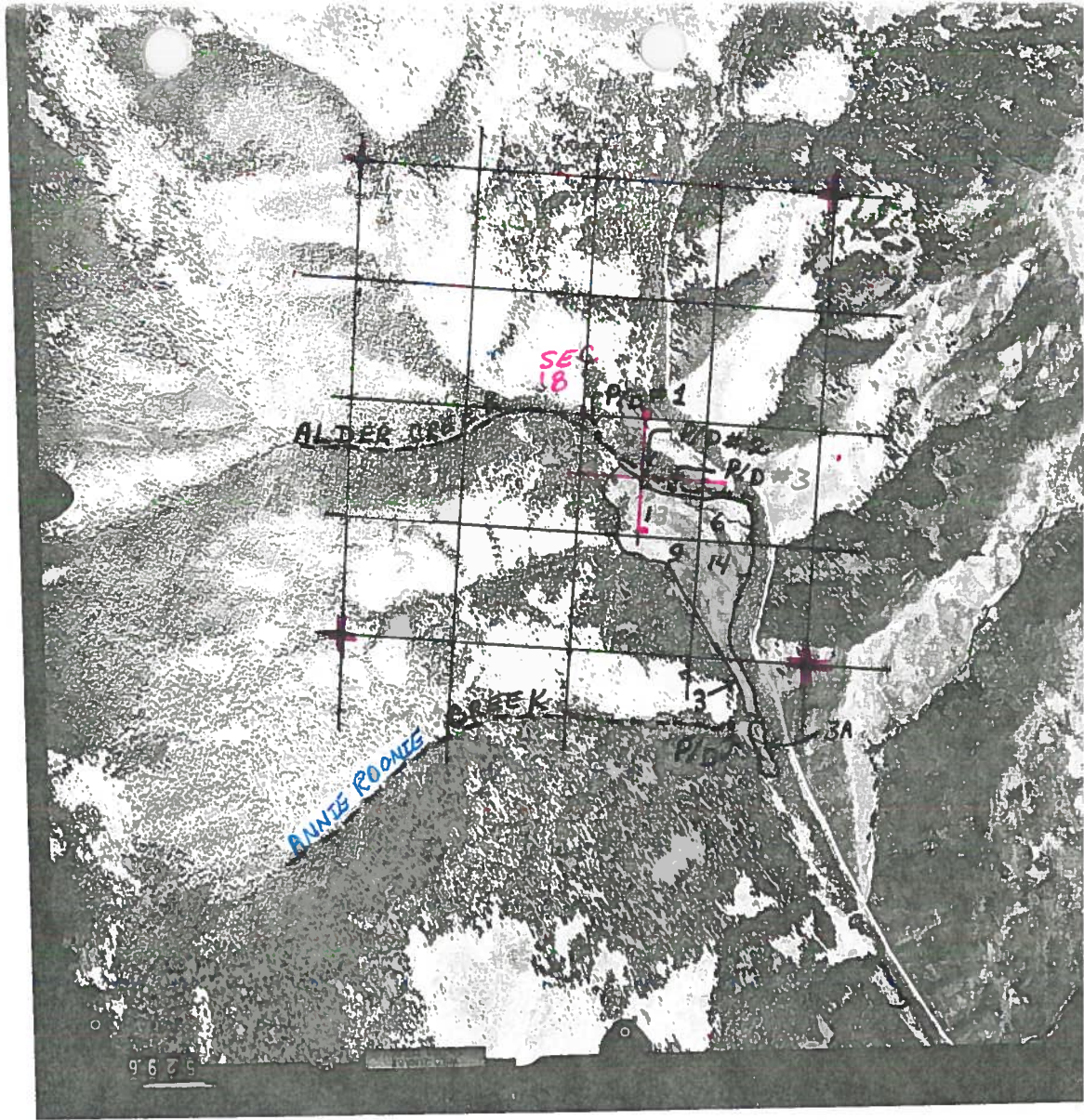
NAME OF FIELD EXAMINER:

TITLE:

*Substantive Reviewer*

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NOV 01 1994



POOR ORIGINAL

Section overlay determined by creating a transparency of the Black Mountain 1974 Quad map and aligning the roads on each map and then marking the Section corners.

Reduced 74%  
USDA-F AERIAL PHOT  
1789-122  
9-4-91 Flight

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NOV 01 1994

A72-00165, 00166  
CLAIM 04194, 04195 INIT KKC  
T. R. S. Q/Q  
P/D 17N 19E 18  
PHOTO USDA-F  
DT.&ID. 9-4-91 Flight

P/Ds 17N-19E 5-18

NW NW  
NE NW  
SE NW

1968 flight

HES 263  
17N AP4  
19E

1966 satellite

8-2-93  
Hildesheim  
Hofen

A72-00165, 00166  
CLAIM 04194, 04195 INIT KKC  
T. R. S. Q/Q  
P/D  
PHOTO ASCS Z-3  
DT. FID. 1968 ELBIL

POOR ORIGINAL

RECORDED

1968 01 01 01 01

ANITE ROOM  
OR PID

FENCE  
LINE

WATER  
BED

water ditch

29.8

sp. du  
ditch

CLAIM # A72-~~0000~~ & 04195  
DATE PHOTO TAKEN; 8-2-93  
PICTURE # 1

This photo shows the northern most point of diversion and is looking northwest. The ditch runs vertical through the picture and Alder creek goes to the right, behind Mr Finlayson.

POOR ORIGINAL



PICTURE # 2

This picture shows the measurement point for the above P/D. The farmstead is just out of the picture to the left.



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CLAIM # A72-~~00000~~ & 04195  
DATE PHOTO TAKEN; 8-2-93  
PICTURE # 3

This photo shows the second P/D which is located approximately 60' north of the woodshed. This is the next downstream diversion from the P/D covered by picture # 1. This photo is looking north northeast.

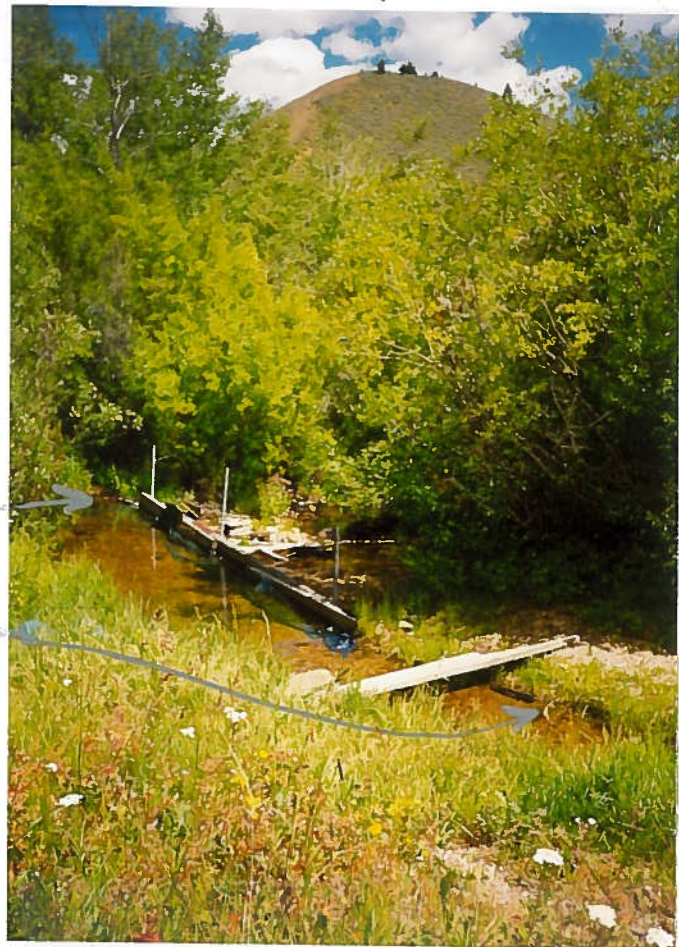
FOR ORIGINAL

ALDER CREEK

DITCH

PICTURE # 4

This is the measurement point for the above P/D. This photo is looking south toward the P/U. The culvert shown appears to be the limiting factor in the diversion system and it was 1/2 full at measurement time. Therefore the system capacity would be double what was measured.



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CLAIM # A72-~~00000~~ & 04195  
DATE PHOTO TAKEN; 8-2-93  
PICTURE # 5

POOR ORIGINAL

This is the third and last P/D on Alder Creek for this P/U. Mr Finlayson was not diverting water through this P/D at this time. If Alcer creek carries enough water, all three diversions can be used at the same time otherwise he alternates between P/D # 2 and 3.



PICTURE # 6

This is the measurement point for the trickle that was going down the ditch at this date. The ditch capacity is considerably greater than the measurement.



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**CLAIM # A72-~~XXXXXX~~ & 04195**  
**DATE PHOTO TAKEN; 8-2-93**  
**PICTURE # 7**

This photo shows the ditch from the middle P/D before it reaches the field. When this P/D and P/D # 3 are NOT being used concurrently, then water from this system is often diverted from this ditch back into Alder Creek and then rediverted through P/D # 3 (see Picture # 5). The corral shown in this picture is the same corral as pictured in # 5. This picture is looking northwest.

**OUTLET TO ALDER CREEK      P/D      ALDER CREEK**



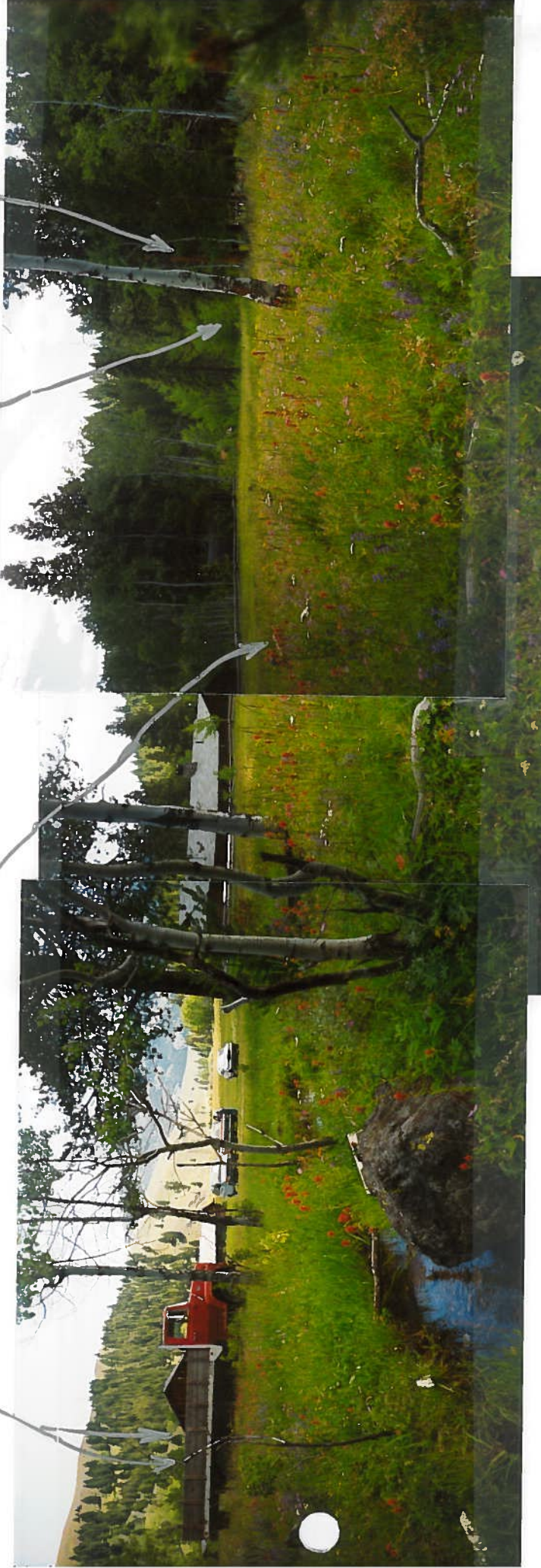
POOR ORIGINAL

CLAIM # A72-000000 & 04195  
DATE PHOTOS TAKEN; 8-2-93  
PICTURE SET # 8

This photo set shows the P/U where the northern P/D system reaches the P/U. The first cutout is at the first bend shown on the left. This documents that the ground around the farmstead is irrigated even though it is not included within the acreage calculation recorded on the ASCS aerial photo Z-3 1968 flight. The ditch roughly parallels the tree line to the right. You are looking east southeast on the left to south on the right. Note that the measurement location picture # 2 is covered with this picture set. P/Ds 2 & 3 are further east from this point (on the left).

P/Ds 2 & 3 **POOR ORIGINAL** APPROXIMATE MEASUREMENT POINT

DITCH BEHIND TREES HERE BEARING TREE



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**NOV 01 1994**

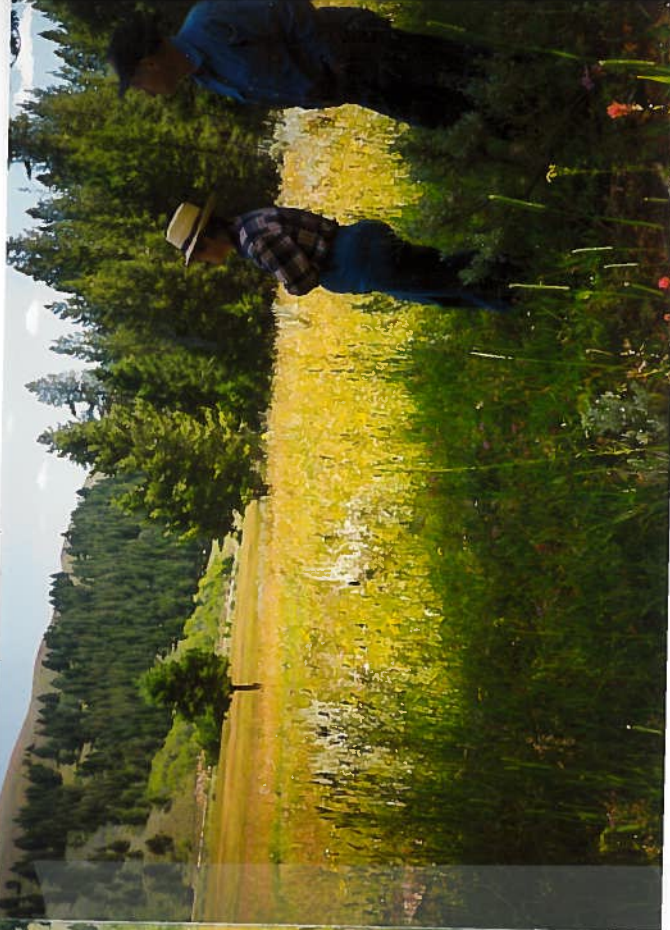
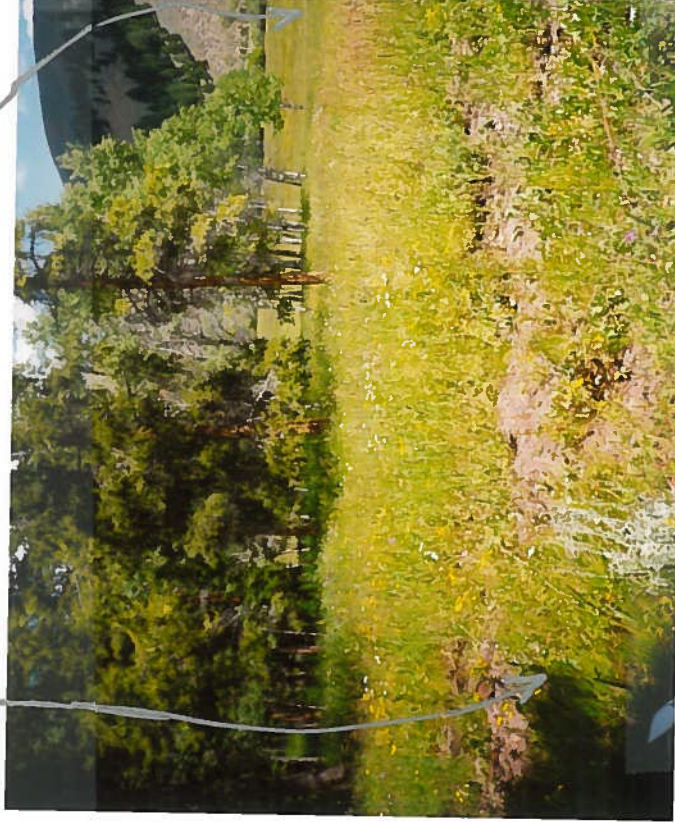
CLAIM # A72-~~00000~~ & 04195  
DATE PHOTOS TAKEN; 8-2-93  
PICTURE SET # 9

This picture set identifies a portion of the P/U between the upper (P/D # 1) ditch and the middle (P/D # 2) ditch systems that is irrigated but also not included in the acreage identified by the ASCS. This ground is recommended in the P/U. You are looking northeast on the left to southeast on the right. The middle ditch generally follows a line along the single trees running through the center of this picture set.

UPPER DITCH

MIDDLE DITCH

MORGAN CREEK  
POOR ORIGINAL



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NOV 01 1994

CLAIM # A72-~~00000~~ & 04195  
DATE PHOTO TAKEN; 8-2-93  
PICTURE # 10

POOR ORIGINAL

This picture is looking north northwest along the middle ditch toward the ground covered by Picture Set # 9 and the farmstead. Note the jeep; it is in the same place as in Picture Set # 9.

JEEP

FARMSTEAD



PICTURE # 11

This picture was taken from a spot near picture # 10 but is looking southeast. The middle ditch runs through the edge of the trees in the center of this picture. The tree in the foreground is also the same tree centered in Picture # 10.



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CLAIM # A72-[REDACTED] & 04195  
DATE PHOTO TAKEN; 8-2-93  
PICTURE # 12

POOR ORIGINAL

This photo was taken at the southern end of the P/U covered by Alder Creek water. The flume shown was newly constructed in 1993 and was NOT a replacement for an existing system. It is crossing the drainage channel for Annie Rooney Creek. Ground south of this point is NOT recommended as a portion of the P/U for the Alder Creek water. This photo is looking north northwest.

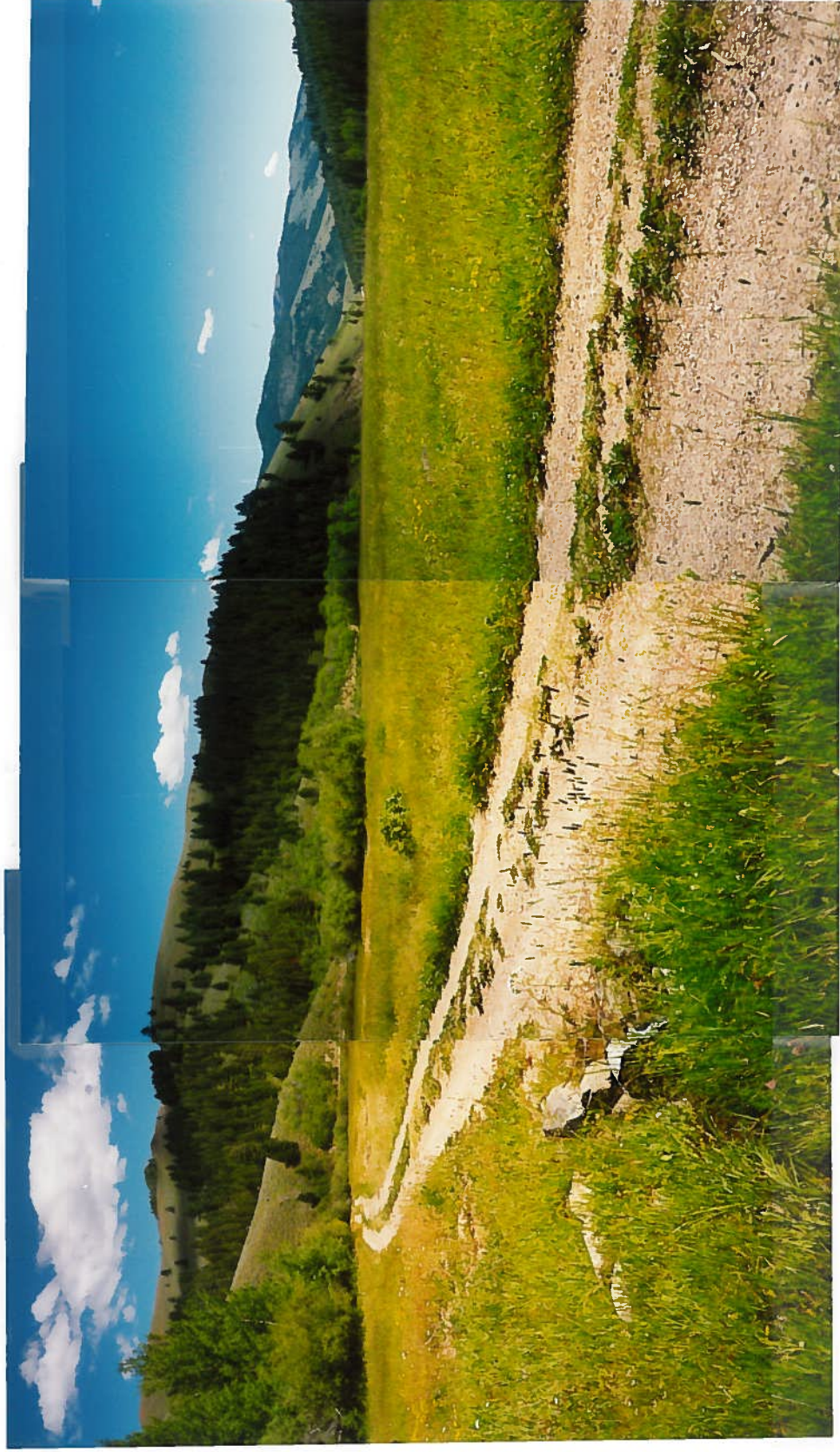


MICROFILMED  
NOV 01 1994

CLAIM # A72-~~XXXXXX~~ & 04195  
DATE PHOTOS TAKEN; 8-2-93  
PICTURE SET # 13

POOR ORIGINAL

This picture set was taken along the northern boundary of the P/U and shows a portion of the delivery system from P/D # 3. The ground surrounding the road on the far side of the culvert was not included within the acreage outlined on the ASCS photo but is included in this recommendation. Alder Creek is within the willows along the left side of this photo set. You are looking east on the left to southeast on the right.



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CLAIM # A72-00165, 00166, & 04195  
DATE PHOTO TAKEN; 9-2-93  
PICTURE # 14

This photo shows the measurement location of the eastern most diversion measurement. Shown is the access road that crosses the ditch just south of the diversion point. This photo is looking southeast.



POOR ORIGINAL

MEASUREMENT  
LOCATION

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NOV 01 1994

## FIELD EXAM ATTACHMENT

DATE: 1-3-93PAGE: 1/2AGENT: KKCFILES: A72-00165, 00166  
04194, 04195

ATTACHMENT SUBJECT: \_\_\_\_\_

Of the four claims two represent the original decreed rights; A72-04195 represents excess flows using the same delivery system for the same P/U as the decreed rights; and A72-04194 represents a beneficial use claim for irrigation from Annie Roorey Creek for the irrigation of 3 Acres.

The original decree incorrectly lists the source as Van Horn Creek rather than Alder Cr. The source was transposed with the source on Claims A72-00163/164. Claims to be recommended with condcodes CØ2 to reflect the change to Alder Cr.

I found three P/O's delivering water to ground within Hcs 263. No clear evidence of expansion of the P/U found therefore I accept the found two as representative of the original decreed P/U. The addition 2 P/Os req cond code CØ3 to recognize the added points.

The P/U is irrigated via flood irrigation with 3 main ditches from the 3 P/Os & a few catch laterals within the P/U. Analysis is based upon flood irrigation & Boxley characteristics.

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## FIELD EXAM ATTACHMENT

DATE: \_\_\_\_\_

PAGE: 2/2

AGENT: \_\_\_\_\_

FILES: \_\_\_\_\_

ATTACHMENT SUBJECT: \_\_\_\_\_

~~#1~~ - 3-94 - Called Dick Fenayson to confirm irrigation days rotation. He stated that with a full head of water that it took approx 4 days to irrigate the ground along the NE portion of the R/W and another 6 to 7 days to irrigate the balance of the R/W. No dry days. I used 10 days as the basis for excess flow analysis.

|                           |            |                                       |
|---------------------------|------------|---------------------------------------|
| Estimated System Capacity | - 4.23 CFS | } additional Analysis sheets Attached |
| Excess flow analysis      | 4.26 CFS * |                                       |
| Claimed rate              | 4.37 CFS   |                                       |

\* As the estimated capacity is very close to the determined requirement of 4.26 CFS I am using the required rate as the limiting factor.

## Rate recommendations:

| claim     | Claim              | Recommend      |
|-----------|--------------------|----------------|
| A72-00165 | 0.70 CFS           | 0.70 CFS       |
| A72-00166 | 0.175              | 0.175 CFS      |
| Total     | 0.875              | limit 4.26 CFS |
| A72-04195 | 3.50 CFS less .875 | 3.38 CFS       |
|           | Total              | 4.255 CFS      |

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## REMARK AND CONDITION CODE WORKSHEET

SYSTEM CLAIM NUMBERS \_\_\_\_\_

AGENT

INITIALS \_\_\_\_\_

DATE \_\_\_\_\_

CLAIM NO.  
OR ENTRY  
ORDERREMARK  
CODE

ENTRY DATA

CONDITION  
CODESTAGE  
OR  
STATUSPRESUMPTION  
CODE

F06

72-00165, 00166

C02

C

04195

C03

J02

HES-263

F12

4.26 CFS (excess flow calculated rate)

112.5 AF (2.5 AF x 45 Aves)

45 Aves (found P/U)

C02 req to flag the source correction that was in the original  
decree.

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NAME OF STREAM OR DITCH ----- ALDER CREEK  
 LOCATION ----- EASTERN MOST P/D OF TH  
 PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW  
 BASIS OF VELOCITY CALCULATIONS -----  
 IF YOU ARE USING A PYGMY METER ENTER ----- 1  
 IF YOU ARE USING A AA METER ENTER ----- 2  
 ENTRY ----- = 1  
 FOLLOWING THE LAST ENTRY IN: -----  
 "DISTANCE FROM INIT PT" ENTRY MUST = "END"

WATER RIGHT NUMBER IF APPLICABLE ----- AZ2-04195, 00165, & 00166  
 AGENT CONDUCTING MEASUREMENT AND DATE- KKC 9-2-93  
 ACCOMPANIED BY ----- DICK FINLAYSON  
 PREMEASUREMENT SPIN TEST (MIN/SEC) ---  
 POST MEASUREMENT SPIN TEST (MIN/SEC) -

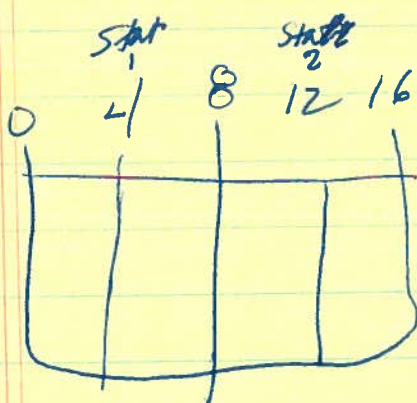
| INITIAL POINT | ANGLE OF COEFFICIENT | DISTANCE FROM INIT PT | DEPTH IN FEET | CALC DEPTH END PTS | 1ST MEASUREMENT REVS | VELOCITY DATA            |                          | CALC WIDTH | AREA     |    | CALCULATED VELOCITY |                    |               | DISCHARGE IN CFS |
|---------------|----------------------|-----------------------|---------------|--------------------|----------------------|--------------------------|--------------------------|------------|----------|----|---------------------|--------------------|---------------|------------------|
|               |                      |                       |               |                    |                      | 1ST MEASUREMENT TIME/SEC | 2ND MEASUREMENT TIME/SEC |            | IN SQ FT | IN | 1ST POINT VELOCITY  | 2ND POINT VELOCITY | MEAN VELOCITY |                  |
|               |                      | 0.00                  | 0.00          | 0.00               | 0                    | 0.0                      |                          | 0.00       | 0.00     |    |                     |                    |               | 0.00             |
|               |                      | 0.33                  | 0.33          |                    | 60                   | 53.9                     |                          | 0.33       | 0.111    |    | 1.11                |                    | 1.11          | 0.12             |
|               |                      | 0.67                  | 0.33          |                    | 60                   | 71.9                     |                          | 0.50       | 0.167    |    | 0.83                |                    | 0.83          | 0.14             |
|               |                      | 1.33                  |               | 0.17               |                      |                          |                          | 0.33       | 0.056    |    |                     |                    | 0.42          | 0.02             |
| END           |                      |                       |               |                    |                      |                          |                          |            |          |    |                     |                    |               | 0.29             |

The ditch was carrying very little water with respect to ditch capacity. Stream flows were low on this date & the western diu was carrying most of the water. The measured flow was estimated to represent approx 15% therefore the ditch capacity would be  $.29 / .15 = 1.93 \text{ CFS}$

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 NOV 0 1 1994

9-2-93

Fen layson  
Eastern-most diu  
on Alder Creek



POOR ORIGINAL

| Stat | Depth | Rev | Sec                               |
|------|-------|-----|-----------------------------------|
| 1    | 4"    | 60  | 53.22<br>54.59                    |
| 2    | 4"    | 60  | 1:10:77" 1 MIN 10.77 SEC<br>1.13. |

14"  $\phi$  CULVERT  
2" WATER DEPTH

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NOV 01 1994

NAME OF STREAM OR DITCH ALDER CREEK  
 LOCATION ----- MAIN DIV, WESTERN MOST  
 PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW  
 BASIS OF VELOCITY CALCULATIONS  
 IF YOU ARE USING A PYGMY METER ENTER ----- 1  
 IF YOU ARE USING A AA METER ENTER ----- 2  
 ENTRY ----- 1  
 FOLLOWING THE LAST ENTRY IN:  
 "DISTANCE FROM INIT PT" ENTRY MUST = "END"

WATER RIGHT NUMBER IF APPLICABLE -----  
 AGENT CONDUCTING MEASUREMENT & DATE --  
 ACCOMPANIED BY -----  
 PREMEASUREMENT SPIN TEST (MIN/SEC) ---  
 POST MEASUREMENT SPIN TEST (MIN/SEC) -  
 A72-00165, 00166, & 04195.  
 KKC 8-2-93  
 DICK FINLAYSON

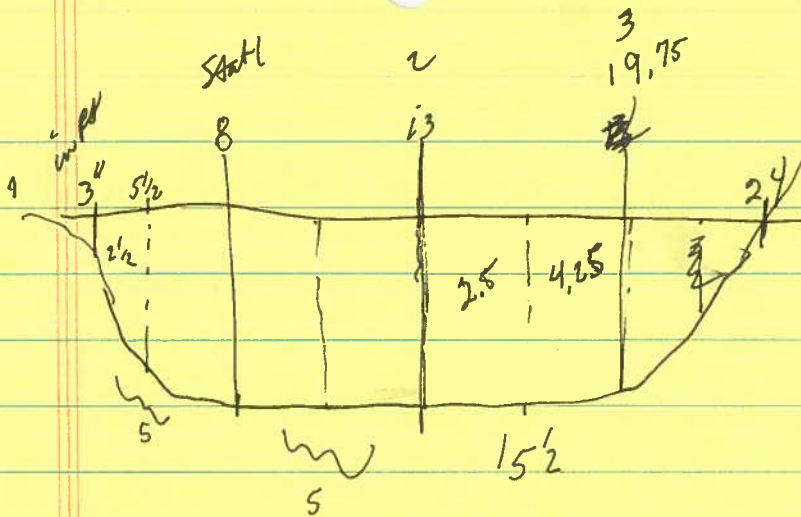
| INITIAL POINT | ANGLE<br>OF<br>COEFFICIENT | DISTANCE<br>FROM<br>INIT PT | DEPTH<br>IN<br>FEET | CALC<br>DEPTH<br>END PTS | 1ST<br>MEASUREMENT<br>REVS | VELOCITY DATA                  |          | CALC<br>WIDTH | AREA<br>IN<br>SQ FT | CALCULATED VELOCITY   |                       |                  | DISCHARGE<br>IN CFS |
|---------------|----------------------------|-----------------------------|---------------------|--------------------------|----------------------------|--------------------------------|----------|---------------|---------------------|-----------------------|-----------------------|------------------|---------------------|
|               |                            |                             |                     |                          |                            | 2ND<br>MEASUREMENT<br>TIME/SEC | TIME/SEC |               |                     | 1ST POINT<br>VELOCITY | 2ND POINT<br>VELOCITY | MEAN<br>VELOCITY |                     |
| 0.25          |                            |                             | 0.28                | 0.14                     | 30                         | 40.1                           |          | 0.21          | 0.030               | 0.75                  |                       | 0.37             | 0.01                |
| 0.67          |                            |                             | 0.31                |                          | 33                         | 34.7                           |          | 0.42          | 0.117               | 0.95                  |                       | 0.75             | 0.09                |
| 1.08          |                            |                             | 0.23                |                          | 30                         | 57.1                           |          | 0.49          | 0.153               | 0.53                  |                       | 0.95             | 0.15                |
| 1.65          |                            |                             |                     | 0.11                     |                            |                                |          | 0.46          | 0.105               |                       |                       | 0.53             | 0.06                |
| 2.00          |                            |                             |                     |                          |                            |                                |          | 0.18          | 0.020               |                       |                       | 0.26             | 0.01                |
| END           |                            |                             |                     |                          |                            |                                |          |               |                     |                       |                       |                  |                     |
|               |                            |                             |                     |                          |                            |                                |          |               |                     |                       |                       |                  | 0.30                |

*ditch was not at capacity & estimated the measured  
 flows as representing 50% of capacity therefore the  
 Ditch capacity was  $.30/50\% = 1.60 \text{ CFS}$*

*KKC*

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 8-2-93

8-2-93



Main.  
or further west

$$\begin{array}{r} 5 \\ 4 \overline{) 21} \end{array}$$

measurement point at  
a point where the  
ditch first reaches  
the clearing

POOR ORIGINAL

$$\begin{array}{r} 24 \\ 15.5 \\ 2 \overline{) 8.5} \end{array}$$

Closest (16") going under  
1/2 full. Culvert is limiting factor  
on ditch system.

|        | REV                 | Sec   | Depth |
|--------|---------------------|-------|-------|
| Stat 1 | 30                  | 40.6  | 3 3/8 |
|        |                     | 39.65 |       |
| 2      | <del>30</del><br>33 | 34.94 | 3 3/4 |
|        |                     | 33.97 |       |
| 3      | 30                  | 58.94 | 2 3/4 |
|        |                     | 55.18 |       |

water clear, channel bottom  
smooth some moss slope on inst p.  
side other side fairly straight  
Ditch uniformity (width) fair.

measurement **MICROFILMED**

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8" steel pipe culvert approx 30' from  
meas. point 1/2 full & is considered the  
restrictive element of system from P/O to  
P/U. Culvert is at the beginning of the  
P/U. (west of homestead)

NAME OF STREAM OR DITCH ALDER CREEK middle Ditch  
 LOCATION ADJUDICATION REVIEW KKC

WATER RIGHT NUMBER IF APPLICABLE ----- A72-00165, 00166, & 04195.  
 AGENT CONDUCTING MEASUREMENT & DATE -- KKC 8-2-93  
 ACCOMPANIED BY ----- DICK FINLAYSON  
 PREMEASUREMENT SPIN TEST (MIN/SEC) ---  
 POST MEASUREMENT SPIN TEST (MIN/SEC) -

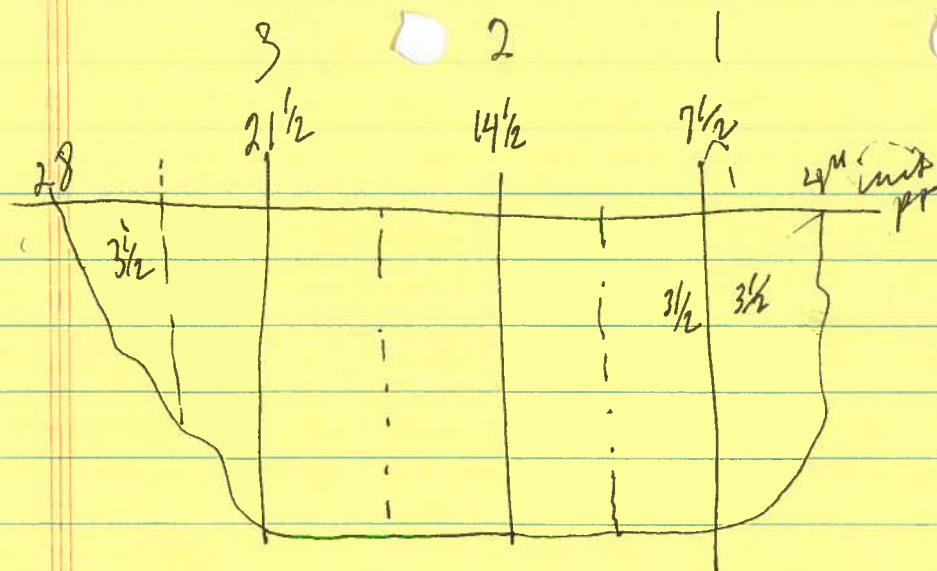
PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW  
 BASIS OF VELOCITY CALCULATIONS ----- 1  
 IF YOU ARE USING A PYGMY METER ENTER ----- 2  
 IF YOU ARE USING A AA METER ENTER ----- 1  
 ENTRY ---- = 1

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

| INITIAL POINT | ANGLE OF COEFFICIENT | DISTANCE FROM INIT PT | DEPTH IN FEET | CALC DEPTH END PTS | 1ST REVS | VELOCITY DATA |                 |          | CALC AREA IN SQ FT | CALCULATED VELOCITY |                    |               | DISCHARGE IN CFS |
|---------------|----------------------|-----------------------|---------------|--------------------|----------|---------------|-----------------|----------|--------------------|---------------------|--------------------|---------------|------------------|
|               |                      |                       |               |                    |          | MEASUREMENT   | 2ND MEASUREMENT | TIME/SEC |                    | 1ST POINT VELOCITY  | 2ND POINT VELOCITY | MEAN VELOCITY |                  |
|               |                      | 0.33                  |               | 0.23               | 30       | 30.1          |                 |          | 0.15               | 0.033               | 1.00               | 0.50          | 0.02             |
|               |                      | 0.63                  | 0.46          |                    | 30       | 19.3          |                 |          | 0.44               | 0.201               | 1.55               | 1.00          | 0.20             |
|               |                      | 1.21                  | 0.50          |                    | 30       | 24.7          |                 |          | 0.58               | 0.292               | 1.21               | 1.55          | 0.45             |
|               |                      | 1.79                  | 0.46          |                    | 30       |               |                 |          | 0.56               | 0.258               |                    | 1.21          | 0.31             |
|               |                      | 2.33                  |               | 0.23               |          |               |                 |          | 0.27               | 0.062               |                    | 0.61          | 0.04             |
| END           |                      |                       |               |                    |          |               |                 |          |                    |                     |                    |               |                  |
|               |                      |                       |               |                    |          |               |                 |          |                    |                     |                    |               | 1.02             |

The ditch was not at capacity. I estimated that the ditch could carry an additional 40%, therefore the ditch capacity is  $1.02/60\% = \underline{1.70\text{ cfs}}$  KKC

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8-2-93 5:20  
middle P/O  
Approx 400 yds from  
P/O.  
me

POOR ORIGINAL

|        | REV           | SEC   | DEPTH |
|--------|---------------|-------|-------|
| Stat 1 | <del>30</del> | 29.38 | 5 1/2 |
|        |               | 30.9  |       |
| Stat 2 |               | 18.94 | 6     |
|        |               | 19.72 |       |
| Stat 3 |               | 24.5  | 5 1/2 |
|        |               | 24.91 |       |

water clear bottom flat with  
small gravel, sides clear of veg.  
ditch sed in somewhat.  
measurement considered good.

pitch not at capacity.  
a culvert (16") at measurement  
point is the restriction factor on  
sys 4m between P/O & P/U.

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NOV 01 1994

CLAIM NO. --- A72-00165, 00166, & 04195 Lotus Program:  
 AGENT ----- KKC IRR-PRAC.WK3  
 DATE ----- 01/03/94 Date form revised:  
 4/21/93 by KKC

\*\*\*\*\*

SOIL CHARACTERISTICS

Soil Type = BC1; BIGLOST...GRAVELLY FINE SANDY LOAM  
 Source of Soils Data = Printout From SCS State Office

| soil depth<br>(inches) |       | AWC<br>(in/in) |       | PH    |       | organic<br>(%) |       | soil depth<br>(ft) | AWC<br>(inches) | intake<br>family |
|------------------------|-------|----------------|-------|-------|-------|----------------|-------|--------------------|-----------------|------------------|
| lower                  | upper | lower          | upper | lower | upper | lower          | upper |                    |                 | flood furrow     |
| 0                      | 5     | 0.11           | 0.14  | 6.6   | 7.8   | 2              | 3     | 1                  | 1.57            | 3 0.7            |
| 5                      | 23    | 0.12           | 0.15  | 6.6   | 7.8   |                |       | 1                  | 1.71            |                  |
| 23                     | 60    | 0.02           | 0.04  | 6.6   | 7.8   |                |       | 3                  | 3.44            |                  |
|                        |       |                |       |       |       |                |       | 4                  | 3.80            | alternate        |
|                        |       |                |       |       |       |                |       | 5                  | 4.17            | method           |
|                        |       |                |       |       |       |                |       |                    |                 | NA NA            |

Management Allowed Deficit (MAD)

| crop                     | root<br>depth<br>(ft) | stress<br>point (INCHES) | MAD  | FIELD NOTES AND CALCULATIONS                         |         |         |         |  |
|--------------------------|-----------------------|--------------------------|------|------------------------------------------------------|---------|---------|---------|--|
|                          |                       |                          |      | FIELD 1                                              | FIELD 2 | FIELD 3 | FIELD 4 |  |
|                          |                       |                          |      | FIELD WIDTH                                          | 7001    | 0       |         |  |
|                          |                       |                          |      | IRRIGATION DAYS                                      | 10      |         |         |  |
|                          |                       |                          |      | DRY DAYS                                             | 0       |         |         |  |
|                          |                       |                          |      | SET TIME(hours)                                      | 8       |         |         |  |
| alfalfa (hay or seed)    | 5                     | 0.5                      | 2.08 | CALCULATED RUN (run = acres*43560/width)             |         |         |         |  |
| corn (field or silage)   | 4                     | 0.5                      | 1.90 | LENGTH (RUN) = 280                                   |         |         |         |  |
| grain (winter or spring) | 4                     | 0.5                      | 1.90 | CALCULATED BORDER WIDTH (ditch length/irr days * cha |         |         |         |  |
| pasture (or grass hay)   | 3                     | 0.5                      | 1.72 | WIDTH = 233                                          |         |         |         |  |
| other (enter below)      |                       |                          |      | THEORETICAL ROTATION (mad/net irr req in inches per  |         |         |         |  |
|                          |                       |                          |      | SELECTED MAD = 1.72                                  |         |         |         |  |
|                          |                       |                          |      | ROTATION = 7.5 DAYS                                  |         |         |         |  |

\*\*\*\*\*

PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS  
 Figure No = 10-15

| crop    | acres | system | recomm.<br>eff. | Net Irrigation Requirement (mm/day) |      |      |      |      |      |      |
|---------|-------|--------|-----------------|-------------------------------------|------|------|------|------|------|------|
|         |       |        |                 | mar                                 | apr  | may  | jun  | jul  | aug  | sep  |
| PASTURE | 45    | FLOOD  | 7.6             | 1.47                                | 3.84 | 4.87 | 5.86 | 4.56 | 3.23 | 2.07 |
| ALFALFA |       | FLOOD  |                 | 1.28                                | 4.51 | 5.65 | 6.25 | 4.45 | 2.52 | 0.7  |

Summary 45 8 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

**MICROFILMED**  
**NOV 01 1994**

# GRADED BORDER EVALUATION

Job name: A72-00165, 00166  
By: KKC

Location: BC1 SOILS FOR 45 ACRES  
Date: Jan 3, 1994

Roughness coefficient (n)= 0.250 Intake family (If)=3.00  
Slope (S)= 0.0200 ft/ft Border width (W)= 233 ft  
Net application (Fn)= 1.72 inches Border length (L)= 280 ft  
Inflow time (Ti)= 8 hours, 0 minutes

| Flow per<br>Border<br>(cfs) | Unit<br>Flow<br>(cfs/ft)                                  | Gross<br>Application<br>(in) | Deep<br>Percolation<br>(in) | Runoff<br>(in) | Application<br>Efficiency<br>(percent) | Notes |
|-----------------------------|-----------------------------------------------------------|------------------------------|-----------------------------|----------------|----------------------------------------|-------|
| 4.25                        | Gross depth is less than required gross application depth |                              |                             |                |                                        |       |
| 4.26                        | 0.018                                                     | 22.57                        | 20.84                       | 0.01           | 7.6                                    |       |
| 4.27                        | 0.018                                                     | 22.62                        | 20.84                       | 0.06           | 7.6                                    |       |
| 4.28                        | 0.018                                                     | 22.67                        | 20.84                       | 0.11           | 7.6                                    |       |
| 4.29                        | 0.018                                                     | 22.73                        | 20.84                       | 0.17           | 7.6                                    |       |
| 4.30                        | 0.018                                                     | 22.78                        | 20.84                       | 0.22           | 7.6                                    |       |
| 4.31                        | 0.018                                                     | 22.83                        | 20.84                       | 0.27           | 7.5                                    |       |
| 4.32                        | 0.019                                                     | 22.88                        | 20.84                       | 0.33           | 7.5                                    |       |
| 4.33                        | 0.019                                                     | 22.94                        | 20.84                       | 0.38           | 7.5                                    |       |
| 4.34                        | 0.019                                                     | 22.99                        | 20.84                       | 0.43           | 7.5                                    |       |
| 4.35                        | 0.019                                                     | 23.04                        | 20.84                       | 0.49           | 7.5                                    |       |

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NOV 01 1994

8-2-93

A  
72-  
00165

- Roll #1
- ✓ Pic # 5 shows the Northern most P/D and is looking NW
  - ✓ Pic #6 shows the next down stream P/D (approx 60' from Woodshed) looking NNE
  - ✓ #7 last P/D looking W approx 100 east of second P/D
  - ✓ 3 pan shots looking E to S. (so looks toward end of old corner stake.

Roll #2 then pan shots showing P/G out side ASCS Field boundary south of farmstead.

- ✓ #4 looking east across 2nd ditch south of ASCS Boundary
- ✓ #5 looking N/NW near same spot.
- ✓ #6 at Southern end of P/G looking N showing flume crossing Annie Roonie.

charge systems

- ✓ #7 P/D on Annie Roonie not distinct look E
- ✓ #8 approx 100 E of #7 looking SE showing flume over channel 5' current ditch
- ✓ #9 P/D looking N/NE to NNW @ end of P/G for Annie Roonie Div.
- ✓ 11. looking NW showing Annie Roonie di flume, old Annie roonie channel.

end of roll 2

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NOV 14 1994

8-2-93

A72-00165 cont

Roll #3.

Flume first installed in 1983 to carry  
Alder Creek wastewater So. of Annie Rooney Creek  
Annie Rooney Creek flow was too small to measure.

✓ Pic # Pan 1 thru 3: showing P/U & ditch carrying water to  
P/U North of P/U outlined by ASCS. (old system)

1 pic taken at each measurement point  
starting upstream & going down, in order.

X X X

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NOV 01 1994

## FIELD EXAM ATTACHMENT

DATE: 12-13-93PAGE: 1/1AGENT: XKCFILES: Claims when SCS soilsBASIS FOR SOIL TYPE ANALYSIS Info. not available as of this dateATTACHMENT SUBJECT: AREA OF CONCERN:17 N 18 E SEC. 25, 3617 N 19 E SEC. 18, 19, 20, 21, 29 & 3116 N 19 E SEC. 6

Available soils identification of Ground surrounding Morgan Creek ends with SCS map 243-32 which covers the junction of Morgan Creek & West Fork of Morgan Creek. The irrigated ground in this area (covered by claims A72-00158A, 00159A & 00160A) is classified as BCL. The physical appearance of this ground is similar to the irrigated parcels within the above legal descriptions therefore I have selected this soil type for the excess flow analysis.

Soils analysis conducted by the forest Service and provided by the claimant for rights A72-00165/00166 excludes private ground from their descriptions. The surrounding analyzed grounds are the steeper, timbered slopes that do not match the irrigated ground profile.

MICROFILMED

NOV 01 1994



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

07-01-1993

Dear Mr. Finlayson:

I've put your letter into the file for your claim(s) and reviewed it w/ the agent who will probably do the field exam. Due to our being over whelmed w/ claim exams right now it will be awhile before you hear from us.

I am on the E. Fork for the summer and expect to be busy through Labor Day at least. Perhaps we will visit as we scramble to get other areas done after we finish up our first assignments.

Thank you for your letter and your attention to your claims. Best wishes!

Frank Hitchcock, IDWR agent  
Village Inn in Challis or here  
cc: file

MICROFILMED

NOV 01 1994

HCR 82 Box 4035  
Challis, ID 83226  
18 June 1993

Mr. Francis G. Hitchcock  
Sr. Water Resource Agent  
Southern Regional Office  
Idaho Department of Water Resources  
222 Shoshone St. East  
Twin Falls, Idaho 83301

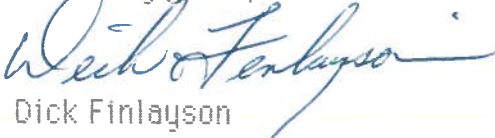
Dear Mr. Hitchcock:

Thank you for the information you recently sent to me regarding sections of the Idaho Code and Manual on Evaluation of irrigation diversions.

I understand that IDWR field visits are now being made in the Challis area. I would like to arrange to meet with the IDWR agent when they visit our ranch on Morgan Creek. We would appreciate it if you could let us know as far in advance as possible, so that we can be sure to be here.

We do not have a telephone but we do receive mail on Monday, Wednesday and Friday. If you could send us a note we would appreciate it.

Sincerely yours,

  
Dick Finlayson

✓ cc Village Motel  
Challis, ID 83226

**MICROFILMED**  
**NOV 01 1994**

  
**Idaho Department of Water Resources**  
222 Shoshone St. E., Twin Falls, ID 83301

FRANCIS G. HITCHCOCK  
SR. WATER RESOURCE AGENT  
SOUTHERN REGIONAL OFFICE  
(208) 736-3033  
FAX (208) 736-3037

Idaho  
**DEPARTMENT OF WATER RESOURCES**  
Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3033

R. KEITH HIGGINSON  
Director

25-May-1993

Mr. Dick Finlayson  
374 Fairway Drive  
Pocatello, ID 83201

Dear Mr. Finlayson:

I have made copies of the materials that you called about yesterday morning and enclose them for your review as promised.

Please note that I copied only the text of the Idaho Code section that you asked for. There is a continuation under the heading of Analysis that lists key words and gives case citations where the subject was an issue. If you want to look them up you can review a copy of the code (Volume 8) at page 55 at your public library or the courthouse law library.

In an attempt to keep things simple I enclose the pages from our manual on evaluation of irrigation diversions that covers the formula and a short description of the consumptive use rates method used when we evaluate SRBA claims. This is an attempt to provide you the information you requested in as simple a framework as possible.

If you have further questions after you review the enclosures please call or write.

Sincerely yours,



Francis G. Hitchcock  
Water Resources Agent, Sr.

FH/abh

enclosures

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**Construction.**

While conduit through which water user diverted water was not strictly a ditch or canal, nevertheless he was liable for fee based on capacity of his diversion works. *Idaho Power & Transp. Co. v. Stephenson*, 16 Idaho 418, 101 P. 821 (1909).

**Nature of Water Use.**

The director of the department of water resources has not been granted the authority to approve an application for a requested change in the nature of the use of water. *Baker Indus., Inc. v. Georgetown Irrigation Dist.*, 101 Idaho 187, 610 P.2d 546 (1980).

**42-222. Change in point of diversion, place of use, period of use, or nature of use of water under established rights — Forfeiture and extension — Appeals.** — (1) Any person, entitled to the use of water whether represented by license issued by the department of water resources, by claims to water rights by reason of diversion and application to a beneficial use as filed under the provisions of this chapter, or by decree of the court, who shall desire to change the point of diversion, place of use, period of use or nature of use of all or part of the water, under the right shall first make application to the department of water resources for approval of such change. Such application shall be upon forms furnished by the department and shall describe the right licensed, claimed or decreed which is to be changed and the changes which are proposed, and shall be accompanied by the statutory filing fee as in this chapter provided. Upon receipt of such application it shall be the duty of the director of the department of water resources to examine same, obtain any consent required by section 42-108, Idaho Code, and if otherwise proper to provide notice of the proposed change in the same manner as applications under section 42-203A, Idaho Code. Such notice shall advise that anyone who desires to protest the proposed change shall file notice of protests with the department within ten (10) days of the last date of publication. Upon the receipt of any protest it shall be the duty of the director of the department of water resources to investigate the same and to conduct a hearing thereon. He shall also advise the watermaster of the district in which such water is used of the proposed change and the watermaster shall notify the director of the department of water resources of his recommendation on the application, and the director of the department of water resources shall not finally determine the action on the application for change until he has received from such watermaster his recommendation thereof, which action of the watermaster shall be received and considered as other evidence.

The director of the department of water resources shall examine all the evidence and available information and shall approve the change in whole, or in part, or upon conditions, provided no other water rights are injured thereby, the change does not constitute an enlargement in use of the original right, and the change is consistent with the conservation of water resources within the state of Idaho and is in the local public interest as defined in section 42-203A(5), Idaho Code; except the director shall not approve a change in the nature of use from agricultural use where such change would significantly affect the agricultural base of the local area. The transfer of the right to the use of stored water for irrigation purposes shall not constitute an enlargement in use of the original right even though more acres may be irrigated, if no other water rights are injured thereby. A copy of the approved application for change shall be returned to the appli

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cant and he shall be authorized upon receipt thereof to make the change and the original water right shall be presumed to have been amended by reason of such authorized change. In the event the director of the department of water resources determines that a proposed change shall not be approved as provided in this section, he shall deny the same and forward notice of such action to the applicant by certified mail, which decision shall be subject to judicial review as hereafter provided.

(2) All rights to the use of water acquired under this chapter or otherwise shall be lost and forfeited by a failure for the term of five (5) years to apply it to the beneficial use for which it was appropriated and when any right to the use of water shall be lost through nonuse or forfeiture such rights to such water shall revert to the state and be again subject to appropriation under this chapter; except that all water rights appurtenant to land contracted in a federal cropland set-aside program, shall not be lost and forfeited for nonuse during the contracted period. The five (5) year period of nonuse for forfeiture of a water right shall begin to accrue upon termination of the contract if a period of nonuse did not occur prior to the effective date of the contract or shall continue to accrue if a period of nonuse occurred prior to the effective date of the contract. Upon proper showing before the director of the department of water resources of good and sufficient reason for nonapplication to beneficial use of such water for such term of five (5) years, the director of the department of water resources is hereby authorized to grant an extension of time extending the time for forfeiture of title for nonuse thereof, to such waters for a period of not to exceed five (5) additional years. Application for an extension shall be made before the end of the five (5) year period upon forms to be furnished by the department of water resources and shall fully describe the right on which an extension of time to resume the use is requested and the reasons for such nonuse and shall be accompanied by the statutory filing fee; provided that water rights appurtenant to land contracted in a federal cropland set-aside program are exempt from this requirement. Upon the receipt of such application it shall be the duty of the director of the department of water resources to examine the same and to provide notice of the application for an extension in the same manner as applications under section 42-203A, Idaho Code. The notice shall fully describe the right, the extension which is requested and the reason for such nonuse and shall state that any person desiring to object to the requested extension may submit a protest to the director of the department of water resources within ten (10) days of the last date of publication. Upon receipt of a protest it shall be the duty of the director of the department of water resources to investigate and conduct a hearing thereon as in this chapter provided. The director of the department of water resources shall find from the evidence presented in any hearing, or from information available to the department, the reasons for such nonuse of water and where it appears to the satisfaction of the director of the department of water resources that other rights will not be impaired by granting an extension of time within which to resume the use of the water and good cause appearing for such nonuse, he may grant one (1) extension of five (5) years within which to resume such use. In his

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approval of the application for an extension of time under this section the director of the department of water resources shall set the date when the use of water is to be resumed. Sixty (60) days before such date the director of the department of water resources shall forward to the applicant at his address of record a notice by certified mail setting forth the date on which the use of water is to be resumed and a form for reporting the resumption of the use of the water right. If the use of the water has not been resumed and report thereon made on or before the date set for resumption of use such right shall revert to the state and again be subject to appropriation, as provided in this section. In the event the director of the department of water resources determines that a proposed extension of time within which to resume use of a water right shall not be approved as provided in this section[,] he shall deny same and forward notice of such action to the applicant by certified mail, which decision shall be subject to judicial review as hereafter provided.

(3) Any person or persons feeling themselves aggrieved by the determination of the department of water resources in approving or rejecting an application to change the point of diversion, place, period of use or nature of use of water under an established right or an application for an extension of time within which to resume the use of water as provided in this section, may, if a protest was filed and a hearing held thereon, seek judicial review pursuant to section 42-1701A(4), Idaho Code. If no protest was filed and no hearing held, the applicant may request a hearing pursuant to section 42-1701A(3), Idaho Code, for the purpose of contesting the action of the director and may seek judicial review of the final order of the director following the hearing pursuant to section 42-1701A(4), Idaho Code. [1903, p. 223, § 1; am. 1905, p. 27, § 1; am. 1907, p. 507, § 1; reen. R.C., § 3264; am. 1915, ch. 34, § 1, p. 103; am. 1917, ch. 166, § 1, p. 495; C.L., § 3264; C.S., § 5582; am. 1921, ch. 146, § 1, p. 334; I. C.A., § 41-216; am. 1933, ch. 193, § 1, p. 382; am. 1943, ch. 53, § 2, p. 101; am. 1945, ch. 63, § 1, p. 79; rep. and reen. 1969, ch. 303, § 2, p. 905; am. 1980, ch. 238, § 6, p. 526; am. 1981, ch. 147, § 3, p. 253; am. 1982, ch. 202, § 1, p. 531; am. 1986, ch. 313, § 5, p. 763; am. 1988, ch. 153, § 1, p. 273; am. 1990, ch. 141, § 5, p. 316.]

**Legislative Intent.** Section 1 of S.L. 1990, ch. 141 read: "It is the intent of the legislature that passage of this act shall not affect existing appropriations of water that are used outside the state of Idaho nor affect the provisions of any interstate compact."

**Compiler's notes.** Section 42-203, referred to in the second paragraph of subsection (1) of this section, has been amended and transferred to § 42-203A.

Section 1 of S.L. 1943, ch. 53 is compiled herein as § 42-108.

Section 1 of S.L. 1969, ch. 303 is compiled herein as § 42-108.

Section 6 of S.L. 1986, ch. 313 contains repeals and § 7 is compiled as § 42-311.

Section 4 of S.L. 1990, ch. 141 is compiled as § 42-203A.

Section 6 of S.L. 1990, ch. 141 read: "The provisions of this act are hereby declared to be severable and if any provision of this act or the application of such provision to any person or circumstance is declared invalid for any reason, such declaration shall not affect the validity of remaining portions of this act."

Section 2 of S.L. 1945, ch. 63 declared an emergency. Approved Feb. 21, 1945.

Section 4 of S.L. 1981, ch. 147 declared an emergency. Approved March 27, 1981.

**Sec. to sec. ref.** This section is referred to in §§ 42-108, 42-237, 42-1401A, 42-1409, 42-1416A, 42-1720, 42-1763, 42-1764, 43-341, 43-701I, 50-1030 and 50-1805A.

**Cited in:** *Almo Water Co. v. Darrington*, 95 Idaho 16, 501 P.2d 700 (1972); *Newell v. ...*

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**GUIDELINES FOR THE EVALUATION  
OF IRRIGATION DIVERSION RATES**

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
1301 North Orchard Street  
Boise, Idaho 83720

October, 1991

Prepared by  
Hubble Engineering, Inc.  
and  
Associated Earth Sciences  
7025 Emerald  
Boise, Idaho 83704

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## III. Procedure for Determining On-Farm Irrigation Requirement

The on-farm irrigation requirement is a function of: 1) field application efficiency and 2) crop consumptive use. It can be determined with the following equation:

$$F.I.R. = 4.2 \frac{C.U.}{F.A.E.} \quad \text{Eq. 10}$$

Where: F.I.R. = on-farm irrigation requirement  
(cfs/ac)

F.A.E. = field application efficiency (%)

C.U. = consumptive use rate (in/day)

4.2 = factor to convert units

For example, if the consumptive use is 0.25 in/day, the field application efficiency is 50%, the on-farm irrigation requirement is computed as follows:

$$F.I.R. = 4.2 \frac{0.25}{50} = 0.021 \text{ cfs/ac}$$

## A. Field Application Efficiency

Guidelines for determining field application efficiency were presented in Section II.

## B. Procedure for Determining Consumptive Use

The moisture used by plants in transpiration and growth plus the moisture that evaporates directly from the surface of the soil is called consumptive use. "Transpiration is the process by which water is removed from the soil by a plant, moved through the plant to the leaves, and lost to the atmosphere in vapor form. For irrigation, the moisture used in plant growth and that retained by the plant is included."<sup>22</sup> "Evaporation is the diffusion of water as a vapor from a surface into the atmosphere. Factors that affect the rate of evaporation are the nature of the evaporating surface and differences in vapor pressure as determined by temperature, wind, and

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<sup>22</sup>USDA, SCS, National Engineering Handbook, Section 15, Chapter 1, p 1-35.

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atmospheric pressure."<sup>23</sup>

Some of the more popular methods of determining consumptive use are the Blaney-Criddle, Radiation, Penman, and Pan evaporation. A report prepared by Allen & Brockway<sup>24</sup> presents a modification to the Blaney-Criddle method for estimating consumptive use and will be used in these guidelines.

Allen & Brockway calculated consumptive use values for 16 different crops at 98 weather stations throughout Idaho (83 in the Snake River Basin). A limited number of these tables were published and a set is available at the State Office of the Idaho Department of Water Resources.

The process for determining consumptive use rates, based on the Allen & Brockway publication, is as follows:

Select the weather station that best represents the area being evaluated. The selected weather station table will show the prevalent crops at the top of the table. The columns are divided into six monthly values. The rows labeled AVE IR in each monthly section shows average consumptive use rates. It shows both average daily consumptive use for each month in millimeters per day (mm/day) and seasonal totals in millimeters (mm).

Diversion rates should be based on the highest consumptive use rates for the season and the highest consumptive use crop in the rotation.

Consumptive use may be converted from millimeters to inches by dividing by 25.4 mm/in.

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<sup>23</sup>Ibid., pp. 1-36, 1-37.

<sup>24</sup>Allen, R. G. and Brockway, C. E., Estimating Consumptive Irrigation Requirements for Crops in Idaho, Idaho Water and Energy Resources Research Institute, University of Idaho, Moscow, Idaho, August 1983, 183 pp.

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# ALLEN & BROCKWAY WEATHER STATIONS

## COLUMBIA RIVER BASIN

## SNAKE RIVER BASIN

## BEAR RIVER BASIN

1. ABERDEEN E 1P. STAT
2. AMERICAN FALLS 1 SW
3. ANDERSON DAM
4. ARBON 2 NW
5. ARCO 3 SW
6. ASHTON
7. BAYVIEW MODEL BASIN
8. BLACKFOOT 2 SW
9. BLISS
10. BOISE WSO AP
11. BONNERS FERRY 1 SW
12. BRUNEAU
13. BURLEY FAA AP
14. CABINET GORGE
15. CALDWELL
16. CAMBRIDGE
17. CASCADE 1 NW
18. CASTLEFORD 2 N
19. CHALLIS
20. CHILLY BARTON FLAT
21. COEUR D'ALENE 1 E
22. COTTONWOOD
23. COUNCIL
24. DEER FLAT DAM
25. DRIGGS
26. DUBOIS EXP. STATION
27. EMMETT 2 E
28. FAIRFIELD RS
29. FORT HALL INDIAN AGENCY
30. GARDEN VALLEY RS
31. GRACE
32. GLENNS FERRY
33. GRAND VIEW 2 W
34. GRANGEVILLE
35. HAILEY RS
36. HAMER 4 NW
37. HAZELTON
38. HILL CITY
39. HOLLISTER
40. HOWE
41. IDAHO CITY
42. IDAHO FALLS 2 ESE
43. IDAHO FALLS 16 SE
44. IDAHO FALLS FAA AP
45. IDAHO FALLS 46 W
46. ISLAND PARK DAM
47. JEROME
48. KELLOGG
49. KILGORE
50. KOOSKIA
51. KUNA 2 NNE
52. LEWISTON WSO AP
53. LFTON PUMPING STATION
54. MACKAY RS
55. MALAD
56. MALAD CITY
57. MALTA 2 E
58. MAY
59. MC CALL
60. MINIDOKA DAM
61. MONTEPELLIER RANGER STATION
62. MOSCOW - UNIV. OF IDAHO
63. MOUNTAIN HOME
64. NEW MEADOWS RS
65. NEZPERCE
66. OAKLEY
67. OLA 4 S
68. OROFINO
69. PALISADES DAM
70. PARMA EXP. STATION
71. PAUL 1 ENE
72. PAYETTE
73. PICABO
74. POCATELLO WSO AR
75. PORTHILL
76. POTLATCH 4 NNE
77. PRESTON SUGAR FACTORY
78. REYNOLDS
79. RICHFIELD
80. RIGGINS
81. RUPERT
82. ST ANTHONY 1 WNW
83. SAINT MARIES
84. SALMON
85. SALMON 1 N
86. SANDPOINT EXPERIMENT STATION
87. SHOSHONE 2 WNW
88. STANLEY
89. STREVELL
90. SWAN FALLS POWER HOUSE
91. SWAN VALLEY
92. TENSED
93. TETONIA EXP. STATION
94. THREE CREEK
95. TWIN FALLS 2 NNE
96. TWIN FALLS 3 SE
97. TWIN FALLS WSO
98. WEISER 2 SE

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Est. CU and CIR.

May

(Allen & Brockway, 1983) mm/day and mm/season

|         |    |    |        | MO | NYRS  | PREC  | ETR  | ALFH. | PAST. |
|---------|----|----|--------|----|-------|-------|------|-------|-------|
|         |    |    |        | 3  | 43    | 31    | 1.15 |       |       |
| AVE ET  | 3  | 43 | 95.35  |    |       |       |      |       |       |
| AVE IR  | 3  | 43 | 95.35  |    |       |       |      |       |       |
| STDD ET | 3  | 43 | 95.35  |    |       |       | .41  |       |       |
| STDD IR | 3  | 43 | 95.35  |    |       |       |      |       |       |
| SKW ET  | 3  | 43 | 1.07   |    |       |       | -.55 |       |       |
| SKW IR  | 3  | 43 | 95.35  |    |       |       |      |       |       |
|         |    |    |        | 4  | 43    | .56   | 4.14 |       | 1.41  |
| AVE ET  | 4  | 43 | 100.00 |    |       |       |      |       | 1.12  |
| AVE IR  | 4  | 43 | 100.00 |    |       |       | .46  |       | .16   |
| STDD ET | 4  | 43 | 100.00 |    |       |       |      |       | .30   |
| STDD IR | 4  | 43 | 100.00 |    |       |       | -.44 |       | -.44  |
| SKW ET  | 4  | 43 | 100.00 |    |       |       |      |       | -.53  |
| SKW IR  | 4  | 43 | 100.00 |    |       |       |      |       |       |
|         |    |    |        | 5  | 43    | 1.23  | 5.68 | 4.35  | 3.94  |
| AVE ET  | 5  | 43 | 100.00 |    |       |       |      | 3.54  | 3.19  |
| AVE IR  | 5  | 43 | 100.00 |    |       |       | .47  | .36   | .33   |
| STDD ET | 5  | 43 | 100.00 |    |       |       |      | .59   | .55   |
| STDD IR | 5  | 43 | 100.00 |    |       |       | -.19 | -.19  | -.19  |
| SKW ET  | 5  | 43 | 100.00 |    |       |       |      | .31   | .30   |
| SKW IR  | 5  | 43 | 100.00 |    |       |       |      |       |       |
|         |    |    |        | 6  | 43    | 1.44  | 7.15 | 6.39  | 5.50  |
| AVE ET  | 6  | 43 | 100.00 |    |       |       |      | 5.30  | 4.51  |
| AVE IR  | 6  | 43 | 100.00 |    |       |       | .48  | .43   | .37   |
| STDD ET | 6  | 43 | 100.00 |    |       |       |      | .05   | .76   |
| STDD IR | 6  | 43 | 100.00 |    |       |       | .44  | .44   | .43   |
| SKW ET  | 6  | 43 | 100.00 |    |       |       |      | -.24  | -.27  |
| SKW IR  | 6  | 43 | 100.00 |    |       |       |      |       |       |
|         |    |    |        | 7  | 43    | .68   | 7.81 | 6.40  | 6.02  |
| AVE ET  | 7  | 43 | 100.00 |    |       |       |      | 5.89  | 5.54  |
| AVE IR  | 7  | 43 | 100.00 |    |       |       | .32  | .26   | .25   |
| STDD ET | 7  | 43 | 100.00 |    |       |       |      | .47   | .44   |
| STDD IR | 7  | 43 | 100.00 |    |       |       | .26  | .22   | .25   |
| SKW ET  | 7  | 43 | 100.00 |    |       |       |      | -.85  | -.85  |
| SKW IR  | 7  | 43 | 100.00 |    |       |       |      |       |       |
|         |    |    |        | 8  | 44    | .78   | 6.26 | 4.65  | 4.82  |
| AVE ET  | 8  | 44 | 95.45  |    |       |       |      | 4.15  | 4.34  |
| AVE IR  | 8  | 44 | 95.45  |    |       |       | .34  | .25   | .26   |
| STDD ET | 8  | 44 | 95.45  |    |       |       |      | .58   | .57   |
| STDD IR | 8  | 44 | 95.45  |    |       |       | .38  | .37   | .38   |
| SKW ET  | 8  | 44 | 95.45  |    |       |       |      | -.52  | -.50  |
| SKW IR  | 8  | 44 | 95.45  |    |       |       |      |       |       |
|         |    |    |        | 9  | 45    | .77   | 4.54 | 2.23  | 3.49  |
| AVE ET  | 9  | 45 | 97.78  |    |       |       |      | 1.80  | 3.04  |
| AVE IR  | 9  | 45 | 97.78  |    |       |       | .41  | .20   | .32   |
| STDD ET | 9  | 45 | 97.78  |    |       |       |      | .50   | .58   |
| STDD IR | 9  | 45 | 97.78  |    |       |       | -.15 | -.15  | -.15  |
| SKW ET  | 9  | 45 | 97.78  |    |       |       |      | -.95  | -.64  |
| SKW IR  | 9  | 45 | 97.78  |    |       |       |      |       |       |
|         |    |    |        | 10 | 44    | .55   | 2.79 |       | 2.15  |
| AVE ET  | 10 | 44 | 90.91  |    |       |       |      |       | 1.89  |
| AVE IR  | 10 | 44 | 90.91  |    |       |       | .31  |       | .24   |
| STDD ET | 10 | 44 | 90.91  |    |       |       |      |       | .40   |
| STDD IR | 10 | 44 | 90.91  |    |       |       | -.35 |       | -.34  |
| SKW ET  | 10 | 44 | 1.42   |    |       |       |      |       | -1.13 |
| SKW IR  | 10 | 44 | 90.91  |    |       |       |      |       |       |
|         |    |    |        | 40 | 160.1 | 1208. | 735. | 835.  |       |
| AVE ET  | 40 | 40 | 0.0    |    |       |       | 0.   | 631.  | 720.  |
| AVE IR  | 40 | 40 | 34.6   |    |       |       | .47. | .28.  | .29.  |
| STDD ET | 40 | 40 | 0.0    |    |       |       | 0.   | .41.  | .41.  |
| STDD IR | 40 | 40 | -.23   |    |       |       | .55  | .50   | .66   |
| SKW ET  | 40 | 40 |        |    |       |       |      | .24   | .51   |
| SKW IR  | 40 | 40 |        |    |       |       |      |       |       |

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SD-0601-2 Last Name: FINLAYSON

STATE

| S<br>E<br>L | First<br>Name | O<br>W<br>N | Water<br>Right No. | Priority<br>Date | Source      | Total<br>Diversion | Use<br>Code Desc      |
|-------------|---------------|-------------|--------------------|------------------|-------------|--------------------|-----------------------|
| ---         | FINLAYSON     | ---         | ---                | ---              | ---         | ---                | ---                   |
| ---         | FRANK E.      | C           | A21-10099          | 07/31/1952       | GROUNDWATER | 0.080              | 43 DOMEST             |
| ---         | MARY ALICE    | C           | A21-10099          | 07/31/1952       | GROUNDWATER | 0.080              | 43 DOMEST             |
| ---         | KEITH J.      | C           | A45-10233          | 12/31/1905       | GROUNDWATER | 0.040              | 43 DOMEST             |
| ---         | ANN           | C           | A72-04194          | 06/01/1960       | ANNIE ROONI | 1.020              | 01 IRR<br>04 STOCK    |
| ---         | HARRY R.      | C           | A75-10144          | 04/15/1950       | GROUNDWATER | 0.070              | 04 STOCK<br>43 DOMEST |
| ---         | PHOEBE ANN    | C           | A75-10144          | 04/15/1950       | GROUNDWATER | 0.070              | 04 STOCK<br>43 DOMEST |
| ---         | ANN           | C           | A72-04195          | 12/31/1912       | ALDER CREEK | 3.520              | 01 IRR<br>04 STOCK    |
| ---         | ANN           | C           | R72-04194          | 06/01/1960       | ANNIE ROONI | 1.020              | 01 IRR<br>04 STOCK    |
| ---         | ANN           | C           | R72-04195          | 12/31/1912       | ALDER CREEK | 3.520              | 01 IRR<br>04 STOCK    |

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(Enter=Continue) (GOLD7=This Query)

(Menu \_\_\_\_\_)

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Water Right Number - R72-04194

Prefix Translation:

RESEARCH

Old (D) Number -

\*\*\* C - CURRENT OWNER \*\*\*  
FINLAYSON

ANN

1 - 374 FAIRWAY DR.  
2 -  
3 -

City- POCATELLO  
Phone - 208-237-2234

State- ID Zip- 83201

Priority Date - +  
06/01/1960

Region - +  
17 SOUTHERN

Stage - +  
S - STATUTORY CLAIM

Status - +

Source - +  
ANNIE ROONIE CREEK

Tributary - +  
MORGAN CREEK

Twn Rng Sec Tract Lot Rflg County Point of Diversion - +  
17N 19E 18 SW SE (37) CUSTER

Code Description  
01 - IRRIGATION  
04 - STOCKWATER

Period From Period To  
06/01 10/31  
05/01 10/31

Water Use  
1.000  
0.020

Diversion Rate Diversion Volume

Total Div. Rate - +  
1.020

Total Div. Volume - +

Total Consumptive Use - +  
75.0

KW Usage - +

| Twn | Rng | Sec | Tract | Lot | Acres | Place of Use | Code       | Description | County |
|-----|-----|-----|-------|-----|-------|--------------|------------|-------------|--------|
| 17N | 19E | 18  | SW SE |     | 10.0  | 01           | IRRIGATION | (37) CUSTER |        |
| 17N | 19E | 18  | SE SE |     | 10.0  | 01           | IRRIGATION | (37) CUSTER |        |
| 17N | 19E | 19  | NE NE |     | 10.0  | 01           | IRRIGATION | (37) CUSTER |        |

Total Acres: 30.0

- - - Diversion Means - CANVAS OAM

- - - Non-Irrigation Use - S/100 RANGE, HORSES

- - - Other Rights for Same Use - NONE

Remarks  
No Remarks found.

No Old Water Right Numbers Found

Old Water Right Numbers

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NOV 01 1994

Prefix Translation: RESEARCH

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

Decree Defendant - - +

- - -Comments- -  
No Comments Found

- +  
00/00/00

Adjudication Rights Dates and Flags Area

Court Report Filing - 00/00/0000  
 Objection Filed Date - 00/00/0000  
 Response Filed Date - 00/00/0000  
 Claim Received Date - 12/18/1989

|                       |   |             |
|-----------------------|---|-------------|
| Field Inspection Made | - | 00/00/00000 |
| Field Inspection Flag | - |             |
| Verified Date         | - | 00/00/00000 |
| Last Amended Date     | - | 00/00/00000 |
| Receipt Number        | - | E011329     |
| POU Ownership Flag    | - | Y           |
| Name Connector        | - |             |

|   |                         |       |
|---|-------------------------|-------|
| - | Civil Case Number       | 39516 |
| - | Old Case Number         |       |
| - | Old Judicial District   |       |
| - | Temporary Right         | P     |
| - | Water District          |       |
| - | Federal/State Indicator | S     |
| - | Presumption Flag        |       |
| - | Notice of Error Flag    |       |

**MICROFILMED**  
Nov 01 1984

Old (D) Number -

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+ - - - - Address - - - - +
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State- ID Zip- 833031768

State- ID Zip- 83201

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+ - - - Status - - - +
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|  | Twn | Rng | Sec | Tract | Lot | Rflg | County | Point of Diversion |
|--|-----|-----|-----|-------|-----|------|--------|--------------------|
|--|-----|-----|-----|-------|-----|------|--------|--------------------|

| Code | Description | Period From | Period To | Water Use | Diversion Rate | Diversion Volume |
|------|-------------|-------------|-----------|-----------|----------------|------------------|
| 1    | Water Use   |             |           |           |                |                  |

|                         |                           |                               |                  |
|-------------------------|---------------------------|-------------------------------|------------------|
| + - Total Div. Rate - + | + - Total Div. Volume - + | + - Total Consumptive Use - + | + - Km Usage - + |
| 3.520                   |                           | 125.0                         |                  |

Total Acres: 50.0

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**NOV 01 1994**

Prefix Translation: RESEARCH

+ - - Other Rights for Same Use - NONE

[illegible]

+ - - - - -  
 No Old Water Right Numbers Found

[illegible]

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

[illegible]

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+ - - Audit Fields - - +
00/00/00

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+ ..... Adjudication Rights Dates and Flags Area ..... +

- Court Report Filing 00/00/0000
- Objection Filed Date 00/00/0000
- Response Filed Date 00/00/0000
- Claim Received Date 12/18/1989

|                       |   |            |                         |   |       |
|-----------------------|---|------------|-------------------------|---|-------|
| Field Inspection Made | - | 00/00/0000 | Civil Case Number       | - | 39576 |
| Field Inspection Flag | - |            | Old Case Number         | - |       |
| Verified Date         | - | 00/00/0000 | Old Judicial District   | - |       |
| Last Amended Date     | - | 08/14/1992 | Temporary Right         | - | P     |
| Receipt Number        | - | E011329    | Water District          | - |       |
| POU Ownership Flag    | - | Y          | Federal/State Indicator | - | S     |
| Name Connector        | - |            | Presumption Flag        | - |       |

- Civil Case Number
- Old Case Number
- Old Judicial District
- Temporary Right
- Water District
- Federal/State Indicator
- Presumption Flag
- Notice of Error Flag

**MICROFILMED**  
NOV 01 1994

POOR ORIGINAL

Jan Minton  
USDA - SCS

7-22-93

201 N. Church  
Salmon, ID 83467

Dear Mrs. Finlayson;

Here are the soils descriptions you asked for - I hope they have what you need. I've also enclosed a soils map the Forest Service provided. If you need any further assistance you can call the office at 756-3211.

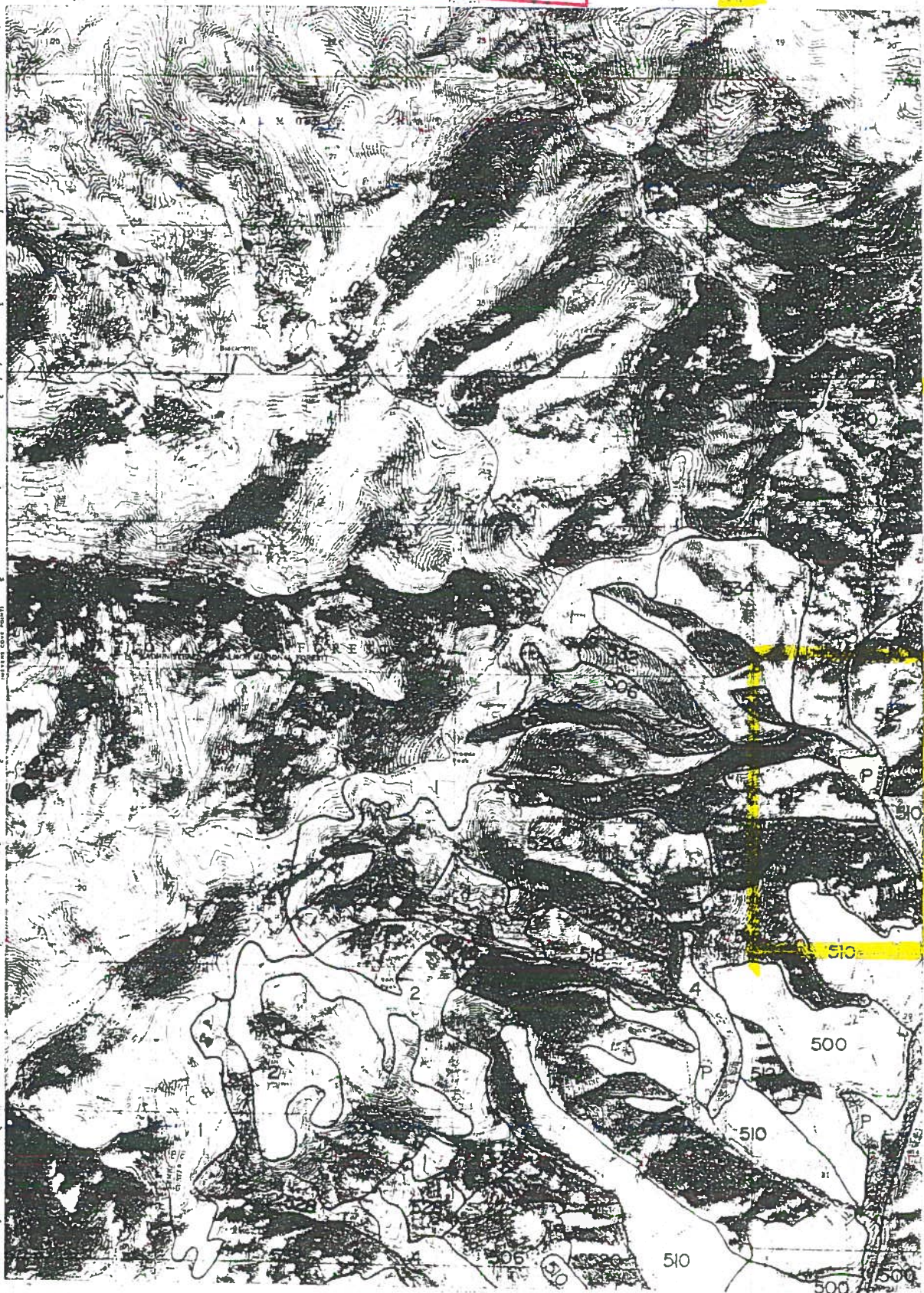
Sincerely,

Jan Minton

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NOV 01 1994

UNITED STATES  
DEPARTMENT OF AGRICULTURE  
FOREST SERVICE  
INTERMOUNTAIN REGION

POOR ORIGINAL



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512 Parkay - Nurkey Taxadjunct - Blowfli complex  
30 to 60 percent slopes.

These very deep, well drained soils are on mountain sideslopes. The soils formed in slope alluvium from extrusive igneous rocks. The main habitat type is Mountain big sagebrush/Idaho fescue on the Parkay component; Mountain big sagebrush/Bluebunch wheatgrass on the Nurkey Taxadjunct component; and Douglas-fir/Pinegrass on the Blowfli component. Elevation is 6800 to 8000 feet. The average annual precipitation is about 14 to 21 inches. The average annual air temperature is about 37 degrees F., and the average frost-free period is 30 to 60 days.

The unit is about 40 percent Parkay, gravelly loam, located on N and E aspects; 30 percent Nurkey Taxadjunct, located on S aspects; and 20 percent Blowfli, located on N aspects within concave positions and toeslopes. The components of this map unit are intricately intermixed making it impracticable to map them separately at the scale of mapping.

Included in this unit is 5 percent Rock Outcrop, located along ridges and shoulder slopes; and 5 percent clayey skeletal soils interspersed throughout the unit, but occurring mainly on convex positions.

Typically, Parkay, gravelly loam, has a surface layer which is dark grayish brown gravelly loam, about 5 inches thick. The upper subsoil layer is dark grayish brown gravelly loam, about 9 inches thick. The lower subsoil is brown and yellowish brown very gravelly clay loam, about 17 inches thick. The next layer is light yellowish brown very gravelly clay loam, about 12 inches thick. The substratum is brownish yellow very gravelly loam, about 17 inches thick.

Permeability of the soil is moderate. Available water holding capacity is high (about 6 to 7 inches). Effective rooting depth is greater than 60 inches. Runoff is moderate to high, and the hazard of water erosion from rainfall is moderate to severe (Hydrologic group B).

Typically, Nurkey Taxadjunct, has a surface layer which is dark grayish brown stony loam, about 4 inches thick. The next layer is brown gravelly loam, about 5 inches thick. The upper subsoil layer is yellowish brown very gravelly clay loam, about 10 inches thick. The lower subsoil is light yellowish brown very gravelly clay loam, about 11 inches thick. The next layer is light yellowish brown very gravelly loam, about 11 inches thick. The substratum is brownish yellow very gravelly loam, about 19 inches thick.

Permeability of the soil is moderately slow. Available water holding capacity is high (about 6 to 7 inches). Effective rooting depth is greater than 60 inches. Runoff is moderate to high, and the hazard of water erosion from rainfall is moderate to severe (Hydrologic group B).

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Typically, Blowfli, gravelly loam, has a upper surface layer which is grayish brown gravelly loam, about 5 inches thick. The lower surface layer is brown very gravelly loam, about 4 inches thick. The upper subsoil is yellowish brown very gravelly sandy clay loam, about 18 inches thick. The lower subsoil layer is yellowish brown and light yellowish brown extremely gravelly sandy clay loam, about 29 inches thick. The next layer is light yellowish brown extremely gravelly sandy clay loam, about 13 inches thick.

Permeability of the soil is moderately slow. Available water holding capacity is high (about 5 to 6 inches). Effective rooting depth is greater than 60 inches. Runoff is moderate to high, and the hazard of water erosion from rainfall is moderate to severe (Hydrologic group B).

This unit is used for domestic grazing by cattle and horses, and for wildlife habitat. This unit has scattered patches of timber which are not feasible to manage for timber production.

The range habitat type on Parkay, gravelly loam, is dominated by Mountain big sagebrush in the shrub layer and Idaho fescue in the graminoid layer. Bluebunch wheatgrass, Sandberg bluegrass and Prairie junegrass are usually present. Arrowleaf balsamroot, phlox, lupine, taperleaf hawksbeard and eriogonum are usually conspicuous members of the forb community. Composition by weight is approximately 50 to 70 percent grass, 10 to 20 percent forbs, and 15 to 30 percent shrubs. Total annual production ranges from 800 to 1500 lbs/acre air dry.

The range habitat type on Nurkey Taxadjunct, is dominated by Mountain big sagebrush in the shrub layer and Bluebunch wheatgrass in the graminoid layer. Idaho fescue, Thurber needlegrass, Prairie junegrass and Sandberg bluegrass are usually present. Arrowleaf balsamroot, lupine, phlox, eriogonum and penstemon are usually conspicuous members of the forb community. Composition by weight is approximately 60 to 80 percent grasses, 10 to 20 percent forbs and 10 to 20 percent shrubs. Total annual production ranges from 800 to 1500 lbs/acre air dry.

The dominant visual aspect on the Blowfli, gravelly loam, is a Douglas-fir forest community with a predominant grass understory. Mountain snowberry and Mountain big sagebrush are common constituents of the shrub layer. Western yarrow, arnica and balsamroot are some conspicuous members of the forb community. The dominant grass is Pinegrass with minor amounts of Idaho fescue and Bluebunch wheatgrass. Plant composition of the understory is 60 to 70 percent grass, 10 to 15 percent forbs and 10 to 20 percent shrubs. Total annual production ranges from 600 to 1400 lbs/acre.

Both of the range sites produce abundant forage when the range is maintained in good to excellent condition. If range condition declines due to livestock grazing, sagebrush, rabbitbrush, and horsebrush increase while the grass understory decreases. In poor condition, the site is dominated by Mountain big sagebrush with a sparse understory of the native species.

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Major improvement of the Mountain big sagebrush types most often includes spray release or prescribed burning treatments. This subspecies has a strong tendency to increase in density and foliage cover compared to other big sagebrush species. The seed is stimulated by burning. To maintain proper densities of associated herbaceous species, a 10 to 20 year cycle of brush removal or thinning is recommended (except for scattered dense stands essential for wildlife).

These sites are not suited for rangeland seeding due to slope.

The high diversity of vegetation and productivity of these sites makes them high use areas for many wildlife species. Succulent grasses and forbs provide high protein feed, especially important during the reproductive cycle. The scattered timber stands throughout this unit provide protective and thermal cover. These sites provide summer and fall habitat for mule deer, elk and antelope. Activity should be limited in these sites when they are associated with key summering areas for elk.

Timber potential is low to moderate with site indexes of 45 +/- 6 based on 50 year height curves. Due to the scattered nature and size of the timber stands, along with their importance to wildlife, makes these stands of low priority for timber management. Slopes within these units are also restrictive for management. Most of the timber which is removed occurs along corridors accessing larger acreages of timber outside of these units.

MICROFILMED  
NOV 01 1994

518 Blowfli - Lemco - Zeebar complex  
10 to 45 percent slopes

These very deep, well drained soils are on mountain sideslopes. The soils formed in slope alluvium derived dominantly from extrusive igneous rocks. The main habitat type is Douglas-fir/Pinegrass on the Blowfli and Lemco components; and Mountain big sagebrush/Idaho fescue on the Zeebar component. Elevation is 6600 to 8200 feet. The average annual precipitation is 16 to 23 inches. The average annual air temperature is about 36 degrees F., and the average frost-free period is about 10 to 60 days.

The unit is about 40 percent Blowfli, gravely loam, located on N and E facing aspects; 20 percent Lemco, gravely loam, located on N and E facing aspects which are more gentle sloping; and 15 percent Zeebar, gravely loam, located on S and W facing slopes. The components of this map unit are intricately intermingled making it impractical to map them separately at the scale of mapping.

Included in this unit is 5 percent fine-loamy, mixed Mollic Cryoboralfs, interspersed throughout the timberland component; 5 percent Koffgo, high precipitation, located along ridges on N aspects and toeslopes in V-shaped drainages having an overstory of Subalpine fir; 5 percent Lag soils located on the steeper N and E facing aspects; 5 percent Rock Outcrop, located along ridges and shoulder slopes; and 5 percent clayey-skeletal, montmorillonitic Argic Cryoborolls, interspersed throughout the rangeland component.

Typically, Blowfli, gravely loam, has a upper surface layer which is grayish brown gravely loam, about 5 inches thick. The lower surface layer is brown very gravely loam, about 4 inches thick. The upper subsoil is yellowish brown very gravely sandy clay loam, about 18 inches thick. The lower subsoil is yellowish brown and light yellowish brown extremely gravely sandy clay loam, about 29 inches thick. The next layer is light yellowish brown extremely gravely sandy clay loam, about 13 inches thick.

Permeability of the soil is moderately slow. Available water holding capacity is high (about 5 to 6 inches). Effective rooting depth is greater than 60 inches. Runoff is moderately low to moderate, and the hazard of water erosion from rainfall is low to moderate (Hydrologic group B).

Typically, Lemco, gravely loam, has a upper surface layer which is gray gravely loam, about 3 inches thick. The lower surface layer is grayish brown and yellowish brown gravely loam, about 10 inches thick. the upper subsoil is pale brown and light brown very gravely clay loam, about 15 inches thick. The lower subsoil is reddish yellow and light yellowish brown extremely and very gravely clay loam, about 32 inches thick.

MICROFILMED

NOV 01 1987

Permeability of the soil is moderate in the surface layers and slow in the subsoil layers. Available water holding capacity is high (about 6 to 7 inches). Effective rooting depth is greater than 60 inches. Runoff is moderately low to moderate, and the hazard of water erosion from rainfall is moderate (Hydrologic group B/C).

Typically, Zeebar, gravelly loam, has a surface layer which is dark grayish brown gravelly loam, about 11 inches thick. The upper subsoil is brown very gravelly sandy clay loam, about 4 inches thick. The next subsoil layers are light brownish gray and pale brown very gravelly clay loam, about 17 inches thick. The lower subsoil is grayish brown very gravelly sandy clay loam, about 28 inches thick.

Permeability of the soil is moderately slow. Available water holding capacity is high (about 5 to 6 inches). Effective rooting depth is greater than 60 inches. Runoff is moderately low to moderate, and the hazard of water erosion from rainfall is low to moderate (Hydrologic group B).

This unit is used for timber production and wildlife habitat. Some domestic livestock grazing, by cattle and horses, is also provided on this unit.

The dominant visual aspect of the Blowfli and Lemco components is a Douglas-fir forest community with a predominant grass understory. Mountain snowberry and Mountain big sagebrush are common constituents of the shrub layer. Western yarrow, pusseytoes, arnica and balsamroot are some conspicuous members of the forb community. The dominant grass is Pinegrass with minor amounts of Idaho fescue and Bluebunch wheatgrass. Plant composition of the understory is 60 to 70 percent grass, 10 to 15 percent forbs and 10 to 20 percent shrubs. Total annual production ranges from 600 to 1400 lbs/acre air dry.

The range habitat type on the Zeebar, gravelly loam, is dominated by Mountain big sagebrush in the shrub layer and Idaho fescue in the graminoid layer. Bluebunch wheatgrass, Sandberg bluegrass and Prairie junegrass are usually present. Arrowleaf balsmroot, phlox, lupine, taperleaf hawksbeard and eriogonum are usually conspicuous members of the forb community. Composition by weight is approximately 50 to 70 percent grass, 10 to 20 percent forbs, and 15 to 30 percent shrubs. Total annual production ranges from 800 to 1500 lbs/acre air dry.

Timber potential on the Blowfli and Lemco sites is low to moderate with site indexes of 45 +/- 6 based on 50 year height curves. Regeneration of Douglas-fir may be sporadic and timber harvests should be guided by the patterns and frequency of regeneration observed in the stand. On these sites, plant competition is moderate to severe, based on the soils water holding capacity and the aggressiveness of the Pinegrass. To establish conifers, the sod often requires special treatment. These sites have a moderate seedling mortality, due to the medium-fine textures found within the upper 20 inches of these soils which can cause root damage thru shrink-swell.

MICROFILMED  
NOV 01 1994

These soils have a moderately low to moderate erosion hazard. The presence of medium-fine subsoils, with subsequent moderately slow to slow permeability, induces overland flow. The upper slope ranges of this unit further accelerates the erosion potential on exposed soil. Erosion control measures are needed on site disturbing activities.

Windthrow problems need to be considered on these sites, due to the depth to the medium-fine subsoil textures (may inhibit root penetration). Cutting intensities and sale layout needs to be considered in order to reduce the risk of windthrow.

These soils are susceptible to compaction and puddling. The presence of medium-fine textures within the upper layers of the these soils and the moderately slow/slow permeability classes (indicate that these soils are wet for a period of time) gives evidence to these soils susceptibility to being altered, if worked at the wrong soil moisture content. If compacted, these soils will be more susceptible to erosion and will result in a loss of productivity and regeneration success.

These soils have a moderate equipment limitation, based on textures within the upper layers, soil permeability classes (wetness), and on slopes >25 percent. Soil moisture levels need to be monitored so as not to detrimentally alter this soil.

Roads constructed on these soils need to be evaluated as to surfacing requirements and potential mass stability concerns (subsoil textures). The hazard of cut and fill slope mass instability is moderate, due to the subsoil textures and interception potential of cut slopes; moderately low to moderate cut and fill slope revegetation potential; and moderate to severe surface erosion hazard on fresh cut and fill slopes; and on the actual roadbeds, due to textures of the exposed materials.

Deer and elk use these sites extensively during summer months. The timber sites provide cover and bedding sites; while the intermixed range sites provide forage and some browse. Activity should be limited in these types when they are associated with key summering areas for elk.

The Zeebar site produces abundant forage when range condition is maintained in good to excellent condition. If range condition declines due to livestock grazing, sagebrush, rabbitbrush and horsebrush increase while the grass understory decreases. In poor condition, the site is dominated by Mountain big sagebrush with a sparse understory of the native species.

Competition from Mountain big sagebrush can be severe unless it is adequately controlled. Major improvement of the Mountain big sagebrush type most often includes spray release or prescribed burning. The Mountain big sagebrush type has potential for rangeland seeding. The main limitation for seeding is the short frost-free period. Several varieties of wheatgrass, brome and bluegrass, along with dryland alfalfa are some of the species that may be seeded. Ecotypes of Antelope bitterbrush indigenous to volcanic parent material may also be seeded.

MICROFILMED  
NOV 01 1994

520 Blowfli - Zeebar complex  
45 to 60 percent slopes

These very deep, well drained soils are on mountain sideslopes. The soils formed in slope alluvium derived dominantly from extrusive igneous rocks. The main habitat type is Douglas-fir/Pinegrass on the Blowfli component; and Mountain big sagebrush/Idaho fescue on the Zeebar component. Elevation is 6600 to 8800 feet. The average annual precipitation is 16 to 23 inches. The average annual air temperature is about 36 degrees F., and the average frost-free period is about 10 to 60 days.

The unit is about 40 percent Blowfli, gravelly loam, located on N and E facing aspects; and 30 percent Zeebar, gravelly loam, located on S and W facing aspects.

Included in this unit is 5 percent Koffgo, high precipitation, located along ridges on N aspects and toeslopes in V-shaped drainages having an overstory of Subalpine fir; 5 percent Lag soils, interspersed within the timbered component of this unit; 5 percent fine-loamy, mixed Mollic Cryobaralfs, interspersed within the timbered component of this unit; 5 percent Rock Outcrop, located along ridges and shoulder slopes; 5 percent Parkay, gravelly loam, located on toeslopes and concave positions on S and W facing aspects; and 5 percent clayey-skeletal, montmorillonitic Argic Cryoborolls, interspersed within the rangeland component.

Typically, Blowfli, gravelly loam, has a upper surface layer which is grayish brown gravelly loam, about 5 inches thick. The lower surface layer is brown very gravelly loam, about 4 inches thick. The upper subsoil is yellowish brown very gravelly sandy clay loam, about 18 inches thick. The lower subsoil is yellowish brown and light yellowish brown extremely gravelly sandy clay loam, about 29 inches thick. The next layer is light yellowish brown extremely gravelly sandy clay loam, about 13 inches thick.

Permeability of the soil is moderately slow. Available water holding capacity is high (about 5 to 6 inches). Effective rooting depth is greater than 60 inches. Runoff is moderate to high, and the hazard of water erosion from rainfall is moderate to severe (Hydrologic group B).

Typically, Zeebar, gravelly loam, has a surface layer which is dark grayish brown gravelly loam, about 11 inches thick. The upper subsoil is brown very gravelly sandy clay loam, about 4 inches thick. The next subsoil layers are light brownish gray and pale brown very gravelly clay loam, about 17 inches thick. The lower subsoil is grayish brown very gravelly sandy clay loam, about 28 inches thick.

MICROFILMED  
NO. 11 1 1964

Permeability of the soil is moderately slow. Available water holding capacity is high (about 5 to 6 inches). Effective rooting depth is greater than 60 inches. Runoff is moderate to high, and the hazard of water erosion from rainfall is moderate to severe (Hydrologic group B).

This unit is used predominantly for wildlife habitat and watershed. Grazing and timber production are minor uses on this unit.

The dominant visual aspect of the Blowfli component is a Douglas-fir forest community with a predominant grass understory. Mountain snowberry and Mountain big sagebrush are common constituents of the shrub layer. Western yarrow, pusseytoes, arnica and balsamroot are some conspicuous members of the forb community. The dominant grass is Pinegrass with minor amounts of Idaho fescue and Bluebunch wheatgrass. Plant composition of the understory is 60 to 70 percent grass, 10 to 15 percent forbs and 10 to 20 percent shrubs. Total annual production ranges from 600 to 1400 lbs/acre air dry.

The range habitat type on the Zeebar, gravely loam, is dominated by Mountain big sagebrush in the shrub layer and Idaho fescue in the graminoid layer. Bluebunch wheatgrass, Sandberg bluegrass and Prairie junegrass are usually present. Arrowleaf balsamroot, phlox, lupine, taperleaf hawksbeard and eriogonum are usually conspicuous members of the forb community. Composition by weight is approximately 50 to 70 percent grass, 10 to 20 percent forbs, and 15 to 30 percent shrubs. Total annual production ranges from 800 to 1500 lbs/acre air dry.

Deer and elk use these sites extensively during summer months. The timber sites provide cover and bedding sites; while the intermixed range sites provide forage and some browse. Activity should be limited in these types when they are associated with key summering areas for elk.

Timber potential on the Blowfli component is low to moderate with site indexes of 45 +/- 6 based on 50 year height curves. Regeneration of Douglas-fir may be sporadic and timber harvests should be guided by the patterns and frequency of regeneration observed in the stand. On this soil, plant competition is moderate to severe, based on the soils water holding capacity and the aggressiveness of the Pinegrass. To establish conifers, the sod often requires special treatment. This site has a moderate seedling mortality, due to the medium-fine textures found within the upper 20 inches which could cause root damage thru shrink-swell.

This soil has a moderate to severe erosion hazard on exposed sites. The presence of medium-fine textured subsoils, with subsequent moderately slow permeability, induces overland flow. The slope ranges of this unit further accelerates the erosion potential. Erosion control measures are needed for earth disturbing activities.

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Windthrow problems need to be a considered on this site, due to the amount of coarse fragments and medium-fine textures within the subsoil layers. Cutting intensities and sale layout needs to be considered in order to reduce the risk of windthrow.

This soil is moderately susceptible to compaction, based on texture and soil drainage class. This soil is susceptible to being altered, if worked at the wrong soil moisture content. If compacted, this soil will be more susceptible to erosion and will result in a loss of productivity and regeneration success.

This soil has a severe equipment limitation, based on slope.

Roads constructed on this soil need to be closely evaluated for mass stability concerns. The hazard of cut and fill slope mass instability is moderate to severe, based on subsoil textures and interception potential of cut slopes; moderately low to moderate cut and fill slope revegetation; moderate to severe surface erosion hazard on fresh cut and fill slopes; and on the actual roadbeds, due to slope and the textures of the exposed material.

The Zeebar site produces abundant forage when range condition is maintained in good to excellent condition. Due to the slope range of this unit, it is predominantly secondary range. Major improvement on this site usually involves control of the Mountain big sagebrush thru spray release or burning. This site is not suitable to rangeland seeding due to slope.

MICROFILMED  
NOV 01 1984

532 Koffgo high precipitation gravelly loams  
45 to 60 percent slopes

This very deep, well drained soil is on mountain sideslopes. The soil formed in slope alluvium weathered from extrusive igneous rocks. The main habitat type is Subalpine fir/Pinegrass. Elevation is 7200 to 9000 feet. The average annual precipitation is 23 to 26 inches. The average annual air temperature is about 36 degrees F., and the average frost-free period is 10 to 50 days.

Included in this unit is 10 percent Rock Outcrop, located on ridges and shoulder slopes; 5 percent Lag soils, intermixed throughout the unit; and 10 percent similar soils to Koffgo high ppt. having a stony surface intermixed throughout the unit.

Typically, Koffgo, gravelly loam, has a surface layer which is light brownish gray stony loam, about 8 inches thick. The subsoil is light brownish gray very gravelly sandy loam, about 9 inches thick. The next layer is light gray extremely gravelly sandy loam, about 7 inches thick. The substratum is light gray extremely gravelly sandy loam, about 40 inches thick.

Permeability of the soil is moderate within the surface layer and moderately rapid within the subsoil and substratum layers. Available water holding capacity is low to medium (about 3.5 to 4.5 inches). Effective rooting depth is greater than 60 inches. Runoff is moderate; and the hazard of water erosion from rainfall is moderate (Hydrologic group B).

This unit is used predominantly for wildlife habitat and watershed. Timber production is a minor use on this unit.

Deer and elk use this site extensively during the summer months. The timber site provides cover and bedding sites. It is usually positioned near forage found in nearby shrublands. Activity should be limited on this site when it is associated with key summering areas for elk.

Timber potential on this site is low to moderate. If present, Lodgepole pine is the most dependable species for timber management and should regenerate in clearings that have ample sunlight. Attempts to establish other conifers is risky. On this site, regeneration of Douglas-fir may be sporadic and timber harvest should be guided by the patterns and frequency of regeneration observed in the stand. Plant competition is moderate to severe, based on the soils water holding capacity and the aggressiveness of the Pinegrass. To establish conifers, the sod often requires special treatment. If the overstory is removed, the Pinegrass may increase rapidly and retard seedling establishment. This soil has a moderate seedling mortality, based on the soil drainage class (subsoil and substratum) and temperature regime.

This soil has a moderate erosion hazard. Erosion control measures are needed for site disturbing activities.

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MAY 11 1984

Windthrow problems may exist, due to the high percentage of coarse fragments within the subsoil and substratum layers. Steep slopes on this unit may further accentuate the windthrow concern. Within areas of this unit where wind-blown trees are observed, cutting intensities need to be closely monitored to prevent subsequent windthrow problems.

This soil has a severe equipment limitation due to slope and the presence of surface stones (within areas). Roads constructed on this soil have good trafficability; moderate erosion hazard of cut and fill slope mass instability; low to moderately low cut and fill slope revegetation potential; and a moderate to high surface erosion hazard on fresh cut and fill slopes, and on the actual roadbeds.

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