

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: A72-04177
Date Received: 12/ 7/1989
Receipt No: M005338
Received By: _____

AMENDED

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

AMENDED

1. Name: DONNA L. HUGHES 208-879-2365
Address: HC 61 BOX 3054
CHALLIS ID 83226
OR
Name: DELBERT M. HUGHES 208-879-2365
Address: HC 61 BOX 3054
CHALLIS ID 83226
2. Date of Priority: MAY 1, 1878
3. Source: MORGAN CREEK Trib. to: SALMON RIVER
4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
15N	19E	23		SW	NE		CUSTER
5. Description of diverting works:
HEADGATE, DITCH
6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/15	10/15	4.000		
STOCKWATER	10/15	04/15	1.200		
7. Total Quantity Appropriated is:
5.200 C.F.S. (and/or) A.F.A.
8. Total consumptive use is 202.5 Acre Feet Per Annum.
9. Non-irrigation uses:
S/300 RANGE

MICROFILMED

MAR 18 1993

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
15N	19E	24	NW	NE		IRR	14.0
			SW	NE		IRR	6.0
			NE	NW		IRR	18.0
			SE	NW		IRR	28.0
			NE	SW		IRR	15.0

Section Acres 81.0

Total Acres 81.0

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:

A72-00147, A72-00148, A72-04028, A72-04029.

14. Remarks:

CHANGE IN PERIOD OF USE DUE TO ERROR AT TIME OF FILING.

15. Basis of Claim: STATUTORY CLAIM

16. Signature(s)

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

Number of attachments: _____

For Individuals:

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

Signature of Claimant(s): Robert M. Hughes Date: 4/29/92

Date: _____

MICROFILMED

MAR 18 1993

State of Idaho)
County of Twin Falls) SS.

Subscribed and sworn (or affirmed) before me this 29th day
of April 19 92

[Signature]
Notary Public

Seal

Residing at Kilkenny, ID

My Commission Expires 6/30/92

MICROFILMED

MAR 18 1993

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

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

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Date Received: 12/07/1989
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ACQUIRED UNDER STATE LAW

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OR
Name: DELBERT M. HUGHES 208-879-2365
Address: HC 61 BOX 3054
CHALLIS, ID 83226

2. Date of Priority: MAY 01, 1878

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4. Point of Diversion:

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

5. Description of diverting works:
HEADGATE, DITCH

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	05/01	09/01	4.000		
STOCKWATER	09/01	05/01	1.200		

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

8. Total consumptive use is 202.5 Acre Feet Per Annum.

9. Non-irrigation uses:
S/300 RANGE

10. Place of Use:

Township	Range	Section	1/4	of	1/4	Lot	Use	Acres
15N	19E	24	NW		NE		IRR	14.0
			SW		NE		IRR	6.0
			NE		NW		IRR	18.0
			SE		NW		IRR	28.0
			NE		SW		IRR	15.0
							Section Acres	81.0
							Total Acres	81.0

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:
A72-00147, A72-00148, A72-04028, A72-04029.

14. Remarks:
CHANGE IN PERIOD OF USE DUE TO ERROR AT TIME OF FILING.

15. Basis of Claim: STATUTORY CLAIM

16. Signature(s)

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

Number of attachments: _____

For Individuals:

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

Signature of Claimant(s): Robert M. Hughes Date: Dec 7, 1989

Date: _____

State of Idaho)
County of Custer) SS.

Subscribed and sworn (or affirmed) before me this 7th day
of December 19 89 Shirley C. Call
Notary Public

Seal

Residing at Twin Falls, Idaho

My Commission Expires December 7, 1994

UNITED STATES DEPARTMENT of AGRICULTURE

SOIL CONSERVATION SERVICE

cooperating with
CUSTER

OWNER *Ivan Hughes*
OPERATOR *Delbert Hughes*
Custer

Idaho

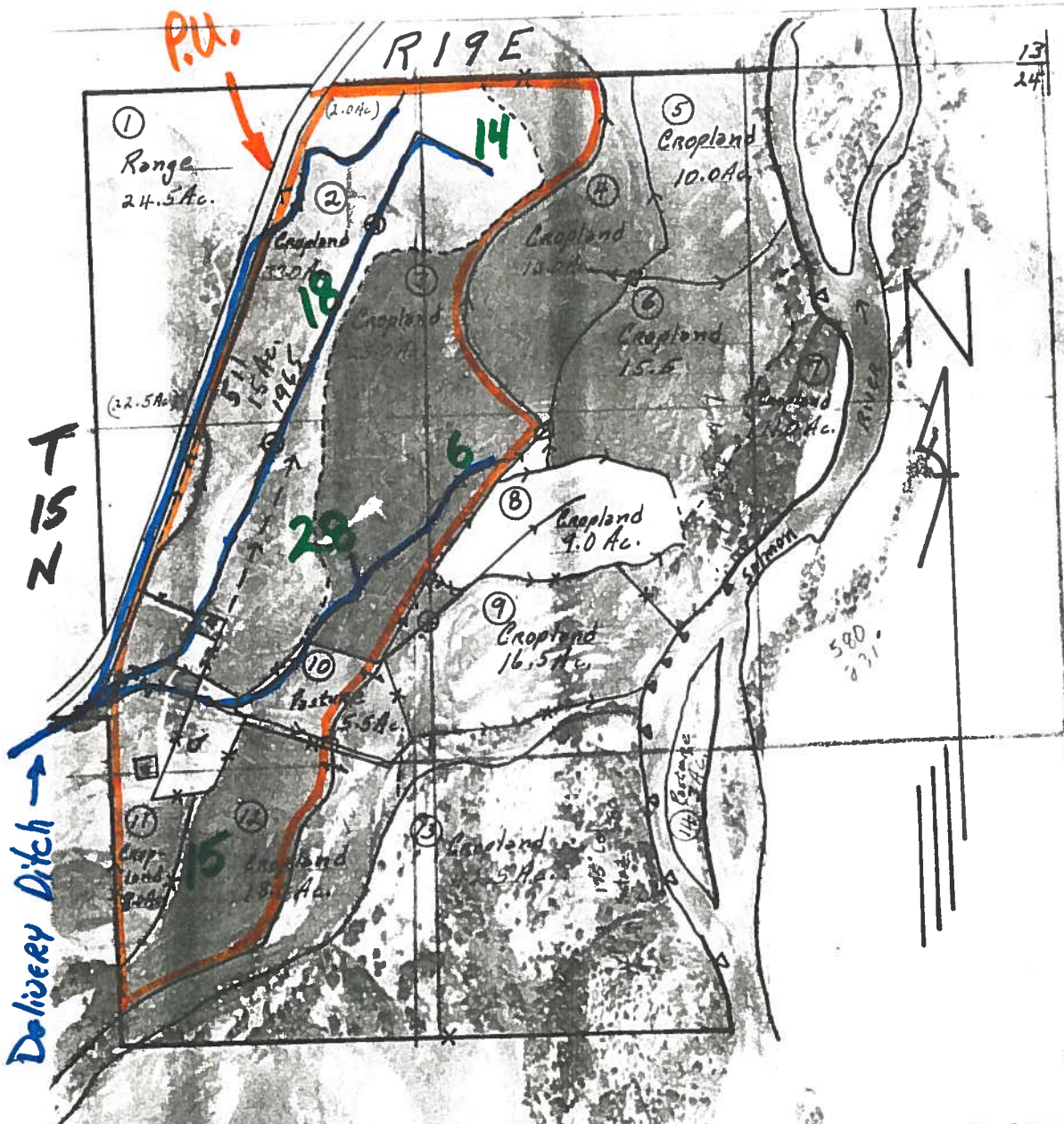
FARM NO. 161

DATE 11/62

SCALE 8" to 1 mi ACRES 238

PHOTO NO. CVQ-19W-84

NADA-259 PORTLAND, OREGON 100



A72-04177

MICROFILMED

MAR 18 1993

MEMO TO FILE

MEMO TO A72-04028

DECEMBER 11, 1989

A72-04029

A72-04030

A72-04177

CC: DELBERT HUGHES

RE: AFFIDAVITS

I FOUND THE DOCUMENTS FOR THESE CLAIMS IN THE MICROFICHE FILES AT SOUTHERN REGION. COPIES HAVE BEEN MADE AND ATTACHED TO THE CLAIMS FILED IN THE ADJUDICATION. COPIES ALSO SENT TO MR. HUGHES FOR HIS RECORDS.

A72-04177 DID NOT HAVE AFFIDAVITS ON RECORD IN THE FILES; NO ATTACHMENTS MADE TO FILE.

STEVE CLELLAND

MICROFILME
MAR 18 1993



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

CECIL D. ANDRUS
Governor

March 2, 1992

R. KEITH HIGGINSON
Director

A72-04177
DONNA L. HUGHES
DELBERT M. HUGHES
HC 61 BOX 3054
CHALLIS

ID 83226

RE: Evidence of Priority

RESPONSE DEADLINE
MAY 1, 1992

Dear Claimant:

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

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

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

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

Respectfully submitted,

Allen Merritt, P.E.
Water Rights Supervisor

Enclosures

MICROFILMED
MAR 18 1993

AFFIDAVIT

RE: Idaho Department of Water Resources Adjudication Claims

Water Rights No: A72-04177

Current Owner: Delbert M. and Donna L. Hughes

Priority Date: Source: Morgan Creek

Land Description:

Twn	Rng	Sec	Tract	Lot	Rflg	County
15N	19E	23	SW NE			(37) Custer

Previous Owners: Eric Burstedt, and Ivan Hughes

I, Carl Jones being first duly sworn, upon oath, depose and say

1. That I am a resident of Custer County, Idaho and have resided here since 1916.

2. That I have personal knowledge of the location and irrigation patterns on the above described high water rights which have been used on the above described land on Hwy. 93, approximately eight miles north of Challis, Idaho, in Custer County and presently owned by the applicant, and has been used for since 1928

3. That this ranch has been under irrigation for the purpose of raising hay, grain and pasture for livestock for as long as I can remember.

4. That water has been obtained from Morgan Creek and still is to date.

5. That this is for a high water right and is using the same point of diversion as the decreed water right.

Carl Jones
Subscribed and sworn to before me this 5th day of

November 1992

Harold Smith

MICROFILMED

MAY 18 1993

AFFIDAVIT

RE: Idaho Department of Water Resources Adjudication Claims

Water Rights No: A72-04177

Current Owner: Delbert M. and Donna L. Hughes

Priority Date: Source: Morgan Creek

Land Description:

Tw	Rng	Sec	Tract	Lot	Rflg	County
15N	19E	23	SW NE			(37) Custer

Previous Owners: Eric Burstedt, and Ivan Hughes

I, FRANK B. BURSTEDT being first duly sworn, upon oath, depose and say

1. That I am a resident of Custer County, Idaho and have resided here since 4-26-1915.

2. That I have personal knowledge of the location and irrigation patterns on the above described high water rights which have been used on the above described land on Hwy. 93, approximately eight miles north of Challis, Idaho, in Custer County and presently owned by the applicant,

Delbert M. Hughes.

3. That this ranch has been under irrigation for the purpose of raising hay, grain and pasture for livestock for as long as I can remember.

4. That water has been obtained from Morgan Creek and still is to date.

5. That this is for a high water right and is using the same point of diversion as the decreed water right.

Frank Burstedt

Subscribed and sworn to before me this 28th day of

April 1992.

Sharon Samuelsen

MICROFILMED

MAR 18 1993

AFFIDAVIT

RE: Idaho Department of Water Resources Adjudication Claims

Water Rights No: A72-04177

Current Owner: Delbert M. and Donna L. Hughes

Priority Date: Source: Morgan Creek

Land Description:

Twn	Rng	Sec	Tract	Lot	Rflg	County
15N	19E	23	SW NE			(37) Custer

Previous Owners: Eric Burstedt, and Ivan Hughes

I, Ralph W Hutchison being first duly sworn, upon oath, depose and say

1. That I am a resident of Custer County, Idaho and have resided here since year 1926.

2. That I have personal knowledge of the location and irrigation patterns on the above described high water rights which have been used on the above described land on Hwy. 93, approximately eight miles north of Challis, Idaho, in Custer County and presently owned by the applicant,

Delbert Hughes.

3. That this ranch has been under irrigation for the purpose of raising hay, grain and pasture for livestock for as long as I can remember.

4. That water has been obtained from Morgan Creek and still is to date.

5. That this is for a high water right and is using the same point of diversion as the decreed water right.

Ralph W Hutchison

Subscribed and sworn to before me this 28th day of

April 1992. Sharon Samelson

MICROFILMED

MAR 18 1993

I have witnessed these of high water on this property since moving here in the year 1926.

Ralph W Hutchison

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

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Ident. Number: **A72-04177**
Date Received: 12/ 7/1989
Receipt No: M005338
Received By: _____

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AMENDED

1. Name: DELBERT M. HUGHES 208-879-2365
Address: HC 61 BOX 3054
CHALLIS ID 83226
OR
Name: DONNA L. HUGHES 208-879-2365
Address: HC 61 BOX 3054
CHALLIS ID 83226
2. Date of Priority: MAY 1, 1878
3. Source: MORGAN CREEK Trib. to: SALMON RIVER
4. Point of Diversion:
- | Township | Range | Section | 1/4 of | 1/4 of | 1/4 | Lot | County |
|----------|-------|---------|--------|--------|-----|-----|--------|
| 15N | 19E | 23 | SW | NE | | | CUSTER |
| | | 25 | NW | NW | | | |
5. Description of diverting works:
HEADGATE, DITCH
6. Water is used for the following purposes:
- | Purpose | From | To | C.F.S. | (or) | A.F.A. |
|------------|-------|-------|--------|------|--------|
| IRRIGATION | 04/15 | 10/15 | 4.000 | | |
| STOCKWATER | 10/15 | 04/15 | 1.200 | | |
7. Total Quantity Appropriated is:
5.200 C.F.S. (and/or) A.F.A.
8. Total consumptive use is 202.5 Acre Feet Per Annum.
9. Non-irrigation uses:
S/300 RANGE

MICROFILMED
NOV 01 1994

10. Place of Use:

Township 15N Range 19E Section 24

NE NE
1/4 of 1/4 Lot
NW NE
SW NE
NE NW
SE NW
NE SW
SE NE

Use
IRR
IRR
IRR
IRR
IRR
IRR

5

Acres
40
14.0
36.0
25 18.0
32 28.0
27 15.0

DA

Section Acres

6
81.0
171

Total Acres

81.0
171

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:

A72-00147, A72-00148, A72-04028, A72-04029.

14. Remarks:

CHANGE IN PERIOD OF USE DUE TO ERROR AT TIME OF FILING.

15. Basis of Claim: STATUTORY CLAIM

16. Signature(s)

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

Number of attachments: _____

For Individuals:

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

Signature of Claimant(s):

Albert M. Hughes

Date:

11/22/93

Date:

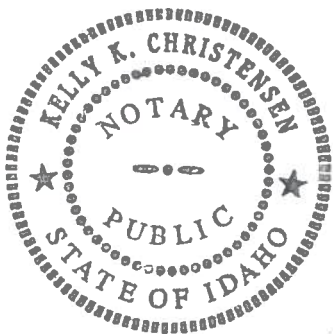
MICROFILMED
NOV 01 1994

State of Idaho)
County of Custer) SS.

Subscribed and sworn (or affirmed) before me this 22nd day
of Nov 19 93

Kelly K. Christensen
Notary Public

Seal



Residing at Kimberly, Id
My Commission Expires 3-2-98

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

18-Oct-1993

DELBERT HUGHES
HC 61 BOX 3045
CHALLIS ID 83226

RE: SYSTEM ANALYSIS FOR ADJUDICATION CLAIMS FILED ON PROPERTY
AT MOUTH OF MORGAN CREEK.

Dear Mr Hughes

The following is the information determined from my field
verification of your claims.

DITCH MEASUREMENTS

Morgan Creek (on Savage property)	7.14 cfs (MEASURED)
Morgan Creek (at Santee ditch crossing) not measured at this point.	capacity considered close to Salmon River measurement.
Salmon River theoretical based upon an additional 6" depth =	8.04 cfs (MEASURED) 11.91 cfs (THEORETICAL)
Pump diversion from Santee ditch theoretical	1.43 cfs (THEORETICAL)

ACREAGE DETERMINATION

Total acres above Santee ditch being irrigated with M Cr water.	<u>75</u> acres
Total acres below Santee ditch being irrigated with M Cr water.	<u>76</u> acres
Total acres being irrigated with waste water	19 acres

MICROFILMED
NOV 01 1994

HUGHES
PAGE 2
18-Oct-1993

MORGAN CREEK SYSTEM

Soils and irrigation analysis indicate that 13.23 cfs of Morgan Creek water would be required to irrigate the 151 found acres.

SALMON RIVER SYSTEM

System analysis indicates a 1.43 cfs capacity for the 75 acres under the pump system and 9.21 cfs requirement for the 76 acres below the Santee ditch being irrigated with Salmon River water. This gives a total of 10.64 cfs that could be recognized.

WASTE WATER SYSTEM

System analysis of the 19 acres irrigated with waste water resulted in a required diversion rate of 1.31 cfs.

Based upon currently available information the above rates and acres reflect the basis for my potential recommendation of your claims. As you indicated that you wished to claim 'high' water or excessive flow for all three systems and some of your current claims do not reflect your indications or my analysis, I have enclosed copies of;

A72-04028 - source, Salmon River for 96 acres @ 3.84 cfs
A72-04177 - source, Morgan Creek for 81 acres @ 4.00 cfs.

Please cross out any information you wish to change and then enter your corrections by that location. Please initial each change to indicate that you were the individual that made the changes. The corrected claim form needs to be notarized when you sign it before I am allowed to change your claim. As these are your claims please change them only according to your wishes, not necessarily as I have analyzed your system.

I realize that this letter is extremely brief and does not address many aspects of your claims so please call me if you want to discuss anything relating to the claims.

MICROFILMED
NOV 01 1994

HUGHES
PAGE 3
18-Oct-1993

CLAM SUMMARY AS THEY EXIST AS OF THIS DATE

Morgan Creek	A72-00147	-	⁵ ~~171~~	acres @ 1.60 cfs
	A72-00148	-	~~171~~	acres @ 0.40 cfs
	→ A72-04177	-	~~81~~ [*]	acres @ 4.00 cfs
	Total	-	~~171~~ ¹⁵¹	acres @ 6.00 cfs*
Salmon River	A72-04028	-	96	acres @ 3.84 cfs*
	A72-04029	-	80	acres @ 1.60 cfs
Waste Water	A72-04030	-	43	acres @ 1.72 cfs

* Indicates acres or rates that are lower than found or calculated.

Your property is the first analyzed on Morgan Creek so no other users have been contacted as of this date. I hope to make one more trip to the Challis area this fall and if so I will try to contact you to discuss your claims if necessary.

Sincerely



Kelly K. Christensen
Sr. Water Resource Agent

enclosures

MICROFILMED

NOV 01 1994

CONVERSATION MEMORANDUM

EMPLOYEE: STEVE CLELLAND

FILE

72
A36-4177RE: Review of AJ CLAIMSDATE 11-9-92

NAME OF PARTY

DELBERT & DONNA HUGHES

(@ SOUTHERN OFFICE)

Came in to drop off affidavits of priorities for High Water Rights. He made a correction to the item #4 on the Van Horn Creek WR since it incorrectly described Morgan Creek.

We discussed the process up to develop. I explained the field exam and he asked to be contacted for the examination. They are rebuilding some lands that have been neglected over the past and adding sprinklers to ~~and~~ replace the old existing ditch systems.

I mentioned the challenges we encounter in Hagerman and gave him a copy of the additional flow rate questionnaire for Hubble analysis. I told him to gather and submit this and other information now to support his claims.

Other items discussed included why they are having to redo existing old decree rights? (A: Not all parties were joined in that lawsuit) We discussed the ~~events~~ leading up to this SRBA. I described the Swan Falls Story briefly.

72
See Also WR: A36-10243 72 A36-10276

Morgan Creek Cattle

A72-0163 90

0164 50

-04184 50

A72-10243 50

S/O Delbert
Hughes
HC 61 Br 305
Challis

879-2365

or Donna L.

~~A72-0147~~
~~0148~~

SR

A72-4177

A72-4028

A72-4029

207 33

A72-00147
148

~~4030~~

A72-04030

A72-10264

D/I 5/1/1878

A72-1026
A72-1026

D/I 5/300 calves

5/1/1951

Apple/Penn
#65

D. M.
DONNA L.

CONSERVATION PLAN MAP

UNITED STATES DEPARTMENT of AGRICULTURE SOIL CONSERVATION SERVICE

cooperating with
CUSTER

Prepared

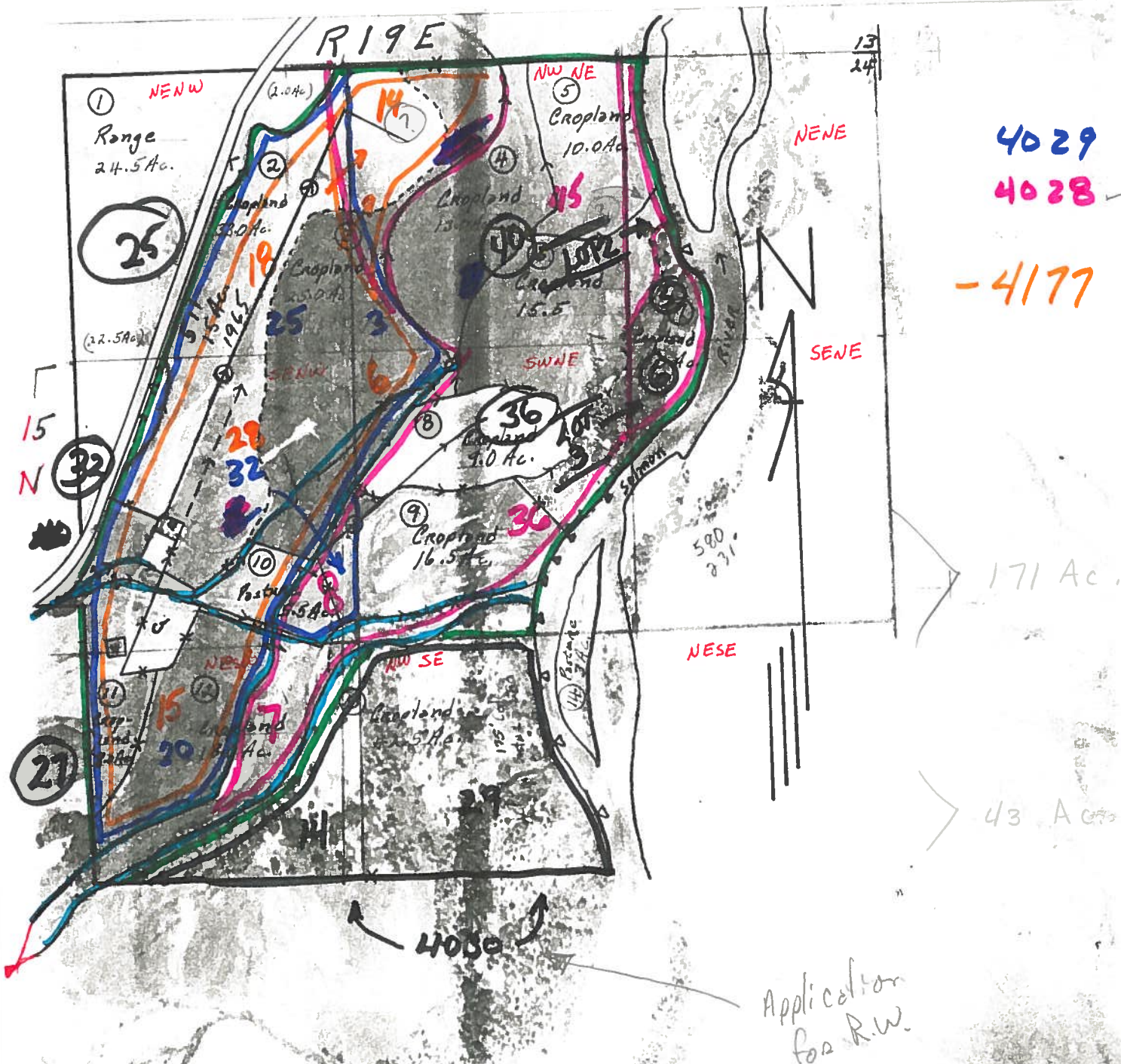
OWNER *Ivan Hughes*
OPERATOR *Delbert Hughes*
Custer

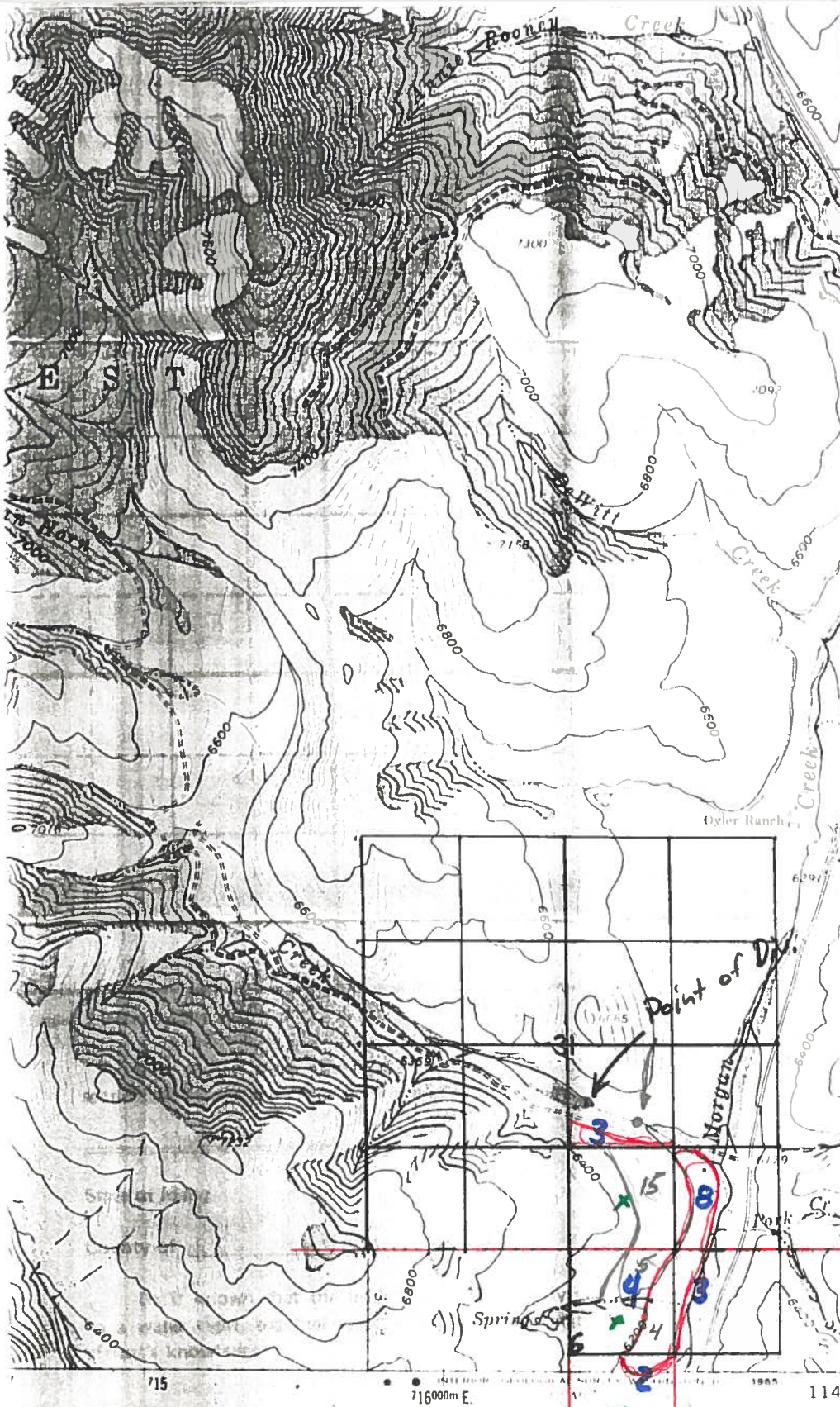
Idaho

FARM NO. 161 DATE: 11/62

SCALE 8" = 1 mi ACRES 238

PHOTO NO. CVQ-19W-84





47°30'

4963

4962

4961

4960

4959000m N

44°45'

114°15'

Claims A72-00163
-00164
-04184
-10243

Morgan Creek
Cattle Assn

12-7-89

R

ROAD CLASSIFICATION

Light duty

Unimproved dirt



BLACK MTN., IDAHO
N4445—W11415/7.5

1963

7-6

7-74

MEMO TO FILE

MEMO TO A72-10276 & A72-10267:

PER PHONE CALL FROM DELBERT HUGHES ON 12-11-1989, 10:30 AM.
CHANGE IN DATE OF PRIORITY FROM 1879 TO 1912 TO PROTECT THE
SENIOR WATER USERS.

CHANGES MADE AND RETURNED CLAIMS FOR SIGNATURES TO MR. HUGHES.

STEVE CLELLAND

MEMO TO FILE

MEMO TO A72-04028
A72-04029
A72-04030
A72-04177

DECEMBER 11, 1989

CC: DELBERT HUGHES

RE: AFFIDAVITS

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A72-04177 DID NOT HAVE AFFIDAVITS ON RECORD IN THE FILES; NO ATTACHMENTS MADE TO FILE.

STEVE CLELLAND

November 20, 1998

**NOTICE OF ERROR
REPLY**

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

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

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

Water right number: 72-04177

DONNA L HUGHES
DELBERT M HUGHES
HC 61 BOX 3054
CHALLIS ID 83226

Daytime Telephone Number:

Evening Telephone Number:

1. Describe the portion of the proposed recommendation with which you disagree (e.g. priority date, period of use, source):

2. Describe the changes you wish to make in the proposed recommendation:

3. Give a brief explanation as to why you disagree with these portions:

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

DATE: 12/4/98 SIGNATURE: Delbert Hughes
Please print your name: Delbert Hughes

AJ5808NP
(OD-26)

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIMS PROOF READING REPORT

11/03/98 14:07:14
Page 1

Water Right Number - R72-04177

Prefix Translation: RESEARCH

Old (D) Number -

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

*** C - CURRENT OWNER ***

HUGHES

DONNA L

1 - HC 61 BOX 3054

2 -

3 -

City- CHALLIS

State- ID Zip- 83226

Phone - 208-879-2365

HUGHES

DELBERT M

1 - HC 61 BOX 3054

2 -

3 -

City- CHALLIS

State- ID Zip- 83226

Phone - 208-879-2365

VERIFIED BY: *KKC*
11-3-98

+ - - Priority Date - - + + - - - Region - - - + + - - - Stage - - - + + - - - Status - - - -
05/03/1935 17 SOUTHERN J - BENEFICIAL USE

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

Tw	Rng	Sec	Tract	Lot	RFlg	County	Point of Diversion -	Diversion Name
15N	19E	23	NW SW NE	43	(37)	CUSTER		
		24	NE SW SW	427	(37)	CUSTER		

Code	Description	Period From	Period To	Water Use	Diversion Rate	Diversion Volume
01 - IRRIGATION		04/15	10/15		12.210	
04 - STOCKWATER		10/15	04/15		0.070	

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Div. Capacity - + + - Total Consumptive Use - + + - KW Usage -
12.210 0.0

Tw	Rng	Sec	Tract	Lot	Acres	Code	Place of Use	Description	County
15N	19E	24	NE NE	2	6.8	01	IRRIGATION		(37) CUSTER
15N	19E	24	NW NE	2	40.0	01	IRRIGATION		(37) CUSTER
15N	19E	24	SW NE	3	33.0	01	IRRIGATION		(37) CUSTER
15N	19E	24	SE NE	3	0.3	01	IRRIGATION		(37) CUSTER
15N	19E	24	NE NW		16.0	01	IRRIGATION		(37) CUSTER
15N	19E	24	SE NW		33.0	01	IRRIGATION		(37) CUSTER
15N	19E	24	NE SW		24.0	01	IRRIGATION		(37) CUSTER
15N	19E	24	NW SE	6	1.1	01	IRRIGATION		(37) CUSTER

Total Acres: 154.2

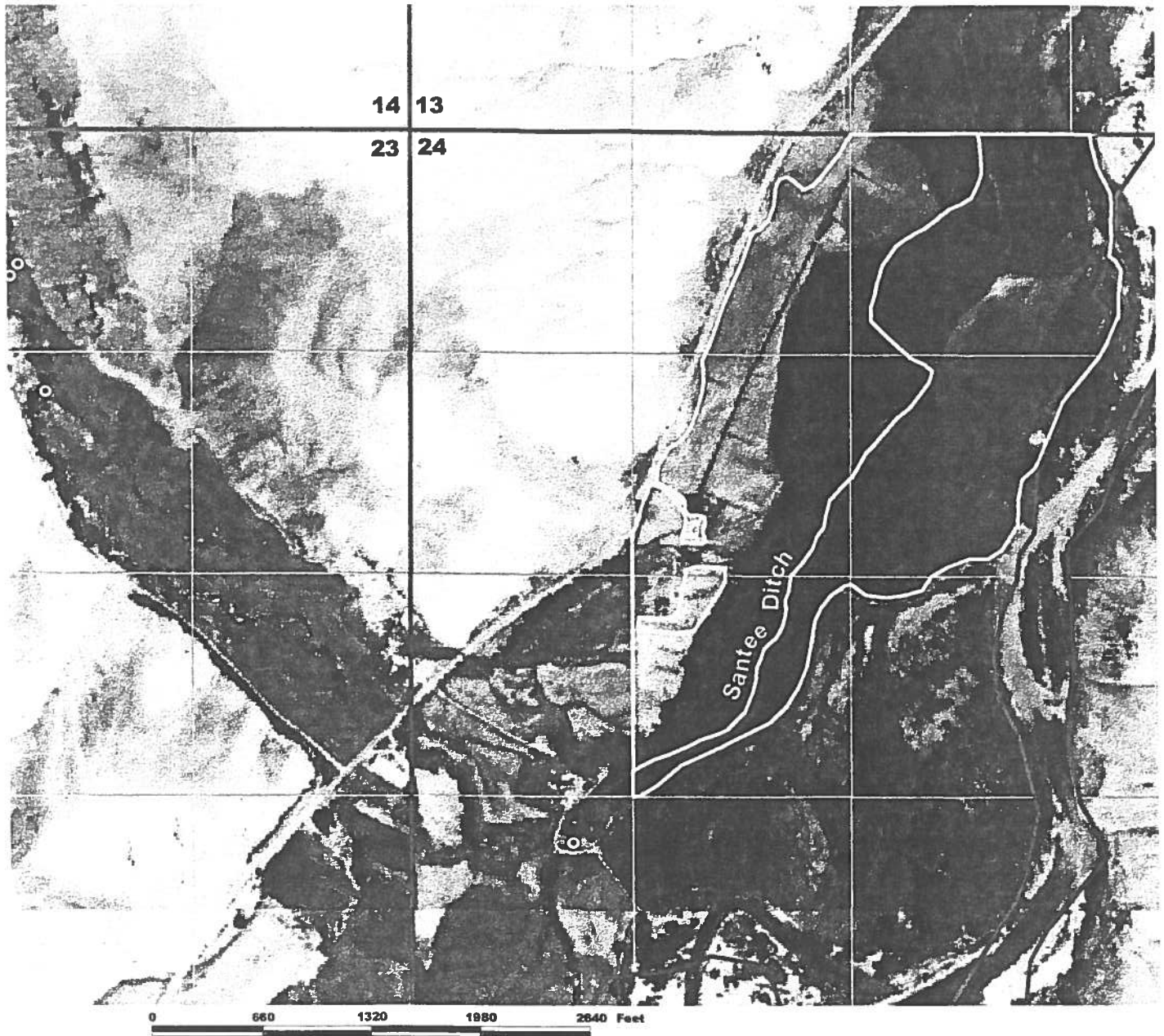
P/4 615 132
173

+ - - Diversion Means - HEADGATE, DITCH

+ - - Non-Irrigation Use - STOCKWATER, 300 RANGE CATTLE

Court Report Filing	- 00/00/0000	Field Inspection Made	- 08/19/1993	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	- 12/07/1989	Last Amended Date	- 04/29/1992	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	- M005338	Federal/State Indicator	- S
		POU Ownership Flag	- Y	Presumption Flag	-
		Name Connector	- OR	Notice of Error Flag	-

**72-00147, 72-00148, & 72-04177
MORGAN CREEK RIGHTS
HUGHES**



RECOMMENDED PLACE OF USE
TWP 15N. RNG 19E, SEC 24
data entry on August 5, 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 CHRISTENSEI

CLAIM NUMBER

72-00147 72-00148
72-04177

DATE

10-5-98

TRANSFER NUMBER

AGENT

KKC

CLAIMED ACRE TOTAL

17

GIS ACRE TOTAL

154

	TWP	RNG	SEC	NE				NW				SW				SE			
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
CLAIM	15N	19E	24	5	40	36	6	25			32	27							
GIS																			
RECOM																			
P/U Below Santee Ditch																			
	15N	19E	24	6.8	27.4	28.2	.3				2.4	7.1					1.1		
				6.8	27	28					2.4	7.1					1.1		
P/U ABOVE Santee Ditch																			
	15N	19E	24		12.7	4.6		16.3			30.6	16.7							
CLAIM					13	4.6		16			31	17							
GIS																			
RECOM	COMBINED P/U			6.8	40	33	.3	16			33	24					1.1		
CLAIM																			
GIS																			
RECOM																			

B72-DBPOU.SHP

SHAPE NOS.

132 Above Santee Ditch

133 Below Santee Ditch

P/U created with 2 polygons as other
rights from the Salmon River are
recommended according to the Santee
split of the property owned by Delbert

B72-DBPOD.SHP

NOS. DESCRIPTION

43 Sec 23

NW SW NE

42 Sec 24

NE SW SW

DBF TABLES UPDATED

B72-DBPOU.DBF

B72-DBPOD.DBF

72-00147 72-00148 72-04177

10-8-98.

Diversion Rate Recommendation Analysis.

Revised Hubble gives

above Santee	81.6 acres	6.87 cfs
below Santee	<u>72.4 acres</u>	<u>7.34 cfs</u>
total	154.2*	14.21 cfs.

* Recommended P/u.

Claimed rates

72-00147 -	1.60 cfs
00148 -	0.40 cfs
04177 -	<u>12.43 cfs</u>
	14.43 cfs

System Capacity

Morgan Cr P/D in Sec 23	7.14
" " @ Santeditch	<u>11.91</u>
	18.23 cfs

Analysis: the limiting factor is the beneficial use as identified through the Hubble analysis. Therefore the recommended total limit for the three rights is 14.21 cfs

14.21 system total.

- 1.60 (00147)

- .40 (00148)

balance. 12.21 (04177)

Recommended Rates.



KELLY K CHRISTENSEN *KKC*
 SR WATER RESOURCE AGENT
 IDAHO DEPT OF WATER RESOURCES
 SOUTHERN REGION

REVIEW OF IRRIGATION RATES BASED UPON 1997 REVISED HUBBLE ANALYSIS PROCEDURES

Pg 1/2

CLAIM NUMBERS
For P/U below
the Santee Ditch

DATE: _____, 1998

REVIEWED BY _____

CHALLIS AREA SOIL REVIEW

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

SOIL TYPE	BORDER CFS/AC		FURROW CFS/AC		OPTIMUM ROTATION	
	PAST	ALFA	PAST	ALFA	PASTURE	ALFALFA
PD2	.11	.12			5.15	4.74
RE2	.29	.21			3.15	4.74
<u>RPI</u>	<u>.19</u>	<u>.21</u>			4.89	<u>4.57</u>
SH1	.06	.05			9.37	12.10
SOC	.08	.07			7.38	8.08
SSA	.15	.14			4.79	5.01
SXF	.12	.11			6.14	6.80
TC1	.06	.06			9.82	9.55
TD1	.04	.03			12.46	16.50
WB2	.13	.13			5.37	5.43
WAA	.19	.16			3.81	4.23
WBB	.17	.14			3.36	3.84
WC1	.07	.06			11.24	13.45
WPT	.19	.15			3.16	3.69
WV1	.07	.06			11.24	13.45
XHS						
YN1	.18	.14			5.38	6.92
<u>Q</u>	<u>.26</u>	<u>.21</u>			<u>13.22</u>	<u>10.39</u>

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
RPI	4.57	10	* 45.3	* .21	= 4.35 CFS
CB1	~~13.47~~	~~20~~	* ~~18.0~~	* .06	= 1.08 CFS
Q	~~10.29~~	~~20~~	* 9.1	* .21	= 1.91 CFS
			*	*	= CFS

7.34 CFS total

TOTAL ACRES 72.4

Total P/U Recom. Rate

Pg1 7.34

Pg2 6.87

14.21

DECREED RATE = _____

CLAIMED DIVERSION RATE = _____

MEASURED DIVERSION RATE = _____

REVIEW OF IRRIGATION RATES BASED UPON 1997 REVISED HUBBLE ANALYSIS PROCEDURES

Pg 2/2

CLAIM NUMBERS
For P/u above
Santee Ditch

DATE: _____, 1998

REVIEWED BY _____

CHALLIS AREA SOIL REVIEW

SOIL TYPE	BORDER CFS/AC		FURROW CFS/AC		OPTIMUM ROTATION	
	PAST	ALFA	PAST	ALFA	PASTURE	ALFALFA
ATC	.15	.13			6.49	7.62
BB1	.09	.09			6.09	6.17
BBD						
BC1	.16	.17			5.82	5.46
BK1	.07	.06			10.62	11.86
BT1	.18	.16			3.99	4.19
BT2	.41	.32			2.34	2.87
CB1	.06	.06			11.55	13.47
CHA	.21	.21			4.52	4.76
CP1	.36	.36			2.61	2.78
DB1	.13	.11			5.66	6.65
DBB	.13	.11			5.71	6.69
DBC	.13	.11			5.71	6.69
DMF	.18	.21			5.12	4.72
DT2	.05	.04			12.46	16.50
DWA	.14	.14			4.79	5.01
GO1	.10	.12			12.47	10.51
HAYSE						
KEG	.08	.07			8.73	10.06
MUG	.15	.14			4.54	4.98
NDL	.13	.12			5.30	6.06

SOIL TYPE	BORDER CFS/AC		FURROW CFS/AC		OPTIMUM ROTATION	
	PAST	ALFA	PAST	ALFA	PASTURE	ALFALFA
PD2	.11	.12			5.15	4.74
RE2	.29	.21			3.15	4.74
RP1	.19	.21			4.89	4.57
SH1	.06	.05			9.37	12.10
SOC	.08	.07			7.38	8.08
SSA	.15	.14			4.79	5.01
SXF	.12	.11			6.14	6.80
TC1	.06	.06			9.82	9.55
TD1	.04	.03			12.46	16.50
WB2	.13	.13			5.37	5.43
WAA	.19	.16			3.81	4.23
WBB	.17	.14			3.36	3.84
WC1	.07	.06			11.24	13.45
WPT	.19	.15			3.16	3.69
WV1	.07	.06			11.24	13.45
XHS						
YN1	.18	.14			5.38	6.92
Q	.26	.21			13.22	10.39

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
BB1	6.17	10	* 29.4	* .09	= 1.63 CFS
GO1	10.51	10	* 10.6	* .12	= 1.27 CFS
RP1	4.57	10	* 35.7	* .21	= 3.43 CFS
BT2	2.87	10	* 5.9	* .32	= .54 CFS

TOTAL ACRES 81.6

1/2 of the P/u

DECREED RATE =

CLAIMED DIVERSION RATE =

MEASURED DIVERSION RATE =

total 6.87 = 0.084 CFS/Ac

R PROOF

CVR

MAPS

PHOTOS

MISC

Water Right Number - R72-04177

Prefix Translation:

RESEARCH

Old (D) Number -

*** C - CURRENT OWNER ***

HUGHES

DONNA L.

1 - HC 61 BOX 3054

State- ID Zip- 83226

VERIFIED BY KKC

HUGHES

DELBERT M.

2 -
3 -
City- CHALLIS
Phone - 208-879-2365
1 - HC 61 BOX 3054

State- ID Zip- 83226

3 -
City- CHALLIS
Phone - 208-879-2365

State- ID Zip- 83226

Priority Date - 05/03/1935

Region - 17 SOUTHERN

Stage - J - BENEFICIAL USE

Status -

Source - MORGAN CREEK

Tributary - SALMON RIVER

Town Rng Sec Tract Lot Rflg County
15N 19E 23 NW SW NE (37) CUSTER
24 NE SW SW (37) CUSTER

Code Description Period From Period To Water Use Diversion Rate Diversion Volume
01 - IRRIGATION 04/15 10/15 11.230
04 - STOCKWATER 10/15 04/15 0.070

Total Div. Rate - 11.230

Total Div. Volume - 0.0

Town	Rng	Sec	Tract	Lot	Acres	Place of Use	Code	Description	County
15N	19E	24	NE NE	2	6.0	01	IRRIGATION	(37) CUSTER	
15N	19E	24	NW NE	2	40.0	01	IRRIGATION	(37) CUSTER	
15N	19E	24	SW NE	3	33.0	01	IRRIGATION	(37) CUSTER	
15N	19E	24	SE NE	3	3.0	01	IRRIGATION	(37) CUSTER	
15N	19E	24	NE NW		12.0	01	IRRIGATION	(37) CUSTER	
15N	19E	24	SE NW		27.0	01	IRRIGATION	(37) CUSTER	
15N	19E	24	NE SW		28.0	01	IRRIGATION	(37) CUSTER	
15N	19E	24	NW SE	6	2.0	01	IRRIGATION	(37) CUSTER	

Total Acres: 151.0

- - - Diversion Means - HEADGATE, DITCH

MICROFILMED
NOV 01 1994

Water right number - R72-04177

Prefix translation: RESEARCH

- - - Non-Irrigation Use - STOCKWATER, 300 RANGE CATTLE

- - - Other Rights for Same Use - 72-00147, 72-00148, 72-04028, & 72-04029.

REMARKS
THE FOLLOWING RIGHTS ARE ALSO DIVERTED THROUGH POINT OF
DIVERSION DESCRIBED ABOVE: 72-00147 AND 72-00148.
USE OF THIS RIGHT WITH RIGHTS LISTED BELOW IS LIMITED TO A
TOTAL COMBINED DIVERSION RATE OF 13.23 CFS, A TOTAL COMBINED
ANNUAL CONSUMPTIVE USE VOLUME OF 377.5 AF, AND TO THE IRRIGATION
OF A COMBINED TOTAL OF 151 ACRES IN A SINGLE IRRIGATION SEASON.
COMBINED RIGHT NOS.: 72-00147, 00148, 04028, & 04029.

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

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

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

+ - - - - - Comments - - - - -
Date: 01/11/1994 User Id: CHRISTEN Subject: COPIED FROM REMARKS **CLAIM AMENDED 11-22-93 TO INCREASE CLAIMED DIVERSION RATE AND
CHANGE IN PERIOD OF USE DUE TO ERROR AT TIME OF FILING. UNDER OTHER CLAIMS. ***
TO ADD ACRES TO THE CLAIM. ADDED ACRES PREVIOUSLY CLAIMED

+ - - - - - Audit Fields - - - - -
01/11/94 CHRISTEN

+ - - - - - Adjudication Rights Dates and Flags Area - - - - -
Court Report Filing - 00/00/0000 Field Inspection Made - 08/19/1993 Civil Case Number - 39576
Objection Filed Date - 00/00/0000 Field Inspection Flag - - Old Case Number -
Response Filed Date - 00/00/0000 Verified Date - 01/11/1994 Old Judicial District -
Claim Received Date - 12/07/1989 Last Amended Date - 04/29/1992 Temporary Right - P
Receipt Number - M005338 Water District - 72F
POU Ownership Flag - Y Federal/State Indicator - S
Name Connector - OR Presumption Flag -
Notice of Error Flag -

MICROFILMED
NOV 01 1994

DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

06/05/92

PAGE: 1
GENERAL INFORMATION

CLAIM NUMBER: A72-04177

LAST: HUGHES FIRST: DONNA L.
ADDRESS: HC 61 BOX 3054
CITY: CHALLIS STATE: ID ZIP: 83226
PHONE NUMBER: 208-879-2365
OWNER CODE: C

FIRST: DELBERT M.
ADDRESS: HC 61 BOX 3054
CITY: CHALLIS STATE: ID ZIP: 83226
PHONE NUMBER: 208-879-2365

OWNER CODE: C

FIELD EXAM REQUIRED?

FIELD EXAMINER
DATABASE
Y

VERIFICATION REQUIRED DUE TO REMARKS?

CLAIM REMARKS: CHANGE IN PERIOD OF USE DUE TO ERROR AT TIME OF FILING.

MICROFILMED
NOV 01 1994

CONTACT PERSON: Delbert Hughes PHONE NUMBER: () - - -
DATE OF FIELD EXAM: 8/19/1993 APPOINTMENT MADE: Y() N() TIME: : : A() P()
ACCOMPANIED BY: Ms one PHONE NUMBER: () - - -
RELATIONSHIP TO CLAIMANT: Sister
DIRECTIONS TO PROPERTY / REMARKS:

A. AJ CLAIM: # A72-04177 PRIORITY DATE: 05-01-1878 STAGE: S
B. WR RECORD: # 72-04177 PRIORITY DATE: 05-01-1878 STAGE: S

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

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

REMARKS: *affidavits are conflicting; one is non descript of the date.
the seems to have support around 1926-1928.*

*was is for ideas how confirmed as necessary using SCS Bolder Analysis. The has been in
chistake since the decedate as it is for the same ground using the same
system as the deed.*

*the deed of 5-3-1935
therefor I recognize a priority date of one day after*

RECOMMENDED PRIORITY DATE: ~~05-01-1878~~ *5-3-1935* *KAC* 1-10-93

REVIEWED BY *SK* DATE *11-16-92*

MICROFILMED
 NOV 01 1994

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT TWP. RGE. SEC. LOT CNTY
 472-04177 15N 19E 23 **2 PDs Found** NE CUSTER

OTHER AJ CLAIMS WITH SAME AJ POD
 A PREFIX R PREFIX
 NONE NONE

WR RECORDS IN SAME 40 ACRE TRACT
 72-00161
 72-00162

SOURCE: MORGAN CREEK

TRIBE: SALMON RIVER

B. WR POINT OF DIVERSION AND SOURCE:

TGHT TWP. RGE. SEC. LOT CNTY CUSTER
 72-04177 15N 19E 23 1/4 1/4 1/4

OTHER WR RECORDS WITH SAME WR POD
 AJ CLAIMS IN SAME 40 ACRE TRACT
 A PREFIX R PREFIX
 NONE NONE

72-00161
 72-00162

SOURCE: MORGAN CREEK

TRIBE: SALMON RIVER

C. FIELD EXAM REQUIRED?

DUE TO POD DISCREPANCY? (Y/N)
 DUE TO SOURCE DISCREPANCY? (Y/N)

Y
 N

FIELD EXAMINER

REMARKS:

found 2 PDs. one in sec 23 appears to match the decreed PD although I am recommending it in a different location than claimed. The second PD is in sec 24 it is where Morgan CV crossed the Snake River. Physical effort would be required to Nor direct Morgan CV water and I believe that this system has been in use since the decreed but just was not included in the text of the decree. Note second PD may not work.

23
 (claim rights only)

RECOMMENDED POINT(S) OF DIVERSION AND SOURCE:	1/4	1/4	1/4	LOT	COUNTY
TWP. RGE. SEC.					
15N 19E 23	NE	SW	NE	Lot 7	Quatu
24	NE	SW	SW	ok	
SOURCE: MORGAN CREEK	OK				
TRIP: SALMON RIVER					
REVIEWED BY: KKC					
DATE: 1-11-94					

MICROFILMED
NOV 01 1994

A. ROOT WATER RIGHT NUMBERS:

A72-10120
A72-04177

A72-10235

B. POU LISTING

TWP RNG SEC 1/4 1/4 LOT NAME

AJ
#/ACRES

WR
#/ACRES

LANDSAT
DATA

FIELD
EXAM.

RECORD
ACRES

15N 19E 24

RD NE NE
NW NE
NW NE
NW NE

2
2
2
2

HUGHES, JONNA L.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.

A72-04177 714.0 72-04177 714.0
A72-00147 /40.0 72-00147 /
A72-00148 /40.0 72-00148 /
A72-04028 /40.0 72-04028 /45.0
A72-04029 / 3.0 72-04029 / 3.0

40 40

19E 24

SD NE NE
SW NE
SW NE

3
3
3

HUGHES, JONNA L.
HUGHES, DELBERT M.
HUGHES, DELBERT M.

A72-04177 718.0 72-04177 718.0
A72-00147 /36.0 72-00147 /
A72-00148 /36.0 72-00148 /
A72-04028 /36.0 72-04028 /36.0

40 40

15N 19E 24

NE NW NE
NE NW
NE NW

HUGHES, JONNA L.
HUGHES, DELBERT M.
HUGHES, DELBERT M.

A72-04177 718.0 72-04177 718.0
A72-00147 /25.0 72-00147 /
A72-00148 /25.0 72-00148 /
A72-04029 /25.0 72-04029 /25.0

Recommended P/A

15N 19E 24

SE NW SE
SE NW
SE NW
SE NW
SE NW
SE NW
SE NW
SE NW

HUGHES, JONNA L.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.

A72-04177 728.0 72-04177 728.0
A72-00147 /32.0 72-00147 /
A72-00148 /32.0 72-00148 /
A72-04028 / 8.0 72-04028 / 8.0
A72-04029 /32.0 72-04029 /32.0
A72-10264 /
A72-10265 /

Sec 24
NE NE 6
NW NE 40
SW NE 33
SE NE 3

15N 19E 24

NE SW NE
NE SW
NE SW
NE SW
NE SW
NE SW
NE SW
NE SW

HUGHES, JONNA L.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.
HUGHES, DELBERT M.

A72-04177 715.0 72-04177 715.0
A72-00147 /27.0 72-00147 /
A72-00148 /27.0 72-00148 /
A72-04028 / 7.0 72-04028 / 7.0
A72-04029 /20.0 72-04029 /20.0
A72-04030 /14.0 72-04030 /14.0
72-07444 /14.0

NE NW 12
SE NW 27
NE SW 28
SW SE 2

TOTAL ACRES

A72-04177

81.00

81.00

92.00

151 Acres

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

C. FIELD EXAM REQUIRED?

DATABASE

FIELD
EXAMINER

POU COUNTY: CUSTER

DOES TO POU DISCREPANCY? (Y/N)

Y

PRESUMPTION FLAG:

REMARKS:

Plu amended to match the claimed decedent P4. I am recommending the found P4 as evidence indicates that of course have been used since the decedent from the same source; using the same system, & recognize that the 151 recommended a two have been ingested since the decedent.

RECOMMENDATIONS:

TOTAL ACRES:

151

REVIEWED BY:

KCC

DATE:

1-11-94

MICROFILMED
NOV 01 1994

A. AJ CLAIMED USES:

PURPOSES
A72-04177 IRRIGATION
A72-04177 STOCKWATER

MONTH/DAY
FROM 04-15 TO 10-15
FROM 10-15 TO 04-15

TOTAL DIVERSION RATE/VOLUME CLAIMED

5.200 CFS

Season 0/5 as claimed
Amended 11-23-93 to increase the diversion quantity. New rate to 11.23 CFS

F. WR RECORDED USES:

PURPOSES
72-04177 IRRIGATION
72-04177 STOCKWATER

MONTH/DAY
FROM 05-01 TO 08-01
FROM 09-01 TO 05-01

TOTAL DIVERSION RATE/VOLUME CLAIMED

5.200 CFS

PRESUMPTION FLAG:

C. FIELD EXAM REQUIRED?

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

DATABASE FIELD EXAMINER
N N
N N
Y

D. PERIOD OF USE:

RECOMMEND AS CLAIMED?

RECOMMEND TO WR STANDARDS OR OTHER?

REMARKS:

The Amended rate matches the effective rate calculation for this ground. therefore I accept it as claimed. see also Attached narratives.

Stock water use is for cattle watering on the meadows during the winter months and on cattle feed in a feed lot (not commercial). It recommended the rate of .07CFS for 300 head based upon Table 6 of field examine manual.

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

A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORDS?

Y() N()

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

5.200 CFS
5.200 CFS

N/A

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

FLOW MEASUREMENT REQUIRED?

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

FIELD
DATABASE EXAMINER
Y

MEASUREMENT METHOD

FLOW MEASUREMENT

See Attached info, SEE ATTACHED CALCULATIONS.

C. ARE OTHER WATER RIGHTS USED? (Y) (Y) (N) *See Attached info* COMPLETE OVERLAP REVIEW.

OTHER RIGHTS LISTED IN CLAIM: A72-00147, A72-00148, A72-04028, A72-04029.

LIST ALL RIGHTS WITH A SAME POU AND IRRIGATION USAGE:

CLAIM NO.	SOURCE	NAME	DIV. RATE	DIV. RATE/ACRE	DIV. VOL.	DIV. VOL./ACRE
A72-04177	MORGAN CREEK	HUGHES, DONNA L.	5.200	0.064		
A72-00147	MORGAN CREEK	HUGHES, DELBERT M.	1.600	0.009		
A72-00148	MORGAN CREEK	HUGHES, DELBERT M.	0.400	0.002		
A72-04028	SALMON RIVER	HUGHES, DELBERT M.	3.840	0.040		
A72-04029	SALMON RIVER	HUGHES, DELBERT M.	1.600	0.020		
A72-04030	WASTE WATER	HUGHES, DELBERT M.	1.720	0.040		

ALL RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION.

CLAIM NO.	PURPOSES	NAME	MONTH/DAY	RATE	VOLUME
A72-10264	DOMESTIC	HUGHES, DELBERT M.	FROM 01-01 TO 12-31	0.040 CFS	

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NOV 01 1984

D.

RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE

ACRES ----- X 0.02 CFS/ACRE = CFS
(Taken from p/u review)

1b. CALCULATIONS

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

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

2. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = 202.5 AE/A

ACRES ----- X CONSUMPTIVE VOL. AE/A FOR AREA ----- =

TOTAL CONSUMPTIVE USE ----- AE/A

3. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = AE/A

ACRES ----- X DIVERSION VOL. AE/A FOR AREA -----

TOTAL DIVERSION VOLUME ----- AE/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:

SEE ATTACHED SHEET? Y() N()

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

*See remarks for combined
rights re consumptive*

RECOMMENDATIONS:

REC. PURPOSES	REC. PERIOD FROM TO	REC. DIV RATE CFS	REC. DIV VOL. AF/A	REC. CONS. USE
IRRIGATION STOCKWATER	04-15 10-15	11.83 1.07		
TOTAL FOR THIS RIGHT		5.200		

REVIEWED BY:

XKC

DATE:

1-11-93

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A. CHECK ONLY THE FOLLOWING THAT APPLY:

OWNERSHIP
FORFEIT/ABANDON
ADDITIONAL DIV. AMOUNT

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

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 72-04177

DATABASE
88.130

EXAMINER
N/A

CFS

TOTAL DIVERSION RATE OF WR SPLITS

SPLITS:

OLD RIGHT NUMBERS	CURRENT CLAIM NUMBERS	DIVERSION RATE	CURRENT "R" CLAIM NUM.	"R" DIV. RATE	WR RIGHT NUMBERS	DIVERSION RATE
A72-00239	A72-10120	9.600	-	-	72-00239	12.930
A72-00240	A72-10120	9.600	-	-	72-00240	5.200
A72-04178	A72-10120	9.600	-	-	72-04178	30.000
-	A72-04177	5.200	-	-	72-04177	5.200
A72-00243	A72-10235	10.000	-	-	72-00243	6.000
A72-00241	A72-10235	10.000	-	-	72-00241	4.000
A72-04178	A72-10235	10.000	-	-	72-04178	30.000
TOTAL CFS		64.000				88.130

DIVERSION RATE REVIEW

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

DATABASE
N

FIELD
EXAMINER

REMARKS:

AUTHENTICATION:

SIGNATURE:

Wiley H. Davis

DATE:

1-11-94

NAME OF FIELD EXAMINER:

TITLE:

Substance Research Agent

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WR ELEMENT	FIELD EXAM Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	VERIFIED BY CODE	COMPLETED REVIEW WHOM/DATE	COMPLETED DATA ENTRY WHOM/DATE	VERIFIED DATE WHOM/DATE
PRIORITY RATE								
POINT OF DIV								
SOURCE	(Y)	affidavit submitted 11-9-92 (see memo)	8-19-93 KRC	(Y) 5-1 1926	1,2,5,6 6.	KRC 1-10-94		
PLACE OF USE	(Y)		8-19-93 KRC	(Y)	1,2,5,6	1-11-94		
DIV. AMOUNT CFS/VOLUME	(Y)		"	N	"	"		
CONSUMPTIVE USE	(Y)		"	Y	"	"		
PURPOSES			"	Y	"	"		
PERIOD OF USE	Y		"	N	6	"		
BASIS OF CLAIM	Y		"	Y	6	"		
REMARKS	(Y)		"	Y	"	"		

11-16-92

See

"VERIFIED BY" CODES

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

MAPS USED:

DATE:

ASCS AA-9 1978
 ORTHO T-75 1956
 NAPP SCS SOLISMAR 243-34
 BLM 7-10D-8 7-10-88

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

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POOR ORIGINAL

CLAIMS: MORGAN Cr 72-00147
-00148

CLAIMS: SALMON R. 72-04177
-04028
-04029

CLAIM	INIT
1 T. R. S3 NW SW NE LT	MORGAN
P/D 2 15N 19E 24 NE SW SW CR	
PHOTO BLM	7-10-88
DT. & ID.	7-10-88 Flight

CLAIM: WASTE WATER 72-04030 P/D SALMON RIVER

SCALE: 1" = 1120

$$CA = \frac{(1190)^2 \times .009699}{43,560} = 1353$$

15N 19E 25 SE SW NE LT
P/D rediversion (left Santee ditch)
15N 19E 24 SW SE SW

-  P/U ABOVE 'SANTEE' DITCH 75A
-  P/U BELOW 'SANTEE' DITCH 76A
-  P/U IRRIGATED VIA WASTE WATER 19A

MORGAN CREEK

PIPE LINE TO
DELIVER SALMON
RIVER WATER

SANTEE DITCH

SALMON RIVER

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POOR ORIGINAL

Topographic map showing Morgan Cr., Santee Ditch, and various numbered locations (1, 2, 6, 12, 22, 23, 24, 25, 28, 35, 36). The map includes a grid, a scale bar, and a north arrow. Handwritten notes include "Morgan Cr. P/D #1", "Santee Ditch", "P/D #2", "P/D 25 for Santee Ditch", and "labbs nt". A large number "6" is written in the upper right corner.

ALFONSO

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NOV 01 1994

CLAIM NO. --- A72-00147, 00148, 04029 Lotus Program:
 AGENT ----- KKC IRR-PRAC.WK3
 DATE ----- 10/18/93 Date form revised:
 4/21/93 by KKC

 SOIL CHARACTERISTICS

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

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

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (INCHES)	FIELD NOTES AND CALCULATIONS				
				FIELD 1	FIELD 2	FIELD 3	FIELD 4	
alfalfa (hay or seed)	5	0.5	1.76	FIELD WIDTH 11700	0			
corn (field or silage)	4	0.5	1.61	IRRIGATION DAYS 30				
grain (winter or spring)	4	0.5	1.61	DRY DAYS 0				
pasture (or grass hay)	3	0.5	1.46	SET TIME(hours) 8				
other (enter below)				CALCULATED RUN (run = acres*43560/width)				
				LENGTH (RUN) = 395				
				CALCULATED BORDER WIDTH (ditch length/irr days * cha				
				WIDTH = 390				
				THEORETICAL ROTATION (mad/net irr req in inches per				
				SELECTED MAD = 1.76				
				ROTATION = 7.2 DAYS				

 PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS
 Figure No = 10-15

crop	acres	system	recomm.		Net Irrigation Requirement (mm/day)					
			eff.	mar	apr	may	jun	jul	aug	sep
PASTURE	0	FLOOD			1.47	3.84	4.87	5.86	4.56	3.23
ALFALFA	106	FLOOD	7.8		1.28	4.51	5.65	6.25	4.45	2.52

Summary 106 8 1.28 4.51 5.65 6.25 4.45 2.52 0.70
 Peak Net Irrigation Requirement (mm/day) = 6.25

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

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1413
2324

POOR ORIGINAL

D. M. HUGHES

Under the M. Creek is
no longer available
to cover all H. 1/2
The
Barnes Pipeline
canals to make it
into the East
Salmon River was
E. Salmon was

Hughes
Morgan Creek
ditch

Johns

MORGAN
CREEK

Morgan
Creek

CLAIM	INIT
T. R. S. Q/Q	
P/D <u>Field Map</u>	
PHOTO <u>ASCS</u>	<u>AA-9</u>
DT.&ID. <u>1978</u>	<u>Flight</u>

SANTER
DITCH

O P/O

DELBERT
SANTER

GRADED BORDER EVALUATION

Job name: A72-00147 -- 04029
By: KKC

Location: RP1 SOIL FOR 106 ACRES
Date: Oct 18, 1993

Roughness coefficient (n)= 0.150 Intake family (If)=3.00
Slope (S)= 0.0200 ft/ft Border width (W)= 390 ft
Net application (Fn)= 1.76 inches Border length (L)= 395 ft
Inflow time (Ti)= 8 hours, 0 minutes

Flow per Border (cfs)	Unit Flow (cfs/ft)	Gross Application (in)	Deep Percolation (in)	Runoff (in)	Application Efficiency (percent)	Not
10.00	Gross depth is less than required gross application depth					
10.01	Gross depth is less than required gross application depth					
10.02	Gross depth is less than required gross application depth					
10.03	Gross depth is less than required gross application depth					
10.04	Gross depth is less than required gross application depth					
10.05	Gross depth is less than required gross application depth					
10.06	0.026	22.57	20.79	0.01	7.8	
10.07	0.026	22.59	20.79	0.04	7.8	
10.08	0.026	22.61	20.79	0.06	7.8	
10.09	0.026	22.64	20.79	0.08	7.8	
10.10	0.026	22.66	20.79	0.10	7.8	
10.11	0.026	22.68	20.79	0.13	7.8	
10.12	0.026	22.70	20.79	0.15	7.8	
10.13	0.026	22.73	20.79	0.17	7.7	
10.14	0.026	22.75	20.79	0.19	7.7	
10.15	0.026	22.77	20.79	0.22	7.7	

Morgan Creek water covers
 $10.06 \text{ CFS} / 106 \text{ A} = .0949 \text{ CFS} / \text{ACRE}$

Salmon River water irrigates
97 Acres w flood therefore $97 \text{ Acres} * .0949 = \underline{\underline{9.206 \text{ CFS}}}$

MICROFILMED

NOV 01 1994

4030

CLAIM NO. --- A72-~~04104~~
AGENT ----- KKC
DATE ----- 10/18/93

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

SOIL CHARACTERISTICS

Soil Type = CB1; TOHOBIT...SILT LOAM, VERY FINE SANDY LOAM
Source of Soils Data = Printout From SCS State Office

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	9	0.16	0.2	7.4	8.4	1	2	1	2.12	2	0.55
9	19	0.14	0.19	7.4	8.4			1	2.28		
19	49	0.01	0.03	7.4	8.4			3	3.61		
49	55	0.03	0.05	7.4	8.4			4	3.85	alternate	
55	60	0.08	0.14	7.4	8.4			5	4.66	method	
										NA	NA

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point (INCHES)	MAD	FIELD NOTES AND CALCULATIONS				
				FIELD 1	FIELD 2	FIELD 3	FIELD 4	
				FIELD WIDTH	2335	0		
				IRRIGATION DAYS	10			
				DRY DAYS	0			
				SET TIME(hours)	8			
				CALCULATED RUN (run = acres*43560/width)				
				RUN =	354			
				CALCULATED BORDER WIDTH (ditch length/irr days * cha				
				WIDTH =	78			
				THEORETICAL ROTATION (mad/net irr req in inches per				
				SELECTED MAD =	1.8			
				ROTATION =	7.8 DAYS			

PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS
Figure No = 10-15

Figure No = 10-15			Net Irrigation Requirement (mm/day)								
crop	acres	system	recomm. eff.	mar	apr	may	jun	jul	aug	sep	oct
PASTURE	19	FLOOD			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 19 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

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NOV 01 1994

GRADED BORDER EVALUATION

Job name: A72-04030
By: KKC

Location: CB1 SOILS FOR 19 ACRES
Date: Oct 18, 1993

Roughness coefficient (n)= 0.250 Intake family (If)=2.00
Slope (S)= 0.0200 ft/ft Border width (W)= 78 ft
Net application (Fn)= 1.80 inches Border length (L)= 354 ft
Inflow time (Ti)= 8 hours, 0 minutes

Flow per Border (cfs)	Unit Flow (cfs/ft)	Gross Application (in)	Deep Percolation (in)	Runoff (in)	Application Efficiency (percent)	Not
1.30	Gross depth is less than required gross application depth					
1.31	0.017	16.40	14.49	0.11	11.0	
1.32	0.017	16.52	14.49	0.23	10.9	
1.33	0.017	16.65	14.49	0.36	10.8	
1.34	0.017	16.77	14.49	0.48	10.7	
1.35	0.017	16.90	14.49	0.61	10.7	
1.36	0.017	17.02	14.49	0.73	10.6	
1.37	0.018	17.15	14.49	0.86	10.5	
1.38	0.018	17.27	14.49	0.98	10.4	
1.39	0.018	17.40	14.49	1.11	10.3	

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NOV 01 1994

CLAIM NO. --- A72-00147, 00148, 04029 Lotus Program:
 AGENT ----- KKC IRR-PRAC.WK3
 DATE ----- 10/18/93 Date form revised:
 4/21/93 by KKC

 SOIL CHARACTERISTICS

Soil Type = G01; GRANDJEAN... HEMIC MATERIAL, EXTREMELY GRAVELLY COARSE SAND
 Source of Soils Data = Printout From SCS State Office

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family
lower	upper	lower	upper	lower	upper	lower	upper			flood furrow
0	6	0.2	0.28	5.1	6	40	80	1	3.00	4 0.85
6	27	0.22	0.3	5.6	6.5			1	3.26	
27	60	0.02	0.03	6.1	7.3			3	7.13	
								4	7.43	alternate
								5	7.73	method
										NA NA

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point (INCHES)	MAD	FIELD NOTES AND CALCULATIONS				
				FIELD 1	FIELD 2	FIELD 3	FIELD 4	
				FIELD WIDTH	3738	0		
				IRRIGATION DAYS	16			
				DRY DAYS	0			
				SET TIME(hours)	8			
alfalfa (hay or seed)	5	0.5	3.86	CALCULATED RUN (run = acres*43560/width)				
corn (field or silage)	4	0.5	3.71	LENGTH (RUN) = 140				
grain (winter or spring)	4	0.5	3.71	CALCULATED BORDER WIDTH (ditch length/irr days * cha				
pasture (or grass hay)	3	0.5	3.56	WIDTH = 78				
other (enter below)				THEORETICAL ROTATION (mad/net irr req in inches per				
				SELECTED MAD = 3.86				
				ROTATION = 15.7 DAYS				

 PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS
 Figure No = 10-15

crop	acres	system	recomm. eff.	Net Irrigation Requirement (mm/day)							
				mar	apr	may	jun	jul	aug	sep	oct
PASTURE		FLOOD			1.47	3.84	4.87	5.86	4.56	3.23	2.07
ALFALFA	12	FLOOD	13.6		1.28	4.51	5.65	6.25	4.45	2.52	0.7

Summary 12 14 1.28 4.51 5.65 6.25 4.45 2.52 0.70
 Peak Net Irrigation Requirement (mm/day) = 6.25

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

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 NOV 01 1994

GRADED BORDER EVALUATION

Job name: A72-00147 --04029
By: KKC

Location: G01 SOIL FOR 12 ACRES
Date: Oct 18, 1993

Roughness coefficient (n)= 0.150 Intake family (If)=4.00
Slope (S)= 0.0200 ft/ft Border width (W)= 78 ft
Net application (Fn)= 3.86 inches Border length (L)= 140 ft
Inflow time (Ti)= 8 hours, 0 minutes

Flow per Border (cfs)	Unit Flow (cfs/ft)	Gross Application (in)	Deep Percolation (in)	Runoff (in)	Application Efficiency (percent)	Not
0.88	Gross depth is less than required gross application depth					
0.89	Gross depth is less than required gross application depth					
0.90	0.012	28.48	24.58	0.04	13.6	
0.91	0.012	28.80	24.58	0.36	13.4	
0.92	0.012	29.12	24.58	0.68	13.3	

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NOV 01 1994

CLAIM NO. --- A72-00147, 00148, 04029
 AGENT ----- KKC
 DATE ----- 10/18/93

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

SOIL CHARACTERISTICS

Soil Type = BB1; TOHOBIT...SILT LOAM FINE SANDY LOAM
 Source of Soils Data = Printout From SCS State Office

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family
lower	upper	lower	upper	lower	upper	lower	upper			flood furrow
0	9	0.16	0.2	7.4	8.4	1	2	1	2.12	2 0.55
9	19	0.14	0.19	7.4	8.4			1	2.28	
19	49	0.01	0.03	7.4	8.4			3	3.61	
49	55	0.03	0.05	7.4	8.4			4	3.85	alternate
55	60	0.08	0.14	7.4	8.4			5	4.66	method
										NA NA

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (INCHES)	FIELD NOTES AND CALCULATIONS				
				FIELD 1	FIELD 2	FIELD 3	FIELD 4	
alfalfa (hay or seed)	5	0.5	2.33	FIELD WIDTH	4426			
corn (field or silage)	4	0.5	1.92	IRRIGATION DAYS	10			
grain (winter or spring)	4	0.5	1.92	DRY DAYS	0			
pasture (or grass hay)	3	0.5	1.80	SET TIME(hours)	8			
other (enter below)				CALCULATED RUN (run = acres*43560/width)				
				RUN =	325			
				CALCULATED BORDER WIDTH (ditch length/irr days * cha				
				WIDTH =	148			
				THEORETICAL ROTATION (mad/net irr req in inches per				
				SELECTED MAD =	2.33			
				ROTATION =	9.5 DAYS			

 PEAK IRRIGATION DIVERSION REQUIREMENT AT FIELD

Weather Station = CHALLIS
 Figure No = 10-15

crop	acres	system	recomm. eff.	Net Irrigation Requirement (mm/day)							
				mar	apr	may	jun	jul	aug	sep	oct
PASTURE	0	FLOOD			1.47	3.84	4.87	5.86	4.56	3.23	2.07
ALFALFA	33	FLOOD	14.3		1.28	4.51	5.65	6.25	4.45	2.52	0.7

Summary 33 14 1.28 4.51 5.65 6.25 4.45 2.52 0.70
 Peak Net Irrigation Requirement (mm/day) = 6.25

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

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GRADED BORDER EVALUATION

Job name: A72-00147 --04029
By: KKC

Location: BB1 SOILS FOR 33 ACRES
Date: Oct 18, 1993

Roughness coefficient (n)= 0.150 Intake family (If)=2.00
Slope (S)= 0.0200 ft/ft Border width (W)= 148 ft
Net application (Fn)= 2.33 inches Border length (L)= 325 ft
Inflow time (Ti)= 8 hours, 0 minutes

Flow per Border (cfs)	Unit Flow (cfs/ft)	Gross Application (in)	Deep Percolation (in)	Runoff (in)	Application Efficiency (percent)	Not
2.20	Gross depth is less than required gross application depth					
2.21	Gross depth is less than required gross application depth					
2.22	Gross depth is less than required gross application depth					
2.23	Gross depth is less than required gross application depth					
2.24	Gross depth is less than required gross application depth					
2.25	Gross depth is less than required gross application depth					
2.26	Gross depth is less than required gross application depth					
2.27	0.015	16.31	13.96	0.02	14.3	(4)
2.28	0.015	16.38	13.96	0.10	14.2	(4)
2.29	0.015	16.45	13.96	0.17	14.2	(4)
2.30	0.016	16.53	13.96	0.24	14.1	(4)

(4) Less than minimum recommended depth of flow.

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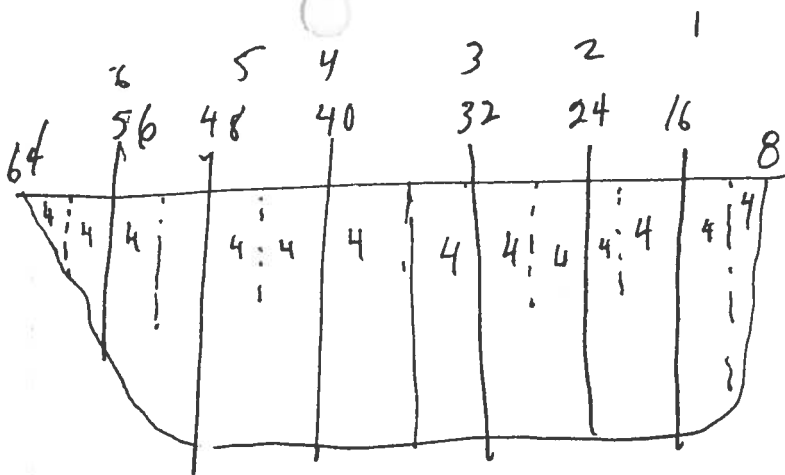
NAME OF STREAM OR DITCH MORGAN CREEK
 LOCATION ----- NORTH END OF SAVAGE P/U
 PURPOSE OF MEASUREMENT -- ADJUDICATION REVIEW
 BASIS OF VELOCITY CALCULATIONS
 IF YOU ARE USING A PYGMY METER ENTER ----- 1
 IF YOU ARE USING A AA METER ENTER ----- 2
 ENTRY ----- = 1

WATER RIGHT NUMBER IF APPLICABLE ----- AZ2-00147, 00148, & 04177
 AGENT CONDUCTING MEASUREMENT & DATE -- KKC 8-17-93
 ACCOMPANIED BY ----- NO ONE
 PREMEASUREMENT SPIN TEST (MIN/SEC) ---
 POST MEASUREMENT SPIN TEST (MIN/SEC) -

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 MEASUREMENT REVS	VELOCITY DATA		CALC WIDTH	AREA IN SQ FT	CALCULATED VELOCITY			DISCHARGE IN CFS
						2ND MEASUREMENT REVS	TIME/SEC			1ST POINT VELOCITY	2ND POINT VELOCITY	MEAN VELOCITY	
0.67		0.54			60			0.33	0.181	1.29		0.64	0.12
1.33			1.08		60			0.67	0.722	1.82		1.29	0.93
2.00			1.17		60			0.67	0.778	2.39		1.82	1.41
2.67			1.13		60			0.67	0.750	1.96		2.39	1.80
3.33			1.17		60			0.67	0.778	1.32		1.96	1.53
4.00			1.08		60			0.67	0.722	0.80		1.32	0.95
4.67			0.67		40			0.67	0.444			0.80	0.36
5.33				0.33				0.33	0.111			0.40	0.04
END													
													7.14

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8-17-43

Hughes diu
from Morgan Cr.
on Savage pier

Stat	depth	Rev	Sec
1	13	60	41.57 46.47
2	14		33.57 32.53
3	13 1/2		25.31 24.81
4	14.0		31.03 30.44
5	13		46.34 44.55
6	8	40	49.94
		40	50.1

Water clear one side vert or
Sloping bottom gravel but
relatively clear of vegetation
within a 30' straight stretch
Measurement Good

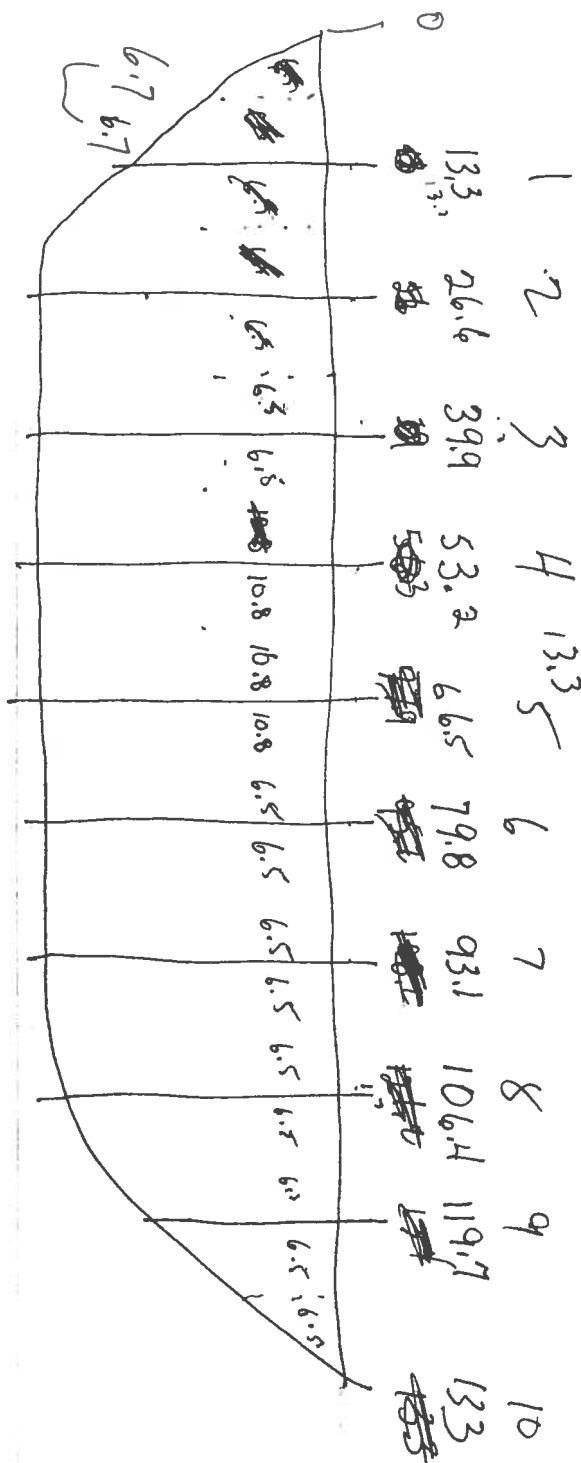
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9-1-93

Dalbert Hughes

Sander Ditch

Dalbert was with.



Stat	Depth	Rev	Sec
1	.3	0	
2	.7	16	1.02.8
3	1.1	60	53.5
4	1.1	60	53.3
5	1.1 1/2	60	49.3
6	1.2	60	49.7
7	1.	60	1.09.7
8	.7	40	1.00.0
9	.85	30	1.04.6

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NOV 01 1994

NAME OF STREAM OR DITCH SALMON RIVER; LOCALLY CALLED SANTEE DITCH
 LOCATION ----- APPROX 500 YARDS DOWNSTREAM FROM P/D
 PURPOSE OF MEASUREMENT --- ADJUDICATION REVIEW
 BASIS OF VELOCITY CALCULATIONS
 IF YOU ARE USING A PYGMY METER ENTER ----- 1
 IF YOU ARE USING A AA METER ENTER ----- 2
 ENTRY ----- = 1

WATER RIGHT NUMBER IF APPLICABLE ----- A72-04028, 04029; & SANTEE
 AGENT CONDUCTING MEASUREMENT & DATE -- KKC 9-01-93
 ACCOMPANIED BY ----- DELBERT HUGHES
 PREMEASUREMENT SPIN TEST (MIN/SEC) ---
 POST MEASUREMENT SPIN TEST (MIN/SEC) -

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

INITIAL POINT	ANGLE OF		DISTANCE FROM INIT PT	DEPTH IN FEET		CALC DEPTH END PTS	VELOCITY DATA			CALC AREA		CALCULATED VELOCITY			DISCHARGE IN CFS
	COEFFICIENT	INIT PT					1ST MEASUREMENT REVS	2ND MEASUREMENT REVS	TIME/SEC	WIDTH	SQ FT	1ST POINT VELOCITY	2ND POINT VELOCITY	MEAN VELOCITY	
0.00			0.15				0	0.0		0.55	0.083			0.00	0.00
1.11			0.30				16	62.8		1.11	0.333	0.25		0.25	0.20
2.22			0.70				60	53.6		1.11	0.776	1.12		1.12	1.36
3.33			1.10				60	49.4		1.11	1.219	1.12		1.12	1.37
4.43			1.15				60	49.7		1.11	1.275	1.22		1.22	1.55
5.54			1.20				60	69.7		1.11	1.330	1.21		1.21	1.60
6.65			1.00				40	60.0		1.11	1.108	0.86		0.86	0.95
7.76			0.70				40	64.7		1.11	0.776	0.67		0.67	0.52
8.87			0.85				30			1.11	0.942	0.46		0.46	0.44
9.98										0.55	0.236			0.23	0.05
11.08															
END															8.05

MICROFILMED
 NOV 01 1994

NAME OF STREAM OR DITCH SALMON RIVER; LOCALLY CALLED SANTEE DITCH
 LOCATION ----- APPROX 500 YARDS DOWNSTREAM FROM P/D
 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) -
 A72-04028, 04029; & SANTEE
 KKC 9-01-93
 DELBERT HUGHES

INITIAL POINT	ANGLE OF COEFFICIENT	DISTANCE FROM INIT PT	DEPTH IN FEET	CALC DEPTH END PTS	1ST MEASUREMENT REVS	VELOCITY DATA		CALC WIDTH	AREA IN SQ FT	CALCULATED VELOCITY			DISCHARGE IN CFS
						2ND MEASUREMENT TIME/SEC	TIME/SEC			1ST POINT VELOCITY	2ND POINT VELOCITY	MEAN VELOCITY	
0.00		0.00	0.80		0	0.0		0.55	0.222			0.00	0.00
1.11		1.11	1.20		16	62.8		1.11	0.887	0.25		0.25	0.00
2.22		2.22	1.60		60	53.6		1.11	1.330	1.12		1.12	0.34
3.33		3.33	1.60		60	53.4		1.11	1.773	1.12		1.12	1.99
4.43		4.43	1.60		60	49.4		1.11	1.773	1.22		1.22	2.22
5.54		5.54	1.65		60	49.7		1.11	1.829	1.21		1.21	2.27
6.65		6.65	1.70		60	69.7		1.11	1.884	0.86		0.86	1.43
7.76		7.76	1.50		60	60.0		1.11	1.663	0.67		0.67	0.89
8.87		8.87	1.20		40	64.7		1.11	1.330	0.46		0.46	0.69
9.98		9.98	1.35		30			1.11	1.496				0.09
11.08		11.08		0.68				0.55	0.374				
END													11.91

This analysis represents an additional 6" depth of ditch above the measured rate. The ditch has a capacity greater than the measured + the additional 6" but the 6" additional is closer to the high water level in the ditch. The system was measured late in the irrigation season and lower river water levels give a lower dimension without diversion structure work.
 KKC

diversion structure
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Claims A72-00148

A72-04028

A72-04177

A72-00147

A72-04030

System description:

The P/U can be segmented into 3 parcels with the Salmon River diversion ditch being the major Boundary through the middle of the P/U. The third parcel is ground laying SE of Morgan Creek. This ground is irrigated only with waste water from the Thornock Property (19A).

The balance of the P/U (75A above & 76A below the Sante is irrigated with Morgan Creek and/or Salmon River water. Both sources can irrigate all 151 acres.

Morgan Creek can be diverted at two different points. The NW P/D #1 is on the Savage property and irrigates the ground above the Santee Ditch (75A). Morgan creek flows through the Santee ditch at P/D #2 thus allowing any available ^{Morgan} water to reach any of the 76 Acres Below the ditch.

Salmon river water reaches the 76A below the ditch through the ditch system. The ⁷⁵ acres above the Santee ditch can be irrigated via water being pumped from the Santee ditch at the SW corner of The P/U and deliver to the headgate structure where the P/D #1 ditch system crosses Highway 93 & enters the P/U. The acres are then flood irrigated through the existing ditch system. The pump is ~~10~~ 10 HP with open discharge

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P/O # 1, Morgan Creek on Savage Property

Measured 7.14 CFS

P/O # 2 Morgan Creek where 'Santee' ditch crosses
Morgan Creek. *

Not measured at this point. The ditch carries
water measured @ P/O # 3 & if Salmon River water
was not being diverted then the Morgan Creek
water could be diverted at that rate.

Measured 8.05

P/O # 3 Salmon River, source for 'Santee' ditch

Measured 8.05 CFS, ditch Not at capacity
system measured 9-1-93 *

estimating an additional 6" depth for the same
velocity would generate 11.91 CFS at the same
measurement location.

System capacity for Morgan Creek & the Salmon
River diversions are greater than the excess flow
calculated rates therefore the calculations are the lim
factor.

Fish & Game measured the Santee ditch just
downstream from the Morgan Creek crossing and
found 12.9 CFS measurement made 11-13-1993
I accept this measurement as the system capacity
NOV 01 1994

FIELD EXAM ATTACHMENT

DATE: 1-10-94

PAGE: _____

AGENT: KKC

FILES: _____

POOR ORIGINAL

ATTACHMENT SUBJECT: Combined diversion Rate Analysis

Morgan Creek Water recommendation:	72-00147	1.60 CFS
	00148	0.40 CFS
excess flow analysis for	Sub total	2.00 CFS
151 acres gives a total	04177	11.23 CFS
of 13.23 CFS	total	13.23 CFS

Salmon River Water recommendation:	72-04028	7.21 CFS (Flow)
excess flows based upon RPI soils	-04029	1.60 CFS (Pump)
gives a rate of 7.21 CFS for 76 acres.	total	8.81 CFS

The 76 Salmon River acres are within the 151 total acres. When all rights are considered for all of the P/E the system limit is 13.23 CFS (legal limit)

When Salmon River water is used alone the limit is 8.81 CFS for the 151 acres this reflects the 7.21 CFS excess flow rate for 76 acres and the pump capacity of 1.60 CFS for the balance (75 acres).

Pump system theoretical.

$$\frac{10 \times 8.8 \times .7}{40 + (23 \times 0)} = 1.54 \text{ CFS} \quad \bigg/ \quad \frac{10 \times 8.8 \times .7}{38 + (23 \times 0)} = 1.62 \text{ CFS}$$

lift from quad map estimated to be approx 40'. as 38' lift theoretically gives the claimed rate. We recommend the claimed rate as valid.

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JUL 01 1994

REMARK AND CONDITION CODE WORKSHEET

SYSTEM CLAIM NUMBERS A72 00147 - 00148
04177 1

POOR ORIGINAL
AGENT

AGENT

INITIALS

DATE 1-10-94

[illegible]

001477 } Source Morgan Cr
00148 }
04177 }

04028 } Same Salmon River.
04029 } but using same delivery
system

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8-17

Delbert

Morgan { I/P/D on Savage Prop

{ I/P/D when Morgan Cr crosses Santa Fe ditch

P/D Salmon below Thorneck P/D,

Relift pump @ ~~Morgan Cr.~~ Santa Fe ditch entering prop

Thorneck

Morgan Cr. inside Savage Prop

P/P Salmon River water

Relift pump where Santa Fe joins Morgan Cr.

use =

Delbert

irr west P/u Morgan Cr - 10 days (with high water)

" East with Salmon 10 days (

no dry days.

Morgan Creek Cattle Co.

2 P/Ds

2 main ditches thru main field

14 day to cross (guess) may be closer to 10 days.

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04 NENW	04 NENE	04 NENE	04 NENE	03 NENW	03 NENE	03 NENE	03 NENE	02 NENW	02 NENE	02 NENE	02 NENE	01 NENW	01 NENE	01 NENE	01 NENE
04 SNNW	04 SENW	04 SENE	04 SENE	03 SNNW	03 SENW	03 SENE	03 SENE	02 SNNW	02 SENW	02 SENE	02 SENE	01 SNNW	01 SENW	01 SENE	01 SENE
04 NWSW	04 NESW	04 NWSE	04 NESE	03 NWSW	03 NESW	03 NWSE	03 NESE	02 NWSW	02 NESW	02 NWSE	02 NESE	01 NWSW	01 NESW	01 NWSE	01 NESE
04 SWSW	04 SESW	04 SWSE	04 SESE	03 SWSW	03 SESW	03 SWSE	03 SESE	02 SWSW	02 SESW	02 SWSE	02 SESE	01 SWSW	01 SESW	01 SWSE	01 SESE
09 NNNW	09 NENW	09 NNWE	09 NENE	10 NNNW	10 NENW	10 NNWE	10 NENE	11 NNNW	11 NENW	11 NNWE	11 NENE	12 NNNW	12 NENW	12 NNWE	12 NENE
09 SNNW	09 SENW	09 SNNW	09 SENE	10 SNNW	10 SENW	10 SNNW	10 SENE	11 SNNW	11 SENW	11 SNNW	11 SENE	12 SNNW	12 SENW	12 SNNW	12 SENE
09 NWSW	09 NESW	09 NWSE	09 NESE	10 NWSW	10 NESW	10 NWSE	10 NESE	11 NWSW	11 NESW	11 NWSE	11 NESE	12 NWSW	12 NESW	12 NWSE	12 NESE
09 SWSW	09 SESW	09 SWSE	09 SESE	10 SWSW	10 SESW	10 SWSE	10 SESE	11 SWSW	11 SESW	11 SWSE	11 SESE	12 SWSW	12 SESW	12 SWSE	12 SESE
16 NNNW	16 NENW	16 NNWE	16 NENE	15 NNNW	15 NENW	15 NNWE	15 NENE	14 NNNW	14 NENW	14 NNWE	14 NENE	13 NNNW	13 NENW	13 NNWE	13 NENE
16 SNNW	16 SENW	16 SNNW	16 SENE	15 SNNW	15 SENW	15 SNNW	15 SENE	14 SNNW	14 SENW	14 SNNW	14 SENE	13 SNNW	13 SENW	13 SNNW	13 SENE
16 NWSW	16 NESW	16 NWSE	16 NESE	15 NWSW	15 NESW	15 NWSE	15 NESE	14 NWSW	14 NESW	14 NWSE	14 NESE	13 NWSW	13 NESW	13 NWSE	13 LT01
16 SWSW	16 SESW	16 SWSE	16 SESE	15 SWSW	15 SESW	15 SWSE	15 SESE	14 SWSW	14 SESW	14 SWSE	14 SESE	13 SWSW	13 SESW	13 SWSE	13 LT02
21 NNNW	21 NENW	21 NNWE	21 NENE	22 NNNW	22 NENW	22 NNWE	22 NENE	23 NNNW	23 NENW	23 NNWE	23 NENE	24 NNNW	24 NENW	24 LT02	24 LT03
21 SNNW	21 SENW	21 SNNW	21 SENE	22 SNNW	22 SENW	22 SNNW	22 SENE	23 SNNW	23 SENW	23 SNNW	23 SENE	24 SNNW	24 SENW	24 LT03	24 LT04
21 NWSW	21 NESW	21 NWSE	21 NESE	22 NWSW	22 NESW	22 NWSE	22 NESE	23 NWSW	23 NESW	23 NWSE	23 NESE	24 NWSW	24 NESW	24 LT04	24 LT05
21 SWSW	21 SESW	21 SWSE	21 SESE	22 SWSW	22 SESW	22 SWSE	22 SESE	23 SWSW	23 SESW	23 SWSE	23 SESE	24 LT07	24 LT08	24 LT09	24 LT10
28 NNNW	28 NENW	28 NNWE	28 NENE	27 NNNW	27 NENW	27 NNWE	27 NENE	26 NNNW	26 NENW	26 NNWE	26 NENE	25 LT04	25 LT03	25 LT01	25 NENE
28 SNNW	28 SENW	28 SNNW	28 SENE	27 SNNW	27 SENW	27 SNNW	27 SENE	26 SNNW	26 LT03	26 LT02	26 LT01	25 LT06	25 SNNW	25 SENE	25 SENE
28 NWSW	28 NESW	28 NWSE	28 NESE	27 NWSW	27 NESW	27 NWSE	27 NESE	26 LT04	26 SNNW	26 LT06	26 LT05	25 NWSW	25 NESW	25 NWSE	25 NESE
28 SWSW	28 SESW	28 SWSE	28 SESE	27 SWSW	27 SESW	27 SWSE	27 SESE	26 LT08	26 LT07	26 SWSE	26 SESE	25 SWSW	25 SESW	25 SWSE	25 SESE
33 NNNW	33 NENW	33 NNWE	33 NENE	34 NNNW	34 NENW	34 NNWE	34 NENE	35 LT03	35 NNNW	35 NNWE	35 NENE	36 NNNW	36 NENW	36 NNWE	36 NENE
33 SNNW	33 SENW	33 SNNW	33 SENE	34 SNNW	34 SENW	34 SNNW	34 SENE	35 LT01	35 LT03	35 SENW	35 SNNW	36 SNNW	36 SENW	36 SNNW	36 SENE