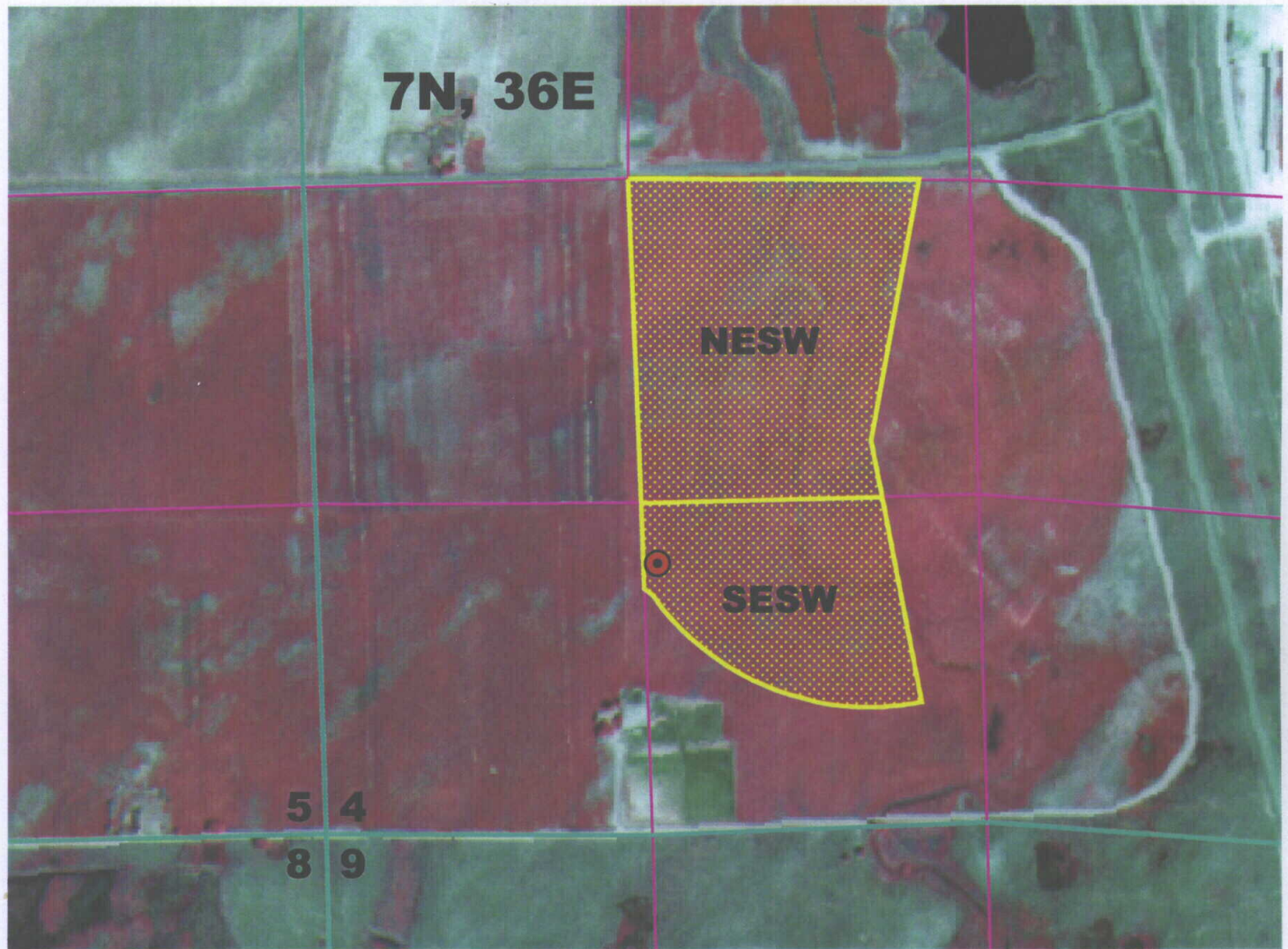




STATE OF IDAHO

Department of Water Resources
Eastern Region

Water Right(s): 31-04024



1320 0 1320 Feet

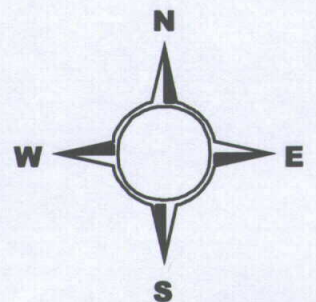
Total Irrigated Acres: 48

● Point of Diversion

Place of Use

Quater Quarter

Sections

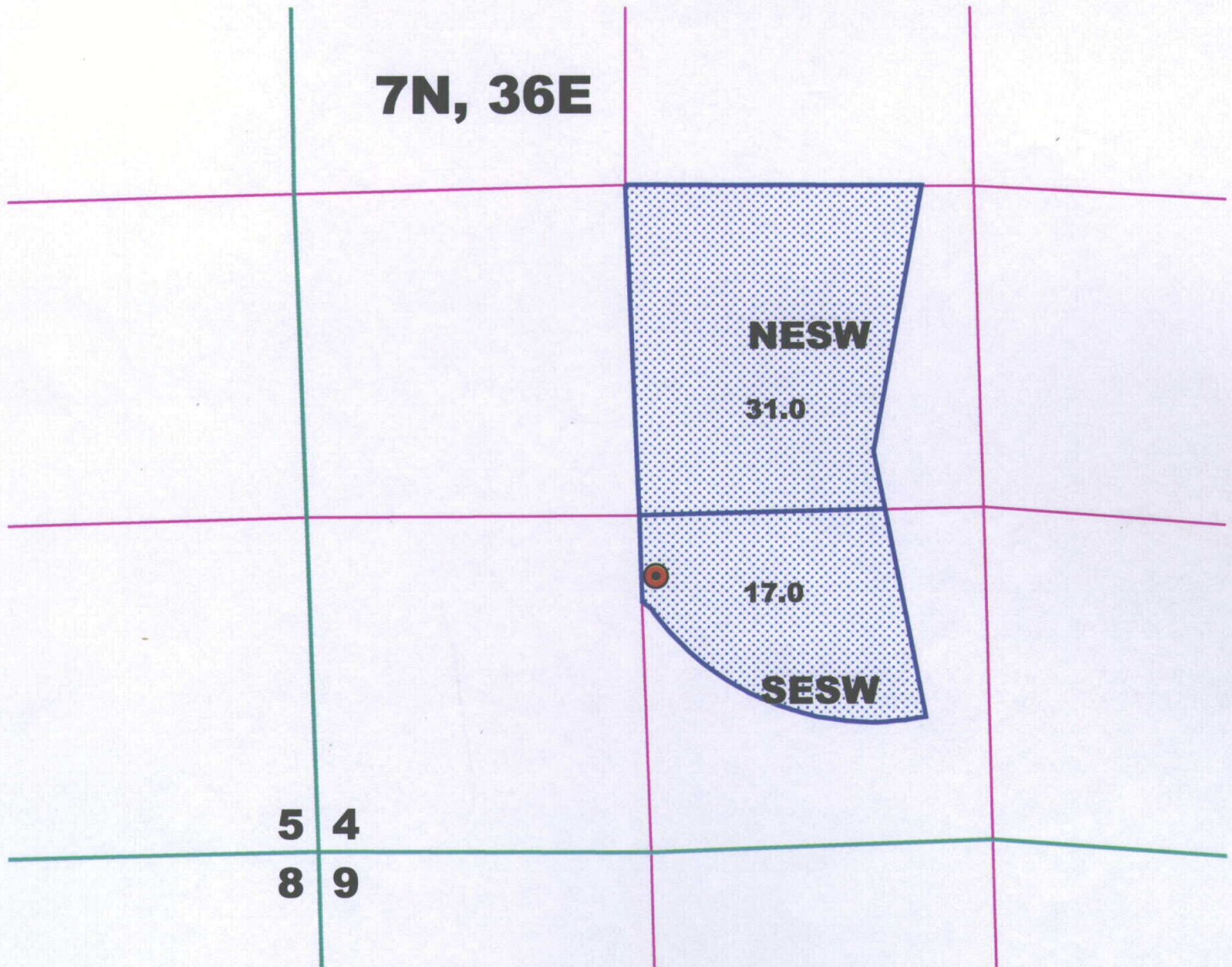


GIS Place of Use Illustration
1987/1988 NAPP photography
Prepared by: C. Saxton
Date: September 2000

WR#: 31-04024

Loyd D Gasser

7N, 36E



Total Irrigated Acres: 48

Acreage Distribution

Prepared by: Craig Saxton
September 2000

11/21/2000

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

RIGHT NUMBER: 31-4024

NAME AND ADDRESS: LOYD L GASSER
2303 E 2800 N
HAMER, ID 83425

SOURCE: GROUND WATER

QUANTITY: 1.7 CFS
168 AFY

USE OF THIS RIGHT WITH RIGHT NO. 31-11409 IS LIMITED TO A
TOTAL COMBINED DIVERSION RATE OF 1.70 CFS.

PRIORITY DATE: 03/20/1940

POINT OF DIVERSION: T07N R36E S4 NWSESW Within JEFFERSON County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	04-01 10-31	1.70 CFS 168.0 AFY

PLACE OF USE:

IRRIGATION Within JEFFERSON
County

T07N R36E S4	NESW	31	T07N R36E S4	SESW	17
--------------	------	----	--------------	------	----

48 ACRES TOTAL

USE OF THIS RIGHT WITH RIGHT NO. 31-11409 IS LIMITED TO THE
IRRIGATION OF A COMBINED TOTAL OF 84.5 ACRES IN A SINGLE
IRRIGATION SEASON.

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

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

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

RIGHT INCLUDES ACCOMPLISHED CHANGE IN PLACE OF USE PURSUANT
TO SECTION 42-1425, IDAHO CODE.

RIGHT NO. 31-11409 IS AN ENLARGEMENT OF THIS RIGHT PURSUANT
TO SECTION 42-1426, IDAHO CODE.

IDAHO DEPARTMENT OF WATER RESOURCES
Adjudication Recommended Right Report

WATER RIGHT NO. 31-4024

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	LOYD L GASSER HAMER, ID 83425 (208)662-5429

Priority Date: 03/20/1940
Basis: Beneficial Use
Status: Valid

<u>Source</u>	<u>Tributary to</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/01	10/31	1.7 CFS	168 AFA	
Total Diversion			1.7 CFS	168 AFA	

Point(s) of Diversion:

Township	Range	Section	1/4 of 1/4 of 1/4	Lot	County
07N	36E	4	NW SE SW		JEFFERSON

IRRIGATION Use:
Acre Limit: 48

Place(s) of use:

Place of Use Legal Description: IRRIGATION JEFFERSON County

<u>Township</u>	<u>Range</u>	<u>Section</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>
07N	36E	4		NESW	31		SESW	17						

Total Acres: 48

Conditions of Approval:

1. C18 THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE ENTRY OF A FINAL UNIFIED DECREE. SECTION 42-1412(6), IDAHO CODE.
2. C05 RIGHT INCLUDES ACCOMPLISHED CHANGE IN PLACE OF USE PURSUANT TO SECTION 42-1425, IDAHO CODE.

Remarks:

1. Place of Use - Irrigation USE OF THIS RIGHT WITH RIGHT NO. 31-11409 IS LIMITED TO THE IRRIGATION OF A COMBINED TOTAL OF 84.5 ACRES IN A SINGLE IRRIGATION SEASON.
2. Explanatory RIGHT NO. 31-11409 IS AN ENLARGEMENT OF THIS RIGHT PURSUANT TO SECTION 42-1426, IDAHO CODE.
3. Quantity USE OF THIS RIGHT WITH RIGHT NO. 31-11409 IS LIMITED TO A TOTAL COMBINED DIVERSION RATE OF 1.70 CFS.

Dates:
Licensed Date:

Claim Received Date: 01/11/1989
 Enlargement Use Priority Date:
 Enlargement Statute Priority Date:
 Decreed Date:
 Date Filed with Court:
 Objection Filed Date:
 SF5 Filed:
 Special Master Recom Signed Date:

Element Reviewed/Verified Dates:

Element	Last Review Date	Reviewer	Last Verified Date	Verifier	Status
Contacts	9/14/00 4:21:51 PM	csaxton			In Process
POD	9/14/00 4:31:23 PM	csaxton			In Process
POU	9/14/00 4:50:41 PM	csaxton			In Process
Priority Date	9/14/00 4:24:17 PM	csaxton			In Process
Quantity	9/14/00 4:59:00 PM	csaxton			In Process
Season	9/14/00 4:54:18 PM	csaxton			In Process
Source	9/14/00 4:47:10 PM	csaxton			In Process
Summary	9/14/00 5:19:35 PM		9/14/00 5:19:35 PM	csaxton	Complete
	9/14/00 5:07:01 PM		9/14/00 5:07:01 PM	csaxton	Complete
Use	9/14/00 4:48:00 PM	csaxton			In Process

Other Information:

Receipt Number(s):
 State or Federal: S
 Owner Name Connector:
 Overall Max Diversion Rate: 1.7
 Overall Max Diversion Volume: 168
 Generic Max Rate per Acre:
 Generic Max Volume per Acre:
 Civil Case Number:
 Old Case Number:
 Decree Plaintiff:
 Decree Defendant:
 PresumptionFlag:
 Notice of Error Flag:
 Swan Falls Trust or Nontrust:
 Swan Falls Dismissed:
 DLE Act Number:
 Cary Act Number:
 Mitigation Plan: False

Verification Log:

Element	Date Time Stamp	Reviewer	Log Text
Contacts	9/14/00 4:21:50 PM	csaxton	1. Appointment has not been scheduled. Comment for 1: Already met with him.
POD	9/14/00 4:36:29 PM	csaxton	Edited point location
POD	9/14/00 4:31:21 PM	csaxton	1. (YES) The basis is beneficial use. 4. (NO) There is not evidence that there has been a change in the Point of Diversion. 6. (YES) The file contains all the necessary information to verify the POD. Comment for 6: Field Exam 8. (YES) Point of Diversion remark was required. 9. (NO) Point of Diversion condition was not required.
POU	9/14/00 4:50:39 PM	csaxton	1. (YES) The POU is required. 2. (YES) The basis of claim is beneficial use. 5. (YES) There is evidence that there has been a change in the POU. 6. (NO) The change can not be verified as an accomplished transfer. 7. (YES) The change is an enlargement of the POU. Comment for 7: 1987 NAAP photography 8. (YES) An enlargement claim was filed. 9. (YES) The file contains all the necessary information to verify the POU. Comment for 9: Field Exam, NAAP photography, 1960 ASCS overflights 12. (NO) POU remark was not required. 13. (NO) POU condition was not required.
Priority Date	9/14/00 4:24:15 PM	csaxton	1. (NO) There has not been a later court decree of the water right(s) from the water source.

Quantity	9/14/00 4:58:58 PM	csaxton	4. (YES) The basis of claim is beneficial use. 4b. (NO) The priority date was not claimed after the date a permit was required for the source and water use. 10. (YES) The claim file contains sufficient evidence of priority date. 12. (YES) The claim is recommended. 13. (YES) The claim is coded correctly. 14. (NO) Priority remark was not required. 15. (NO) Priority condition was not required. 1. (YES) The basis of claim is beneficial use. 5. (NO) A flow measurement was not required. Comment for 5: Water Measurement District Records 6. (YES) The source is ground water and the purpose of use requires a diversion volume limit. 8. (YES) Irrigation is a purpose of use. Comment for 8: Hubble analysis done by Cindy Bird indicated that historical irrigation practices required 4 inches to the acre, due to soil type. Since current well capacity is 0.035 cfs, I will recommend well capacity. 9. (NO) Quantity remark was not required. 10. (NO) Quantity condition was not required.
Season	9/14/00 4:54:16 PM	csaxton	1. (YES) The basis of claim is beneficial use. 4. (NO) There is not evidence that there has been a change to the period of use. 9. (YES) The file contains all the necessary information to verify the period of use. 11. (NO) The basis of is not a decree, license, or a transferred beneficial use right that has had the period of use administratively determined. 13. (YES) Irrigation is the purposed use. 15. (NO) Period of Use remark was not required. 16. (NO) Period of Use condition was not required.
Source	9/14/00 4:47:08 PM	csaxton	1. (YES) The basis is beneficial use. 4. (NO) There is not evidence that there has been a change in the Source. 7. (YES) The file contains all of the necessary information to verify the source. Comment for 7: Field Exam and affidavit. 8. (NO) The source is not surface water. 10. (NO) Source remark was not required. 11. (NO) Source condition was not required.
Summary	9/14/00 5:19:33 PM	csaxton	1. (YES) The basis of the claim is beneficial use. 2. (YES) All the water being used for all the purposes is being claimed and to the extent it was claimed. 5. (NO) General remark was not required. 6. (NO) Explanatory remark was not required. 7. (YES) Additional condition was required. 8. (YES) Wanted to view the recommended right. 9. (NO) This is not a split right. 10. (NO) This is not a combined right. 11. (NO) Documents were not linked or attached to this file. 12. (YES) Set the verification date.
Summary	9/14/00 5:06:34 PM	csaxton	1. (YES) The basis of the claim is beneficial use. 2. (YES) All the water being used for all the purposes is being claimed and to the extent it was claimed. 5. (NO) General remark was not required. 6. (NO) Explanatory remark was not required. 7. (NO) Additional condition was not required. 8. (YES) Wanted to view the recommended right. 9. (NO) This is not a split right. 10. (NO) This is not a combined right. 11. (NO) Documents were not linked or attached to this file. 12. (YES) Set the verification date.
Use	9/14/00 4:47:59 PM	csaxton	1. (YES) The basis of claim is beneficial use. 4. (NO) There is not evidence that there has been a change to the purpose of use. 9. (YES) The file contains all the necessary information to verify the purpose of use. 11. (NO) Purpose of Use remark was not required. 12. (NO) Purpose of Use condition was not required.



AJ0749NP
No. A31-04024

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM PROFILE REPORT
(REGIONAL)

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE
C	LOYD L GASSER HAMER ID 83425 (208) 662-5429	03/20/1940	IRRIGATION	04-01 11-01	1.700 CFS
TOTAL DIVERSION:					1.700 CFS

Water Source: GROUNDWATER

Tributary to:

Stage: STA

Point(s) of Diversion: T07N R36E S04

NWSESW

JEFFERSON C

Place of use Legal Description for: IRRIGATION

				NE				NW				SW				SE							
T	R	S	:	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac		
07N	36E	4	:																				
												40				15				20 10			
																				TOTAL ACRES			

POU County: JEFFERSON

Non-Irrigation Uses: NONE

Other Rights: NONE

Remarks: GEN ITEM 5 - HISTORICALLY, 50' WELL, 14' SWL, 10" CASING, 15HP CENT. PUMP AND MOTOR TO IRRIGATION DITCHES. IN APRIL, 1978 REPLACED WITH A 50HP VERTICLE TURBINE PUMP AND PRESSURIZED CENTER PIVOT. EXTREME CORNER OF THE NW1/4 SE1/4, SEC. 4 IS IRRIGATED WHEN PIVOT IS NOT IN USE, BY OTHER MEANS.
***** CODED FROM PAPER CLAIM *****

Dates: Exam Made Date: Verified Date: 05/06/1986 Objection Filed Date:

Misc: Water District Number: 31 Field Inspection Flag:
Presumption Flag:

WR0749NP
No. 31-04024

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 05/08/00
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	LOYD L GASSER 2303 E 2300 N HAMER ID 834250000 (208) 662-5429	03/20/1940	IRRIGATION	04/15 10/15	1.700 CFS	297.50 AFA
TOTAL DIVERSION:					1.700 CFS	297.50 AFA

Water Source: GROUNDWATER

Tributary to:

Stage: STATUTORY CLAIM

Point(s) of Diversion: T07N R36E S04 SESW JEFFERSON County
S05 SESE JEFFERSON County

Place of use Legal Description for: IRRIGATION

NE				NW				SW				SE				
T	R	S	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	SUM		
07N	36E	4	:	:	:	40	:	40	:	20	35	:	135.0			
TOTAL ACRES													135.0			

Pou County: JEFFERSON

Other Water Rights with Same Point(s) of Diversion with Stage (Includes All Sources):
31-04023 31-04025 31-07082 31-07290

Other Water Rights Listing Overlapping Place(s) of use:
31-04023 31-07290 31-07440

Conditions of Approval:

- R30 - This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 3.5 afa per acre for irrigation of the lands above.
- T07 - The right holder shall accomplish the change authorized by this transfer within one (1) year of the date of this approval.
- T08 - Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
- T09 - Approval of this transfer does not preclude the opportunity for review of the validity of the water right(s) in the ongoing Snake River Basin Adjudication.
- T17 - Prior to diversion of water under this approval, the right holder shall provide a means of measurement acceptable to the Department from all authorized points of diversion which will allow determination of the total rate of diversion.
- 01M - After specific notification by the department, the right holder shall install a suitable measuring device or shall enter into an agreement with the department to determine the amount of water diverted from power records and shall annually report the information to the department.

Remarks: GEN The total instantaneous diversion of water from all points of

Remarks: diversion under Transfer No. 4350 shall not exceed 2.34 cfs,
nor total combined annual volume of 409.2 af.
Combined Right Nos. 31-04023, 31-04024 and 31-07290 are limited
to a total combined irrigation of 115 acres in the place of use
described above in a single irrigation season.
Right No. 31-04024 is limited to the irrigation of 85 acres in
the place of use described above in a single irrigation season.

Dates: App. Received: Priority Date: 03/20/1940
Proof Due Date: Proof Made Date:
Exam Made Date: Exam Sent to S.O.:
Licensed Date:

Misc: Water District Number: 31 Field Exam Fee:

Comments: Date: 05/02/1994 User-ID: BODELL Subject: TRANSFER NO. 4350
AN EXISTING WELL 1/4 MILE TO THE WEST OF LISTED WELL IS A MORE
RELIABLE SOURCE OF WATER.
Transfer No. 4350 adds a point of diversion and changes the place
of use under right Nos. 31-04023/4024 & 7290. The QQ is also
changed on the recorded point of diversion under Right No.
31-04023. The change in place of use reflects a single combined
system with a permissible place of use. (Updated 11-23-94 Skaggs)

Audit: 05/06/86 05/22/88 CONVERT 05/02/94 BODELL 11/23/94 PSKAGGS

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: A31-04024
Date Received: 1/26/1989
Receipt No: E005478
Received By: C. L. L. L.

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: LOYD L. GASSER 208-662-5429
Address: HAMER, ID 83425

2. Date of Priority: MAR 20, 1940

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
07N	36E	4	NW	SE	SW		JEFFERSON

5. Description of diverting works:
SEE REMARKS

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	1.700		

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

8. Total consumptive use is Acre Feet Per Annum.

9. Non-irrigation uses:
NONE

10. Place of Use:

Township	Range	Section	1/4 of	1/4 of	Lot	Use	Acres
07N	36E	4	NE	SW		IRR	40.0
			SE	SW		IRR	15.0
			NW	SE		IRR	20.0

A31-04024

Page 1

Date: 01/26/89

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10. Place of Use: Continued

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
07N	36E	4	SW	SE		IRR	10.0
Section Acres							85.0
Total Acres							85.0

11. Place of use in counties: JEFFERSON

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

13. Other Water Rights Used:
NONE

14. Remarks:

ITEM 5 - HISTORICALLY, 50' WELL, 14' SWL, 10" CASING, 15HP CENT. PUMP AND MOTOR TO IRRIGATION DITCHES. IN APRIL, 1978 REPLACED WITH A 50HP VERTICLE TURBINE PUMP AND PRESSURIZED CENTER PIVOT. EXTREME CORNER OF THE NW1/4 SE1/4, SEC. 4 IS IRRIGATED WHEN PIVOT IS NOT IN USE, BY OTHER MEANS.
***** CODED FROM PAPER CLAIM *****

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): _____ Date: _____

_____ Date: _____

State of Idaho)
County of _____) SS.

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

of _____ 19 _____

Notary Public

Seal

Residing at _____

My Commission Expires _____

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

AS1-04024

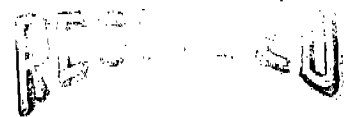
Date Received

11-28-88

Receipt Number

E005478

NOTICE OF CLAIM
TO A
WATER RIGHT
ACQUIRED UNDER STATE LAW



JAN 10 1989

Department of Water Resources
Eastern District Office

Please type or print clearly

1. Name of Claimant (s) Loyd L. Gasser Phone (208) 662-5429Mailing Address Hamer, Idaho Zip 834252. Date of Priority (Only one (1) per claim) MAR. 20, 19403. Source of water supply (a) ground water
which is tributary to (b) _____4. a. Location of existing point of diversion is: Township 7N Range 36E Section 4,
NW 1/4 of SE 1/4 of SW 1/4, Govt. Lot, _____ B.M., County of _____

Additional points of diversion if any: _____

b. 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.

Historically, 50' deep well,
14' SWL, 10" casing, 15 Hp centrifugal pump and motor,
and irrigation ditches.

Apr 1978:

Replaced with a 50 Hp verticle turbine pump and pressurized
center pivot sprinkler system. Extreme corner of
Sec. 4 is irrigated when pivot is not in use, by other
means.

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6. Water is claimed for the following purposes:

(both dates are inclusive)

(cfs)

(acre feet)

For Irrigation purposes from Apr. 1 to Nov. 1 amount 1.7 or _____

For _____ purposes from _____ to _____ amount _____ or _____

For _____ purposes from _____ to _____ amount _____ or _____

For _____ purposes from _____ to _____ amount _____ or _____

7. Total quantity claimed (a) 1.7 (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.) _____

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	
7N	36E	4									40			15		20	10		85

Total number of acres irrigated 85

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

12. Do you own the property listed above as place of use? Yes X 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.
_____ or None ()

14. Remarks:

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NOV 17 1992

Last Name Gasser Ident No. _____

Copies: White -State, Yellow-Claimant

Scale: 2 inches equals 1 mile

A 20x20 grid with handwritten notes. The notes include "R 3 1/2 E" in the 4th row, 6th column; "4" in the 5th row, 6th column; "T 7 N" in the 6th row, 3rd column; and "PD" with an arrow pointing left in the 6th row, 5th column.

NOV 17 1992

Copies: White-State, Yellow-Claimant

15. Basis of Claim (check one) Beneficial Use X Posted Notice _____ License _____ Permit _____

Decree _____

If applicable provide IDWR Water Right Number 31 4024

Court _____ Case Number _____ Decree Date _____

Plaintiff vs Defendant _____

16. Signature (s)

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

Number of attachments _____

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

Signature of Claimant (s) _____ Date _____

_____ 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 Lloyd L. Gasser

Title and Organization _____ Date 11-28-88

State of Idaho/or _____)

County of Bonneville) SS.

Subscribed and sworn (or affirmed) before me this 28th day of Nov 19 88

SEAL

Notary Public Betty J. Thompson

Residing at Idaho Falls

My Commission Expires 6-94

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 17 1992

Last Name Gasser Ident. Number _____

Copies White-State, Yellow-Claimant

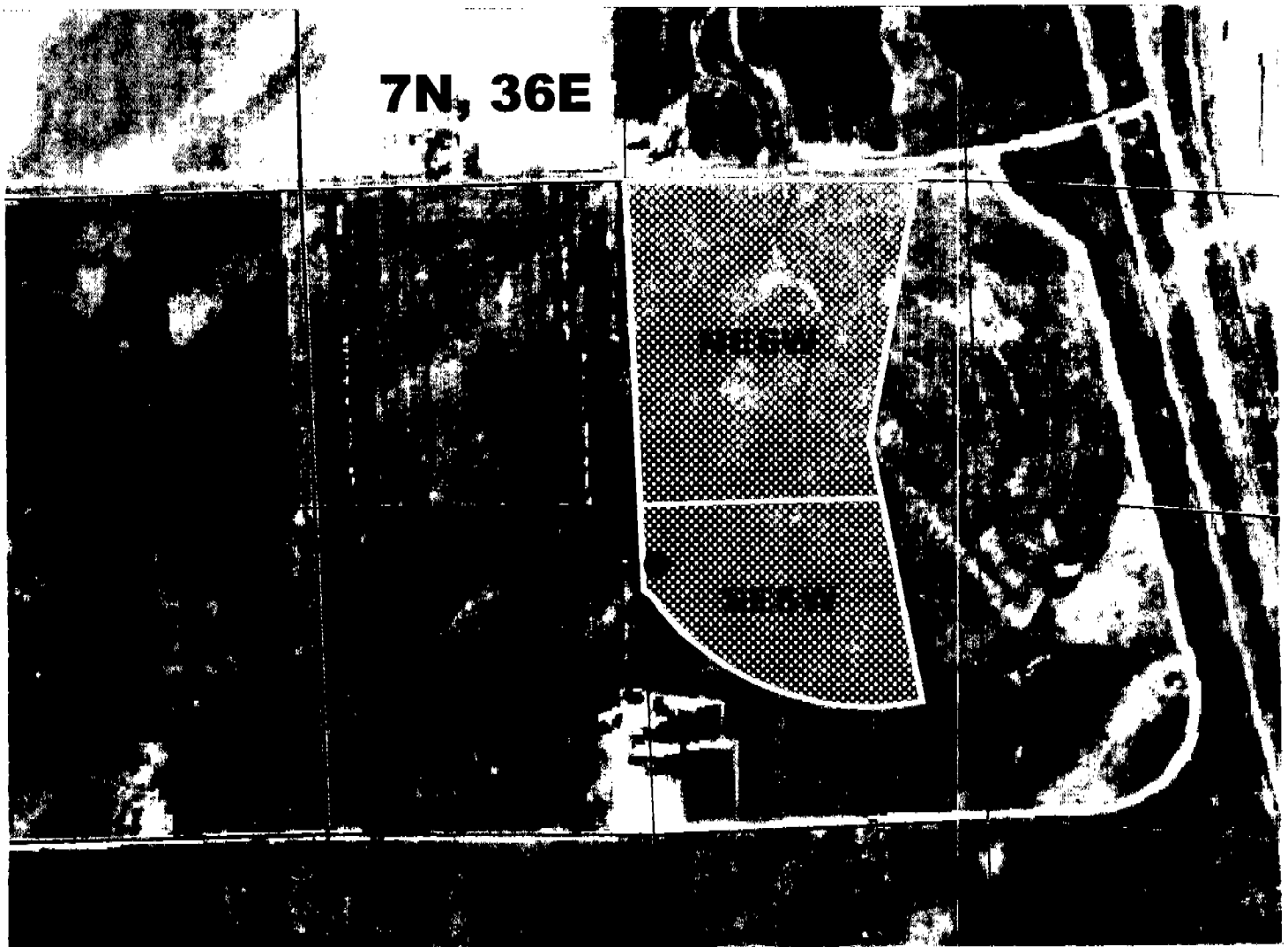


STATE OF IDAHO

Department of Water Resources

Eastern Region

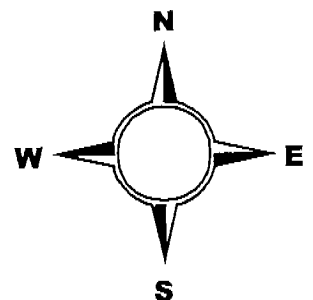
Water Right(s): 31-04024



1320 0 1320 Feet

Total Irrigated Acres: 48

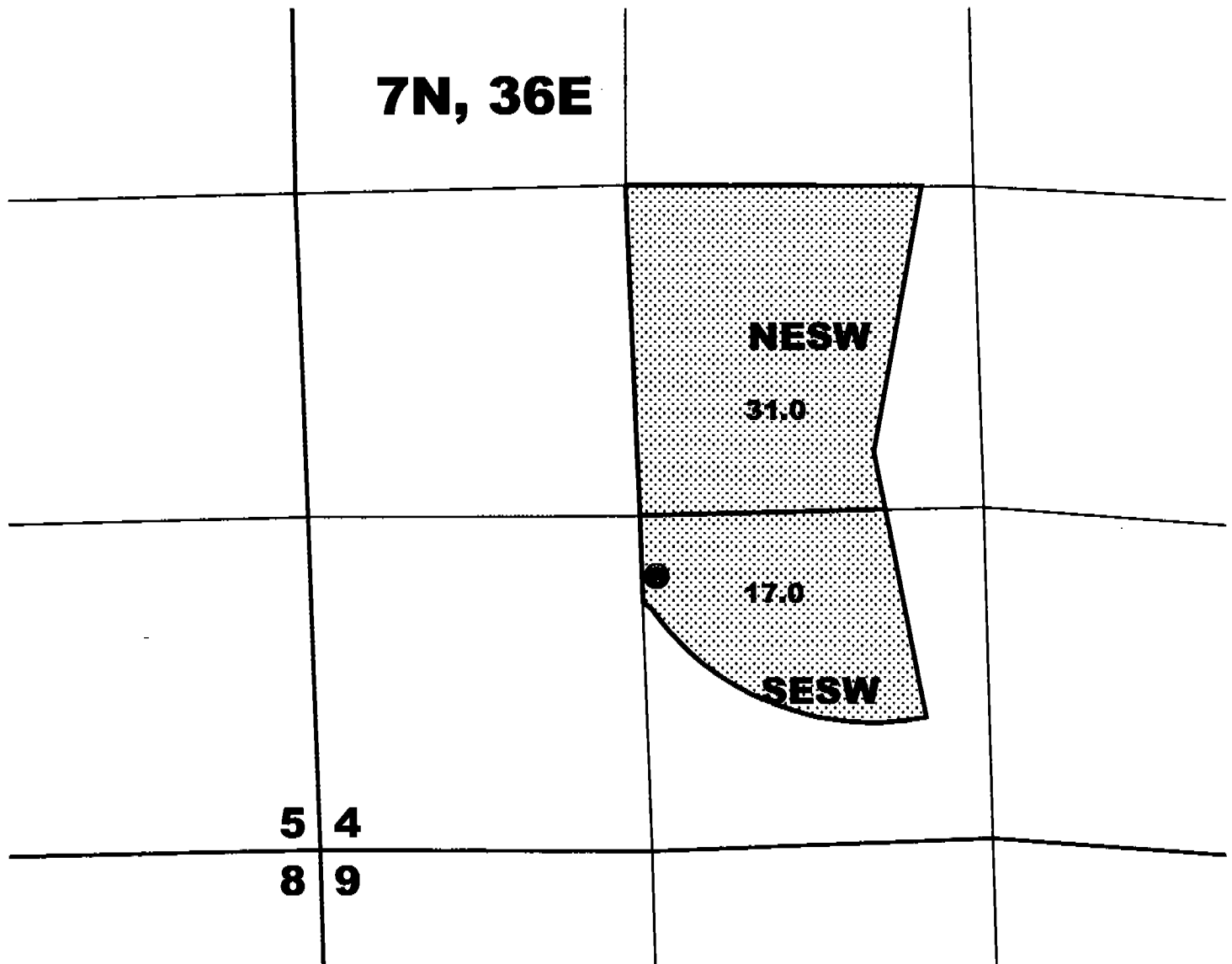
- Point of Diversion
- Place of Use
- Quater Quarter
- Sections



GIS Place of Use Illustration
1987/1988 NAPP photography
Prepared by: C. Saxton
Date: September 2000

WR#: 31-04024

Loyd D Gasser



Total Irrigated Acres: 48

Acreage Distribution

Prepared by: Craig Saxton
September 2000

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

PAGE: 1
GENERAL INFORMATION

CLAIM NUM

LAST: GASSER FIRST: LOYD L
ADDRESS:
CITY: HAMER STATE: ID ZIP: 83425
PHONE NUMBER: 208-662-5429
OWNER CODE: C

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

CLAIM REMARKS: GEN ITEM 5 - HISTORICALLY, 50' WELL, 14' SW, 10' CASING, 15HP CENT. PUMP AND MOTOR TO IRRIGATION DITCHES. IN APRIL, 1978 REPLACED WITH A 50HP VERTICLE TURBINE PUMP AND PRESSURIZED CENTER PIVOT. EXTREME CORNER OF THE NW1/4 SE1/4, SEC. 4 IS IRRIGATED WHEN PIVOT IS NOT IN USE, BY OTHER MEANS.
***** CODED FROM PAPER CLAIM *****

FIELD EXAMINATION INFORMATION

CONTACT PERSON: Loyd Gasser PHONE NUMBER: () -
DATE OF FIELD EXAM: / / APPOINTMENT MADE: Y() N() TIME: : A() P()
ACCOMPANIED BY: PHONE NUMBER: () -
RELATIONSHIP TO CLAIMANT:
DIRECTIONS TO PROPERTY / NOTES:

Not Following TR 4350 because TR did not evaluate H.
Irrigation Practices

- A. AJ CLAIM: # A31-04024 PRIORITY DATE: 03-20-1940 STAGE: S
- B. WR RECORD: # 31-04024 PRIORITY DATE: 03-20-1940 STAGE: S
- C. CAN THE PRIORITY DATE CLAIMED BE CONFIRMED BY A DECREE OR LICENSE? Y() N()
- D. HAS THERE BEEN A LATER COURT DECREE OF THE WATER RIGHT(S) FROM THIS WATER SOURCE? Y() N()
- E. IS THERE ANY INDICATION THAT THERE HAS BEEN A FIVE YEAR PERIOD OF CONTINUOUS NONUSE?
(IF YES, DESCRIBE BELOW) Y() N()
- F. IF THIS CLAIM IS BASED ON A PERMIT, WHERE IS THE PERMIT IN THE LICENSING PROCESS?
- PROOF OF BENEFICIAL USE SUBMITTED N/A() Y() N()
- FIELD EXAM COMPLETED N/A() Y() N()
- FIELD EXAM SENT TO STATE OFFICE N/A() Y() N()
- LICENSE ISSUED N/A() Y() N()
- * IF THE PERMIT WILL NOT BE LICENSED PRIOR TO THE DIRECTOR'S REPORT,
USE CONDITION CODE A01 AND RECOMMEND AS PERMITTED.
- G. IF THIS CLAIM IS BASED ON BENEFICIAL USE, IS ADDITIONAL EVIDENCE
OF THE PRIORITY DATE REQUIRED? N/A() Y() N()
- * FOR CLAIMS BASED ON BENEFICIAL USE, DESCRIBE THE EVIDENCE OF PRIORITY SUBMITTED,
INCLUDING THE ANALYSIS OF THE EVIDENCE.
- H. IS THE STAGE OF THE CLAIM CODED CORRECTLY? Y() N()

NOTES: _____

=====

RECOMMENDED PRIORITY DATE:

REVIEWED BY _____

DATE _____

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	POD FLAG	COUNTY	DIVERSION NAME
A31-04024	07N	36E	4	NW	SE	SW			JEFFERSON	
OTHER AJ CLAIMS WITH SAME AJ POD								WR RECORDS IN SAME 40 ACRE TRACT		
A PREFIX				R PREFIX						
A31-04023				31-04025				31-04023		
A31-04025								31-04025		
A31-07290								31-07290		

SOURCE: GROUNDWATER

TRIB:

B. WR POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	POD FLAG	COUNTY	DIVERSION NAME
31-04024	07N	36E	4		SE	SW			JEFFERSON	
31-04024	07N	36E	5		SE	SE			JEFFERSON	
OTHER WR RECORDS WITH SAME WR POD								AJ CLAIMS IN SAME 40 ACRE TRACT		
				A PREFIX				R PREFIX		
31-04023				A31-04023				31-04025		
31-04025				A31-04025				31-10676		
31-07082				A31-07082						
31-07290				A31-07290						
				A31-10676						

SOURCE: GROUNDWATER

TRIB:

- C. IS THE CLAIMED POD WITHIN THE SAME 40 ACRE TRACT THAT IS DESCRIBED IN THE WATER RIGHT FILE? N/A() Y
- * IF NO, AND IF THE CHANGE IS VERIFIED AS AN ACCOMPLISHED CHANGE IN POD, DESCRIBE THE INJURY ANALYSIS PERFORMED AND ENTER FLAG 'C' WITH THE APPROPRIATE EXPLANATORY CODE.
- D. CAN THE CLAIMED POD BE VERIFIED USING THE WATER RIGHT FILE OR GPS DATA? N/A() Y
- E. SHOULD THE CLAIMED POD BE VERIFIED BY FIELD EXAM? Y
- F. IS THE CLAIMED SOURCE THE SAME AS DESCRIBED IN THE WATER RIGHT FILE? N/A() Y
- * IF NO, AND IF THE CHANGE IS VERIFIED AS AN ACCOMPLISHED CHANGE IN SOURCE, DESCRIBE THE INJURY ANALYSIS PERFORMED AND ENTER FLAG 'C' WITH THE APPROPRIATE EXPLANATORY CODE.
- G. CAN THE CLAIMED SOURCE BE VERIFIED USING THE WATER RIGHT FILE? Y
- H. SHOULD THE CLAIMED SOURCE BE VERIFIED BY FIELD EXAM? Y

I. HOW WAS THE POD AND SOURCE VERIFIED?

LICENSING FIELD EXAM (DATE OF FIELD EXAM _____)

AJ FIELD EXAM (DATE OF FIELD EXAM _____ NAME OF EXAMINER _____) Y

OTHER (DESCRIBE IN NOTES BELOW)

NOTES: _____

=====

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

TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	POD FLAG	COUNTY	DIVERSION NAME
07N	36E	4	NW	SE	SW			JEFFERSON	
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---

SOURCE: GROUNDWATER

TRIR:

REVIEWED BY: _____

DATE: _____

=====

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

PAGE: 5
 PLACE OF USE REVIEW SHEET

CLAIM NUMBER

A. ROOT WATER RIGHT NUMBERS: A31-04024

B. POOL LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA
07N	36E	4	NE	SW		GASSER, LOYD L	A31-04024 / 40.0	31-04024 / 40.0	40.0
			NE	SW		GASSER, LOYD L		31-04023 / 40.0	
			NE	SW		GASSER, LOYD L		31-07290 / 40.0	
07N	36E	4	SE	SW		GASSER, LOYD L	A31-04024 / 15.0	31-04024 / 40.0	25.0
			SE	SW		GASSER, LOYD L	A31-04025 /	31-04025 /	
			SE	SW		GASSER, LOYD L	A31-07290 / 25.0	31-07290 / 40.0	
			SE	SW		GASSER, LOYD L	31-04025 /	- /	
			SE	SW		GASSER, LOYD L		31-04023 / 40.0	
07N	36E	4	NW	SE		GASSER, LOYD L	A31-04024 / 20.0	31-04024 / 20.0	22.0
			NW	SE		BLAINE LARSEN FARMS		31-07440 / 1.0	
			NW	SE		GASSER, LOYD L		31-04023 / 20.0	
			NW	SE		GASSER, LOYD L		31-07290 / 20.0	
07N	36E	4	SW	SE		GASSER, LOYD L	A31-04024 / 10.0	31-04024 / 35.0	15.0
			SW	SE		GASSER, LOYD L	A31-04023 / 25.0	31-04023 / 35.0	
			SW	SE		GASSER, LOYD L		31-07290 / 35.0	

ADDITIONAL POOL FOUND

TOTAL ACRES A31-04024 85.00 135.00 102.0

POU COUNTY: JEFFERSON

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

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

LIST OF ALL RIGHTS WITH A SAME POU AND IRRIGATION USAGE

CLAIM NO.	SOURCE	NAME	DIV. RATE	DIV. RATE/ACRE	DU
A31-04024	GROUNDWATER	GASSER, LOYD L	1.700	0.020	
A31-04023	GROUNDWATER	GASSER, LOYD L	0.620	0.024	
A31-07290	GROUNDWATER	GASSER, LOYD L	0.340	0.013	

LIST ALL RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION.

CLAIM NO.	PURPOSES	NAME	MONTH/DAY	RA
A31-04025	STOCKWATER	GASSER, LOYD L	FROM 01-01 TO 12-31	0.120
A31-04025	DOMESTIC	GASSER, LOYD L	FROM 01-01 TO 12-31	0.040
31-04025	STOCKWATER	GASSER, LOYD L	FROM 01-01 TO 12-31	0.120
31-04025	DOMESTIC	GASSER, LOYD L	FROM 01-01 TO 12-31	0.040

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

* IF YES, COMPLETE OVERLAP REVIEW:

OTHER RIGHTS LISTED IN CLAIM: NONE

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

N/A(___) Y

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

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

N/A(___) Y

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

Y

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

Y

PAGE: 7
PLACE OF USE REVIEW SHEET CONTINUED

CLAIM NUM

CHECK DOCUMENTS USED TO VERIFY POI: () ORTHOPHOTOQUAD, IDWR NO. _____; () TOPOGRAPHIC QUAD, IDWR NO. _____
() NAAPP, IDWR NO. _____; () AERIAL PHOTO; () OTHER: _____

NOTES:

RECOMMENDATIONS:

TOTAL ACRES: _____ N/A()

REVIEWED BY: _____ DATE: _____

PAGE: 8

PURPOSE OF USE, PERIOD OF USE, DIVERSION RATE AND DIVERSION VOLUME REVIEW SHEET

CLAIM NUM

A. CLAIMED USES:

	PURPOSE OF USE	PERIOD OF USE (MONTH/DAY)	DIV. RATE FOR EACH USE	DIV. V
A31-04024	IRRIGATION	FROM 04-01 TO 11-01	1.700 CFS	
	TOTAL DIVERSION RATE/VOLUME		1.700 CFS	

B. WR RECORDED USES:

	PURPOSE OF USE	PERIOD OF USE (MONTH/DAY)	DIV. RATE FOR EACH USE	DIV. V
31-04024	IRRIGATION	FROM 04-15 TO 10-15	1.700 CFS	
	TOTAL DIVERSION RATE/VOLUME		1.700 CFS	

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

D. IS THE CLAIMED PURPOSE OF USE THE SAME AS DESCRIBED IN THE WATER RIGHT FILE? N/A() Y

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

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

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

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

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

H. IS THE CLAIMED DIVERSION RATE FOR EACH USE THE SAME AS DESCRIBED IN THE WATER RIGHT FILE? N/A() Y

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

I. SHOULD THE CLAIMED DIVERSION RATE FOR EACH USE BE VERIFIED BY FIELD EXAM? N/A() Y

J. IS THE CLAIMED DIVERSION VOLUME FOR EACH USE THE SAME AS DESCRIBED IN THE WATER RIGHT FILE? N/A() Y

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

K. SHOULD THE CLAIMED DIVERSION VOLUME FOR EACH USE BE VERIFIED BY FIELD EXAM? N/A() Y

PAGE: 9

PURPOSE OF USE, PERIOD OF USE, DIVERSION RATE AND DIVERSION VOLUME REVIEW SHEET CONTINUED

CLAIM NUMBER

NOTES:

AJ CLAIM TOTAL DIVERSION RATE: 1.700 CFS

WR ROOT RIGHT TOTAL DIVERSION RATE: 1.700 CFS

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

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

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

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

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

D. SHOULD THE CLAIMED DIVERSION RATE BE VERIFIED BY FIELD EXAM? Y

E. FLOW MEASUREMENT

MEASUREMENT METHOD _____, SEE ATTACHED

F. RATE/VOLUME CALCULATIONS: (IRRIGATION)

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

1b. CALC

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

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

2. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = _____ AE/A

ACRES _____ x DIVERSION VOL. AE/A FOR AREA _____ =

TOTAL DIVERSION VOLUME _____ AE/A

3. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = _____ AE/A

ACRES _____ x CONSUMPTIVE VOL. AE/A FOR AREA _____ =

TOTAL CONSUMPTIVE USE _____ AE/A

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

PAGE: 11
DIVERSION AMOUNT REVIEW SHEET CONTINUED

CLAIM NUM

NOTES:

WR RECORD CONDITIONS/REMARKS:

- R30 - This right when combined with all other rights shall provide no
- more than .02 cfs per acre nor more than 3.5 afa per acre for
- irrigation of the lands above.
- T07 - The right holder shall accomplish the change authorized by this
- transfer within one (1) year of the date of this approval.
- T08 - Failure of the right holder to comply with the conditions of this
- transfer is cause for the Director to rescind approval of the
- transfer.
- T09 - Approval of this transfer does not preclude the opportunity for
- review of the validity of the water right(s) in the ongoing
- Snake River Basin Adjudication.

-
- | | |
|-----|---|
| TI7 | - Prior to diversion of water under this approval, the right holder |
| | - shall provide a means of measurement acceptable to the Department |
| | - from all authorized points of diversion which will allow |
| | - determination of the total rate of diversion. |
| 01M | - After specific notification by the department, the right holder |
| | - shall install a suitable measuring device or shall enter into an |
| | - agreement with the department to determine the amount of water |
| | - diverted from power records and shall annually report the |
| | - information to the department. |

RECOMMENDATIONS: CHECK HERE IF RECOMMENDED AS CLAIMED (___)

REC. PURPOSE OF USE	REC. PERIOD FROM TO	REC. DIV RATE CPS	REC. DIV VOL. AE/A
IRRIGATION	04-01 11-01	DATABASE 1.700 EXAMINER	DATABASE EXAMINER
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
TOTAL FOR THIS RIGHT		1.700	

NON-IRRIGATION USES CLAIMED: NONE

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

REVIEWED BY: _____

DATE: _____

FLAG: _____

STANDARD CONDITIONS (CODE): _____

STANDARD REMARKS (CODE): _____

EXPLANATORY CONDITIONS (CODE): _____

EXPLANATORY REMARKS (CODE): _____

PAGE: 14
BASIS OF CLAIM REVIEW SHEET

CLAIM NUM

A. CHECK ONLY THE FOLLOWING THAT APPLY:

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

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 31-04024

TOTAL DIVERSION RATE OF WR SPLITS	DATABASE 1.700	EXAMINER	CFS
-----------------------------------	-------------------	----------	-----

SPLITS:

OLD RIGHT NUMBERS	CURRENT CLAIM NUMBERS	DIVERSION RATE	CURRENT "R" CLAIM NUM.	"R" DIV. RATE	WR RIGHT NUMBERS
-	A31-04024	1.700	-		31-04024
TOTAL CFS		1.700			

DIVERSION RATE REVIEW

DO THE SUM CFS RATE OF THE SPLITS EQUAL THE ROOT RIGHT CFS RATE? (Y/N)
IF NO, IS THE WRITTEN REVIEW DESCRIBED BELOW (___) OR SEE ATTACHMENT (___)?

DATABASE
Y
FILE
EXAMINER
Y(___)

NOTES:

AUTHENTICATION:

SIGNATURE: _____ DATE: _____

NAME OF FIELD EXAMINER: _____ TITLE: _____

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

TYPE OF MAP OR PHOTOGRAPH (CHECK IF USED)	IF USED, SUPPLY APPROPRIATE DATE AND OTHER INFORMATION
() ORTHOPHOTOQUAD	DATE OF PHOTO _____ IDWR ID NO. _____
() TOPOGRAPHIC	DATE FIELD CHECKED _____ TOWR ID NO. _____
() NAPP	DATE OF PHOTO _____ IDWR ID NO. _____
() ASCS AERIAL PHOTO	DATE OF PHOTO _____
() ASCS COLOR SLIDE	DATE OF PHOTO _____
() BLM OR USES AERIAL PHOTO	DATE OF PHOTO _____
() TOWNSHIP SURVEY (GOVERNMENT PLAT)	DATE OF SURVEY _____
() SCS SOIL SURVEY MAP	DATE ISSUED _____
() SUBDIVISION PLAT MAP	DATE OF MAP _____
() OTHER _____	DATE _____
() OTHER _____	DATE _____
() OTHER _____	DATE _____

LIST OF ATTACHMENTS (CHECK IF ATTACHED)	IF ATTACHED, SUPPLY APPROPRIATE INFORMATION	NO. OF PAGES
() LICENSING FIELD EXAM	DATE OF FIELD EXAM _____	_____
() WATER RIGHT LICENSE	DATE LICENSE SIGNED _____	_____
() IDWR APPROVED TRANSFER	DATE TRANSFER APPROVED _____	_____
() SYSTEM DESCRIPTION	DATE DRAWN _____	_____
() PHOTOGRAPHS	DATE(S) PHOTOS TAKEN _____	_____
() SPLIT RIGHT REVIEW	DATE REVIEW COMPLETED _____	_____
() HUBBLE ANALYSIS	DATE ANALYSIS COMPLETED _____	_____
() CONVEYANCE LOSS ANALYSIS	DATE ANALYSIS COMPLETED _____	_____
() FLOW MEASUREMENT CALCULATIONS	DATE SYSTEM MEASURED _____	_____
() OTHER _____	DATE _____	_____
() OTHER _____	DATE _____	_____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

PAGE: 16
QUICKLOOK INFORMATION

CLAIM NUM

WR ELEMENT	DATA DISCREPANCY Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	ELEMENT DOCUMENTED WHOM/DATE	COMPLETED REVIEW WHOM/DATE	C D W
PRIORITY DATE	Y						
POINT OF DIV	Y						
SOURCE							
PLACE OF USE	Y						
DIV. AMOUNT CFS/VOLUME							
CONSUMPTIVE USE	-						
PURPOSES OF USE							
PERIOD OF USE	Y						
BASIS OF CLAIM							
REMARKS	Y						

BARCODE UPDATED
WHOM/DATE

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

PAGE: 17
PROFILE REPORT

CLAIM NUM

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE
C	LOYD L GASSER	03/20/1940	IRRIGATION	04-01 11-01	1.7
TOTAL DIVERSION:					1.7

Water Source: GROUNDWATER

Tributary to:

Point(s) of Diversion: T07N R36E S04

NWSESW

Place of use Legal Description for: IRRIGATION

				NE				NW				SW				SE					
T	R	S	:	NENE	NWNE	SWNE	SENE	:	NENW	NWNW	SWNW	SENW	:	NESW	NWSW	SWSW	SESW	:	NESE	NWSE	
				Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac
07N	36E	4	:					:					:	40			15	:		20	

TOTAL

POU County: JEFFERSON

Non-Irrigation Uses: NONE

Other Rights: NONE

Remarks: GEN ITEM 5 - HISTORICALLY, 50' WELL, 14' SWL, 10" CASING, 15HP CENT. PUMP AND MOTOR TO IRRIGATION DITCHES. IN APRIL, 1978 REPLACED WITH A 50HP VERTICLE TURBINE PUMP AND PRESSURIZED CENTER PIVOT. EXTREME CORNER OF THE NW1/4 SEC. 4 IS IRRIGATED WHEN PIVOT IS NOT IN USE, BY OTHER MEANS.
***** CODED FROM PAPER CLAIM *****

Dates: Exam Made Date: Verified Date: 05/06/1986 Objection Filed Date:
Misc: Water District Number: 31 Field Inspection Flag: Y
Presumption Flag:

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

TRANSFER OF WATER RIGHT

TRANSFER NO. 4350
WATER RIGHT NO(S). 31-04023/31-04024/31-07290

This is to certify that: LOYD L GASSER
2303 E 2800 N
HAMER ID 83425

has requested a change to the above captioned water right(s). This change in water right(s) is authorized pursuant to the provisions of Section 42-222, Idaho Code, provided the conditions listed below are met.

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Right No. 31-04023 :			
Priority: 06/01/1943			
IRRIGATION	04/15 to 10/15	0.34 CFS	59.5 AF
STOCKWATER	01/01 to 12/31	0.12 CFS	6.7 AF
SUBTOTAL:		0.46 CFS	66.2 AF
Right No. 31-04024 :			
Priority: 03/20/1940			
IRRIGATION	04/15 to 10/15	1.70 CFS	297.5 AF
SUBTOTAL:		1.70 CFS	297.5 AF
Right No. 31-07290 :			
Priority: 02/15/1978			
IRRIGATION	04/15 to 10/15	0.18 CFS	45.5 AF
SUBTOTAL:		0.18 CFS	45.5 AF
TOTAL:		2.34 CFS	409.2 AF

SOURCE
GROUNDWATER

LOCATION OF POINT(S) OF DIVERSION:

SESW , Sec. 4, Township 07N, Range 36E
SESE , Sec. 5, Township 07N, Range 36E
JEFFERSON County

PLACE OF USE: IRRIGATION

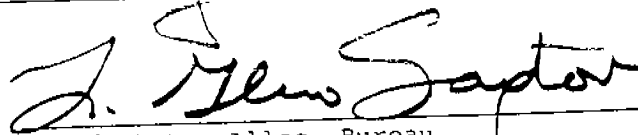
<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
07N	36E	4	NESW 40	SESW 40	NWSE 20	135
			SWSE 35			* 135

Total number of acres irrigated:

PLACE OF USE: STOCKWATER, same as IRRIGATION use

TRANSFER NO. 4350
WATER RIGHT NO(S). 31-04023/31-04024/31-07290CONDITIONS/REMARKS:

1. Approval of this transfer in no way confirms the right(s) claimed.
2. Approval of this transfer does not preclude the opportunity for review of the validity of the water right(s) in the ongoing Snake River Basin Adjudication.
3. This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 3.5 afa per acre for the lands above.
4. The change authorized by this transfer shall be accomplished within one (1) year of the date of this approval.
5. Failure to comply with the conditions of this transfer is cause for the director to issue an order to show cause why the approval of the transfer should not be rescinded.
6. Prior to diversion of water under this approval, the right holder shall provide a means of measurement acceptable to the Department from all authorized points of diversion which will allow determination of the total rate of diversion.
7. The total instantaneous diversion of water from all points of diversion under Transfer No. 4350 shall not exceed 2.34 cfs, nor total combined annual volume of 409.2 af.
- * 8. Combined Right Nos. 31-04023, 31-04024 and 31-07290 are limited to a total combined irrigation of 115 acres in the place of use described above in a single irrigation season.
- * 9. Right No. 31-04023 is limited to the irrigation of 17 acres in the place of use described above in a single irrigation season.
- * 10. Right No. 31-04024 is limited to the irrigation of 85 acres in the place of use described above in a single irrigation season.
- * 11. Right No. 31-07290 is limited to the irrigation of 13 acres in the place of use described above in a single irrigation season.
12. After specific notification by the department, the right holder shall install a suitable measuring device or shall enter into an agreement with the department to determine the amount of water diverted from power records and shall annually report the information to the department.
13. Stockwater use is for 500 range cattle.

Dated this 12th day ofJanuary, 1995
Chief, Water Alloc. Bureau

MEMORANDUM

To: Craig Saxton/File
From: Cindy E. Bird
Date: August 16, 2000

Reference: Hubble Analysis results on A31-04024

Crop Information: The historical crop configuration was rotated between alfalfa, spring grain and pasture. Water requirements were investigated for each crop in order to determine the critical cropping pattern.

Soil Characteristic: Soil Characteristic information was acquired from the Soil Survey of Jefferson County, December 1979, publication. Brad Duncan, Twin Falls office of N.R.C.S., was consulted for the percentage of "Organic Matter" not found in the Soil Survey publication.

The soil characteristics were analyzed to determine the Management Allowed Deficit for each crop. Field boundaries included multiple and complex soils. The different soils and crops were analyzed to determine the critical combination. The Medano Complex is either loamy sand or sandy loam. In each study, the Medano Complex soil that produced the highest water requirement was used.

Slope and field lengths: Topographical maps were used to determine field slopes. This area is extremely flat; therefore, the maximum flow of 10-gpm flow was used as the upper limit in the Furrow analysis. The fields were defined based on the June 22, 1960 ASCS aerial photography. A map identifying these areas is included in the information.

Field Application Efficiency: When the Furrow program indicated efficiency less than 15%, a reasonable minimum of 15% was assumed for the Field Application Efficiency (FAE) (Idaho Dept. of Water Resources, 1999, p. 29).

Field Irrigation Requirements: Grassy Butte sand (30) and Zwiefel Sand (127) are the primarily soils used in the final analysis because it produced a more conservative values. Therefore, the total maximum on-farm irrigation requirement is 0.08 cfs/acre for the 43 acres or 3.44 cfs.

ANALYSIS COMPLETED BY:	Cindy Bird
DATE OF ANALYSIS:	8/17/00
Qmax PER FURROW:	Qmin PER FURROW:
For corrugates: 10.0 gpm	For both: 3.0 gpm
For furrows: 50.0 gpm	

[illegible]

TOTAL AC	TOTAL %	CFS/AC FOR EACH CROP:
4.6	100	

TOTAL CFS FOR FIELD :

Min. FAE=15%; Max. FAE=70%
Pg 29 Jeff Peppersack's report.

FIELD ID NO:	2
TOTAL ACRES:	6.8 AC
FIELD SLOPE:	0.10 %
FURROW LENGTH:	400 FT

DATE OF ANALYSIS: 8/17/00

Qmax PER FURROW:	Qmin PER FURROW:
For corrugates: 10.0 gpm	For both: 3.0 gpm
For furrows: 50.0 gpm	

[illegible]

TOTAL AC	TOTAL %	CFS/AC FOR EACH CROP:
6.8	100	

TOTAL CFS FOR FIELD :

FIELD ID NO:	3
TOTAL ACRES:	5.9
FIELD SLOPE:	0.10 %
FURROW LENGTH:	500 FT

DATE OF ANALYSIS: 8/17/00

Qmax PER FURROW:	Qmin PER FURROW:
For corrugates: 10.0 gpm	For both: 3.0 gpm
For furrows: 50.0 gpm	

[illegible]

TOTAL AC	TOTAL %	CFS/AC FOR EACH CROP:
5.9	100	

TOTAL CFS FOR FIELD :

Qmin PER FURROW:
For both: 3.0 gpm

[illegible]

TOTAL CFS FOR FIELD :

Qmin PER FURROW:
For both: 3.0 gpm

[illegible]

TOTAL CFS FOR FIELD :

Qmin PER FURROW:
For both: 3.0 gpm

[illegible]

TOTAL CFS FOR FIELD :

initials: cb Claimant = Loyd L. Gasser

date: 08/16/00 Weather Station = Hamer 4 NW

Peak Gross Irrigation Application (mm/day) =	41.02
On-Farm Irrigation Requirement (cfs/acre) =	0.068
Total On-Farm Irrigation Requirement (cfs) =	2.91
Irrigation Diversion Volume (ft/yr) =	0.00
Total Irrigation Diversion Volume (ac-ft/yr) =	0

initials:	cb	Claimant =	Loyd L. Gasser
date:	08/16/00	Weather Station =	Hamer 4 NW

Peak Gross Irrigation Application (mm/day) =	48.93
On-Farm Irrigation Requirement (cfs/acre) =	0.081
Total On-Farm Irrigation Requirement (cfs) =	3.47
Irrigation Diversion Volume (ft/yr) =	0.00
Total Irrigation Diversion Volume (ac-ft/yr) =	0

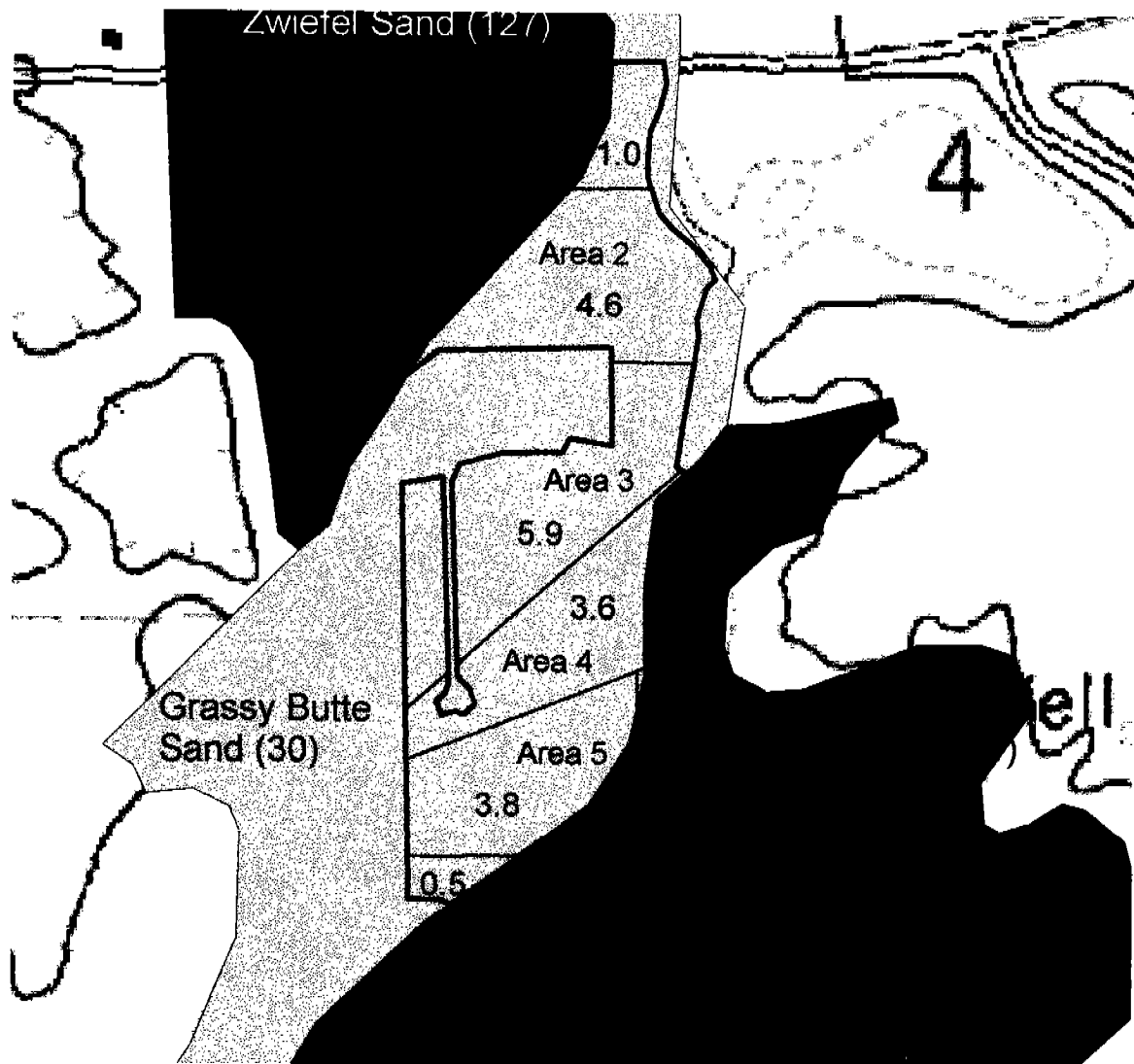
FIELD IRRIGATION REQUIREMENT

initials: cb Claimant = Loyd L. Gasser
date: 08/16/00 Weather Station = Harner 4 NW

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation (peak period ET)			
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	june
alfh-1	4.6	cor	15	1.26	4.48	6.15	7.72	8.21	6.53	4.82	3.01		6.57	1.03	19.7	8.65	30.76	42.23	5
alfh-2	6.8	cor	26	1.26	4.48	6.15	7.72	8.21	6.53	4.82	3.01		4.50	1.06	13.1	5.14	18.26	25.07	3
alfh-3	5.9	cor	25	1.26	4.48	6.15	7.72	8.21	6.53	4.82	3.01		4.28	1.06	12.5	5.34	19.00	26.08	3
alfh-4	4.7	cor	15	1.26	4.48	6.15	7.72	8.21	6.53	4.82	3.01		2.24	1.11	6.2	9.32	33.15	45.51	5
alfh-5	4.7	cor	26	1.26	4.48	6.15	7.72	8.21	6.53	4.82	3.01		4.50	1.06	13.1	5.14	18.26	25.07	3
alfh-6	2.9	cor	35	1.26	4.48	6.15	7.72	8.21	6.53	4.82	3.01		3.66	1.08	10.5	3.89	13.82	18.98	2
alfh-7	5.6	cor	46	1.26	4.48	6.15	7.72	8.21	6.53	4.82	3.01		4.68	1.06	13.7	2.90	10.32	14.17	1
alfh-8	7.7	cor	26	1.26	4.48	6.15	7.72	8.21	6.53	4.82	3.01		7.90	1.02	24.0	4.94	17.58	24.13	3
Summary	42.9															5.59	19.88	27.28	3

Peak Gross Irrigation Application (mm/day) = 36.42
On-Farm Irrigation Requirement (cfs/acre) = 0.060
Total On-Farm Irrigation Requirement (cfs) = 2.58
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

A31-04024 Hubble Analysis



T7N R36E Section 4

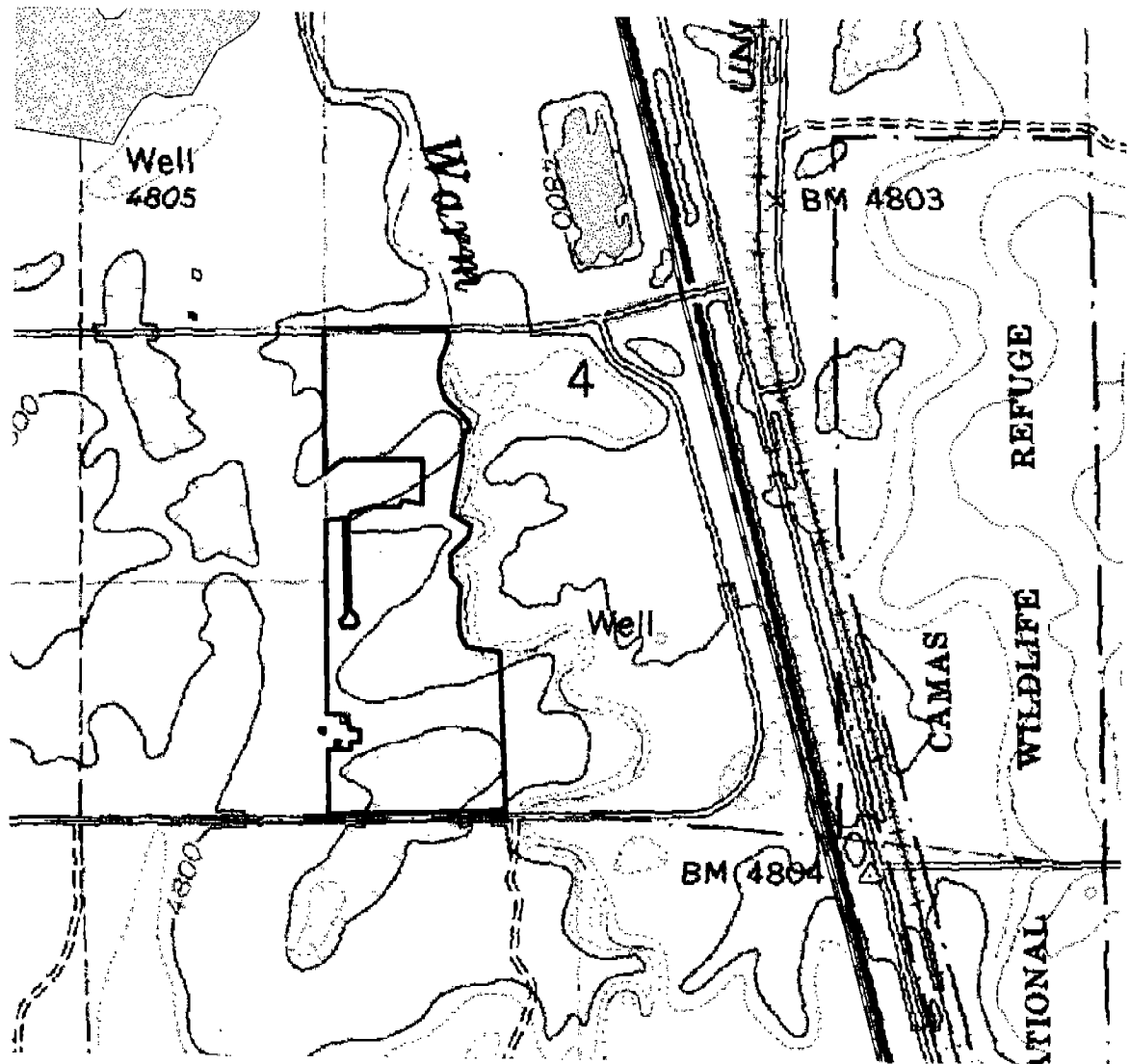
Flow direction: South unless otherwise noted.

0.1 0 0.1 0.2 Miles



Prepared by Cbird

A31-04024 Hubble Analysis



T7N R36E Section 4

0.1 0 0.1 0.2 Miles



Prepared by Cbird

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
		Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Inches	Inches	Inches	In.	%
Hay	0.85	2.10	.001	2.50	650	10.0	24	907.3	14.21	6.57	1.61	10.50	14.77
	0.85	2.10	.001	2.50	650	9.0	24	1364.5	12.79	~~1.56~~	1.07	9.59	~~16.71~~
	0.85	2.10	.001	2.50	650	10.0	36	907.3	21.32	12.56	3.51	15.72	9.85
Rain	0.85	1.68	.001	2.00	650	10.0	36	907.3	26.65	15.70	4.38	20.59	6.30
	0.85	1.68	.001	2.00	650	10.0	24	907.3	17.77	8.21	2.02	14.07	9.45
	0.85	1.68	.001	2.00	650	9.0	24	1364.5	15.99	1.95	1.34	12.98	10.51
	0.85	1.68	.001	2.00	650	9.0	36	1364.5	23.99	10.82	2.92	19.39	7.00
Pasture	0.85	1.26	.001	2.00	650	9.0	36	1364.5	23.99	10.82	2.92	19.81	5.25
	0.85	1.26	.001	2.00	650	10.0	36	907.3	26.65	15.70	4.38	21.01	4.73
	0.85	1.26	.001	2.00	650	10.0	24	907.3	17.77	8.21	2.02	14.49	7.09
	0.85	1.26	.001	2.00	650	10.0	48	907.3	35.54	22.22	7.27	27.00	3.55

Grassy Butte Sand (30)
Area 1

Min. 15% Irrigation
Efficiency.

	INTAKE FAMILY	DESIGN APPLIC. Inches	FURROW SLOPE Ft/Ft	FURROW SPACING Feet	FURROW LENGTH Feet	INFLOW RATE Gpm	APPROXIMATE INFLOW TIME Hours	ADVANCE TIME Minutes	GROSS IRRIGATION APPLICATION Inches	NET IRRIGATION APPLICATION Inches	RUNOFF Inches	DEEP PERC. In.	IRRIGATION EFFICIENCY %
alfalfa	0.70	3.75	.001	2.50	650	10.0	24	576.0	14.21	7.90	3.41	7.05	26.38
	0.70	3.75	.001	2.50	650	10.0	12	576.0	7.11	2.16	1.13	2.26	52.27
	0.70	3.75	.001	2.50	650	9.0	24	820.8	12.79	6.00	2.53	6.51	29.31
	0.70	3.75	.001	2.50	650	9.0	36	820.8	19.19	10.67	4.80	10.64	19.54
	0.70	3.75	.001	2.50	650	8.0	24	1277.7	11.37	2.22	1.84	5.76	33.11
	0.70	3.75	.001	2.50	650	8.0	36	1277.7	17.06	7.58	3.48	9.82	21.98
	0.70	3.75	.001	2.50	650	10.0	36	576.0	21.32	12.44	6.31	11.26	17.59
grain	0.70	2.79	.001	2.00	650	10.0	24	576.0	17.77	9.87	4.26	10.71	15.70
	0.70	2.79	.001	2.00	650	10.0	12	576.0	8.88	2.70	1.41	4.67	31.58
	0.70	2.79	.001	2.00	650	10.0	36	576.0	26.65	15.54	7.89	15.98	10.47
	0.70	2.79	.001	2.00	650	9.0	36	820.8	23.99	13.34	6.01	15.19	11.63
	0.70	2.79	.001	2.00	650	9.0	24	820.8	15.99	7.50	3.16	10.04	17.45
	0.70	2.79	.001	2.00	650	8.0	24	1277.7	14.21	2.77	2.30	9.09	19.83
	0.70	2.79	.001	2.00	650	8.0	36	1277.7	21.32	9.47	4.35	14.18	13.08
pasture	0.70	1.83	.001	2.00	650	10.0	36	576.0	26.65	15.54	7.89	16.94	6.87
	0.70	1.83	.001	2.00	650	10.0	24	576.0	17.77	9.87	4.26	11.67	10.30
	0.70	1.83	.001	2.00	650	10.0	12	576.0	8.88	2.70	1.41	5.64	20.60
	0.70	1.83	.001	2.00	650	9.0	24	820.8	15.99	7.50	3.16	11.00	11.44
	0.70	1.83	.001	2.00	650	9.0	36	820.8	23.99	13.34	6.01	16.15	7.63
	0.70	1.83	.001	2.00	650	8.0	24	1277.7	14.21	2.77	2.30	10.08	12.87

Zwiefel Sand (127)
Area 1

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
		Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Inches	Inches	Inches	In.	%
a. 2000	0.85	2.10	.001	2.50	400	10.0	24	136.0	23.10	12.95	9.40	11.60	9.09
	0.85	2.10	.001	2.50	400	10.0	12	136.0	11.55	7.04	3.62	5.83	18.18
	0.85	2.10	.001	2.50	400	9.0	12	174.8	10.39	6.51	2.74	5.55	20.20
	0.85	2.10	.001	2.50	400	8.0	12	239.2	9.24	5.75	1.92	5.22	22.73
	0.85	2.10	.001	2.50	400	7.0	12	358.2	8.08	4.50	1.17	4.81	25.98
	0.85	2.10	.001	2.50	400	6.0	12	613.5	6.93	1.79	0.60	4.21	30.51
Rain	0.85	1.68	.001	2.00	400	10.0	24	136.0	28.87	16.19	11.75	15.44	5.82
	0.85	1.68	.001	2.00	400	10.0	12	136.0	14.44	8.80	4.53	8.23	11.64
	0.85	1.68	.001	2.00	400	9.0	12	174.8	12.99	8.13	3.43	7.88	12.93
	0.85	1.68	.001	2.00	400	8.0	12	239.2	11.55	7.18	2.40	7.47	14.55
	0.85	1.68	.001	2.00	400	7.0	12	358.2	10.11	5.62	1.46	6.96	16.62
	0.85	1.68	.001	2.00	400	6.0	12	613.5	8.66	2.24	0.76	6.28	19.39
	0.85	1.68	.001	2.00	400	5.0	24	1303.1	14.44	2.56	1.49	11.27	11.64
	0.85	1.68	.001	2.00	400	7.0	24	358.2	20.21	12.83	4.91	13.62	8.31
Pasture	0.85	1.26	.001	2.00	400	10.0	24	136.0	28.87	16.19	11.75	15.86	4.36
	0.85	1.26	.001	2.00	400	10.0	12	136.0	14.44	8.80	4.53	8.65	8.73
	0.85	1.26	.001	2.00	400	9.0	12	174.8	12.99	8.13	3.43	8.30	9.70
	0.85	1.26	.001	2.00	400	7.0	12	358.2	10.11	5.62	1.46	7.38	12.47
	0.85	1.26	.001	2.00	400	6.0	12	613.5	8.66	2.24	0.76	6.65	14.55

Grassy Butte Sand (30)

Area 2.

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
		Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Application	Application	Inches	In.	%
ayafja	0.70	1.83	.001	2.00	650	8.0	36	1277.7	21.32	9.47	4.35	15.14	8.58
	0.70	3.75	.001	2.50	400	10.0	24	104.1	23.10	10.94	11.70	7.64	16.23
	0.70	3.75	.001	2.50	400	10.0	12	104.1	11.55	6.14	4.87	2.93	32.47
	0.70	3.75	.001	2.50	400	9.0	12	129.4	10.39	5.80	3.93	2.72	36.08
	0.70	3.75	.001	2.50	400	8.0	12	169.9	9.24	5.34	3.02	2.47	40.59
	0.70	3.75	.001	2.50	400	7.0	12	241.1	8.08	4.67	2.16	2.18	46.38
	0.70	3.75	.001	2.50	400	6.0	12	384.7	6.93	3.47	1.38	1.80	54.14
	0.70	3.75	.001	2.50	400	6.0	24	384.7	13.86	8.08	4.11	6.00	27.06
	0.70	3.75	.001	2.50	400	5.0	24	739.5	11.55	5.71	2.50	5.30	32.47
	0.70	3.75	.001	2.50	400	5.0	36	739.5	17.32	9.68	4.72	8.86	21.65
	0.70	3.75	.001	2.50	400	8.0	36	169.9	27.72	13.96	13.10	10.87	13.53
Gaur	0.70	3.75	.001	2.50	400	10.0	36	104.1	34.65	15.14	19.10	11.80	10.82
	0.70	2.79	.001	2.00	400	10.0	24	104.1	28.87	13.68	14.63	11.45	9.66
	0.70	2.79	.001	2.00	400	10.0	12	104.1	14.44	7.68	6.08	5.56	19.33
	0.70	2.79	.001	2.00	400	9.0	12	129.4	12.99	7.24	4.91	5.29	21.47
	0.70	2.79	.001	2.00	400	8.0	12	169.9	11.55	6.67	3.77	4.99	24.16
	0.70	2.79	.001	2.00	400	7.0	12	241.1	10.11	5.83	2.69	4.62	27.61
	0.70	2.79	.001	2.00	400	6.0	12	384.7	8.66	4.33	1.73	4.15	32.21
	0.70	2.79	.001	2.00	400	6.0	24	384.7	17.32	10.10	5.13	9.40	16.10
Pasture	0.70	2.79	.001	2.00	400	8.0	24	169.9	23.10	12.44	9.74	10.57	12.08
	0.70	1.83	.001	2.00	400	8.0	24	169.9	23.10	12.44	9.74	11.53	7.92
	0.70	1.83	.001	2.00	400	10.0	24	104.1	28.87	13.68	14.63	12.41	6.34
	0.70	1.83	.001	2.00	400	10.0	12	104.1	14.44	7.68	6.08	6.52	12.68
	0.70	1.83	.001	2.00	400	9.0	12	129.4	12.99	7.24	4.91	6.25	14.08
	0.70	1.83	.001	2.00	400	8.0	12	169.9	11.55	6.67	3.77	5.95	15.84
	0.70	1.83	.001	2.00	400	7.0	12	241.1	10.11	5.83	2.69	5.58	18.11
	0.70	1.83	.001	2.00	400	6.0	12	384.7	8.66	4.33	1.73	5.11	21.13
	0.70	1.83	.001	2.00	400	5.0	24	739.5	14.44	7.13	3.13	9.48	12.68
	0.70	1.83	.001	2.00	400	8.0	24	169.9	23.10	12.44	9.74	11.53	7.92

Zwiefel Sand (127)

Area 2

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
		Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Inches	Inches	Inches	In.	%
<i>alfalfa</i>	0.70	1.83	.001	2.00	400	5.0	36	739.5	21.66	12.10	5.89	13.93	8.45
	0.85	2.10	.001	2.50	500	10.0	24	299.0	18.48	11.69	5.04	11.34	11.36
	0.85	2.10	.001	2.50	500	10.0	12	299.0	9.24	5.51	1.61	5.53	22.73
	0.85	2.10	.001	2.50	500	9.0	12	409.3	8.32	4.28	1.07	5.15	25.25
	0.85	2.10	.001	2.50	500	8.0	12	606.0	7.39	2.01	0.64	4.64	28.61
	0.85	2.10	.001	2.50	500	8.0	12	606.0	7.39	2.01	0.64	4.64	28.61
	0.85	2.10	.001	2.50	500	8.0	24	606.0	14.78	8.71	2.47	10.22	14.21
	0.85	2.10	.001	2.50	500	7.0	24	1003.6	12.94	5.17	1.46	9.38	16.23
	0.85	2.10	.001	2.50	500	7.0	36	1003.6	19.40	10.80	3.16	14.15	10.82
	0.85	2.10	.001	2.50	500	6.0	36	1966.5	16.63	2.74	1.84	12.69	12.63
	0.85	2.10	.001	2.50	500	9.0	24	409.3	16.63	10.53	3.69	10.84	12.63
<i>grain</i>	0.85	1.68	.001	2.00	500	9.0	24	409.3	20.79	13.17	4.62	14.49	8.08
	0.85	1.68	.001	2.00	500	9.0	12	409.3	10.39	5.35	1.33	7.38	16.16
	0.85	1.68	.001	2.00	500	8.0	12	606.0	9.24	2.52	0.80	6.76	18.18
	0.85	1.68	.001	2.00	500	7.0	24	1003.6	16.17	6.47	1.82	12.67	10.39
	0.85	1.68	.001	2.00	500	7.0	36	1003.6	24.25	13.50	3.94	18.63	6.93
	0.85	1.68	.001	2.00	500	10.0	36	299.0	34.65	21.25	11.43	21.54	4.85
<i>pasture</i>	0.85	1.26	.001	2.00	500	10.0	36	299.0	34.65	21.25	11.43	21.96	3.64
	0.85	1.26	.001	2.00	500	10.0	24	299.0	23.10	14.62	6.30	15.54	5.45
	0.85	1.26	.001	2.00	500	10.0	12	299.0	11.55	6.88	2.02	8.27	10.91
	0.85	1.26	.001	2.00	500	9.0	12	409.3	10.39	5.35	1.33	7.80	12.12
	0.85	1.26	.001	2.00	500	8.0	12	606.0	9.24	2.52	0.80	7.18	13.64
	0.85	1.26	.001	2.00	500	7.0	24	1003.6	16.17	6.47	1.82	13.09	7.79
	0.85	1.26	.001	2.00	500	7.0	36	1003.6	24.25	13.50	3.94	19.05	5.20
	0.85	1.26	.001	2.00	500	8.0	36	606.0	27.72	17.49	6.21	20.25	4.55
	0.85	1.26	.001	2.00	500	8.0	24	606.0	18.48	10.88	3.08	14.14	6.82
	0.85	1.26	.001	2.00	500	8.0	12	606.0	9.24	2.52	0.80	7.18	13.64

Grassy Butte Sand (30)
Area 3

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
		Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Inches	Inches	Inches	In.	%
alfalfa	0.85	1.26	.001	2.00	500	7.0	24	1003.6	16.17	6.47	1.82	13.09	7.79
	0.85	2.10	.001	2.50	800	10.0	48	2606.3	23.10	4.00	2.24	18.76	9.09
grain	0.85	1.68	.001	2.00	800	10.0	48	2606.3	28.87	5.00	2.80	24.39	5.82
pasture	0.85	1.26	.001	2.00	800	10.0	48	2606.3	28.87	5.00	2.80	24.81	4.36

Grassy Butte Sand (30)
Area 4

Minimum of
15% irrigation
Efficiency used.

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
		Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Application	Application	Inches	In.	%
<i>alfalfa</i>	~~0.85~~	~~1.26~~	~~.001~~	~~2.00~~	~~800~~	~~9.0~~	~~48~~	~~4306.7~~	~~25.99~~	~~5.00~~	~~2.80~~	~~24.81~~	~~4.36~~
	0.70	2.58	.001	2.50	800	10.0	36	1479.1	17.32	6.62	3.19	11.55	14.89
	0.70	2.58	.001	2.50	800	10.0	48	1479.1	23.10	11.34	5.04	15.48	11.17
	0.70	2.58	.001	2.50	800	9.0	48	2286.9	20.79	5.81	3.84	14.37	12.41
<i>grain</i>	0.70	2.16	.001	2.00	800	10.0	36	1479.1	21.66	8.27	3.99	15.51	9.97
	0.70	2.16	.001	2.00	800	10.0	48	1479.1	28.87	14.17	6.30	20.42	7.48
	0.70	2.16	.001	2.00	800	9.0	48	2286.9	25.99	7.27	4.80	19.02	8.31
<i>pasture</i>	0.70	1.74	.001	2.00	800	10.0	48	1479.1	28.87	14.17	6.30	20.84	6.03
	0.70	1.74	.001	2.00	800	10.0	36	1479.1	21.66	8.27	3.99	15.93	8.03

Medano Complex- 81 (loamy sand)

Area 4

	INTAKE FAMILY	DESIGN APPLIC. Inches	FURROW SLOPE Ft/Ft	FURROW SPACING Feet	FURROW LENGTH Feet	INFLOW RATE Gpm	APPROXIMATE INFLOW TIME Hours	ADVANCE TIME Minutes	GROSS IRRIGATION APPLICATION Inches	NET IRRIGATION APPLICATION Inches	RUNOFF Inches	DEEP PERC. In.	IRRIGATION EFFICIENCY %
alfalfa	0.70	1.74	.001	2.00	800	9.0	48	2286.9	25.99	7.27	4.80	19.44	6.70
	0.70	2.86	.001	2.50	800	10.0	36	1479.1	17.32	6.62	3.19	11.27	16.51
	0.70	2.86	.001	2.50	800	9.0	48	2286.9	20.79	5.81	3.84	14.09	13.76
	0.70	2.86	.001	2.50	800	10.0	48	1479.1	23.10	11.34	5.04	15.20	12.38
grain	0.70	2.44	.001	2.00	800	10.0	48	1479.1	28.87	14.17	6.30	20.14	8.45
	0.70	2.44	.001	2.00	800	10.0	36	1479.1	21.66	8.27	3.99	15.23	11.27
	0.70	2.44	.001	2.00	800	9.0	48	2286.9	25.99	7.27	4.80	18.74	9.39
pasture	0.70	2.02	.001	2.00	800	9.0	48	2286.9	25.99	7.27	4.80	19.16	7.77
	0.70	2.02	.001	2.00	800	10.0	36	1479.1	21.66	8.27	3.99	15.65	9.33
	0.70	2.02	.001	2.00	800	10.0	48	1479.1	28.87	14.17	6.30	20.56	7.00

Medano Complex-81 (Sandy loam)
Area 4

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
		Inches	Pt/Pt	Feet	Feet	Gpm	Hours	Minutes	Application	Application	Inches	In.	%
ajaja	~~0.70~~	~~2.02~~	~~.001~~	~~2.00~~	~~800~~	~~9.0~~	~~48~~	~~2286.9~~	~~25.99~~	~~7.27~~	~~4.80~~	~~19.16~~	~~7.77~~
	0.85	2.10	.001	2.50	400	10.0	24	136.0	23.10	12.95	9.40	11.60	9.09
	0.85	2.10	.001	2.50	400	10.0	12	136.0	11.55	7.04	3.62	5.83	18.18
	0.85	2.10	.001	2.50	400	9.0	12	174.8	10.39	6.51	2.74	5.55	20.20
	0.85	2.10	.001	2.50	400	8.0	12	239.2	9.24	5.75	1.92	5.22	22.73
	0.85	2.10	.001	2.50	400	7.0	12	358.2	8.08	4.50	1.17	4.81	25.98
	0.85	2.10	.001	2.50	400	6.0	12	613.5	6.93	1.79	0.60	4.21	30.51
	0.85	2.10	.001	2.50	400	6.0	24	613.5	13.86	8.06	2.35	9.41	15.15
	0.85	2.10	.001	2.50	400	5.0	24	1303.1	11.55	2.05	1.19	8.24	18.39
	0.85	2.10	.001	2.50	400	8.0	24	239.2	18.48	11.49	5.68	10.70	11.36
rain	0.85	1.68	.001	2.00	400	8.0	24	239.2	23.10	14.36	7.10	14.32	7.27
	0.85	1.68	.001	2.00	400	8.0	12	239.2	11.55	7.18	2.40	7.47	14.55
	0.85	1.68	.001	2.00	400	7.0	12	358.2	10.11	5.62	1.46	6.96	16.62
	0.85	1.68	.001	2.00	400	6.0	12	613.5	8.66	2.24	0.76	6.23	19.39
	0.85	1.68	.001	2.00	400	5.0	24	1303.1	14.44	2.56	1.49	11.27	11.64
	0.85	1.68	.001	2.00	400	8.0	24	239.2	23.10	14.36	7.10	14.32	7.27
pasture	0.85	1.26	.001	2.00	400	8.0	24	239.2	23.10	14.36	7.10	14.74	5.45
	0.85	1.26	.001	2.00	400	9.0	24	174.8	25.99	15.40	9.39	15.34	4.85
	0.85	1.26	.001	2.00	400	10.0	24	136.0	28.87	16.19	11.75	15.86	4.36
	0.85	1.26	.001	2.00	400	10.0	12	136.0	14.44	8.80	4.53	8.65	8.73
	0.85	1.26	.001	2.00	400	8.0	12	239.2	11.55	7.18	2.40	7.89	10.91
	0.85	1.26	.001	2.00	400	6.0	12	613.5	8.66	2.24	0.76	6.65	14.55
	0.85	1.26	.001	2.00	400	5.0	24	1303.1	14.44	2.56	1.49	11.69	8.73
	0.85	1.26	.001	2.00	400	5.0	36	1303.1	21.66	9.93	3.17	17.23	5.82

Grassy Butte Sand (30)
Area 5

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET			
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	DEEP	IRRIGATION
		Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Inches	Inches	Inches	In.	%
Walla	0.85	1.26	.001	2.00	400	8.0	36	239.2	34.65	20.57	12.59	20.80	3.64
	0.70	3.75	.001	2.50	400	8.0	36	169.9	27.72	13.96	13.10	10.87	13.53
	0.70	3.75	.001	2.50	400	8.0	24	169.9	18.48	9.95	7.79	6.94	20.29
	0.70	3.75	.001	2.50	400	8.0	12	169.9	9.24	5.34	3.02	2.47	40.59
	0.70	3.75	.001	2.50	400	7.0	12	241.1	8.08	4.67	2.16	2.18	46.38
	0.70	3.75	.001	2.50	400	6.0	12	384.7	6.93	3.47	1.38	1.80	54.14
	0.70	3.75	.001	2.50	400	6.0	24	384.7	13.86	8.08	4.11	6.00	27.06
	0.70	3.75	.001	2.50	400	5.0	24	739.5	11.55	5.71	2.50	5.30	32.47
	0.70	3.75	.001	2.50	400	10.0	24	104.1	23.10	10.94	11.70	7.64	16.23
Grain	0.70	2.79	.001	2.00	400	10.0	24	104.1	28.87	13.68	14.63	11.45	9.66
	0.70	2.79	.001	2.00	400	10.0	12	104.1	14.44	7.68	6.08	5.56	19.33
	0.70	2.79	.001	2.00	400	9.0	12	129.4	12.99	7.24	4.91	5.29	21.47
	0.70	2.79	.001	2.00	400	8.0	12	169.9	11.55	6.67	3.77	4.99	24.16
	0.70	2.79	.001	2.00	400	7.0	12	241.1	10.11	5.83	2.69	4.62	27.61
	0.70	2.79	.001	2.00	400	6.0	12	384.7	8.66	4.33	1.73	4.15	32.21
	0.70	2.79	.001	2.00	400	5.0	24	739.5	14.44	7.13	3.13	8.52	19.33
	0.70	2.79	.001	2.00	400	5.0	36	739.5	21.66	12.10	5.89	12.97	12.88
	0.70	2.79	.001	2.00	400	8.0	36	169.9	34.65	17.44	16.37	15.49	8.05
	0.70	2.79	.001	2.00	400	8.0	24	169.9	23.10	12.44	9.74	10.57	12.08
Pasture	0.70	1.83	.001	2.00	400	8.0	24	169.9	23.10	12.44	9.74	11.53	7.92
	0.70	1.83	.001	2.00	400	10.0	24	104.1	28.87	13.68	14.63	12.41	6.34
	0.70	1.83	.001	2.00	400	10.0	12	104.1	14.44	7.68	6.08	6.52	12.68
	0.70	1.83	.001	2.00	400	9.0	12	129.4	12.99	7.24	4.91	6.25	14.08
	0.70	1.83	.001	2.00	400	8.0	12	169.9	11.55	6.67	3.77	5.95	15.84
	0.70	1.83	.001	2.00	400	7.0	12	241.1	10.11	5.83	2.69	5.58	18.11
	0.70	1.83	.001	2.00	400	6.0	12	384.7	8.66	4.33	1.73	5.11	21.13
	0.70	1.83	.001	2.00	400	5.0	24	739.5	14.44	7.13	3.13	9.48	12.68
	0.70	1.83	.001	2.00	400	5.0	36	739.5	21.66	12.10	5.89	13.93	8.45
	0.70	1.83	.001	2.00	400	6.0	36	384.7	25.99	14.93	9.19	14.97	7.04

Zwiefel Sand (127)
Area S

	INTAKE FAMILY	DESIGN APPLIC. Inches	FURROW SLOPE Ft/Ft	FURROW SPACING Feet	FURROW LENGTH Feet	INFLOW RATE Gpm	APPROXIMATE INFLOW TIME Hours	ADVANCE TIME Minutes	GROSS IRRIGATION APPLICATION Inches	NET IRRIGATION APPLICATION Inches	RUNOFF Inches	DEEP PERC. In.	IRRIGATION EFFICIENCY %
<i>alfalfa</i>	0.70	1.83	.001	2.00	500	6.0	24	1088.5	13.86	4.48	2.48	9.55	13.20
	0.70	2.58	.001	2.50	500	10.0	24	212.4	18.48	10.27	7.23	8.67	13.96
	0.70	2.58	.001	2.50	500	10.0	12	212.4	9.24	5.33	2.73	3.93	27.92
	0.70	2.58	.001	2.50	500	9.0	12	278.9	8.32	4.68	2.07	3.66	31.03
	0.70	2.58	.001	2.50	500	8.0	12	392.0	7.39	3.66	1.48	3.33	34.90
	0.70	2.58	.001	2.50	500	7.0	12	607.3	6.47	1.67	1.00	2.89	39.94
	0.70	2.58	.001	2.50	500	7.0	24	607.3	12.94	7.02	3.05	7.30	19.95
	0.70	2.58	.001	2.50	500	9.0	24	278.9	16.63	9.59	5.76	8.29	15.51
	0.70	2.58	.001	2.50	500	9.0	36	278.9	24.95	13.78	10.01	12.35	10.34
<i>grain</i>	0.70	2.16	.001	2.00	500	9.0	24	278.9	20.79	11.98	7.20	11.43	10.39
	0.70	2.16	.001	2.00	500	8.0	24	392.0	18.48	10.77	5.44	10.88	11.69
	0.70	2.16	.001	2.00	500	6.0	24	1088.5	13.86	4.48	2.48	9.22	15.59
	0.70	2.16	.001	2.00	500	7.0	12	607.3	8.08	2.09	1.24	4.66	26.91
	0.70	2.16	.001	2.00	500	8.0	12	392.0	9.24	4.57	1.85	5.23	23.38
	0.70	2.16	.001	2.00	500	8.0	36	392.0	27.72	15.96	9.74	15.82	7.79
<i>Pasture</i>	0.70	1.74	.001	2.00	500	8.0	24	392.0	18.48	10.77	5.44	11.30	9.42
	0.70	1.74	.001	2.00	500	6.0	24	1088.5	13.86	4.48	2.48	9.64	12.55
	0.70	1.74	.001	2.00	500	7.0	12	607.3	8.08	2.09	1.24	5.10	21.52
	0.70	1.74	.001	2.00	500	8.0	12	392.0	9.24	4.57	1.85	5.65	18.83
	0.70	1.74	.001	2.00	500	10.0	12	212.4	11.55	6.66	3.42	6.39	15.07

Medano Complex - (81) (loamy sand)

Area 6

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
		Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Inches	Inches	Inches	In.	%
ayajaja	0.70	1.74	.001	2.00	500	10.0	36	212.4	34.65	18.16	15.38	17.53	5.02
	0.70	2.86	.001	2.50	500	10.0	36	212.4	27.72	14.53	12.31	12.55	10.32
	0.70	2.86	.001	2.50	500	10.0	24	212.4	18.48	10.27	7.23	8.39	15.48
	0.70	2.86	.001	2.50	500	10.0	12	212.4	9.24	5.33	2.73	3.65	30.95
	0.70	2.86	.001	2.50	500	8.0	12	392.0	7.39	3.66	1.48	3.05	38.69
	0.70	2.86	.001	2.50	500	7.0	12	607.3	6.47	1.67	1.00	2.62	44.11
	0.70	2.86	.001	2.50	500	7.0	24	607.3	12.94	7.02	3.05	7.02	22.11
	0.70	2.86	.001	2.50	500	6.0	24	1088.5	11.09	3.59	1.98	6.24	25.79
	0.70	2.86	.001	2.50	500	6.0	36	1088.5	16.63	8.17	3.78	9.99	17.20
grain	0.70	2.44	.001	2.00	500	10.0	24	212.4	23.10	12.84	9.04	11.62	10.56
	0.70	2.44	.001	2.00	500	10.0	12	212.4	11.55	6.66	3.42	5.69	21.13
	0.70	2.44	.001	2.00	500	9.0	12	278.9	10.39	5.85	2.59	5.36	23.47
	0.70	2.44	.001	2.00	500	8.0	12	392.0	9.24	4.57	1.85	4.95	26.41
	0.70	2.44	.001	2.00	500	7.0	12	607.3	8.08	2.09	1.24	4.38	30.38
	0.70	2.44	.001	2.00	500	7.0	24	607.3	16.17	8.78	3.81	9.91	15.09
	0.70	2.44	.001	2.00	500	7.0	36	607.3	24.25	14.00	7.09	14.72	10.06
	0.70	2.44	.001	2.00	500	8.0	36	392.0	27.72	15.96	9.74	15.54	8.80
pasture	0.70	2.02	.001	2.00	500	8.0	36	392.0	27.72	15.96	9.74	15.96	7.29
	0.70	2.02	.001	2.00	500	8.0	24	392.0	18.48	10.77	5.44	11.02	10.93
	0.70	2.02	.001	2.00	500	8.0	12	392.0	9.24	4.57	1.85	5.37	21.86
	0.70	2.02	.001	2.00	500	7.0	12	607.3	8.08	2.09	1.24	4.82	24.99
	0.70	2.02	.001	2.00	500	6.0	24	1088.5	13.86	4.48	2.48	9.36	14.57
	0.70	2.02	.001	2.00	500	6.0	36	1088.5	20.79	10.21	4.72	14.05	9.72
	0.70	2.02	.001	2.00	500	7.0	36	607.3	24.25	14.00	7.09	15.14	8.33
	0.70	2.02	.001	2.00	500	8.0	36	392.0	27.72	15.96	9.74	15.96	7.29
	0.70	2.02	.001	2.00	500	8.0	24	392.0	18.48	10.77	5.44	11.02	10.93

Medano Complex-81 (Sandy Loam)
Area 6

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
		Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Application	Application	Inches	In.	%
Sage	0.70	1.83	.001	2.00	400	10.0	36	104.1	43.31	18.92	23.88	17.61	4.23
	0.70	3.75	.001	2.50	500	10.0	24	212.4	18.48	10.27	7.23	7.50	20.29
	0.70	3.75	.001	2.50	500	10.0	12	212.4	9.24	5.33	2.73	2.76	40.59
	0.70	3.75	.001	2.50	500	9.0	12	278.9	8.32	4.68	2.07	2.49	45.10
	0.70	3.75	.001	2.50	500	8.0	12	392.0	7.39	3.66	1.48	2.16	50.80
	0.70	3.75	.001	2.50	500	8.0	24	392.0	14.78	8.62	4.35	6.68	25.37
	0.70	3.75	.001	2.50	500	7.0	24	607.3	12.94	7.02	3.05	6.13	28.99
	0.70	3.75	.001	2.50	500	6.0	24	1088.5	11.09	3.59	1.98	5.34	33.95
	0.70	3.75	.001	2.50	500	6.0	36	1088.5	16.63	8.17	3.78	9.10	22.55
	0.70	3.75	.001	2.50	500	7.0	36	607.3	19.40	11.20	5.67	9.98	19.33
	0.70	3.75	.001	2.50	500	10.0	36	212.4	27.72	14.53	12.31	11.66	13.53
Main	0.70	2.79	.001	2.00	500	10.0	24	212.4	23.10	12.84	9.04	11.27	12.08
	0.70	2.79	.001	2.00	500	10.0	36	212.4	34.65	18.16	15.38	16.48	8.05
	0.70	2.79	.001	2.00	500	9.0	36	278.9	31.18	17.22	12.52	15.88	8.95
	0.70	2.79	.001	2.00	500	9.0	12	278.9	10.39	5.85	2.59	5.01	26.84
	0.70	2.79	.001	2.00	500	8.0	12	392.0	9.24	4.57	1.85	4.60	30.20
	0.70	2.79	.001	2.00	500	7.0	12	607.3	8.08	2.09	1.24	4.04	34.68
	0.70	2.79	.001	2.00	500	7.0	24	607.3	16.17	8.78	3.81	9.56	17.25
	0.70	2.79	.001	2.00	500	6.0	24	1088.5	13.86	4.48	2.48	8.59	20.13
	0.70	2.79	.001	2.00	500	6.0	36	1088.5	20.79	10.21	4.72	13.28	13.42
Pasture	0.70	1.83	.001	2.00	500	6.0	36	1088.5	20.79	10.21	4.72	14.24	8.80
	0.70	1.83	.001	2.00	500	6.0	24	1088.5	13.86	4.48	2.48	9.55	13.20
	0.70	1.83	.001	2.00	500	7.0	12	607.3	8.08	2.09	1.24	5.01	22.64
	0.70	1.83	.001	2.00	500	8.0	12	392.0	9.24	4.57	1.85	5.56	19.81
	0.70	1.83	.001	2.00	500	10.0	12	212.4	11.55	6.66	3.42	6.30	15.84
	0.70	1.83	.001	2.00	500	10.0	24	212.4	23.10	12.84	9.04	12.23	7.92
	0.70	1.83	.001	2.00	500	10.0	36	212.4	34.65	18.16	15.38	17.44	5.28
	0.70	1.83	.001	2.00	500	8.0	36	392.0	27.72	15.96	9.74	16.15	6.60
	0.70	1.83	.001	2.00	500	6.0	36	1088.5	20.79	10.21	4.72	14.24	8.80

Zwiefel Sand (127)

Area 6

	INTAKE FAMILY	DESIGN APPLIC. Inches	FURROW SLOPE Ft/Ft	FURROW SPACING Feet	FURROW LENGTH Feet	INFLOW RATE Gpm	APPROXIMATE INFLOW TIME Hours	ADVANCE TIME Minutes	GROSS IRRIGATION APPLICATION Inches	NET IRRIGATION APPLICATION Inches	RUNOFF Inches	DEEP PERC. In.	IRRIGATION EFFICIENCY %
alfalfa	0.70	3.75	.001	2.50	450	10.0	24	149.6	20.53	10.66	9.20	7.58	18.26
	0.70	3.75	.001	2.50	450	10.0	12	149.6	10.27	5.80	3.66	2.86	36.53
	0.70	3.75	.001	2.50	450	8.0	12	259.7	8.21	4.68	2.12	2.34	45.66
	0.70	3.75	.001	2.50	450	7.0	12	385.1	7.19	3.59	1.44	1.99	52.24
	0.70	3.75	.001	2.50	450	7.0	24	385.1	14.37	8.38	4.26	6.36	26.09
	0.70	3.75	.001	2.50	450	6.0	24	651.1	12.32	6.50	2.82	5.75	30.44
	0.70	3.75	.001	2.50	450	5.0	24	1358.4	10.27	1.24	1.73	4.79	36.45
	0.70	3.75	.001	2.50	450	5.0	36	1358.4	15.40	6.31	3.25	8.40	24.35
	0.70	3.75	.001	2.50	450	6.0	36	651.1	18.48	10.56	5.27	9.46	20.29
	0.70	3.75	.001	2.50	450	8.0	36	259.7	24.64	13.48	10.12	10.77	15.22
Grain	0.70	2.79	.001	2.00	450	8.0	24	259.7	20.53	11.78	7.31	10.44	13.59
	0.70	2.79	.001	2.00	450	10.0	24	149.6	25.67	13.33	11.50	11.37	10.87
	0.70	2.79	.001	2.00	450	10.0	12	149.6	12.83	7.25	4.58	5.47	21.74
	0.70	2.79	.001	2.00	450	8.0	12	259.7	10.27	5.85	2.65	4.83	27.18
	0.70	2.79	.001	2.00	450	6.0	12	651.1	7.70	1.45	1.15	3.76	36.30
	0.70	2.79	.001	2.00	450	7.0	12	385.1	8.98	4.49	1.80	4.39	31.06
	0.70	2.79	.001	2.00	450	7.0	24	385.1	17.97	10.48	5.33	9.85	15.53
	0.70	2.79	.001	2.00	450	6.0	24	651.1	15.40	8.13	3.53	9.08	18.12
	0.70	2.79	.001	2.00	450	5.0	24	1358.4	12.83	1.55	2.17	7.84	21.99
	0.70	2.79	.001	2.00	450	5.0	36	1358.4	19.25	7.88	4.07	12.39	14.49
Pasture	0.70	1.83	.001	2.00	450	5.0	36	1358.4	19.25	7.88	4.07	13.35	9.51
	0.70	1.83	.001	2.00	450	5.0	24	1358.4	12.83	1.55	2.17	8.80	14.51
	0.70	1.83	.001	2.00	450	6.0	24	651.1	15.40	8.13	3.53	10.04	11.88
	0.70	1.83	.001	2.00	450	7.0	24	385.1	17.97	10.48	5.33	10.81	10.19
	0.70	1.83	.001	2.00	450	9.0	24	191.1	23.10	12.66	9.38	11.89	7.92
	0.70	1.83	.001	2.00	450	9.0	12	191.1	11.55	6.68	3.59	6.13	15.84
	0.70	1.83	.001	2.00	450	8.0	12	259.7	10.27	5.85	2.65	5.79	17.83
	0.70	1.83	.001	2.00	450	7.0	12	385.1	8.98	4.49	1.80	5.35	20.37
	0.70	1.83	.001	2.00	450	6.0	12	651.1	7.70	1.45	1.15	4.70	24.02
	0.70	1.83	.001	2.00	450	6.0	24	651.1	15.40	8.13	3.53	10.04	11.88
	0.70	1.83	.001	2.00	450	6.0	36	651.1	23.10	13.21	6.59	14.68	7.92
	0.70	1.83	.001	2.00	450	5.0	36	1358.4	19.25	7.88	4.07	13.35	9.51

Zwiefel Sand (127)

Area 7

	INTAKE	DESIGN	FURROW	FURROW	FURROW	INFLOW	APPROXIMATE	ADVANCE	GROSS	NET		DEEP	IRRIGATION
	FAMILY	APPLIC.	SLOPE	SPACING	LENGTH	RATE	INFLOW TIME	TIME	IRRIGATION	IRRIGATION	RUNOFF	PERC.	EFFICIENCY
		Inches	Ft/Ft	Feet	Feet	Gpm	Hours	Minutes	Application	Application	Inches	In.	%
ayajja	0.70	1.83	.001	2.00	450	5.0	24	1358.4	12.83	1.55	2.17	8.80	14.51
	0.70	3.75	.001	2.50	650	10.0	24	576.0	14.21	7.90	3.41	7.05	26.38
	0.70	3.75	.001	2.50	650	10.0	12	576.0	7.11	2.16	1.13	2.26	52.27
	0.70	3.75	.001	2.50	650	9.0	24	820.8	12.79	6.00	2.53	6.51	29.31
	0.70	3.75	.001	2.50	650	8.0	24	1277.7	11.37	2.22	1.84	5.76	33.11
	0.70	3.75	.001	2.50	650	8.0	36	1277.7	17.06	7.58	3.48	9.82	21.98
rain	0.70	2.79	.001	2.00	650	9.0	24	820.8	15.99	7.50	3.16	10.04	17.45
	0.70	2.79	.001	2.00	650	8.0	24	1277.7	14.21	2.77	2.30	9.09	19.83
	0.70	2.79	.001	2.00	650	8.0	36	1277.7	21.32	9.47	4.35	14.18	13.08
	0.70	2.79	.001	2.00	650	10.0	12	576.0	8.88	2.70	1.41	4.67	31.58
	0.70	2.79	.001	2.00	650	10.0	36	576.0	26.65	15.54	7.89	15.98	10.47
	0.70	2.79	.001	2.00	650	9.0	36	820.8	23.99	13.34	6.01	15.19	11.63
	0.70	2.79	.001	2.00	650	8.0	36	1277.7	21.32	9.47	4.35	14.18	13.08
Pasture	0.70	2.79	.001	2.00	650	7.0	48	2257.2	24.88	7.08	4.87	17.22	11.22
	0.70	1.83	.001	2.00	650	7.0	48	2257.2	24.88	7.08	4.87	18.18	7.36
	0.70	1.83	.001	2.00	650	8.0	48	1277.7	28.43	14.82	6.84	19.76	6.44
	0.70	1.83	.001	2.00	650	8.0	36	1277.7	21.32	9.47	4.35	15.14	8.58
	0.70	1.83	.001	2.00	650	9.0	36	820.8	23.99	13.34	6.01	16.15	7.63
	0.70	1.83	.001	2.00	650	8.0	24	1277.7	14.21	2.77	2.30	10.08	12.87
	0.70	1.83	.001	2.00	650	10.0	12	576.0	8.88	2.70	1.41	5.64	20.60

Zwiefel Sand (127)

Area 8

A31-4024

Soil Description and texture

ID	YPE SOIL_NAME	TEXTURE
1	30 Grassy Butte Sand	Sand (0-7), Loamy sand, sand (7-60)
2	81 Medano complex	Sandy loam (0-16), Sand, coarse sand (16-60)
3	127 Zwiefel sand	Fine sand (0-3), Fine sand (3-21), Sandy clay (21-28), silty clay (28-60)

GRASSY BUTTE SAND - 30

SOIL CHARACTERISTICS

initials: cb

date: 07/27/00

Soil Type = Grassy Butte Sand (30)

Source of Soils Data = SCS Jefferson County Soil Survey Book

Issue date December 1979 (current)

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	fur
0	7	0.06	0.08	6.6	8.4	0	0.2	1	0.84	4	0.8
7	60	0.06	0.08					2	1.68		
								3	2.52		
								4	3.36	alternate	
								5	4.20	method	
										4	0.8

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.10
corn (field or silage)	4	0.5	1.68
grain (winter or spring)	4	0.5	1.68
pasture (or grass hay)	3	0.5	1.26
other (enter below)			

Intake Family

choose base number for intake family from table below based on texture
base number (#'s 1 through 7) = 7

Intake Family

#	flood	furrow	texture
1	0.3	0.3	heavy clays, silty clay (> 60% clay)
2	0.5	0.35	clays, slit loam (lake laid), sandy clay
3	1	0.4	silty clay loam, clay loam, sandy clay loam, silt loam (stream laid)
4	1.5	0.5	silt loam (wind laid), loam, very fine sandy loam
5	2	0.55	sandy loam, fine sandy loam, gravelly loam
6	3	0.7	very fine sand, loamy sands, gravelly sandy loam
7	4	0.85	sand

If you wish to assign intake family by an alternate method (from Table A-3 in Hubble Report or other) enter your selection below.
Enter a value for both flood and furrow if known, otherwise enter zero.
If you do not wish to assign intake family by an alternate method enter zero for both values.

intake family (flood) = 4
intake family (furrow) = 0.85

soil depth	AWC	AWC accumulated
(inches)	(inches)	(inches)

1	0.07	0.07
2	0.07	0.14
3	0.07	0.21
4	0.07	0.28
5	0.07	0.35
6	0.07	0.42
7	0.07	0.49
8	0.07	0.56
9	0.07	0.63
10	0.07	0.7
11	0.07	0.77
12	0.07	0.84
13	0.07	0.91
14	0.07	0.98
15	0.07	1.05
16	0.07	1.12
17	0.07	1.19
18	0.07	1.26
19	0.07	1.33
20	0.07	1.4
21	0.07	1.47
22	0.07	1.54
23	0.07	1.61
24	0.07	1.68
25	0.07	1.75
26	0.07	1.82
27	0.07	1.89
28	0.07	1.96
29	0.07	2.03
30	0.07	2.1
31	0.07	2.17
32	0.07	2.24
33	0.07	2.31
34	0.07	2.38
35	0.07	2.45
36	0.07	2.52

37	0.07	2.59
38	0.07	2.66
39	0.07	2.73
40	0.07	2.8
41	0.07	2.87
42	0.07	2.94
43	0.07	3.01
44	0.07	3.08
45	0.07	3.15
46	0.07	3.22
47	0.07	3.29
48	0.07	3.36
49	0.07	3.43
50	0.07	3.5
51	0.07	3.57
52	0.07	3.64
53	0.07	3.71
54	0.07	3.78
55	0.07	3.85
56	0.07	3.92
57	0.07	3.99
58	0.07	4.06
59	0.07	4.13
60	0.07	4.2

[illegible]

MEDANO COMPLEX - 81

SOIL CHARACTERISTICS

initials: cb

date: 07/27/00

Soil Type = Medano Complex-81 Medano part (loamy sand)

Source of Soils Data = SCS Jefferson County Soil Survey Book

Issue date December 1979 (current)

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family
lower	upper	lower	upper	lower	upper	lower	upper			flood fur
0	6	0.06	0.08	7.4	8.4	3	6	1	1.41	3 0
6	16	0.15	0.18					2	2.63	
16	60	0.06	0.08					3	3.47	
								4	4.31	alternate
								5	5.15	method
										3 0

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.58
corn (field or silage)	4	0.5	2.16
grain (winter or spring)	4	0.5	2.16
pasture (or grass hay)	3	0.5	1.74
other (enter below)			

Intake Family

choose base number for intake family from table below based on texture
base number (#'s 1 through 7) = 6

Intake Family

#	flood	furrow	texture
1	0.3	0.3	heavy clays, silty clay (> 60% clay)
2	0.5	0.35	clays, slit loam (lake laid), sandy clay
3	1	0.4	silty clay loam, clay loam, sandy clay loam, silt loam (stream laid)
4	1.5	0.5	silt loam (wind laid), loam, very fine sandy loam
5	2	0.55	sandy loam, fine sandy loam, gravelly loam
6	3	0.7	very fine sand, loamy sands, gravelly sandy loam
7	4	0.85	sand

If you wish to assign intake family by an alternate method (from Table A-3 in Hubble Report or other) enter your selection below.
Enter a value for both flood and furrow if known, otherwise enter zero.
If you do not wish to assign intake family by an alternate method enter zero for both values.

intake family (flood) = 3
intake family (furrow) = 0.7

soil depth	AWC	AWC accumulated
(inches)	(inches)	(inches)

1	0.07	0.07
2	0.07	0.14
3	0.07	0.21
4	0.07	0.28
5	0.07	0.35
6	0.07	0.42
7	0.165	0.585
8	0.165	0.75
9	0.165	0.915
10	0.165	1.08
11	0.165	1.245
12	0.165	1.41
13	0.165	1.575
14	0.165	1.74
15	0.165	1.905
16	0.165	2.07
17	0.07	2.14
18	0.07	2.21
19	0.07	2.28
20	0.07	2.35
21	0.07	2.42
22	0.07	2.49
23	0.07	2.56
24	0.07	2.63
25	0.07	2.7
26	0.07	2.77
27	0.07	2.84
28	0.07	2.91
29	0.07	2.98
30	0.07	3.05
31	0.07	3.12
32	0.07	3.19
33	0.07	3.26
34	0.07	3.33
35	0.07	3.4
36	0.07	3.47

37	0.07	3.54
38	0.07	3.61
39	0.07	3.68
40	0.07	3.75
41	0.07	3.82
42	0.07	3.89
43	0.07	3.96
44	0.07	4.03
45	0.07	4.1
46	0.07	4.17
47	0.07	4.24
48	0.07	4.31
49	0.07	4.38
50	0.07	4.45
51	0.07	4.52
52	0.07	4.59
53	0.07	4.66
54	0.07	4.73
55	0.07	4.8
56	0.07	4.87
57	0.07	4.94
58	0.07	5.01
59	0.07	5.08
60	0.07	5.15

[illegible]

SOIL CHARACTERISTICS

initials: cb

date: 07/27/00

Soil Type = Medano Complex-81 Medano part (sandy loam)

Source of Soils Data = SCS Jefferson County Soil Survey Book

Issue date December 1979 (current)

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	fur
0	16	0.15	0.18	7.4	8.4	3	6	1	1.98	3	0
16	60	0.06	0.08					2	3.20		
								3	4.04		
								4	4.88	alternate	
								5	5.72	method	
										2	0.

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.86
corn (field or silage)	4	0.5	2.44
grain (winter or spring)	4	0.5	2.44
pasture (or grass hay)	3	0.5	2.02
other (enter below)			

Intake Family

choose base number for intake family from table below based on texture
base number (#'s 1 through 7) = 5

Intake Family

#	flood	furrow	texture
1	0.3	0.3	heavy clays, silty clay (> 60% clay)
2	0.5	0.35	clays, slit loam (lake laid), sandy clay
3	1	0.4	silty clay loam, clay loam, sandy clay loam, silt loam (stream laid)
4	1.5	0.5	silt loam (wind laid), loam, very fine sandy loam
5	2	0.55	sandy loam, fine sandy loam, gravelly loam
6	3	0.7	very fine sand, loamy sands, gravelly sandy loam
7	4	0.85	sand

If you wish to assign intake family by an alternate method (from Table A-3 in Hubble Report or other) enter your selection below.
Enter a value for both flood and furrow if known, otherwise enter zero.
If you do not wish to assign intake family by an alternate method enter zero for both values.

intake family (flood) = 2
intake family (furrow) = 0.55

soil depth	AWC	AWC accumulated
(inches)	(inches)	(inches)

1	0.165	0.165
2	0.165	0.33
3	0.165	0.495
4	0.165	0.66
5	0.165	0.825
6	0.165	0.99
7	0.165	1.155
8	0.165	1.32
9	0.165	1.485
10	0.165	1.65
11	0.165	1.815
12	0.165	1.98
13	0.165	2.145
14	0.165	2.31
15	0.165	2.475
16	0.165	2.64
17	0.07	2.71
18	0.07	2.78
19	0.07	2.85
20	0.07	2.92
21	0.07	2.99
22	0.07	3.06
23	0.07	3.13
24	0.07	3.2
25	0.07	3.27
26	0.07	3.34
27	0.07	3.41
28	0.07	3.48
29	0.07	3.55
30	0.07	3.62
31	0.07	3.69
32	0.07	3.76
33	0.07	3.83
34	0.07	3.9
35	0.07	3.97
36	0.07	4.04

37	0.07	4.11
38	0.07	4.18
39	0.07	4.25
40	0.07	4.32
41	0.07	4.39
42	0.07	4.46
43	0.07	4.53
44	0.07	4.6
45	0.07	4.67
46	0.07	4.74
47	0.07	4.81
48	0.07	4.88
49	0.07	4.95
50	0.07	5.02
51	0.07	5.09
52	0.07	5.16
53	0.07	5.23
54	0.07	5.3
55	0.07	5.37
56	0.07	5.44
57	0.07	5.51
58	0.07	5.58
59	0.07	5.65
60	0.07	5.72

[illegible]

ZWIEFEL SAND - 127

SOIL CHARACTERISTICS

initials: cb

date: 07/27/00

Soil Type = Zwiefel Sand (127)

Source of Soils Data = SCS Jefferson County Soil Survey Book
Issue date December 1979 (current)

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family
lower	upper	lower	upper	lower	upper	lower	upper			flood fur
0	3	0.05	0.07	7.9	8.4	0	0.3	1	0.72	3 0
3	21	0.05	0.07	7.9	8.4			2	1.74	
21	28	0.15	0.17	8.5	9			3	3.66	
28	60	0.15	0.17					4	5.58	alternat
								5	7.50	method
										3 0

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	3.75
corn (field or silage)	4	0.5	2.79
grain (winter or spring)	4	0.5	2.79
pasture (or grass hay)	3	0.5	1.83
other (enter below)			

Intake Family

choose base number for intake family from table below based on texture
base number (#'s 1 through 7) = 6

Intake Family

#	flood	furrow	texture
1	0.3	0.3	heavy clays, silty clay (> 60% clay)
2	0.5	0.35	clays, slit loam (lake laid), sandy clay
3	1	0.4	silty clay loam, clay loam, sandy clay loam, silt loam (stream laid)
4	1.5	0.5	silt loam (wind laid), loam, very fine sandy loam
5	2	0.55	sandy loam, fine sandy loam, gravelly loam
6	3	0.7	very fine sand, loamy sands, gravelly sandy loam
7	4	0.85	sand

If you wish to assign intake family by an alternate method (from Table A-3 in Hubble Report or other) enter your selection below.
Enter a value for both flood and furrow if known, otherwise enter zero.
If you do not wish to assign intake family by an alternate method enter zero for both values.

intake family (flood) = 3
intake family (furrow) = 0.7

soil depth	AWC	AWC accumulated
(inches)	(inches)	(inches)

1	0.06	0.06
2	0.06	0.12
3	0.06	0.18
4	0.06	0.24
5	0.06	0.3
6	0.06	0.36
7	0.06	0.42
8	0.06	0.48
9	0.06	0.54
10	0.06	0.6
11	0.06	0.66
12	0.06	0.72
13	0.06	0.78
14	0.06	0.84
15	0.06	0.9
16	0.06	0.96
17	0.06	1.02
18	0.06	1.08
19	0.06	1.14
20	0.06	1.2
21	0.06	1.26
22	0.16	1.42
23	0.16	1.58
24	0.16	1.74
25	0.16	1.9
26	0.16	2.06
27	0.16	2.22
28	0.16	2.38
29	0.16	2.54
30	0.16	2.7
31	0.16	2.86
32	0.16	3.02
33	0.16	3.18
34	0.16	3.34
35	0.16	3.5
36	0.16	3.66

37	0.16	3.82
38	0.16	3.98
39	0.16	4.14
40	0.16	4.3
41	0.16	4.46
42	0.16	4.62
43	0.16	4.78
44	0.16	4.94
45	0.16	5.1
46	0.16	5.26
47	0.16	5.42
48	0.16	5.58
49	0.16	5.74
50	0.16	5.9
51	0.16	6.06
52	0.16	6.22
53	0.16	6.38
54	0.16	6.54
55	0.16	6.7
56	0.16	6.86
57	0.16	7.02
58	0.16	7.18
59	0.16	7.34
60	0.16	7.5

[illegible]

80th Percentile Values of Monthly ET (mm/day)

Station: Hamer 4 NW

		ETR	ALFH	ALFS	BEANS	F CRN	SILGE	S CRN	PEAS	POTAT	SBEET	SGRAN	WGRAN	PAST	OF
March	AVE ET	0.86		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	
March	STDD ET	0.48		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	
March	80PCT ET	1.26	U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	
			S												
April	AVE ET	4.07	E	2.27	0.00	0.00	0.00	0.00	1.22	0.00	1.22	1.22	2.82	1.69	
April	STDD ET	0.49		0.27	0.00	0.00	0.00	0.00	0.15	0.00	0.15	0.15	0.34	0.20	
April	80PCT ET	4.48		2.50	0.00	0.00	0.00	0.00	1.35	0.00	1.35	1.35	3.11	1.86	
			E												
May	AVE ET	5.74	T	4.99	0.00	0.00	0.00	0.00	2.22	1.72	1.72	2.33	5.65	4.42	
May	STDD ET	0.49	R	0.42	0.00	0.00	0.00	0.00	0.19	0.15	0.15	0.20	0.48	0.37	
May	80PCT ET	6.15		5.34	0.00	0.00	0.00	0.00	2.38	1.85	1.85	2.50	6.05	4.73	
June	AVE ET	7.37	F	6.58	0.00	0.00	2.21	0.00	6.11	3.89	2.52	6.83	7.37	5.68	
June	STDD ET	0.42	O	0.38	0.00	0.00	0.13	0.00	0.35	0.22	0.14	0.39	0.42	0.33	
June	80PCT ET	7.72	R	6.90	0.00	0.00	2.32	0.00	6.40	4.08	2.64	7.16	7.72	5.96	
July	AVE ET	7.96		6.46	0.00	0.00	4.25	0.00	4.23	6.64	6.58	7.94	7.87	6.13	
July	STDD ET	0.30	A	0.24	0.00	0.00	0.16	0.00	0.16	0.25	0.25	0.30	0.30	0.23	
July	80PCT ET	8.21	L	6.66	0.00	0.00	4.38	0.00	4.36	6.85	6.79	8.19	8.12	6.32	
			F												
August	AVE ET	6.24	A	3.26	0.00	0.00	5.89	0.00	1.09	4.99	6.22	3.44	2.52	4.81	
August	STDD ET	0.35	L	0.18	0.00	0.00	0.33	0.00	0.06	0.28	0.35	0.19	0.14	0.27	
August	80PCT ET	6.53	F	3.41	0.00	0.00	6.17	0.00	1.14	5.23	6.51	3.60	2.64	5.04	
			A												
September	AVE ET	4.48		1.63	0.00	0.00	4.02	0.00	0.00	2.97	4.09	0.00	0.00	3.45	
September	STDD ET	0.40		0.15	0.00	0.00	0.36	0.00	0.00	0.26	0.36	0.00	0.00	0.31	
September	80PCT ET	4.82	H	1.76	0.00	0.00	4.32	0.00	0.00	3.18	4.39	0.00	0.00	3.71	
			A												
October	AVE ET	2.72	Y	0.58	0.00	0.00	1.69	0.00	0.00	0.00	2.03	0.00	0.00	2.09	
October	STDD ET	0.34		0.07	0.00	0.00	0.21	0.00	0.00	0.00	0.25	0.00	0.00	0.26	
October	80PCT ET	3.01		0.64	0.00	0.00	1.87	0.00	0.00	0.00	2.24	0.00	0.00	2.31	

ET and standard deviation data (AVE ET and STDD ET) taken from Appendix E (unpublished) of Brockway, C.E., and R.G. Allen, 1983, Estimating Consumptive Irrigation Requirements for Crops in Idaho, Idaho Water and Energy Resources Research Institute.

80th Percentile ET values (80PCT ET) calculated based on Walpole, R.E., and R.H. Meyers, 1985, third edition, PROBABILITY AND STATISTICS FOR ENGINEERS AND SCIENTISTS, New York: Macmillan Publishing Company, pp. 132-144 and 574.

Lloyd Gasser Theoretical Based on WMO
Exam of New pump

B. Conton 8/23/00

- 1) PCC of new well = 358 KWH/acre foot, fair confidence
- 2)
$$PCC = \frac{TDH \times 1.02}{\text{efficiency}} \rightarrow TDH = \frac{PCC \times \text{efficiency}}{1.02}$$
- 3)
$$TDH = \frac{358 \times .60 (\text{assumed})}{1.02} \approx 210 \text{ ft}$$

$$TDH = \text{Lift} + \text{Friction} + 2.31 \times \text{PSI}$$

$$\text{Lift} + \text{Friction} = (210) - (2.31 \times 80) \approx 25 \text{ ft}$$

4) Theoretical of old pump:

$$GPM = \frac{\text{Water HP} \times 3960}{TDH} = \frac{15 \times .60 (\text{assumed}) \times 3960}{25}$$

$$= 1420 \text{ GPM}$$

$$= 3.1 \text{ cfs}$$

5) Using Eric Venn assumption of 70% eff

$$\frac{15 \times .7 \times 3960}{25} = 1660 \text{ GPM}$$

$$\approx 3.8 \text{ g/s}$$



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

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

PHILIP E. BATT
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

January 14, 1995

Loyd L Gasser
2303 E 2800 N
Hamer, ID 83425

RE: Transfer of Water Right No. 31-04023/31-04024/31-07290

Dear Water Right Holder(s):

Enclosed is a copy of your approved Application for Transfer of the above referenced water right (Transfer No. 4350). Please be sure to thoroughly review the "CONDITIONS/REMARKS:" as listed on the transfer.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Jim Johnson', with a horizontal line extending to the right.

JIM JOHNSON, Manager
Water Right Permits Section

JJ:rl

Enclosure

RECEIVED
JAN 19 1995

MEMORANDUM

TO: FILE 31-64024

FROM: PAM SKAGGS 28

RE: TRANSFER # 4350

DATE: 8-31-94

Original Transfer Application, Form and correspondence
regarding the above referenced Transfer is located within
file # 31-64023.

RECORDED
JAN 19 1995

Remarks: The total instantaneous diversion of water from all points of diversion under Transfer No. 4350 shall not exceed 2.34 cfs, nor total combined annual volume of 409.2 af. Combined Right Nos. 31-04023, 31-04024 and 31-07290 are limited to a total combined irrigation of 115 acres in the place of use described above in a single irrigation season.

WR0749NP
No. T31-04024

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 11/23/94
PAGE: 2

Remarks: Right No. 31-04024 is limited to the irrigation of 85 acres in the place of use described above in a single irrigation season.

Dates: App. Received: Priority Date: 03/20/1940
Proof Due Date: Proof Made Date:
Exam Made Date: Exam Sent to S.O.:
Licensed Date:

Misc: Water District Number: 31 Field Exam Fee:

Comments: Date: 05/02/1994 User-ID: BODELL Subject: TRANSFER NO. 4350
AN EXISTING WELL 1/4 MILE TO THE WEST OF LISTED WELL IS A MORE
RELIABLE SOURCE OF WATER.
Transfer No. 4350 adds a point of diversion and changes the place
of use under right Nos. 31-04023/4024 & 7290. The QQ is also
changed on the recorded point of diversion under Right No.
31-04023. The change in place of use reflects a single combined
system with a permissible place of use. (Updated 11-23-94 Skaggs)

Audit: 05/02/94 BODELL 11/23/94 PSKAGGS



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
EASTERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1515 Lincoln Road
Idaho Falls, Idaho 83401
(208) 523-7186

March 17, 1978

RE: Claim to a Water Right No. 31-4023, 31-4024 and 31-4025

Mr. Loyd L. Gasser
Hamer,
Idaho 83425

Dear Mr. Gasser:

The Department of Water Resources has completed the processing of your claims to water rights and no further action is authorized under Sections 42-225a and 42-225b, Idaho Code. Your claims will be retained in our files and will be available at any time for use by you or the court.

As you are aware, the filing of your claims do not, in themselves, guarantee you water rights, it only records and preserves the information and the evidence which you included in your claims.

If, at a later date, you find that you have additional information or supporting evidence that you would like to have included in your claim files, you may have that information or evidence added at any time. Please refer to your claim numbers when corresponding with this office.

We are enclosing, for your records, a copy of your claims. If you have any questions or if we can be of further assistance, please feel free to call upon us.

Very truly yours,

RONALD D. CARLSON
Supervisor,
Eastern Region

RDC:CW

Enc: Copy of Claim



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
EASTERN REGION

John V. Evans
Governor

C. Stephen Allred
Director

1515 Lincoln Road
Idaho Falls, Idaho 83401
(208) 523-7186

March 13, 1978

RE: Application for Permit No. 31-7290 GASSER
Claim to a Water Right No. 31-4023 "
31-4024 "
31-4025 "

Rigby Star
P.O. Box 37
Rigby, ID 83442

Gentlemen:

Would you please submit an affidavit of publication and certified bill in connection with the above referenced application. The legal notice was to have been published in your paper on February 23 and March 2, 1978.

Your cooperation in this matter is greatly appreciated.

Very truly yours,

COLLEEN WRAY
Secretary

CW:CD

February 17, 1978

RE: Application for Permit No. 31-7290 GASSER
Claim to a Water Right No. 31-4023 "
31-4024 "
31-4025 "

Rigby Star
P.O. Box 37
Rigby, Idaho 83442

Gentlemen:

Enclosed you will find a legal notice which we wish to have published once a week for two consecutive weekly issues of your newspaper. We have inserted the publication dates allowing time for you to submit us a galley proof for review before publication.

After sending us a galley proof, proceed with the publication on the dates we have inserted, assuming the notice is correct. If we have any corrections, we will notify you before the first publication. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill.

Very truly yours,

RONALD D. CARLSON
Supervisor,
Eastern Region

Bill submitted 3-16-78 by CW

RDC:CW

Enc: Legl. Not. (4)

NOTICE OF CLAIM TO A WATER RIGHT

NO. 31-4024

Notice is hereby given that Lloyd L. Gasser,
Hamer, Idaho
has filed a claim to a water right established by diversion and application
to beneficial use of 1.70 cubic feet per second ~~XXXXXXXXXXXXXXXXXXXX~~
of water from a ground-water source
with point of diversion in the SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 4, T. 7N, R. 36E, B.M.,
Jefferson County

The water is claimed to be used from Apr. 1 to Nov. 1 for the
irrigation of 85 acres
with a priority of March 20, 1940;
the place of use is within the E $\frac{1}{2}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$, Sec. 4, T. 7N, R. 36E, B.M.

Any exception to this claim of water right may be filed with the Idaho
Department of Water Resources, 1515 Lincoln Road, Idaho Falls, Idaho, 83401.

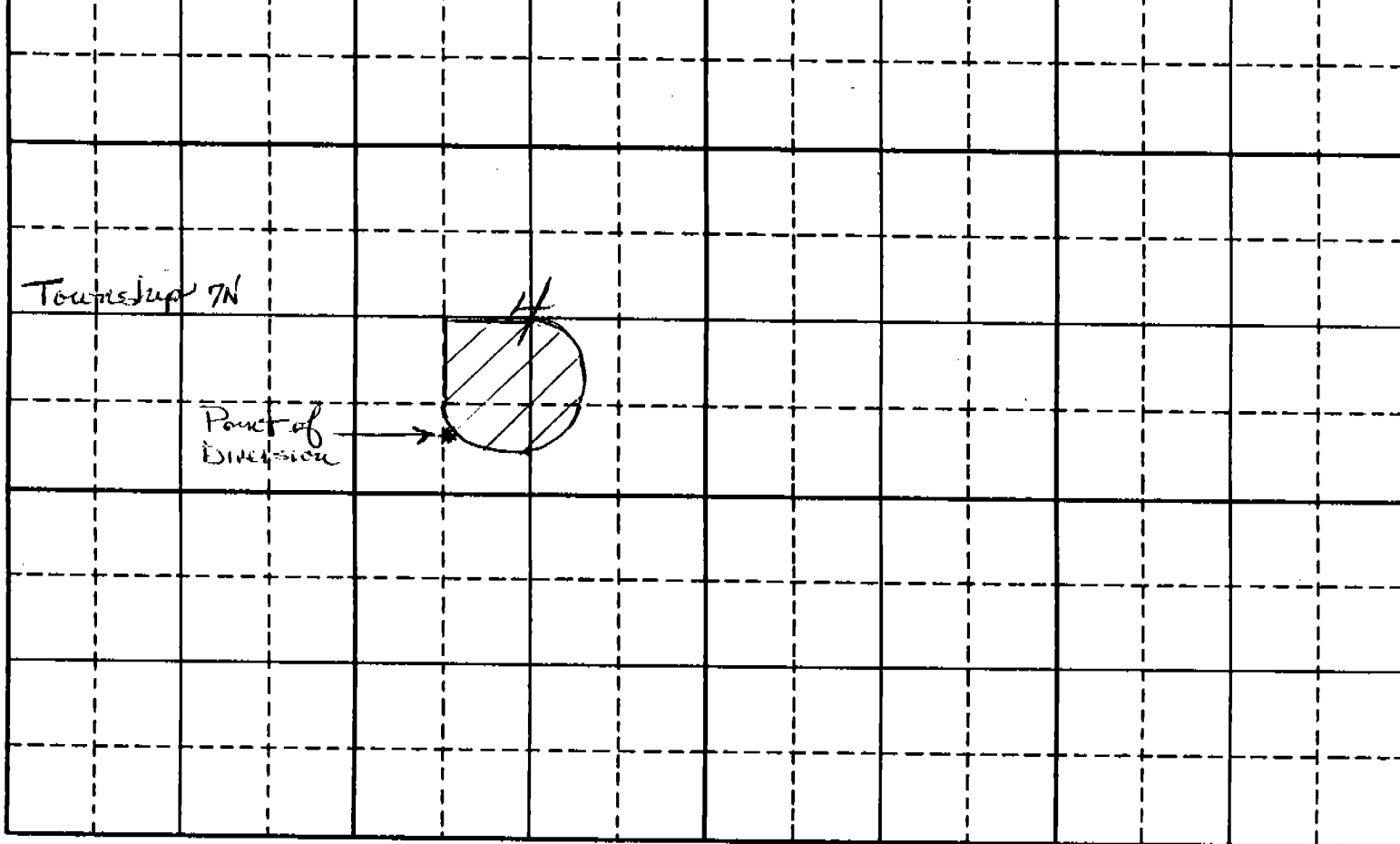
C. STEPHEN ALLRED
~~XXXXXXXXXXXXXXXXXXXX~~

Director

Published in the Rigby Star, Rigby, Idaho
on February 23 and March 2, 1978

filed
the 9th

DECLASSIFIED



Scale: 2 Inches equal 1 mile.

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

State of Idaho)
) ss.
 County of Bonneville)

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

Lloyd L. Gasser
 (Claimant)

Sworn to before me this 15th day of February, 19 78.

Allen Wray
 Notary Public

Residing at Idaho Falls, Idaho

My commission expires 6/15/81

For Department Use Only

Received by <u>CW</u>	Date <u>2-15-78</u>	Exception filed by:	Forwarded to	Date
Prelim. check by <u>ARK</u>	Date <u>2/15/78</u>		claimant by:	
\$10.00 fee received by <u>CW</u>	Date <u>2-15-78</u>			
Approved for publication by <u>me</u>	<u>3-16-78</u>	<u>#9830</u>		
Published in <u>Highway Star</u>				
Dated <u>Feb. 23rd Mar. 2-1978</u>				

Affidavit of Publication

THE RIGBY STAR

NOTICE OF CLAIM TO A WATER RIGHT

No. 31-4024

Notice is hereby given that Loyd L. Gasser, Hamer, Idaho has filed a claim to a water right established by diversion and application to beneficial use of 1.70 cubic feet per second of water from a ground-water source with point of diversion in the SE 1/4 SW 1/4, Sec. 4, T. 7N, R. 36E, B.M., Jefferson County.

The water is claimed to be used from Apr. 1 to Nov. 1 for the irrigation of 85 acres with a priority of March 20, 1940; the place of use is within the E 1/2 SW 1/4, W 1/2 SE 1/4, Sec. 4, T. 7N, R. 36E, B.M.

Any exception to this claim of water right may be filed with the Idaho Department of Water Resources, 1515 Lincoln Road, Idaho Falls, Idaho, 83401.

C. Stephen Allred
Director

Published in The Star, Rigby, Idaho on February 23 and March 2, 1978.

STATE OF IDAHO,

County of Jefferson

ss

I, Russell Jones, do solemnly swear that I am the Editor of THE RIGBY STAR, a weekly newspaper as defined by Idaho Codes Annotated Section 58-106 as amended, and that said newspaper is a weekly newspaper, printed and published at Rigby, Jefferson County, Idaho, having a general circulation in said county, and that said newspaper has been printed and published as a weekly newspaper, in said county for more than 78 consecutive weeks prior to the first publication of the attached notice.

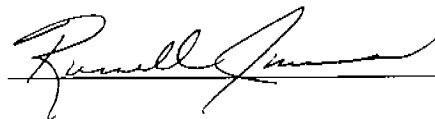
And affiant further says that at the times herein mentioned said publication as per clipping attached, was published in said newspaper in the regular and entire issue thereof, and not in any supplement issue thereof, for 2 consecutive issues thereof; first publication having been made on the

Twenty-Third day of February, 1978

and the last publication on the

Second day of March, 1978

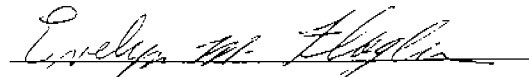
And affiant further says that at the times herein mentioned said newspaper was made up of at least four pages of at least five columns each printed from type matter of at least seventeen and three-fourths inches depth; and that there are at least two hundred bonafide subscribers in Jefferson County.



Editor

Subscribed in my presence and sworn to before me this Second day of March, 1978.

[SEAL]



Notary Public for the State of Idaho
Residence and P. O. Address, Rigby, Idaho.

My commission expires Non-Exper, 19

Publication Fee: \$ 11.70

RECEIVED
JAN 23 1978

A31-04024

March 14, 1994

Ray and Geneva Sanders were living on what is now the Loyd L. Gasser farm in Hamer, Idaho from 1939 until 1947. During this time irrigation wells numbered A31-04023 and A31-04024 were drilled, both of which are located in Sec. 4, Twn. 7N, Rng. 36E. A31-04024 was completed March 20, 1940 and A31-04023 was drilled in 1943. They were both put to beneficial use to raise crops at the time of their completion.

Signed:

Geneva Sanders

Ed 10-4-97

Jefferson

Alan McGraw

MICROFILMED

APR 14 1994



State of Idaho
DEPARTMENT OF WATER RESOURCES

900 N. Skyline Dr., Idaho Falls, Idaho 83402-1718 - (208) 525-7161 - FAX: (208) 525-7177

EASTERN REGION
FEBRUARY 9, 1993

CECIL D. ANDRUS
GOVERNOR
R. KEITH HIGGINSON
DIRECTOR

*

RE: EVIDENCE OF PRIORITY

Dear Claimant(s):

The Notice(s) of Claim identified with the number shown above in the "address" label and at the "end" of this letter has been filed in the Snake River Basin Adjudication (SRBA). The Notice indicates water usage is based on "Beneficial Use". 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, at or on the place of use identified on the Notice. The date the water was first put to use, known as the priority date, has not been confirmed by a License, Decree, or Permit. For this reason, proof must be provided supporting the priority date. **As the claimant, you are responsible for submitting the necessary proof to support the priority date.**

It is important that each element of the Notice be substantiated. For instance, regarding claims for irrigation, the evidence should tend to show that diversion works were in place, that they were capable of diverting the claimed diversion rate, and that the diverted water was beneficially used on the entire claimed place of use on or before the claimed priority date.

For your reference, I have provided a printout of your Notice and the pamphlet entitled "Evidence of Priority". The pamphlet describes the types of evidence required and suggests which documents will fulfill this requirement. While I encourage you to read all of the pamphlet, 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".

EVIDENCE OF PRIORITY
Page - 2 -

It is our goal to recommend historical water rights within the Snake River Basin as accurately as possible. Field exams to verify other items of the Notice have been or soon will be conducted by Department personnel.

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

Please submit the required evidence supporting the priority date by MARCH 9, 1993, referencing all documents with the corresponding Notice number. If you have any questions not covered by this letter or the enclosed pamphlet, please contact this office.

Respectfully submitted,


Eric Verner
Senior Water Agent

EV:jt

Enclosure: Brochure on "Evidence of Priority"
Proof Report

Other Water Right Numbers Needing Evidence of Priority

MICROFILMED

APR 14 1994

10/27/1988

SRBA CLAIMS RECEIVING CHECKLIST

CLAIMANT'S NAME Lloyd G. Gower CLAIM IDENT. NO. A31-04024
DATE RECEIVED 11-28-88 CK # 536 AMOUNT \$ 135

	YES	NO
1. Is the name and address complete with zip code?	☒	☐
2. Is a priority date entered?	☒	☐
Is the water use exempt from the Permit requirements, or if it is not exempt, has a Permit been approved or a License issued? A Permit is required: (1) for groundwater developed after March 25, 1963 (except single family domestic and stockwater wells using less than 13,000 gpd), or (2) for surface water developed after May 20, 1971 (except for instream stockwater). USE CARE IF CLAIM IS RETURNED. REFER TO ADJUDICATION MEMOS # 1 (ADJ. CLAIMS/APPLICATIONS) AND # 9 (REJECTION OF CLAIMS). EXPLAIN IN COMMENTS.		
3. (a) Is a source entered?	☒	☐
(b) Is a tributary to entered? (if required)	☒ N/A	☐
4. Is the legal description of the p.d. sufficient?	☒	☐
5. Is there a description of the diverting works?	☒	☐
6. Are the water uses appropriate for the form? The short form is limited to domestic and stockwater uses with direct diversion. All claims that include storage or instream stockwater must use long form.	☒	☐
Is the period of use included?	☒	☐
Is a quantity claimed for each use?	☒	☐
7. Is a total quantity claimed entered?	☒	☐
8. If required is a consumptive use entered?	☐ N/A	☒
Is the consumptive use correct?	☐ N/A	☐
9. Are the non-irrigation uses listed properly? If this claim is on the short form, and more than one domestic use is listed, single ownership must be stated. If not under single ownership, see Adjudication Memo # 4.	☒ N/A	☐
10. Is (are) the place(s) of use entered?	☒	☐
11. Is (are) the county(ies) entered?	☒	☐
12. Is the ownership of p.u. checked?	☒	☐
13. Are other water rights listed or "none" indicated?	☐	☒
14. If required, are remarks correct? (If the claimant does not own the place of use, authority for filing the claim must be explained in the remarks.)	☒ N/A	☐
15. Is the basis of the claim checked?	☒	☐
16. Is the claim signed by the claimant, and is the signature appropriate? (If an individual is the claimant, has that individual signed the claim, or if an organization is the claimant, is the organization signature block complete?)	☒	☐
Has the claim been signed, sealed, and dated by a notary?	☒	☐
Was this claim filed on time, or was an extension granted?	☒	☐
Is the fee enclosed correct?	☒ Exempt	☐
If this claim is based on an existing water right, has the identification number been entered?	☒ N/A	☐
Should this claim be receipted and data entered?	☒	☐

E005478

Claim checked by: MICROFILMED
NOV 17 1992

Comments: