

C420
2026
T793

E13
784

A
371

A1
77.0

C15
1514

35 36

30.2

29.7

69

71

25.1

153

55.1

3
55.5

P.O.

45.0

15

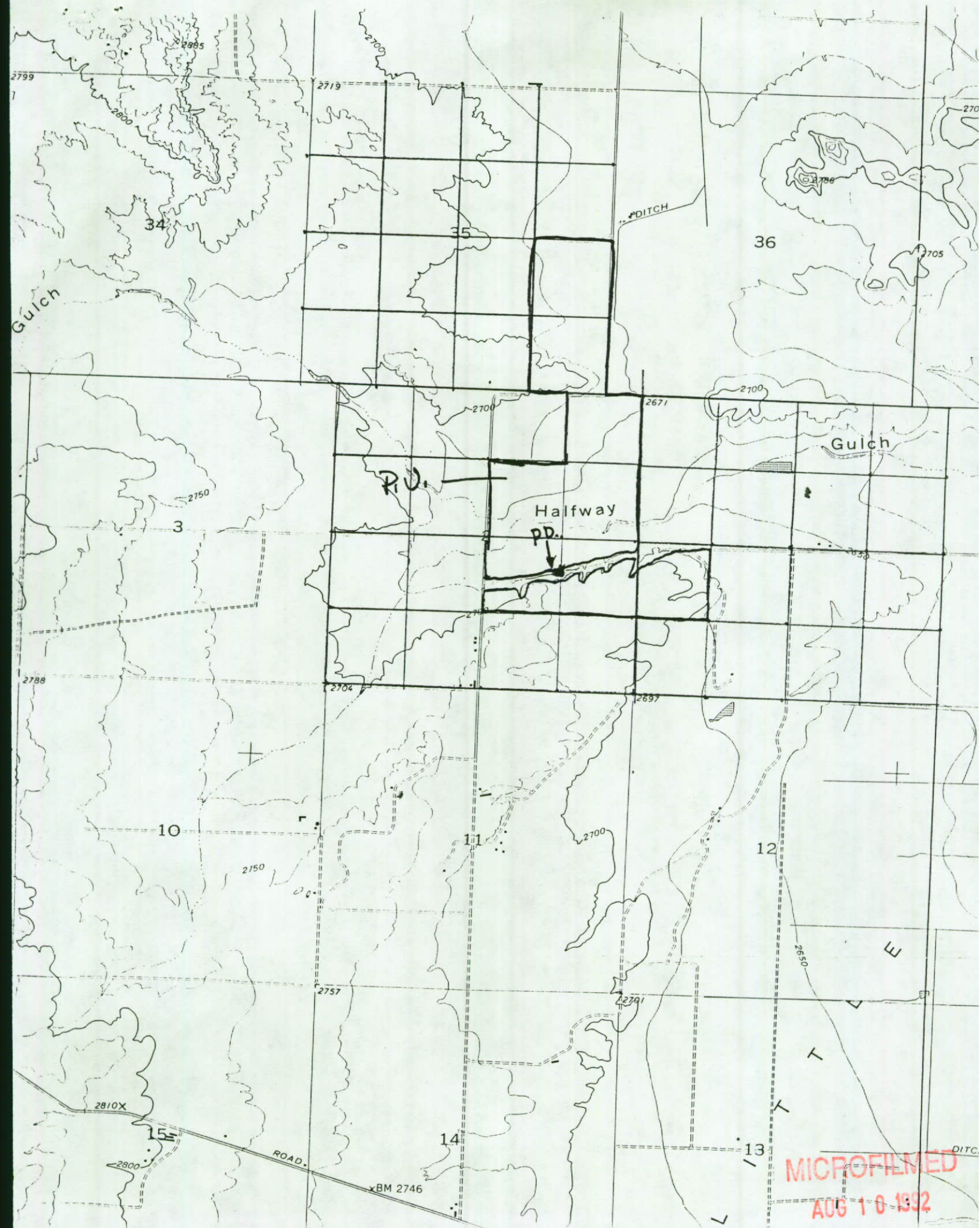
5728

mainline

C100
236
T129

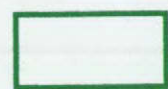
(12")

MICROFILMED



Idaho Dept of Water Resources

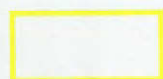
~~T07, R3, S01, 12~~ ^{fw}
 T06S, R4E, S 35
 T07S, R4E, S01, 02
 Claim(s): 51-07147,
 Claimant(s): Mastre
 Prepared by: Sue Bock
 Date: 06/29/1998



Place of Use



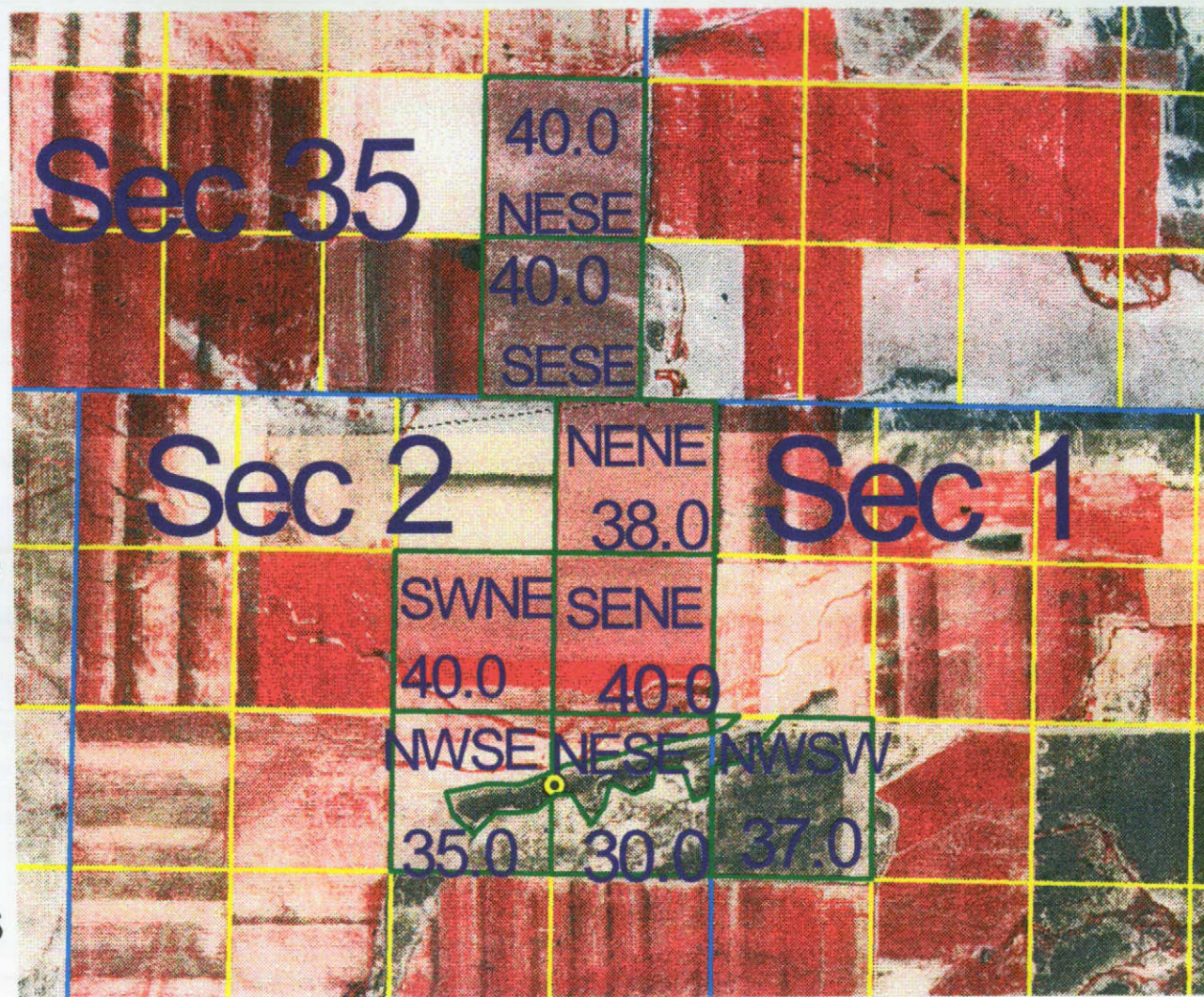
Point of Diversion



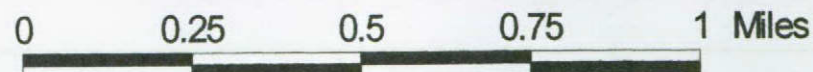
1/4 1/4 lines



Section Lines



1987 NAPP Photo



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 51-7147

1. Owner: WILBUR MASTRE or RABARA MASTRE Phone No. 834-2376
Current Address: H.C. 85 Box 154-13 POINEER ID. 83604
2. Accompanied by: Same EXAM. DATE: 6/22/88
Address: _____ Phone No. _____
Relationship to Permit Holder: OWNER

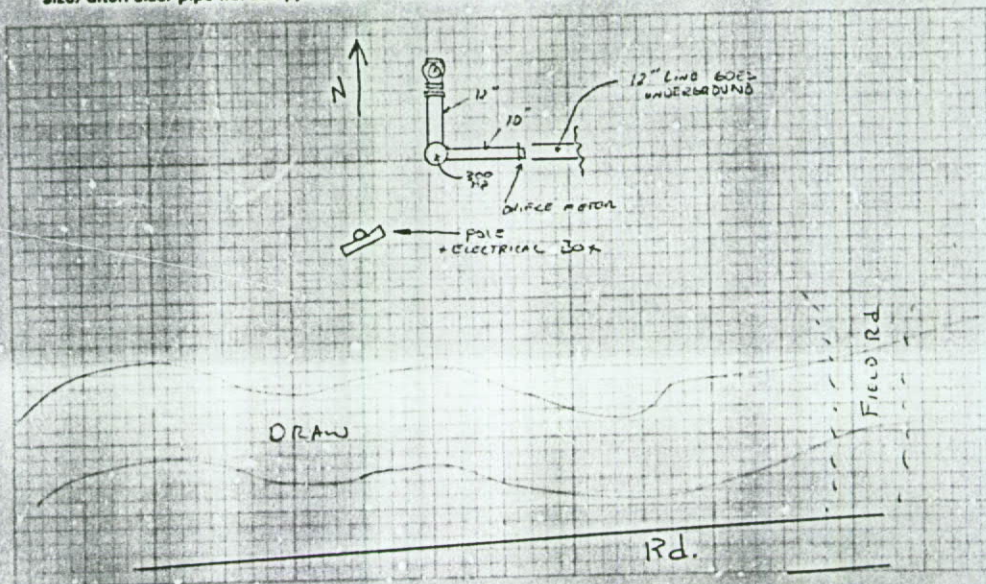
3. Source: GROUND WATER tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: NONE ☐ Copies Attached
2. Other water rights with same point of diversion: NONE ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. Diversion System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



Scale: 1" = No Scale

2. ☒ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required). ☒ Aerial Photo Attached
(required for irrigation of 10 acres or more).
☒ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
ORIFICE						
METER						

2. Measurements:

54-56 IN RISE IN TURE 8" ORIFICE
10" PIPE
WATER LEVEL ? (EQUATED OFF ON PRACT)
* SEE ATTACHED SHEET FOR CALCULATION

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method: ORIFICE = 4.57 cfs

286 ac x .02 cfs/ac = 5.72 cfs
Paved For 5 cfs

2. Alternate Method for Checking Purposes: THEORETICAL = $\frac{300 \text{ MP} \times 88 \times .8}{(2.31 \times 2) + (350)} = 5.95 \text{ cfs} > 4.57 \text{ cfs}$
ESTIMATE. O.K.

F. PUMP EFFICIENCY DATA (Optional) LAND IN CRP (DEMAND NOT KICKED IN)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)
Total Head: (1) + (2) = _____ (3); Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)
Meter Input KW: 3.6 x 24 KH x _____ CTR or 80 MULT x _____ PTR x _____ N/ _____ T = _____ (6)
Meter Input HP: (6) x 1.34 = _____ (7)
Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)
Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 286 \text{ ac} \times 5.0 \text{ cfs/ac} = 1,430 \text{ cfs}$
 $V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 4.57 \text{ cfs} \times 245 \text{ days} \times 1.9835 = 2,220.8$
 $V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 1,430 \text{ cfs}$

2. Volume Calculations for Other Uses:

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

System consists of 16" Cased Well 1800 FT Deep with a 300 HP Turbine Pump Discharge Line is a 10" Expanding to a 12" then going underground to 12" P.V.C. Mainline. At the time of the exam the land was in C.R.P. so no sprinkler system was set up, so an open discharge measurement was done using a orifice.

☐ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	GENERAL	300	EMJS26119	JOHNSTON	5149 (10')
	ELECTRIC				

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			NE	SE	2	7S	4E	DWYHEE	USGS Quad & Aerial Photo
			NW	SE	"	"	"	"	"

ONE POINT ON 1/4 LINE

6. Place(s) of Use:

Indicate Method of Determination

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
6S	4E	3S													39			39	78 ac
7S	4E	2													28	30			171
"	"	1									37								37
																			5-286

Do not use this space

H. REMARKS AND OVERLAP REVIEW ANALYSIS

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	3/15	11/15	457 cfs	1,430 afa
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			457 cfs	1,430 afa

2. Recommended Amendments

- ☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

J. AUTHENTICATION

Field Examiner's Name QUENTIN NESBITT

Signature Quentin Nesbitt

Certification Date _____

Field Report Preparation Date 8-22-88

1-8-90

CONSULTANT SEAL

- K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.



is not exactly equal to the ambient pressure, a correction factor C may be added leading to

$$V = C\sqrt{2\Delta p/\rho}$$

(6-28)

Typical values of C are included on Fig. 6-15 for the different types of Pitot tubes, but high accuracy requires individual calibration. In addition to the conventional Pitot tube shown in Fig. 6-15a, part b contains a simpler *stagnation tube* in which the static or ambient pressure is obtained separately at the side of the pressure conduit. The advantage herein is that the stagnation tube can be made with a smaller diameter, thereby yielding a reading that more closely represents a point measurement. Part c, called a *Cole pitometer*, is designed for easy insertion into the pipe, whereupon one tube can be rotated so as to point in the downstream direction.

If the pipe discharge is of primary interest, the velocity may be measured at selected points across the conduit section and the discharge computed by graphic integration. If somewhat lower accuracy is acceptable, a single velocity measurement at the pipe centerline can be correlated with the discharge.

Discharge Measurement

Discharge in a pipe is most commonly measured using some form of differential head meter, such as the three included in Fig. 6-16. In each case the governing

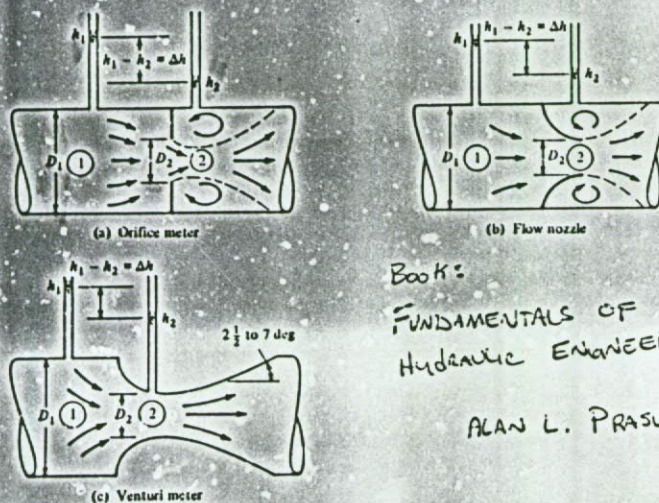


Figure 6-16 Pipe flow meters.

equations may be obtained by judicious application of equations. For details refer to any textbook on fluid mechanics expressed as a function of the pressure or piezometric head meter. With respect to the latter, the discharge is

$$Q = C_D A_2 \sqrt{2g(h_1 - h_2)}$$

Regardless of meter type, the area A_2 is the minimum orifice coefficient. The piezometric heads h_1 and h_2 are obtained using manometers (as shown) or pressure gauges.

The orifice meter is perhaps the most common meter more than an orifice (usually machined) in a plate that is flanges in a pipe. Its biggest disadvantage is a rather large head loss where the pressure taps are located, there may be a magnitude of the discharge coefficient. An in-place calibration is recommended, in fact, for all meters when in use. For a sharp-edged orifice, typical orifice meter coefficients

The flow nozzle reduces the head loss in exchange for a larger head loss. On the other hand, the venturi meter almost eliminates head loss, but is the most expensive. If the angle of divergence (Fig. 6-16c) is too large, the flow will be unable to follow the diverging boundary and a low head loss will not be achieved. If actual conditions are possible, then the venturi meter will usually provide the most accurate measurement.

Both the flow nozzle and the venturi meter may be used for analysis, whereupon the discharge coefficient is determined

$$C_D = \frac{1}{[1 - (A_2/A_1)^2]^{1/2}}$$

On the average, Eq. 6-29, when used with Eq. 6-30, overestimates the discharge by about 2 percent since friction through the meter is ignored.

Some care is required in the installation and operation of these meters. The orifice should be a stretch of 10 diameters of straight pipe ahead of the orifice.

Table 6-5 ORIFICE METER COEFFICIENT C_D

Orifice/pipe diameter ratio D_2/D_1	C_D
0.2	0.60
0.3	0.605
0.4	0.61
0.5	0.62
0.6	0.65
0.7	0.70
0.8	0.77

BOOKS

FUNDAMENTALS OF
HYDRAULIC ENGINEERING

ALAN L. PRASUN

51-7147

51-7147

$$Q = C_D A_2 \sqrt{2g(h-h_2)}$$

$$C_D = \frac{8}{10} = .77$$

$$A_2 = \frac{\pi D^2}{4} = \frac{\pi (8\frac{1}{2})^2}{4} = .319 \text{ ft}^2$$

$$g = 32.2 \frac{\text{ft}}{\text{sec}^2}$$

$$h_1 = 54 \text{ in} = 4.5 \text{ FT}$$

$$h_2 = 0$$

$$Q = .77(.319 \text{ ft}^2) \sqrt{2(32.2 \frac{\text{ft}}{\text{sec}^2})(4.5 \text{ FT} - 0)} = 4.57 \text{ cfs}$$

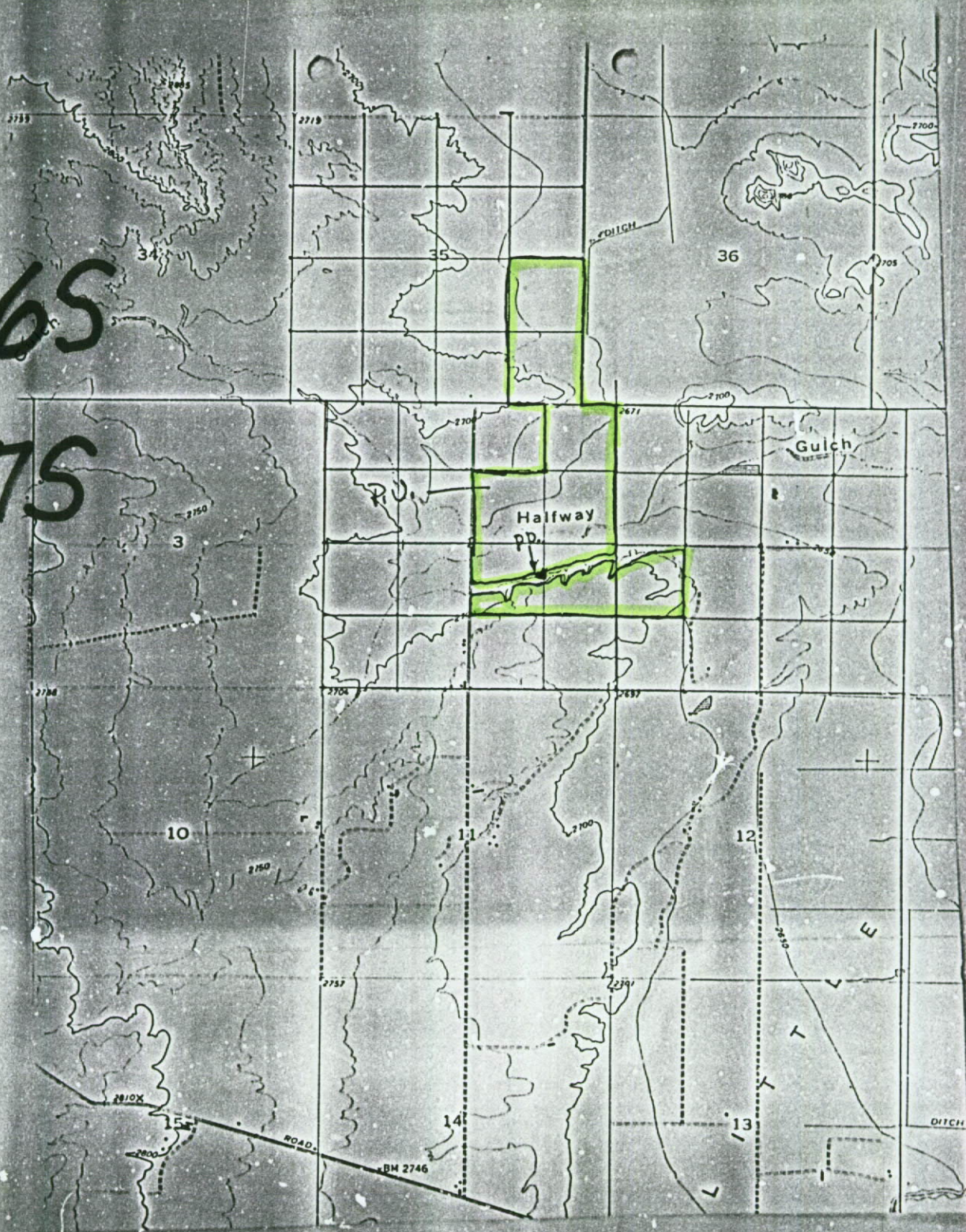
$$228.74 \text{ in}^3/\text{H}$$

$$2,053.14 \text{ G.P.M.}$$

A51-07147

65

75



4E

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAWDATE: JAN-6-1999
PAGE: A-5-----
RIGHTS FROM: SOURCE: GROUNDWATER

RIGHT NUMBER: 51-07147

NAME & ADDRESS: WILBUR C MASTRE
BARBARA MASTRE
PO BOX 393
GRANDVIEW ID 83624-0393

SOURCE: GROUNDWATER

QUANTITY: 4.57 CFS
1430.0 AFY

PRIORITY DATE: 03/29/1980

POINT OF DIVERSION: T07S R04E S02 NESE Within Owyhee County
NWSEPOINT OF DIVERSION IS ON LINE DIVIDING T07S, R04E, S02, NESE
AND NWSE.

PURPOSE AND PERIOD OF USE:	PURPOSE OF USE	PERIOD OF USE	QUANTITY
	IRRIGATION	03-15 11-15	4.57 CFS 1430.0 AFY

THE USE OF WATER FOR IRRIGATION UNDER THIS RIGHT MAY BEGIN AS
EARLY AS MARCH 1 AND MAY CONTINUE TO AS LATE AS NOVEMBER 15,
PROVIDED OTHER ELEMENTS OF THE RIGHT ARE NOT EXCEEDED. THE USE
OF WATER BEFORE MARCH 15 UNDER THIS REMARK IS SUBORDINATE TO ALL
WATER RIGHTS HAVING NO SUBORDINATED EARLY OR LATE IRRIGATION USE
AND A PRIORITY DATE EARLIER THAN THE DATE A PARTIAL DECREE IS
ENTERED FOR THIS RIGHT.

PLACE OF USE:	IRRIGATION	Within Owyhee County				
	T06S R04E S35	NESE 39	SESE 39			
	T07S R04E S01	NWSW 37				
	S02 Lot 1 (NENE)37	SWNE 39	SENE 37		NESE 28	
		NWSE 30				
	286 ACRES TOTAL					

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

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAWDATE: JAN-6-1999
PAGE: A-6-----
RIGHTS FROM: SOURCE: GROUNDWATER

RIGHT NUMBER: 51-07147 (CONT)

OTHER PROVISIONS: (CONT)

THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF WATER
IN BASIN 51 SHALL BE ADMINISTERED SEPARATELY FROM ALL OTHER WATER
RIGHTS IN BASIN 51:

WATER RIGHT NO.	SOURCE
NONE	NONE

THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF WATER
IN BASIN 51 SHALL BE ADMINISTERED SEPARATELY FROM ALL OTHER WATER
RIGHTS IN THE SNAKE RIVER BASIN:

WATER RIGHT NO.	SOURCE
NONE	NONE

ALL WATER RIGHTS WITHIN BASIN 51 ARE FROM CONNECTED SOURCES
OF WATER IN THE SNAKE RIVER BASIN AND SHALL BE ADMINISTERED
CONJUNCTIVELY.

EXPLANATORY MATERIAL: BASIS OF CLAIM - LICENSE

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

In Re SRBA	)	NOTICE OF COMPLETED
	)	ADMINISTRATIVE PROCEEDINGS
Case No. 39576	)	
	)	Water Rights 51-07147, 51-07036C
	)	and 51-07115

IDWR has completed the following Administrative Proceeding:

☒ Change of Address
☐ Substitution of Party
☐ I.C. 42-222 Transfer

CHANGE OF ADDRESS

Name of Claimant: WILBUR C MASTRE
New Address: PO BOX 393
GRANDVIEW ID 83624-0393
Phone: (208) 834-2833

Claimant's Water Rights: 51-07147, 51-07036C and 51-07115

The Claimant has filed Objections or Responses to the following water
rights:

NOTICE OF COMPLETED
ADMINISTRATIVE PROCEEDING
1/6/1999

51-07147, 51-07036C and 51-07115

PAGE 1

IDWR certifies that it has completed its investigation into the changes to the elements of the water rights listed above as set forth in the attached Amended Director's Reports for said water rights. No other changes have been made to the elements of these water rights except as set forth above.

IDWR has served copies of the Notice of Completed Administrative Transfer and Amended Director's Reports(s) on the claimant(s), prior claimants(s) and all parties in the subcases affected, if any, as reflected on the attached certificate of mailing.

DATED: January 6, 1999



Signature of IDWR Representative

CERTIFICATE OF MAILING

I certify that on January 6, 1999 I mailed the original and copies of this form to the following persons, postage prepaid and addressed as follows:

1. Original to:
Clerk of the District Court
Snake River Basin Adjudication
253 Third Avenue North
P.O. Box 2707
Twin Falls, Idaho 83303-2707
2. One Copy to:
Each party in the subcase, or attorney of record:

WILBUR C MASTRE
BARBARA MASTRE
PO BOX 393
GRANDVIEW ID 83624-0393
3. One Copy to:
Chief, Natural Resources Division
Office of the Attorney General
P.O. Box 44449
Boise, Idaho 83711-4449
4. One Copy to:
United States Dept. of Justice
Environment & Natural Resource Div.
550 West Fort Street, MSC 033
Boise, ID 83724

Dennis Buffington
Signature of person or attorney mailing the form

RECEIVED

JAN 05 1999

Snake River Basin Adjudication
Change in Address of Notice of Claim

Water Resources
Western Region

[] Water Right Number(s): 51-07115, 51-07036C,
51-07147

[] Old Mailing Address: WILBUR C MASTRE
RT 1 BOX 474AB
BONNERS FERRY, ID. 83805

[] New Mailing Address: WILBUR C MASTRE
P.O. BOX 393
GRAND VIEW, ID. 83624-0393

Telephone Number: (208) 834-2833

[] Signature of Claimant: Wilbur C. Mastre
1-5-99

Date: _____

PLEASE SEND YOUR SRBA CHANGE OF ADDRESS TO THE NEAREST
REGION OFFICE:

IDWR WESTERN REGION
2735 AIRPORT WAY
BOISE ID 83705-5082
(208) 334-2190

IDWR SOUTHERN REGION
222 SHOSHONE ST EAST
TWIN FALLS ID 83301-6602
(208) 736-3033

IDWR EASTERN REGION
900 N SKYLINE
IDAHO FALLS ID 83402-3653
(208) 525-7161

IDWR NORTHERN REGION
1910 NORTHWEST BLVD #210
COEUR D'ALENE ID 83814-2615
(208) 756-4639

Revised 5/95

IDWR: DATA ENTRY BY _____

DATE _____

RECEIVED

SEP 28 1994

WATER RESOURCES
WESTERN REGION

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: A51-07147
Date Received: 1/ 5/1989
Receipt No: W001876
Received By: _____

COPY FOR
YOUR FILES

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

COPY FOR
YOUR FILES

1. Name: WILBUR MASTRE 208-267-2879
Address: RT 1 BOX 474AB
BONNERS FERRY ID 83805

Name: BARBARA MASTRE 208-267-2879
Address: RT 1 BOX 474AB
BONNERS FERRY ID 83805

2. Date of Priority: MAR 21, 1980

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
07S	04E	2	NE	SE			OWYHEE
			NW	SE			OWYHEE

5. Description of diverting works:
WELL, PUMP, MOTOR & SPRINKLERS, 1800'DEEP, 300HP PUMP

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	03/15	11/15	4.570		

7. Total Quantity Appropriated is:
4.570 C.F.S. (and/or) 1430.00 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	Lot	Use	Acres
06S	04E	35	NE	SE		IRR	39.0
			SE	SE		IRR	39.0
						Section Acres	78.0
07S	04E	1	NW	SW		IRR	37.0
						Section Acres	37.0
		2	NE	NE	1	IRR	37.0
			SW	NE		IRR	39.0
			SE	NE		IRR	37.0
			NE	SE		IRR	28.0
			NW	SE		IRR	30.0
						Section Acres	171.0
						Total Acres	286.0

11. Place of use in counties: OWYHEE

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

13. Other Water Rights Used:
NONE

14. Remarks:
THIS NEW INFO WAS FROM FIELD EXAM, AND IS READY FOR LIC.
ADDRESS CHANGE REC'D 09/27/94 SS.

15. Basis of Claim: PERMIT



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

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

August 24, 1994

WILBUR AND BARBARA MASTRE
RT 1 BOX 474AB
BONNERS FERRY ID 83805

RECEIVED

SEP 27 1994

Re: Snake River Basin Adjudication (SRBA)
Notice(s) of Claim No. A51-07115 & A51-07147
Change of Address

Department of Water Resources

Dear Claimants,

*A+R Records changed.
as 9-27-94*

Thank you for your help yesterday, Mrs. Mastre. As I explained, IDWR has been notified by the Bruneau post office the address presently in our claim records is incorrect. Although I have reached you at the address above, I need you to confirm this is your correct mailing address. Future notices related to your SRBA claim(s) can be sent only to the address on your claim(s) or as otherwise changed by you.

If the address above is correct, please sign your name at the bottom of this letter, and return it to this office. Otherwise, please make the proper corrections, sign, and return this letter. Thank you for your help to make sure you receive the future notices we intend to send to you that will keep you notified about SRBA matters.

If the ownership of the property to which this water right applies has changed, please call this office toll-free at 1-800/451-4129 to obtain a form to make this required change to the claim record.

Sincerely,

Adjudication Bureau Staff

Sally

SO:ss:region

#####

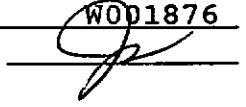
The address is correct as shown above or as otherwise changed.

Wilbur and Barbara Mastre
Claimant Signature

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: A51-07147
Date Received: 1/ 5/1989
Receipt No: W001876
Received By: 

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: WILBUR MASTRE
Address: RT 1 BOX 474AB
BONNERS FERRY ID 83805

Name: BARBARA MASTRE
Address: RT 1 BOX 474AB
BONNERS FERRY ID 83805

2. Date of Priority: MAR 21, 1980

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
07S	04E	2	NE	SE			OWYHEE
			NW	SE			OWYHEE

5. Description of diverting works:
WELL, PUMP, MOTOR & SPRINKLERS, 1800'DEEP, 300HP PUMP

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	03/15	11/15	4.570		

7. Total Quantity Appropriated is:
4.570 C.F.S. (and/or) 1430.00 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	Lot	Use	Acres
06S	04E	35	NE	SE		IRR	39.0
			SE	SE		IRR	39.0
						Section Acres	78.0
07S	04E	1	NW	SW		IRR	37.0
		2	NE	NE	1	IRR	37.0
			SW	NE		IRR	39.0
			SE	NE		IRR	37.0
			NE	SE		IRR	28.0
			NW	SE		IRR	30.0
						Section Acres	171.0
						Total Acres	286.0

11. Place of use in counties: OWYHEE

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

13. Other Water Rights Used:
NONE

14. Remarks:
THIS NEW INFO WAS FROM FIELD EXAM, AND IS READY FOR LIC.

15. Basis of Claim: PERMIT

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: A51-07147
Date Received: 1/05/1989
Receipt No: W001076
Received By: Rch

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: WILBUR MASTRE 208-834-2376
Address: STAR ROUTE B BOX 154-B
BRUNEAU, ID 83604

Name: BARBARA MASTRE 208-834-2376
Address: STAR ROUTE B BOX 154-B
BRUNEAU, ID 83604

2. Date of Priority: MAR 21, 1980

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
07S	04E	2	NE	SE			OWYHEE
			NW	SE			OWYHEE

5. Description of diverting works:
WELL, PUMP, MOTOR & SPRINKLERS, 1800'DEEP, 300HP PUMP

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	03/15	11/15	4.570		

7. Total Quantity Appropriated is:
4.570 C.F.S. (and/or) 1430.00 A.F.A.

8. Total consumptive use is Acre Feet Per Annum.

9. Non-irrigation uses:
NONE

A51-07147

Page 1

Date: 01/05/89

MICROFILMED
AUG 10 1992

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
06S	04E	35	NE	SE		IRR	39.0
			SE	SE		IRR	39.0
						Section Acres	78.0
07S	04E	1	NW	SW		IRR	37.0
						Section Acres	37.0
		2	NE	NE	1	IRR	37.0
	SW		NE	IRR		39.0	
	SE		NE	IRR		37.0	
	NE		SE	IRR		28.0	
	NW		SE	IRR		30.0	
						Section Acres	171.0
						Total Acres	286.0

11. Place of use in counties: OWYHEE

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

13. Other Water Rights Used:
NONE

14. Remarks:
THIS NEW INFO WAS FROM FIELD EXAM, AND IS READY FOR LIC.

15. Basis of Claim: PERMIT

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): Wilbur C. Mastre Date: 1-5-89

Date: _____

State of Idaho)
County of ADA) SS.

Subscribed and sworn (or affirmed) before me this 5 day
of JAN 19 89

Don Hawerton
Notary Public

4200 Plun

Residing at BOISE, Idaho 83703

My Commission Expires 12-8-94

Seal

C420

2026

T793

A

37.1

A1

77.0

30.2

6.9

29.7

7.9

25.1

15.3

56.1

3

16.0

P.O.

45.0

15.5

55.3

5.4

7.2

C100

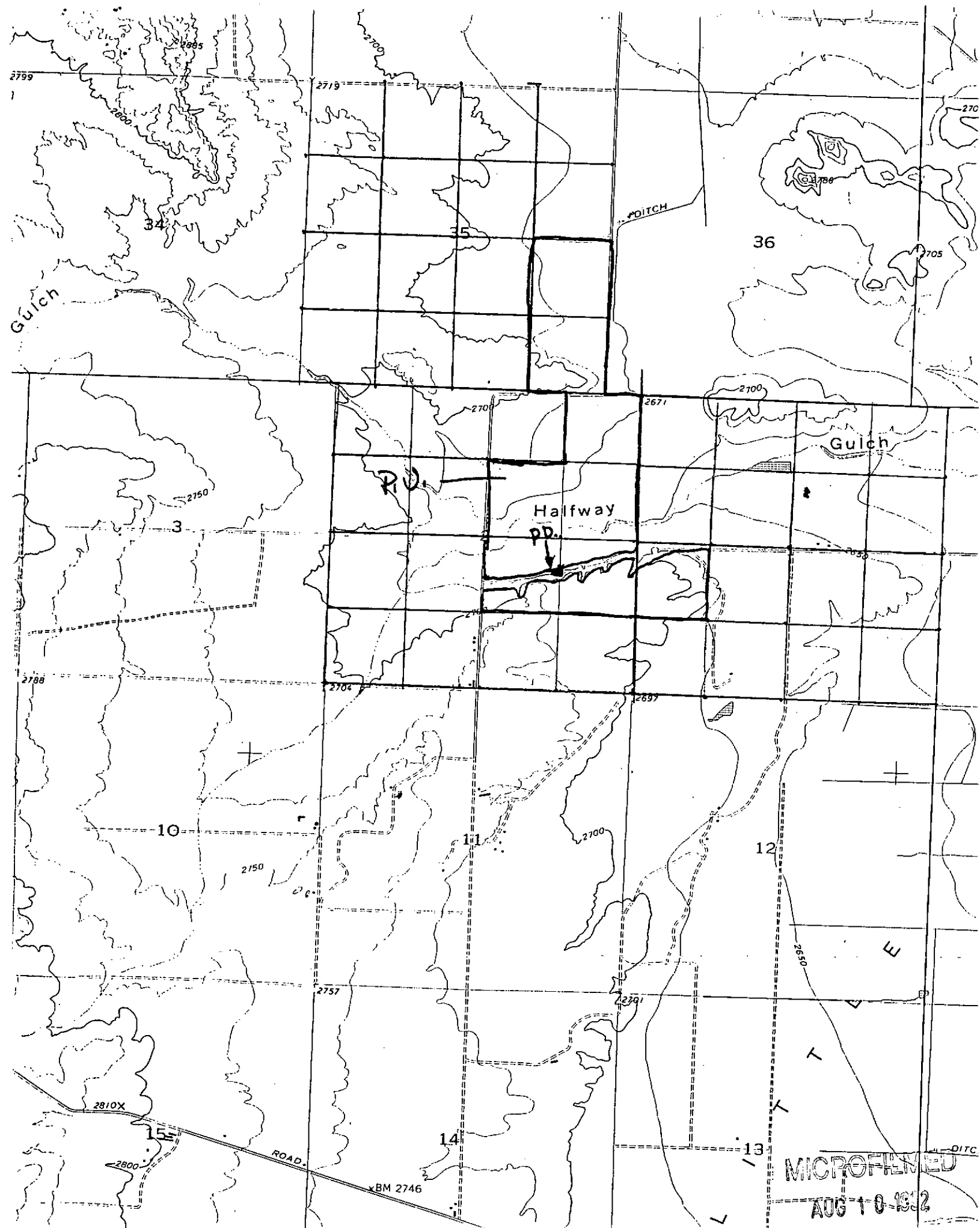
23.6

T629

mainly

(12.1)

5.2



MICROFILMED

AUG 10 1962

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 51-07147

Priority: March 29, 1980

Maximum Diversion Rate: 4.57 CFS
Maximum Diversion Volume:¹ 1430.0 AF

This is to certify, that WILBUR MASTRE
BARBARA MASTRE

RT 1 BOX 474 AB
BONNERS FERRY, ID 83805

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated March 21, 1980; and has submitted Proof of Beneficial Use on April 11, 1985. An examination indicates that the works have a diversion capacity of 4.570 cfs of water from a GROUNDWATER source, and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 11/15	4.57 CFS	1430.0 AF

LOCATION OF POINT(S) OF DIVERSION:

NWSE , Sec. 2, Township 07S, Range 04E
NESE , Sec. 2, Township 07S, Range 04E
OWYHEE County

PLACE OF USE: IRRIGATION
TWN RGE SEC

	<u>ACRES</u>		<u>ACRES</u>		<u>ACRES</u>	<u>TOTAL</u>
06S 04E 35	NESE 39	SESE 39				78
07S 04E 1	NWSW 37					37
2 LOT 1(NENE)	37	SWNE 39	SENE 37			
	NESE 28	NWSE 30				171

Total number of acres irrigated: 286

CONDITIONS/REMARKS:

1. The maximum diversion volume is defined as the maximum allowable volume of water that may be diverted annually from the source under this right. The use of water confirmed by this right is limited to the amount which can actually be beneficially used. The maximum diversion volume may be adjusted to more accurately describe the beneficial use or to implement accepted standards of diversion and use efficiency.
2. This water right is appurtenant to the described place of use.
3. This right is subject to all prior water rights and may be forfeited by five years of non-use.
4. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho law.
5. This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 5.0 afa per acre for the lands above.

MICROFILMED

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

WATER RIGHT NO. 51-07147

CONDITIONS/REMARKS:

6. 1 point of diversion located on quarter-quarter line.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this 18th
day of December, 1990.

Acting for R. Keith Higginson, Director

AUG 10 1992

CONTRACT OF SALE

THIS AGREEMENT, made as of the 31st day of October, 1988, by and between B. B. BURROUGHS and AUDREY I. BURROUGHS, husband and wife, whose address is 1675 Burroughs Road, P. O. Box 31, Adrian, Oregon 97901, hereinafter referred to as the Seller, and WILBUR C. MASTRE and BARBARA J. MASTRE, husband and wife, whose address is HC 85, Box 154B, Bruneau, Idaho 83604, hereinafter referred to as the Buyer.

WITNESSETH: That in consideration of the mutual covenants and agreements herein contained, the Seller agrees to sell to the Buyer and the Buyer agrees to purchase from the Seller all of the lands and premises situated in the County of Owyhee, State of Idaho, more particularly described in Schedule "A", attached hereto, and by this reference incorporated herein, for the sum of Fifty-eight Thousand One Hundred Sixty and no/100 (\$58,160.00) Dollars, hereinafter called the purchase price, which the Buyer agrees to pay to the Seller at the following times and manner, to-wit:

Equal annual instalments in the sum of \$5,816, including interest. The first annual payment shall be made October 31, 1988, with subsequent annual payments to be made on the 31st day of October thereafter, with the last annual payment being made October 31, 1997.

The parties hereto further agree as follows:

1. INTEREST: All of said deferred payments of purchase price payable to the Seller shall bear interest at the highest annual rate of interest charged by Federal Land Bank to its borrowers on the 1st day of January of the year in which payments shall be made and said interest rate shall be applied to the remaining principal balance then existing on the within contract of sale. Interest shall be payable on the dates for payment of instalments of purchase price as provided herein and shall be in addition to said instalments. Interest shall commence october 31, 1987.

2. APPORTIONMENTS: Buyer agrees to pay all delinquent real property taxes on the above described premises and shall pay all

STUNZ, FONDA,
PRATT & NICHOLS
ATTORNEYS AT LAW
106 MAIN STREET
P. O. BOX 1865
NYSSA, OREGON 97913
(503) 372-2268

SCHEDULE "A"

In Township 6 South, Range 4 East, B.M., Owyhee County, Idaho
Section 35: E½SE½

In Township 7 South, Range 4 East, B.M., Owyhee County, Idaho
Section 1: NW½SW½
Section 2: Lot 1, S½NE½, N½SE½

SUBJECT TO rights or claims of parties in possession or claiming to be in possession not shown by the public records.

ALSO SUBJECT TO unpatented mining claims; reservations or exceptions in patents or in acts authorizing the issuance thereof; water rights, claims or title to water.

ALSO SUBJECT TO any right, title or interest in any minerals, mineral rights, or related matters, including but not limited to oil, gas, coal and other hydrocarbons.

ALSO SUBJECT TO power line easements over and across N½SE½, Sec. 2, T. 7 S., R. 4 E., B.M., for the erection and continued operation, maintenance, repair, alteration, inspection, relocation and replacement of the electric transmission, distribution, and telephone lines and circuits, as granted the Idaho Power Company, a corporation, by deed(s) recorded October 16, 1964, in Book 57 of Deeds, page 387 and on September 9, 1977, as Instrument No. 152051, Owyhee County Records.

ALSO SUBJECT TO right of way for an irrigation canal over and across the NE½SE½, Sec. 35, T. 6 S., R. 4 E., B.M., as granted to J. G. Kohring by Instrument No. 177253, recorded June 10, 1983, Owyhee County Records.

91 KEEP TOP PORTION FOR YOUR RECORDS
PLEASE READ REVERSE SIDE
YOUR CANCELLED CHECK IS YOUR RECEIPT

MARKET VALUE	TAX CODE AREA	PARCEL NUMBER	BILL NUMBER
24640	39-00	RP06S04E357200A	4514
E2SE 35 6S 4E			
24640			

3.000

77.000 ACRES
BURROUGHS, B B & A I TRUST
% MASTRE, WILBUR C & BARBARA
RT 1 BOX 474AB
BONNERS FERRY ID 83805

STATE		
COUNTY	.004492	110.68
SCHOOL 365	.005495	135.40
RIVERSIDE CEM	.000084	2.08
EASTERN OWY LIB	.000300	7.40
COUNTY RD	.002140	52.74
BRUNEAU FIRE	.000098	2.42

FULL PAYMENT	
TAX	310.
PEN.	
INT.	
COST	
TOT.	
1ST INSTALLMENT	
TAX	155.
PEN.	
INT.	
COST	
TOT.	
2ND INSTALLMENT	
TAX	155.
PEN.	
INT.	
COST	
TOT.	

TOTAL .012609 310.72

YOUR CANCELED CHECK WILL BE YOUR RECEIPT
PLEASE ENCLOSE STUB WITH PAYMENT

EE COUNTY

TAX NOTICE AND RECEIPT

TAXING DISTRICT

RATE

AMOUNT

RECEIPT

91 KEEP TOP PORTION FOR YOUR RECORDS
PLEASE READ REVERSE SIDE
YOUR CANCELLED CHECK IS YOUR RECEIPT

MARKET VALUE	TAX CODE AREA	PARCEL NUMBER	BILL NUMBER
55262	40-00	RP07S04E020001A	4909
LOT 1, S2NE, N2SE 2 7S 4E			
55262			

4.350

93.880 ACRES
BURROUGHS, B B & A I TRUST
% MASTRE, WILBUR C & BARBARA
RT 1 BOX 474AB
BONNERS FERRY ID 83805

STATE		
COUNTY	.004492	248.24
SCHOOL 365	.005495	303.66
BRUNEAU CEM	.000100	5.54
BRUNEAU VAL LIB	.000261	14.42
COUNTY RD	.002140	118.26
BRUNEAU FIRE	.000098	5.42

FULL PAYMENT	
TAX	695.5
PEN.	
INT.	
COST	
TOT.	
1ST INSTALLMENT	
TAX	347.7
PEN.	
INT.	
COST	
TOT.	
2ND INSTALLMENT	
TAX	347.7
PEN.	
INT.	
COST	
TOT.	

TOTAL .012586 695.54

YOUR CANCELED CHECK WILL BE YOUR RECEIPT
PLEASE ENCLOSE STUB WITH PAYMENT

EE COUNTY

TAX NOTICE AND RECEIPT

TAXING DISTRICT

RATE

AMOUNT

RECEIPT

91 KEEP TOP PORTION FOR YOUR RECORDS
PLEASE READ REVERSE SIDE
YOUR CANCELLED CHECK IS YOUR RECEIPT

MARKET VALUE	TAX CODE AREA	PARCEL NUMBER	BILL NUMBER
9260	40-00	RP07S04E015400A	4906
NWSW 1 7S 4E			
9260			

STATE		
COUNTY	.004492	41.60
SCHOOL 365	.005495	50.88
BRUNEAU CEM	.000100	.94
BRUNEAU VAL LIB	.000261	2.42
COUNTY RD	.002140	19.82
BRUNEAU FIRE	.000098	.92

FULL PAYMENT	
TAX	116.
PEN.	
INT.	
COST	
TOT.	
1ST INSTALLMENT	
TAX	58.
PEN.	
INT.	
COST	
TOT.	
2ND INSTALLMENT	
TAX	58.
PEN.	
INT.	
COST	
TOT.	

40.000 ACRES
BURROUGHS, B B & A I TRUST
% MASTRE, WILBUR C & BARBARA
RT 1 BOX 474AB
BONNERS FERRY ID 83805

MICROFILMED

AUG 10 1992

TOTAL .012586 116.58

YOUR CANCELED CHECK WILL BE YOUR RECEIPT

AJ0749NP
No. 51-07147

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

DATE: 01/05/99
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	WILBUR C MASTRE	03/29/1980	IRRIGATION	03-15 11-15	4.57 CFS	1430.00 AFA
C	BARBARA MASTRE					
	PO BOX 393			TOTAL DIVERSION:	4.57 CFS	1430.00 AFA
	GRANDVIEW ID 836240393					
	(208) 834-2833					

Water Source: GROUNDWATER

Tributary to:

Stage: LICENSE

Point(s) of Diversion:

T07S R04E S02

NESE

NWSE

OWYHEE 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	:	SUM
06S	04E	35	:																	:	
07S	04E	1	:																	:	
07S	04E	2	:	01-37				39		37										:	
																			TOTAL ACRES		286.0

POU County: OWYHEE

Other Water Rights with Same Point(s) of Diversion with Stage (Includes All Sources):
A51-07147

Other Water Rights Listing Overlapping Place(s) of Use:
A51-07147

Conditions of Approval:

- C14 - THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF WATER
- IN BASIN 51 SHALL BE ADMINISTERED SEPARATELY FROM ALL OTHER WATER
- RIGHTS IN BASIN 51:
- WATER RIGHT NO. SOURCE
- NONE NONE
- THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF WATER
- IN BASIN 51 SHALL BE ADMINISTERED SEPARATELY FROM ALL OTHER WATER
- RIGHTS IN THE SNAKE RIVER BASIN:
- WATER RIGHT NO. SOURCE
- NONE NONE
- ALL WATER RIGHTS WITHIN BASIN 51 ARE FROM CONNECTED SOURCES
- OF WATER IN THE SNAKE RIVER BASIN AND SHALL BE ADMINISTERED
- CONJUNCTIVELY.

Remarks: POD POINT OF DIVERSION IS ON LINE DIVIDING T07S, R04E, S02, NESE
AND NWSE.

USE THE USE OF WATER FOR IRRIGATION UNDER THIS RIGHT MAY BEGIN AS

AJ0749NP
No. 51-07147

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

DATE: 01/05/99
PAGE: 2

Remarks: EARLY AS MARCH 1 AND MAY CONTINUE TO AS LATE AS NOVEMBER 15,
PROVIDED OTHER ELEMENTS OF THE RIGHT ARE NOT EXCEEDED. THE USE
OF WATER BEFORE MARCH 15 UNDER THIS REMARK IS SUBORDINATE TO ALL
WATER RIGHTS HAVING NO SUBORDINATED EARLY OR LATE IRRIGATION USE
AND A PRIORITY DATE EARLIER THAN THE DATE A PARTIAL DECREE IS
ENTERED FOR THIS RIGHT.

Dates: Exam Made Date: 08/09/1993 Verified Date: Objection Filed Date:

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

Comments: Date: 08/09/1993 User-ID: WALKER Subject: PRIORITY DATE
THE PRIORITY DATE WAS ADVANCED AT TIME OF LICENSING DUE TO LATE
SUBMITTAL OF EXAM FEE.

Date: 08/09/1993 User-ID: WALKER Subject: COPIED FROM REMARKS
THIS NEW INFO WAS FROM FIELD EXAM, AND IS READY FOR LIC.

Date: 09/27/1994 User-ID: SSHERMAN Subject: ADDRESS CHANGE
ADDRESS CHANGE REC'D 09/27/94.

Date: 07/31/1998 User-ID: AJU10-JS Subject: AJU10 CONDITION UPDATE
CONDITION CODE(S) C14 ADDED IF NOT ALREADY PART
OF RECORD THRU AJU10.

Date: 01/05/1999 User-ID: DBUFFING Subject: NAME CHANGE - ADDRESS CHANGE
THE DATA IN THE NAME FIELD WAS CHANGED TO SHOW THIS RIGHT HAS AN
ADDRESS CHANGE.

Audit: 01/05/99 DBUFFING



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

FAX (208) 334-2348

DIRK KEMPTHORNE GOVERNOR

KARL J. DREHER
DIRECTOR

January 6, 1999

RE: Water Right No. 51-07147, 51-07036C, & 51-07115

Wilbur C Mastre
Barbara Mastre
PO Box 393
Grandview ID 83624-0393

Dear Claimants:

Enclosed is a copy of the above referenced water right which reflects the change in address. Also enclosed is a copy of the Notice of Completed Administrative Proceedings which has been sent to the Snake River Basin Court as notification of the change.

If you have any questions concerning the enclosed water rights, please feel free to contact this office.

Sincerely,

A handwritten signature in cursive script that reads "Denise Buffington".

Denise Buffington
Records Clerk
Adjudication Section
Western Region

DB:db

Enclosures

AJ0749NP
No. R51-07147

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

DATE: 11/11/98
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	WILBUR C MASTRE	03/29/1980	IRRIGATION	03-15 11-15	4.57 CFS	1430.00 AFA
C	BARBARA MASTRE RT 1 BOX 474AB BONNERS FERRY ID 83805 (208) 267-2879					
TOTAL DIVERSION:					4.57 CFS	1430.00 AFA

Water Source: GROUNDWATER

Tributary to:

Stage: LICENSE

Point(s) of Diversion: T07S R04E S02 NESE NWSE OWYHEE 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	SUM			
06S	04E	35	:																		78.0			
07S	04E	1	:																		37.0			
07S	04E	2	:	01-37																	171.0			
TOTAL ACRES																				286.0				

POU County: OWYHEE

Conditions of Approval:

- C14 - THE FOLLOWING WATER RIGHTS FROM THE FOLLOWING SOURCES OF WATER
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AJ0749NP
No. R51-07147

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM PROFILE REPORT
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DATE: 11/11/98
PAGE: 2

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Dates: Exam Made Date: 08/09/1993 Verified Date: 11/11/1998 Objection Filed Date:

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

Comments: Date: 08/09/1993 User-ID: WALKER Subject: PRIORITY DATE
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SUBMITTAL OF EXAM FEE.

Date: 08/09/1993 User-ID: WALKER Subject: COPIED FROM REMARKS
THIS NEW INFO WAS FROM FIELD EXAM, AND IS READY FOR LIC.

Date: 09/27/1994 User-ID: SSHERMAN Subject: ADDRESS CHANGE
ADDRESS CHANGE REC'D 09/27/94.

Date: 07/31/1998 User-ID: AJU10-JS Subject: AJU10 CONDITION UPDATE
CONDITION CODE(S) C14 ADDED IF NOT ALREADY PART
OF RECORD THRU AJU10.

Audit: 11/11/98 JSHURTE

AJ0749NP
No. R51-07147

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

DATE: 07/21/98
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
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C	BARBARA MASTRE RT 1 BOX 474AB BONNERS FERRY ID 83805 (208) 267-2879			TOTAL DIVERSION:	4.57 CFS	1430.00 AFA

Water Source: GROUNDWATER

Tributary to:

Stage: LICENSE

Point(s) of Diversion:

T07S R04E S02

NESE

NWSE

OWYHEE 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	:	SUM
06S	04E	35	:																	:	78.0
07S	04E	1	:																	:	37.0
07S	04E	2	:	01-37				39		37										:	171.0
																			TOTAL ACRES		286.0

POU County: OWYHEE

Remarks: POD POINT OF DIVERSION IS ON LINE DIVIDING T07S, R04E, S02, NESE
AND NWSE.

Dates: Exam Made Date: 08/09/1993 Verified Date: 07/21/1998 Objection Filed Date:

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THIS NEW INFO WAS FROM FIELD EXAM, AND IS READY FOR LIC.

Date: 09/27/1994 User-ID: SSHERMAN Subject: ADDRESS CHANGE
ADDRESS CHANGE REC'D 09/27/94.

Audit: 07/21/98 SBOCK

WESTERN REGION

CLAIM NUMBERS 51-07147

AGENT SB DATE 6/29/98

TOTAL ACRES FROM RECOMMENDATION 300.65 w/ 590 margin. stays in block as 286 acres

GEOGRAPHIC INFO SYSTEM ACRES 286 Recommended in season 31-11-15

READY FOR DECREE ____ (YES)

SENT FOR DECREE ____ (YES)

RIGHT NO				NE				NW				SW				SE			
	TNS	RNG	SEC	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
RECOM	65	4E	35													40			40
GIS	72	4E	1										37						
	72	4E	2	38			40					40				30	35		
RECOM																			
GIS																			

POLYGON CREATED ON 80__

POLYGON # () () () () _____ UPDATED BY

ATTRIBUTES OF B51-POU.SHP (110) () () () ()

ATTRIBUTES OF B51-POD.SHP (104) () () () ()

B51-DBPOU.DBF SB UPDATED BY

B51-DBPOD.DBF SB UPDATED BY

edited in B51

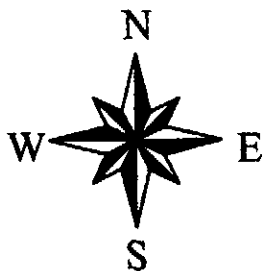
RDH GPSTABLE

* 1 POO located on 1/4 1/4 line NESE, NWSE

Idaho Dept of Water Resources

~~T07, R3, S 01, 12~~ ^{fw}
T06S, R4E, S 35
T07S, R4E, S01, 02
Claim(s): 51-07147,
Claimant(s): Mastre
Prepared by: Sue Bock
Date: 06/29/1998

-  Place of Use
-  Point of Diversion
- 1/4 1/4 lines
-  Section Lines



1987 NAPP Photo

0 0.25 0.5 0.75 1 Miles

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

DATE: 08/11/93
PAGE: 1

=====

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	WILBUR MASTRE	03/29/1980	IRRIGATION ✓	03-01-1981	4.57 CFS ✓	1444.0 AFA ✓
C	BARBARA MASTRE			3-15-11-15	4.57 CFS ✓	1444.0 AFA ✓
	RT 1 BOX 474AB			TOTAL DIVERSION:		1430.0
	BONNERS FERRY ID 83805			CONSUMPTIVE USE:		858.0 AFA out

Water Source: GROUNDWATER ✓ Tributary to: Stage: LICENSE ✓
Point(s) of Diversion: T07S R04E S02 ✓ NESE ✓ NWSE ✓ OWYHEE 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	SUM
06S	04E	35	:															39	✓	78.0
07S	04E	1	:															37	✓	37.0
07S	04E	2	:	01-37	✓			39	✓	37	✓							28	✓	171.0
																			TOTAL ACRES	286.0

POU County: OWYHEE

Remarks: POINT OF DIVERSION IS ON LINE DIVIDING NESE AND NWSE, S02, T07S, R04E.

use new
FO4 - P/D

Dates: Exam Made Date: 08/09/1993 Verified Date: 08/09/1993

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

Comments: Date: 08/09/1993 User-ID: WALKER Subject: COPIED FROM REMARKS
THIS NEW INFO WAS FROM FIELD EXAM, AND IS READY FOR LIC.

Date: 08/09/1993 User-ID: WALKER Subject: PRIORITY DATE
THE PRIORITY DATE WAS ADVANCED AT TIME OF LICENSING DUE TO LATE
SUBMITTAL OF EXAM FEE.

Audit: 00/00/00

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

08:40:30
07/28/93

PAGE: 13
QUICKLOOK INFORMATION

64
CLAIM NUMBER: A51-07147

WR ELEMENT	FIELD EXAM Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	VERIFIED BY CODE	COMPLETED REVIEW WHOM/DATE	COMPLETED DATA ENTRY WHOM/DATE	VERIFIED DATE WHOM/DATE
PRIORITY DATE	*N		kw 8-9-93	Y	6	kw 8-9-93	kw 8-9-93	kw 8-9-93
POINT OF DIV	*N			N				
SOURCE	N			N				
PLACE OF USE	*N			N				
DIV. AMOUNT CFS/VOLUME	N			N				
CONSUMPTIVE USE	Y			ADD				
PURPOSES	N			N				
PERIOD OF USE	N			Y				
BASIS OF CLAIM	Permit			Y-Lic				
REMARKS	+N			Y				

"VERIFIED BY" CODES

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

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

6 = License issued 12/18/1990 - See copy of field
exam done 6/22/1988 attached. No map
verification req'd. kw 8-9-93

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

08:40:30
07/28/93

PAGE: 1
GENERAL INFORMATION

52
CLAIM NUMBER: A51-07147

LAST: CANTRELL
ADDRESS:
CITY: UNKNOWN
PHONE NUMBER: 208-000-0000

FIRST: IVAN E.
STATE: ID ZIP: XXXXX

OWNER CODE: 0

LAST: MASTRE
ADDRESS: RT 1 BOX 474AB
CITY: BONNERS FERRY
PHONE NUMBER: 208-000-0000

FIRST: WILBUR
STATE: ID ZIP: 83805

OWNER CODE: C

LAST: MASTRE
ADDRESS: RT 1 BOX 474AB
CITY: BONNERS FERRY
PHONE NUMBER: 208-000-0000

FIRST: BARBARA
STATE: ID ZIP: 83805

OWNER CODE: C

FIELD EXAM REQUIRED?

VERIFICATION REQUIRED DUE TO REMARKS?

DATABASE

**N*

FIELD
EXAMINER

KW

CLAIM REMARKS: THIS NEW INFO WAS FROM FIELD EXAM, AND IS READY FOR LIC.

remove

A. AJ CLAIM: # A51-07147 PRIORITY DATE: 03-21-1980 ✓ STAGE: P ✓

B. WR RECORD: # 51-07147 PRIORITY DATE: 03-29-1980 ✓ STAGE: L ✓

C. FIELD EXAM REQUIRED?

DUE TO PRIORITY DATE DISCREPANCY? (Y/N)

DATABASE

~~Y~~ N

FIELD
EXAMINER

KW

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

NOTES: Priority date was advanced due to
exam fee being submitted late. See
B/U. field report review memo attached.

RECOMMENDED PRIORITY DATE:

3-21-1980

REVIEWED BY

Kay Walker

DATE

8/9/93

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A51-07147	07S	04E	2		NE	SE		OWYHEE
A51-07147	07S	04E	2		NW	SE		OWYHEE

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

WR RECORDS IN SAME 40 ACRE TRACT

NONE /

SOURCE: GROUNDWATER /

TRIB: /

B. WR POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
51-07147	07S	04E	2		NW	SE		OWYHEE
51-07147	07S	04E	2		NE	SE		OWYHEE

OTHER WR RECORDS WITH SAME WR POD

NONE /

AJ CLAIMS IN SAME 40 ACRE TRACT
A PREFIX R PREFIX

NONE / R51-10099

SOURCE: GROUNDWATER

TRIB:

C. FIELD EXAM REQUIRED?

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

DATABASE
/ N

FIELD EXAMINER
/ /

NOTES:

"A" claim amended to show pld in NESE, Sec. 10, Rge 4E. Twp. 7S, Rge 4E.
"R" claim based on letter requesting change of ownership to Martre-
"R" claim needs to be corrected. /
8/9/93

RECOMMENDED POINT(S) OF DIVERSION AND SOURCE:

TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	COUNTY	DIVERSION NAME
7S	4E	2	~~NE~~	NE	SE	—	Owyhee	
7S	4E	2	—	NW	SE	—	Owyhee	
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—

SOURCE: GROUNDWATER ✓

TRIB:

REVIEWED BY:

Kew

DATE:

8/9/93

SYSTEM DESCRIPTION:

F04 - Point of diversion is on line dividing
NESE and NWSE, S02, T07S, R04E.

A. ROOT WATER RIGHT NUMBERS: A51-07147

B. POU LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA	FIELD EXAM.	RECOMM. ACRES	
06S	04E	35	NE	SE		MASTRE, WILBUR	A51-07147 /39.0	51-07147 /39.0	40.0			6-30-98 per GIS shape 40
			NE	SE		US DEPT OF INTERIOR	A51-10820 /	- /				40
06S	04E	35	SE	SE		MASTRE, WILBUR	A51-07147 /39.0	51-07147 /39.0	37.0			40
07S	04E	1	NW	SW		MASTRE, WILBUR	A51-07147 /37.0	51-07147 /37.0	37.0		37.0	37
07S	04E	2	NE	NE	1	MASTRE, WILBUR	A51-07147 /37.0	51-07147 /37.0	37.0		37.0	38
07S	04E	2	SW	NE		MASTRE, WILBUR	A51-07147 /39.0	51-07147 /39.0	40.0			40
07S	04E	2	SE	NE		MASTRE, WILBUR	A51-07147 /37.0	51-07147 /37.0	40.0			40
07S	04E	2	NE	SE		MASTRE, WILBUR	A51-07147 /28.0	51-07147 /28.0	39.0			
			NE	SE		HAGERHORST, WILLIAM	A51-10099 /	/				no overlap 30
07S	04E	2	NW	SE		MASTRE, WILBUR	A51-07147 /30.0	51-07147 /30.0	38.0			35
TOTAL ACRES						A51-07147	286.00	286.00	308.00			300

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

C. FIELD EXAM REQUIRED?

DUE TO POU DISCREPANCY? (Y/N)

DATABASE

*N fw

FIELD
EXAMINER

POU COUNTY: OWYHEE

Same lands as licensed.

license = 286 ac
GIS = 300 ac
 $5\% \times 286 = 14.3$
can allow
300 ac. on
shape $\pm 5\%$
Recommend
286 ac. as
licensed.
fw 6/30/98

A. AJ CLAIMED USES:

PURPOSES	MONTH/DAY	DIVERSION QUANTITY
A51-07147 IRRIGATION	FROM 03-15 TO 11-15	4.570 CFS
TOTAL DIVERSION RATE/VOLUME CLAIMED		4.570 CFS 1430.00 AF/A

B. WR RECORDED USES:

PURPOSES	MONTH/DAY	DIVERSION QUANTITY
51-07147 IRRIGATION	FROM 03-15 TO 11-15	4.570 CFS 1430.00 AF/A
TOTAL DIVERSION RATE/VOLUME CLAIMED		4.570 CFS 1430.00 AF/A

PRESUMPTION FLAG:

C. FIELD EXAM REQUIRED?

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

D. PERIOD OF USE:

RECOMMEND AS CLAIMED?

Y() N(☒)

RECOMMEND TO WR STANDARDS OR OTHER?

Y(☒) N() Explain in notes, below.

NOTES:

Change irrig. season to that now
determined to be standard.
4-1 to 10-31

6/30/98 - New irrig. season standards as of
6-18-98 = as licensed. fw

D.

RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE

ACRES 286 x 0.02 CFS/ACRE = 5.72 CFS
(Taken from p/u review)

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

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

2. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = AF/A

ACRES 286 x CONSUMPTIVE VOL. AF/A FOR AREA 3.0 =

TOTAL CONSUMPTIVE USE 858.0 AF/A

3. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = 1430.00 AF/A

ACRES 286 x DIVERSION VOL. AF/A FOR AREA 4.0 =

TOTAL DIVERSION VOLUME 1144.0 AF/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:

SEE ATTACHED SHEET? Y() N(☒)

WR RECORD CONDITIONS/REMARKS:

- R33 - This right when combined with all other rights shall provide no
- more than .02 cfs per acre nor more than 5.0 afa per acre for the
- lands above.

1 point of diversion located on quarter-quarter line.

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

3.0 CON
C 4-1 to 10-31
4.0 FH

RECOMMENDATIONS:

REC. PURPOSES	REC. PERIOD FROM TO	REC. DIV RATE CFS	REC. DIV VOL. AF/A	REC. CONS. USE
IRRIGATION ✓	~~4-1~~ ~~10-31~~ OK ~~03-15~~ ~~11-15~~	DATABASE EXAMINER 4.570 <u>KW</u>	DATABASE EXAMINER 1144.0 <u>KW</u>	DATABASE EXAMINER ~~0.0~~ <u>258.0 KW</u>
TOTAL FOR THIS RIGHT		4.570	~~1430.00~~	0.0
REVIEWED BY: <u>KW</u>		DATE: <u>8-9-93</u>		

use licensed irrigation season

per new standards recommend licensed volume of 1430.0.
KW
6/30/98

A. CHECK ONLY THE FOLLOWING THAT APPLY:

OWNERSHIP _____
FORFEIT/ABANDON _____
ADDITIONAL DIV. AMOUNT _____

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

B. SPLIT WATER RIGHT REVIEW *N/A*

ROOT WATER RIGHT NUMBER: 51-07147

TOTAL DIVERSION RATE OF WR SPLITS

DATABASE
4.570

EXAMINER

CFS

SPLITS:

OLD RIGHT NUMBERS	CURRENT CLAIM NUMBERS	DIVERSION RATE	CURRENT "R" CLAIM NUM.	"R" DIV. RATE	WR RIGHT NUMBERS	DIVERSION RATE
-	A51-07147	4.570	-		51-07147	4.570
TOTAL CFS		4.570				4.570

DIVERSION RATE REVIEW

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

DATABASE
Y

FIELD
EXAMINER

NOTES:

AUTHENTICATION:

SIGNATURE: *Kay Walker*

DATE: *8-9-93*

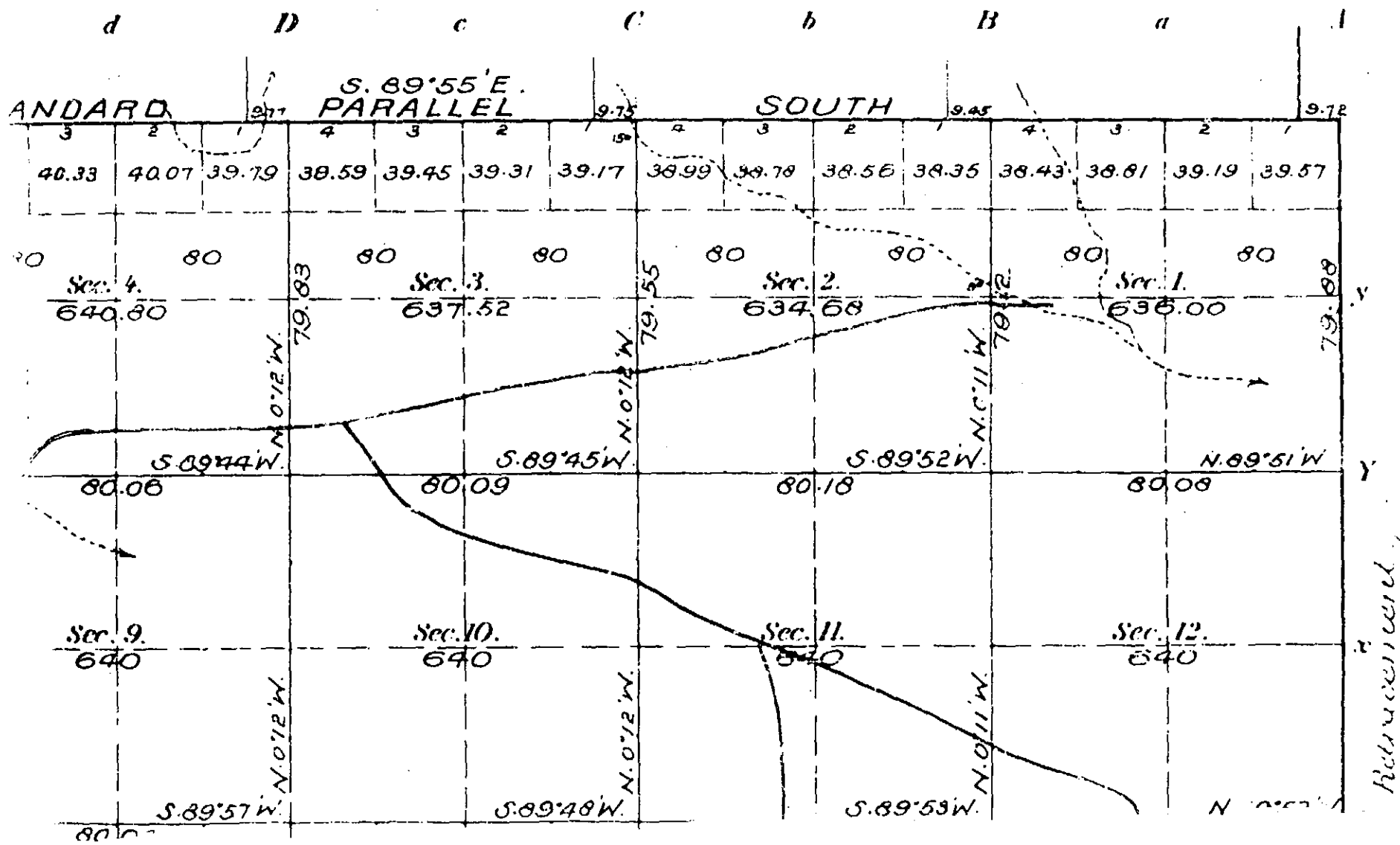
NAME OF FIELD EXAMINER: *Kay Walker*

TITLE: *Sr. Agent*

(1897
survey)

7 South

Section No. 4 East of the Boise Meridian, Idaho.



Form 219
6/88

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

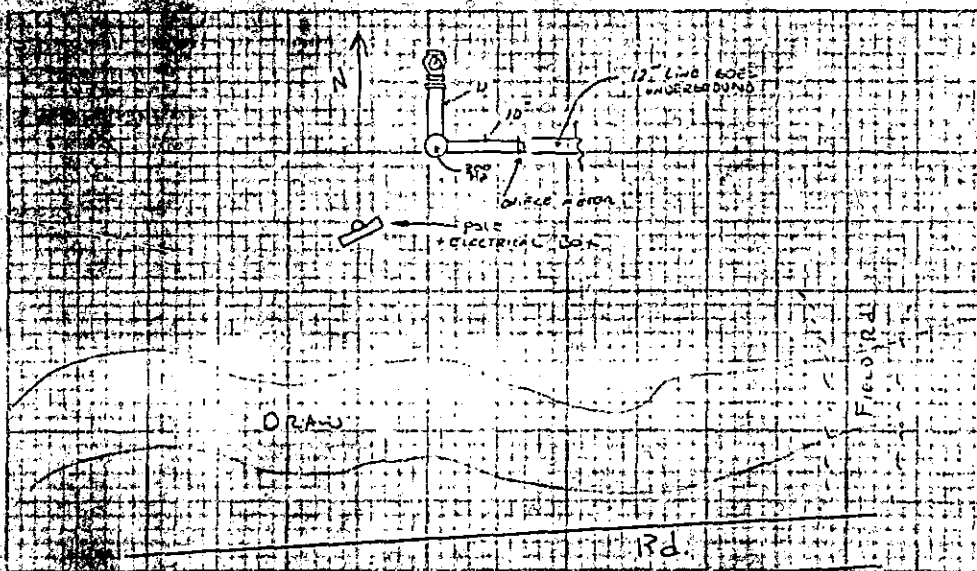
1. Owner: WILBUR MASTRE OR RABBARA MASTRE Permit No. 51-7147
Phone No. 834-2376
Current Address: H.C. 85 Box 154-B BOUNEAD ID. 83604
2. Accompanied by: Self EXAM. DATE: 6/22/88
Address: _____ Phone No. _____
Relationship to Permit Holder: OWNER
3. Source: GROUND WATER tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: NONE ☐ Copies Attached
2. Other water rights with same point of diversion: NONE ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. Diversion System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached



Scale: 1" = 40' Scale

2. ☒ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required). ☒ Aerial Photo Attached
(required for irrigation of 10 acres or more).
☒ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
ORIFICE						
METER						

2. Measurements:

54-56 IN. RISE IN TURE 8" ORIFICE
10" PIPE
WATER LEVEL ? (ELEVATED OCEAN POND)
SEE ATTACHED SHEET FOR CALCULATION

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method: ORIFICE: 4.57 cfs $286 \text{ ac} \times .02 \text{ cfs/ac} = 5.72 \text{ cfs}$
POND FOR 5 cfs

2. Alternate Method for Checking Purposes: THEORETICAL: $\frac{300 \text{ HP} \times 2.8 \times .8}{(2.31 \times 2) + (350)} = 5.95 \text{ cfs} > 4.57 \text{ cfs}$
ESTIMATE
O.K.

F. PUMP EFFICIENCY DATA (Optional)

LAND IN CRP (DEMAND NOT KICKED IN)

Discharge Pressure: _____ psi $\times 2.31 =$ _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3); Flow rate: _____ cfs (4)

Water HP: (3) $\times$ (4) $\div 8.8 =$ _____ (5)

Meter Input KW: $3.6 \times 2.4 \text{ KH} \times$ _____ CTR or 80 MULT $\times$ _____ PTR $\times$ _____ N/ _____ T = _____ (6)

Meter Input HP: (6) $\times 1.34 =$ _____ (7)

Panel Input KW: _____ Ave PF $\times$ _____ Ave Volts $\times$ _____ Ave Amps $\times .001732 =$ _____ (6)

Panel Input HP: (6) $\times 1.34 =$ _____ (7) Efficiency: (5)/(7) $\times 100 =$ _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 286 \text{ ac} \times 5.0 \text{ cfs/ac} = 1,430 \text{ cfs}$

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 4.57 \text{ cfs} \times 245 \text{ days} \times 1.9835 = 2,220.8$

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 1,430 \text{ cfs}$

2. Volume Calculations for Other Uses:

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

System consists of 16" PASED WELL 1800 FT DEEP WITH A 300 HP TURBINE PUMP DISCHARGE LINE 10" EXPANDING TO A 12" THEN GOING UNDERGROUND TO 12" P.V.C. MAINLINE. AT THE TIME OF THE FLOOD THE LAND WAS IN C.R.P. SO NO SPRINKLER SYSTEM WAS SET UP, SO NO OPEN DISCHARGE MEASUREMENT WAS DONE USING A ORIFICE.

☐ See Remarks on page 4 for continuation

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	GENERAL	300	EM JS26119	TOWNKIN	5149 (10")
	ELECTRIC				

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		NE	SE	2	75	4E	OWYHEE	USGS Quad T40111 D100	
		NE	SE	1					

ONE POINT ON NW 1/4

6. Place(s) of Use:

Indicate Method of Determination

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
65	4E	35													39			39	78
75	4E	2													28	30			171
		01									37								37
																			5-286

Do not use this space

11

1. Recommended Amounts

Period of Use
From 1950 To 1959

**Rate of Diversion
Q (cts)**

Annual Volume
"V (afa)

IRRIGATION

3/15

11/15

457,40

1430 etc

Totals: 4.57cfs

1.430.4

2. Recommended Amendments

☐ Change P.D. as reflected above☐ Add P.D. as reflected above☒ None☐ Change P.U. as reflected above☐ Add P.U. as reflected above☐ Other

AUTHENTICATION

Field Examiner's Name _____

QUEEN NESBITT

Signature _____

Proctor Melitt

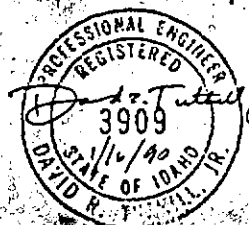
Certification Date

Field Report Preparation Date

8-22-88

CONSULTANT SEAL

K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.



is not exactly equal to the ambient pressure, a correction factor C may be added leading to

$$V = C\sqrt{2\Delta p/\rho} \quad (6-28)$$

Typical values of C are included on Fig. 6-15 for the different types of Pitot tubes, but high accuracy requires individual calibration. In addition to the conventional Pitot tube shown in Fig. 6-15a, part b contains a simpler stagnation tube in which the static or ambient pressure is obtained separately at the side of the pressure conduit. The advantage herein is that the stagnation tube can be made with a smaller diameter, thereby yielding a reading that more closely represents a point measurement. Part c, called a *Cole pitometer*, is designed for easy insertion into the pipe, whereupon one tube can be rotated so as to point in the downstream direction.

If the pipe discharge is of primary interest, the velocity may be measured at selected points across the conduit section and the discharge computed by graphic integration. If somewhat lower accuracy is acceptable, a single velocity measurement at the pipe centerline can be correlated with the discharge.

Discharge Measurement

Discharge in a pipe is most commonly measured using some form of differential head meter, such as the three included in Fig. 6-16. In each case the governing

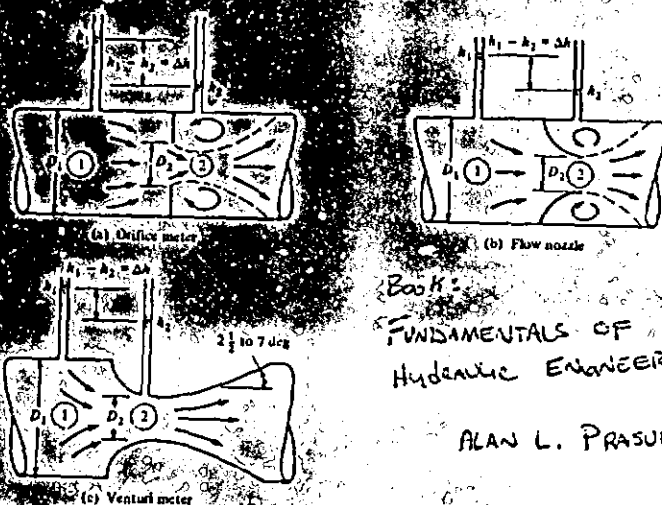


Figure 6-16 Pipe flow meters.

equations may be obtained by judicious application of equations. For details refer to any textbook on fluid mechanics expressed as a function of the pressure or piezometric head meter. With respect to the latter, the discharge is

$$Q = C_d A_2 \sqrt{2g(h_1 - h_2)}$$

Regardless of meter type, the area A_2 is the minimum orifice coefficient. The piezometric heads h_1 and h_2 are obtained using manometers (as shown) or pressure gauges.

The orifice meter is perhaps the most common meter more than an orifice (usually machined) in a plate that is flanges in a pipe. Its biggest disadvantage is a rather large head loss upon where the pressure taps are located, there may be a magnitude of the discharge coefficient. An in-place calibration and is recommended, in fact, for all meters when installed. For a sharp-edged orifice, typical orifice meter coefficients

The flow nozzle reduces the head loss in exchange for other hand, the venturi meter almost eliminates head loss. If the angle of divergence (Fig. 6-16c) is about 10 deg, the flow will be unable to follow the diverging boundary and a low head loss will not be achieved. If actual possible, then the venturi meter will usually provide the minimum head loss.

Both the flow nozzle and the venturi meter may be analyzed, whereupon the discharge coefficient is determined

$$C_d = \frac{1}{\sqrt{1 - (A_2/A_1)^2}}$$

On the average, Eq. 6-29, when used with Eq. 6-30, is only about 2 percent since friction through the meter is ignored.

Some care is required in the installation and operation should be a stretch of 10 diameters of straight pipe above and below the meter.

Table 6-5 ORIFICE METER COEFFICIENT C_d

Orifice/pipe diameter ratio D_2/D_1	C_d
0.2	0.60
0.3	0.605
0.4	0.61
0.5	0.62
0.6	0.63
0.7	0.70
0.8	0.77

Book:
FUNDAMENTALS OF
HYDRAULIC ENGINEERING

ALAN L. PRASUHN

5/27/47

51-7147

$$Q = Q_0 A \sqrt{2g (H - h)}$$

$$Q_0 = \frac{1}{10} \times 77$$

$$h = \frac{100}{100} = \frac{100}{100} = 1.0$$

$$Q = 3.22 \times \frac{1}{10}$$

$$h = 5.0 \text{ ft} \quad 4.5 \text{ ft}$$

$$h = 0$$

$$Q = 77(0.311) \sqrt{2(23.2 \text{ ft} - 0)} (4.5 \text{ ft} - 0) = 4.57 \text{ cfs}$$

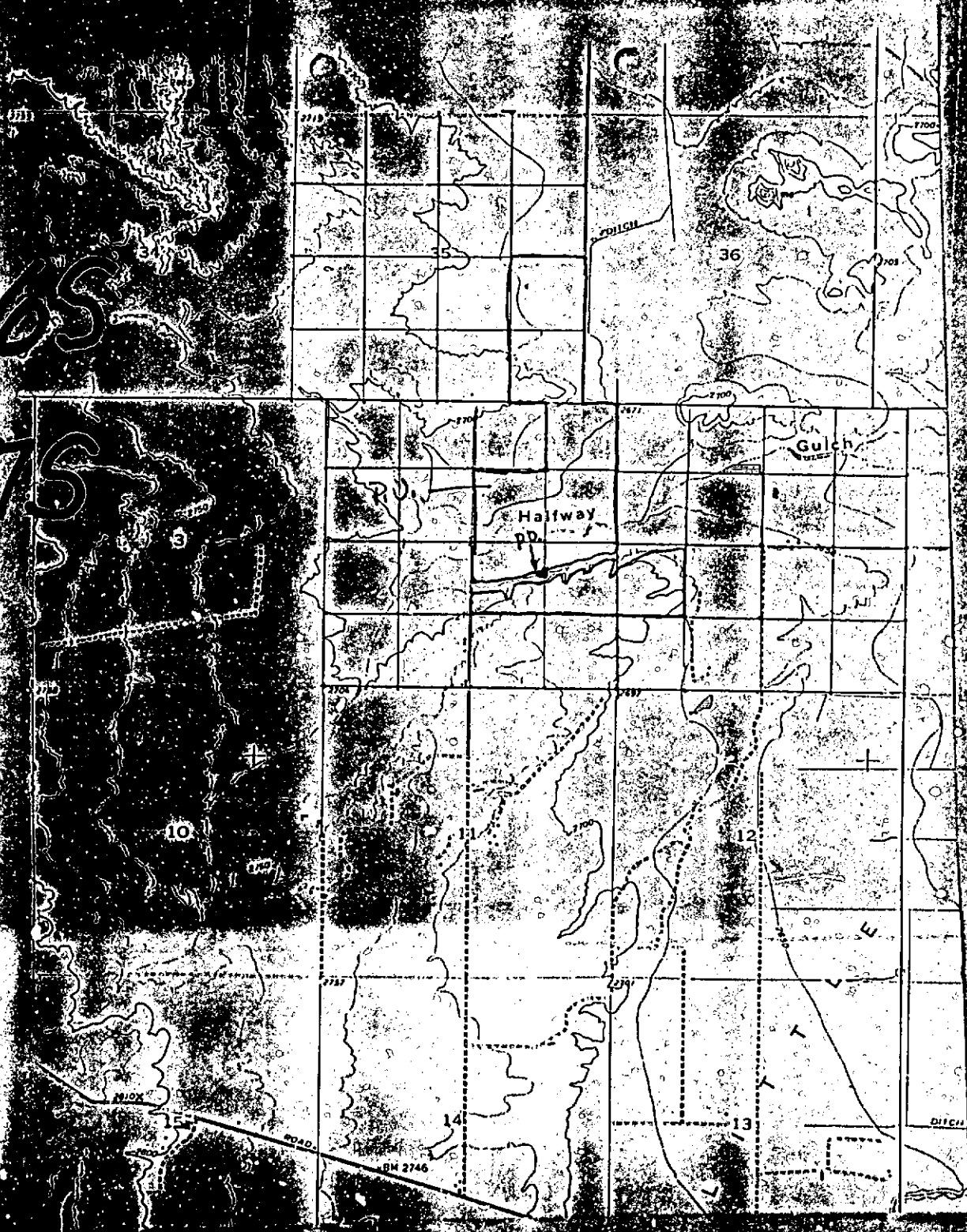
228.74 KCH

2053 14 G.P.M.

A51-07147

65

75



4E

Water Right Number - 51-07147 ✓

Prefix Translation: WATER RIGHT

Old (D) Number -

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

*** C - CURRENT OWNER ***

MASTRE

WILBUR

1 - RT 1 BOX 474 AB

2 -

3 -

City- BONNERS FERRY

State- ID Zip- 83805

Phone - 208-000-0000

MASTRE

BARBARA

1 - RT 1 BOX 474 AB

2 -

3 -

City- BONNERS FERRY

State- ID Zip- 83805

Phone - 208-000-0000

*** O - ORIGINAL OWNER ***

CANTRELL

IVAN E.

1 -

2 -

3 -

City- BOISE

State- ID Zip- 83706

Phone - 208-000-0000

+ - - Priority Date - - + + - - - Region - - - + + - - - Stage - - - + + - - - Status - - - +
03/29/1980 14 WESTERN L - LICENSE ✓+ - - - - Source - - - - - + + - - - - Tributary - - - - - +
GROUNDWATER

Tw	Rng	Sec	Tract	Lot	RFlg	County	Point of Diversion	Stream Index (Blank if no Index Code)
07S	04E	2	NE SE NW SE			(73) OWYHEE (73) OWYHEE		

Code	Description	Period From	Period To	Water Use	Diversion Rate	Diversion Volume
01 - IRRIGATION ✓		03/15 ✓	11/15 ✓		4.570 ✓	1430.00

+ - Total Div. Rate - +	+ - Total Div. Volume - +	+ - Total Div. Capacity - +
4.570	1430.00	4.570

Tw	Rng	Sec	Tract	Lot	Acres	Code	Description	County
06S	04E	35	NE SE		39.0	01	IRRIGATION	(73) OWYHEE
06S	04E	35	SE SE		39.0	01	IRRIGATION	(73) OWYHEE
07S	04E	1	NW SW		37.0	01	IRRIGATION	(73) OWYHEE
07S	04E	2	NE NE	1	37.0	01	IRRIGATION	(73) OWYHEE
07S	04E	2	SW NE		39.0	01	IRRIGATION	(73) OWYHEE
07S	04E	2	SE NE		37.0	01	IRRIGATION	(73) OWYHEE
07S	04E	2	NE SE		28.0	01	IRRIGATION	(73) OWYHEE
07S	04E	2	NW SE		30.0	01	IRRIGATION	(73) OWYHEE

Total Acres: 286.0 ✓

Licensed 1990

Prefix Translation: WATER RIGHT

Proof Due Date	- 05/01/1985	Field Exam Made	- 06/22/1988	Field Exam Fee	- R
Approved/Denied	- 05/01/1980	Protested Date	- 00/00/0000	Swan Falls	- 2
Proof Made Date	- 04/11/1985	Hearing Date	- 00/00/0000	Temporary Right	- P
Exam to S.O. Date	- 00/00/0000	Verified Date	- 00/00/0000	DLE/Carey Act	-
Order Show Cause	- 00/00/0000	Receipt Number	-	Water District	-
Licensed Date	- 12/18/1990	Appl Received	- 03/21/1980	Transfer/Amended	-
Decree Date	- 00/00/0000	Presumption Flag	-		

BENEFICIAL USE FIELD REPORT REVIEW

TO: FILE 51-7147
FROM: ROXANNE MC CARTHY
RE: PRIORITY ADVANCE REVIEW
DATE: 28-FEB-1990

=====

This review memo is prepared to show the process for determining what elements were involved in advancement of the priority.

	<u>DATE</u>	<u>JULIAN</u>
PERMIT		
Permit priority Date:	MARCH 21 1980	80
EXAM FEE NOTICE		
Exam Fee Notice Date:	APRIL 03 1987	93
Exam Fee/Info Sheet Received Date:	JUNE 10 1987	161
Exam Fee or Info Due Date:	JUNE 02 1987	153
Days Late:		8 DAY(S)
NEW PRIORITY DATE		
Original Priority Date:	MARCH 21 1980	80
Total Days Late:		8 DAY(S)
New Priority Date:	MARCH 29 1980	88



State of Idaho
DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

May 18, 1992

Wilbur Mastre
Barbara Mastre
Rt 1 Box 474AB
Bonners Ferry, ID 83805

Dear Mr. & Mrs. Mastre:

In response to your recent letter concerning claim to a water right No. A51-10099, it appears the claimant, William Hagerhorst, put the wrong legal description on his claim and when the ownership was checked at the assessor's office their records did show you as the current owner.

On April 17, 1992, Mr. Hagerhorst came into our office, and amended his claim to his correct legal description. Your claim to a water right No. A51-07147, based on the water right license issued December 18, 1990, was correctly filed by you and covers the land shown on the tax notice and Contract of Sale copies you recently submitted. At this point all appears in correct order for both your claim and Mr. Hagerhorst's. Enclosed is a copy of your claim showing your Bonners Ferry address in place of the Bruneau address previously listed.

If you have any further questions concerning these claims, please feel free to contact this office.

Sincerely,

Jan Shurte
Water Rights Supervisor
Adjudication Section

JS:lh
Enclosures

MICROFILMED
AUG 10 1992

Dear Sirs:

I recieved a letter from you on 3-29-92 concerning my Water Right License - Claim No. A51-10099.

This letter stated the owner of this claim is listed as William Hagerhorst of Brunner, Idaho who is my neighbor to the South-West but hasn't anything to do with this water right. I then called the Dept of Water Res on orchard Street and talked to Stacey White about the letter. She advised me to check the legal description on my water license to make sure it is correct which I have done and I find there has been a mistake made in the legal description. So I called Stacey White once again and told her what I had found. She advised me to send you records showing legal description and proof of ownership.

I am sending copies of my 1991 Tax notices with legal description circled and will also send copy of Contract on land with legal description.

I'll also send copy of water License. Please advise me of anything else you might need as I want to get this thing cleared up.

Thank you,
Wilbur C. Masthe

RECEIVED

APR - 3 1992

Department of Water Resources
Western Regional Office

P.S.

I'll also send copy of letter which I recieved.

W. C. M.

Wilbur C. Masthe
Rt 1 Box 474AB
Bonnere Ferry, Idaho
83805

NEW
ADDRESS
REC'D

4-3-92

MICROFILMED

AUG 10, 1992