

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

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

CIVIL CASE NUMBER: 39576

Ident. Number: **A43-11200**
Date Received: 10/12/1999
Receipt No: S022597
Received By: [Signature]

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

1. Name: JODEE WILLETT 208-645-2252
Address: 2534 S 2400 E
MALTA ID 83342
OR
Name: OLETA WILLETT 208-645-2252
Address: 2534 S 2400 E
MALTA ID 83342

2. Date of Priority: JUN 30, 1985

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
14S	27E	29	NE	NW	NE		CASSIA
			SE	NW	NE		CASSIA

5. Description of diverting works:
2 INTERCONNECTED WELLS ON 1 MAINLINE. HANDLINE SPRINKLED.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	04/01	11/01	3.000		

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

8. Total consumptive use is Acre Feet Per Annum.

9. Non-irrigation uses:

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
14S	27E	20	NW	SE		IRR	40.0
			SW	SE		IRR	13.0
					Section Acres		53.0
		21	SE	SW		IRR	8.0
					Section Acres		8.0
		28	NE	NW		IRR	39.0
			NW	NW		IRR	25.0
					Section Acres		64.0
					Total Acres		125.0

11. Place of use in counties: CASSIA

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

13. Other Water Rights Used:
A43-02298A

14. Remarks:
THIS IS AN EXPANSION CLAIM FOR ACRES UNDER LICENSE 43-02298, WITH
NO ADDITIONAL WATER.

15. Basis of Claim: BENEFICIAL USE

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:

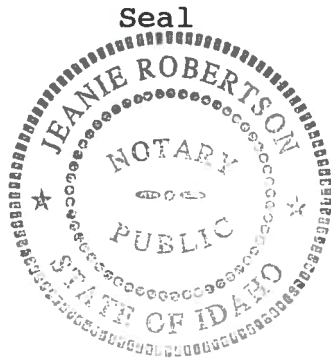
I/We do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant(s): Jodee Willett Date: 10-12-99
Date: _____

State of Idaho)
County of Twin Falls) SS.

Subscribed and sworn (or affirmed) before me this 12th day
of October 19 99

Jeanie Robertson
Notary Public



Residing at Twin Falls, Id.
My Commission Expires 9-23-2000

RECEIPT
For Monies Paid
to the
Idaho Department of Water Resources

Receipt No: 8022597

Date: 10/12/1999
Time: 14:39:42

Received
From: WILLETT. OLETA

Type of Payment		Program A cct	Amount
DJUDICATION FEE	41503	337 1155	225.00

CHECK	3224	Total	\$ 225.00
-------	------	-------	-----------

Water Right Numbers	
A43-11200	A43-04111

Region: SOUTHERN

Signature: Janie Roberts

NHEL/W

4
78.6

NHEL/W

5
78.4

NHEL/W

NHEL/W
4.0

922
71650

when? ²
to buried?

1
39.1
(40) (pink pit preserved)
NHEL/W

2
40.1

NHEL/W

40

40

922
71144

40

30

(8)

not buried -
(bury)

4
33.4

NHEL

5
6.9

3
37.1
when?

NHEL/W

4
38.4

NHEL/W

20

21
71.8

NHEL/W

20

2
1.9
5
NW
(3) HEL

40

40

(22)

not buried -
(- suggested?)
when?

HEL/NW

5
31.1

NHEL/W

6
39.0

NHEL/W

1850
T1653

1850
T8463

-W

NHEL/W

NHEL/W

1
22.5

NHEL/W



State of Idaho

DEPARTMENT OF WATER RESOURCES

1341 Fillmore Street, Suite 200, Twin Falls, ID 83301-3380

Phone: (208) 736-3033 FAX: (208) 736-3037

SOUTHERN REGION

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

October 8, 1999

JODEE AND OLETA WILLETT
2534 S 2400 E
MALTA ID 83342

RE: NEW CLAIM A43-11200

Dear Mr. and Mrs. Willett:

When I came in to the office today to enter and receipt your new claim for the expanded acres under License #43-02298 (on the Neff property), I realized we had made a mistake yesterday in adding up the acres. Somehow we came up with 155 when in fact, it was only 125 additional acres. At \$1.00 per acre plus the \$50.00 filing fee for the claim, the amount should have totaled \$175.00 instead of \$205.00.

I am returning your check #9546 and ask that you send another one for \$175.00 so we can complete the process. (It's better to do it this way than try to get a refund for the overage!)

If you have any questions, feel free to give me a call at the office.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Jeanie', is written over the typed name.

Jeanie Robertson
Sr. Water Resource Agent

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

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

CIVIL CASE NUMBER: 39576

Ident. Number

A43-11200

Date Received

10-7-99

Receipt Number

5022597

NOTICE OF CLAIM
TO A
WATER RIGHT
ACQUIRED UNDER STATE LAW

Please type or print clearly

1. Name of Claimant (s) Jodee or Oleta Willett Phone (208) 645-2252Mailing Address 2534 S. 2400 E MALTA ID. Zip 833422. Date of Priority (Only one (1) per claim) 6-30-19853. Source of water supply (a) Ground water
which is tributary to (b) _____4. a. Location of existing point of diversion is: Township 14 S Range 27 E Section 29,
NW 1/4 of NW 1/4 of NE 1/4, Govt. Lot, _____ B.M., County of CASSIAAdditional points of diversion if any: SE 1/4 NW 1/4 NE 1/4

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.2 interconnected wells on 1 mainline. HANDline
Sprinkled

6. Water is claimed for the following purposes:

(both dates are inclusive)

(cfs)

(acre feet)

For Irrigation purposes from APR 1 1951 to NOV 1 1951 amount 3.0 or _____

For _____ purposes from _____ to _____ amount _____ or _____

For _____ purposes from _____ to _____ amount _____ or _____

For _____ purposes from _____ to _____ amount _____ or _____

7. Total quantity claimed (a) 3.0 (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	
<u>14 S</u>	<u>27 E</u>	<u>20</u>																	<u>53</u>
		<u>21</u>												<u>8</u>					<u>8</u>
		<u>28</u>					<u>39</u>	<u>25</u>											<u>64</u>

Total number of acres irrigated 125

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

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

13. Describe any other water rights used at the same place and for the same purposes as described above. _____ or None ()

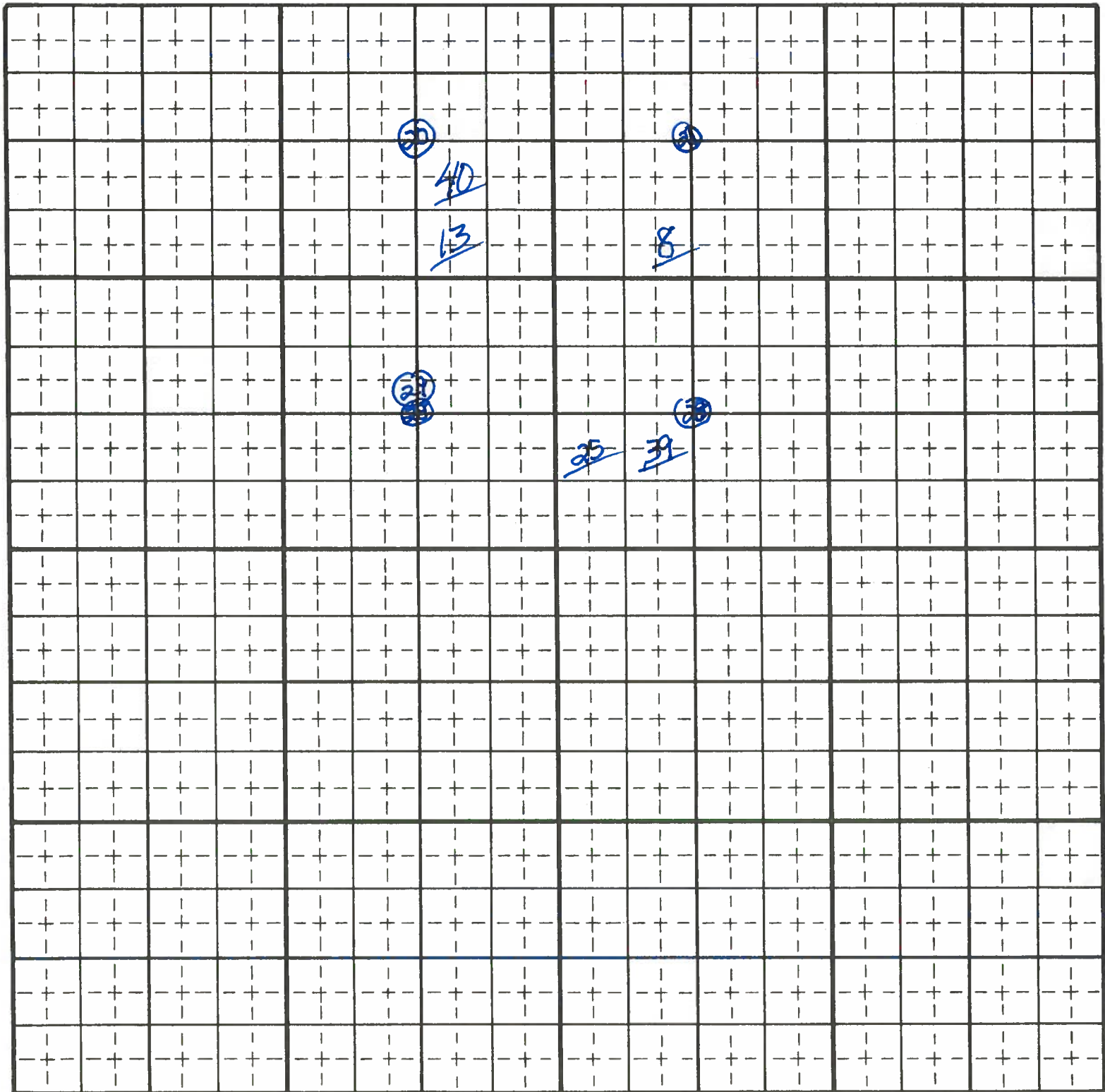
14. Remarks: This is an expansion claim for acres
under lic # 43-02298

Last Name WILLETT Ident No. A43-11200

Copies: White -State, Yellow-Claimant

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

Scale: 2 inches equals 1 mile



Last Name Willet

Ident No. A43-11200

Copies: White-State, Yellow-Claimant

15. Basis of Claim (check one) ☒ Official Use ☐ Posted Notice ☐ License ☐ Permit ☐
Decree _____
If applicable provide IDWR Water Right Number _____
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.

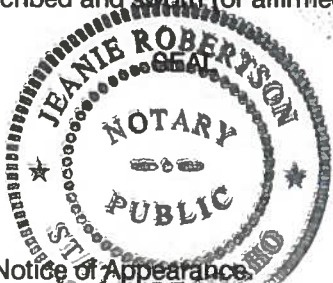
Signature of Claimant (s) Jode Willett Date 10-7-99
Date _____

For Organizations: I do solemnly swear or affirm that I am _____ Title _____
of _____, that I have signed the foregoing
Organization
document in the space below as _____ of _____
Title Organization
and that the statements contained in the foregoing document are true and correct.

Signature of Authorized Agent _____
Title and Organization _____ Date _____

State of Idaho/or _____)
County of Twin Falls) SS.

Subscribed and sworn (or affirmed) before me this 7th. day of October 19 99



Notary Public Jeanie Robertson

Residing at Twin Falls, ID

My Commission Expires 9-23-2000

Please Print Name Jeanie Robertson

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 _____

Last Name Willett Ident. Number A43-11200

SD-0604-1

Idaho Department of Water Resources
Adjudication Claims Place of Use Query

Date: 10/06/99

Time: 10:56:50

STATE

Township: 14S

Range : 27E

Section : 28

Tract : NENW

Lot : _

NO RECORDS FOUND...ENTER MENU OPTION AND/OR PRESS ENTER TO CONTINUE
(Enter=Run)

(Menu _____)

SD-0604-1

Id Department of Water Resources
Adjudication Claims Place of Use Query

Date: 10/06/99
Time: 10:58:33

STATE

Township: 14S

Range : 27E

Section : 20

Tract : NWSE

Lot : _

NO RECORDS FOUND...ENTER MENU OPTION AND/OR PRESS ENTER TO CONTINUE
(Enter=Run)

(Menu _____)

VERIFIED BY *[Signature]* 2/19/01

02/19/2001

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

RIGHT NUMBER: 43-11200
NAME AND ADDRESS: JODEE WILLETT
OLETA WILLETT
2534 S 2400 E
MALTA, ID 83342

SOURCE: GROUND WATER

QUANTITY: 0.92 CFS

USE OF THIS RIGHT WITH RIGHT NO. 43-02298E IS LIMITED TO A TOTAL COMBINED DIVERSION RATE OF 3 CFS AND TO A TOTAL COMBINED ANNUAL DIVERSION VOLUME OF 1040 AF.

WHEN COMBINED THE FOLLOWING RIGHT NOS. SHALL PROVIDE NO MORE THAN .02 CFS PER ACRE.: 43-02298E, 43-02229, 43-11200, & 43-11201.

PRIORITY DATE: 06/30/1985

POINT OF DIVERSION: T14S R27E S29 NENWNE Within CASSIA County
T14S R27E S29 SENWNE Within CASSIA County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	03-15 11-15	0.92 CFS

PLACE OF USE:

<u>IRRIGATION Within CASSIA County</u>			
T14S R27E S20	NESE	39	T14S R27E S20 NWSE 40
T14S R27E S20	SWSE	39	T14S R27E S20 SESE 39
T14S R27E S21	SWSW	38	T14S R27E S21 SESW 38
T14S R27E S28	NENW	39	T14S R27E S28 NWNW 27
T14S R27E S29	NENE	39	T14S R27E S29 NWNE 38

376 ACRES TOTAL

THIS RIGHT IS LIMITED TO THE IRRIGATION OF 116 ACRES WITHIN THE PLACE OF USE DESCRIBED ABOVE IN A SINGLE IRRIGATION SEASON.

USE OF THE RIGHTS LISTED BELOW IS LIMITED TO THE IRRIGATION OF A COMBINED TOTAL OF 376 ACRES IN A SINGLE IRRIGATION SEASON. COMBINED RIGHT NOS.: 43-02298E, 43-02229, 43-11200, & 43-11201.

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.

THIS RIGHT IS AN EXPANSION OF RIGHT NO. 43-02298E PURSUANT TO SECTION 42-1416B, IDAHO CODE.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

Water Right 43-11200

Date: 1/31/2000

Page 1 of 2

Record ID	108	Measured Flow:	
Water Right No.	A43-11200 <i>Pump 1062</i>	Designed Flow:	4.84 cfs
Name	Willett, Jodee & Oleta	HP/Eff Flow:	5.30 cfs <--Max
pod	14S27E29SENWNE	Sprinkler Flow:	4.57 cfs
year:	1984 with booster	Pivot/System Flow:	
Flow Measurement:		gpm	=
Curve/Pump Design:	2170 gpm	=	4.84 cfs
Estimated by Jerry Udy, Raft River Rural Electric			
Horsepower / Efficiency Method			
Horsepower	160 hp	60-hp well, 100-hp booster	
PWL	80 ft	per form	
Disch Psi	60 psi	per form	
PUMP Eff Estimate	0.82 %		
TDH	219 ft		
OHP	131.2 hp		
Flow	2377 gpm	=	5.30 cfs
System Method:			
No Lines	10	Nozzle Equation: $Q = C \cdot A \cdot \sqrt{2 \cdot g \cdot h} / \sqrt{1 - r^4}$	
Birds per line	32	C=	1.00 Nozzle coefficient; typical 0.97 to 1.00
Ttl no nozzles	320	r=	0.0065 ft Nozzle radius
Nozzle size	5/32 in	A=	0.00013 ft^2 Nozzle area
Nozzle pressure	60 psi	h=	139 ft Head
Flow per nozzle	5.65 gpm	g=	32.2 ft/sec^2 Gravitational constant
Sprinkler Flow	1807 gpm	Q=	0.013 cfs Flow per nozzle
Percent Leaks	12 %	=	5.646 gpm Flow per nozzle
Total Flow	2053 gpm	=	4.57 cfs
Pivot / System rating		gpm	=

Comments / Data Supplied:

1/31/2000 snk

Per returned form, Jerry Udy estimated flow at 2170 gpm.

1984, 60 hp well, 100-hp booster, 80' pwl, 60 psi discharge pressure. Booster pump removed.

"Rick Neff owned this property from 1979 to 1996. According to his memory:

1979-1984. 10 handlines, 32 birds per line 5/32" nozzles at 60 psi and flooded 20 acres.

1984. Removed booster and joined mainline with mainline to pump on 14S27E29NENWNE.

The two wells together furnished 15.5 to 16 lines, 32 birds per line, 5/32" nozzles at 60 psi.

1984-1996. It appears to run 6 lines 32 birds 5/32" nozzles at 60 psi.

1996. I purchased the property and changed the nozzles to 9/64". I pump the 2 wells together and use 16-17 lines 32 birds per line 9/64" at 60 psi. Attached are papers from Raft River Rural Electric.

Idaho Department of Water Resources
Estimated Pumping Rate Documentation Form

Flow Analysis Performed by: **Scott King**

Date: **1/31/2000**

Page 2 of 2

Record ID	108	Measured Flow:	
Water Right No.	A43-11200	Designed Flow:	
Name	Willett, Jodee & Oleta	HP/Eff Flow:	1.91 cfs
pod	14S27E29SENWNE	Sprinkler Flow:	
year	1984 without booster	Pivot/System Flow:	
Flow Measurement:		gpm	=
Curve/Pump Design:		gpm	=
Horsepower / Efficiency Method			
Horsepower	60	hp	
PWL	80	ft	
Disch Psi	60	psi	
Eff Estimate	0.79	%	
TDH	219	ft	
OHP	47.4	hp	
Flow	859	gpm	= 1.91 cfs
System Method:			
No Lines		Nozzle Equation: $Q = C \cdot A \cdot \sqrt{2 \cdot g \cdot h} / \sqrt{1 - r^4}$	
Birds per line		C=	1.00 Nozzle coefficient; typical 0.97 to 1.00
Ttl no nozzles	0	r=	0.0000 ft Nozzle radius
Nozzle size		A=	0.00000 ft^2 Nozzle area
Nozzle pressure		h=	0 ft Head
Flow per nozzle	0.00	g=	32.2 ft/sec^2 Gravitational constant
Sprinkler Flow	0	Q=	0.000 cfs Flow per nozzle
Percent Leaks		=	0.000 gpm Flow per nozzle
Total Flow	0	gpm	=
Pivot / System rating		gpm	=

Comments / Data Supplied:

1/31/2000 snk

Per returned form, Jerry Udy estimated flow at 2170 gpm.

1984, 60 hp well, 100-hp booster, 80' pwl, 60 psi discharge pressure. Booster pump removed.

"Rick Neff owned this property from 1979 to 1996. According to his memory:

1979-1984. 10 handlines, 32 birds per line 5/32" nozzles at 60 psi and flooded 20 acres.

1984. Removed booster and joined mainline with mainline to pump on 14S27E29NENWNE.

The two wells together furnished 15.5 to 16 lines, 32 birds per line, 5/32" nozzles at 60 psi.

1984-1996. It appears to run 6 lines 32 birds 5/32" nozzles at 60 psi.

1996. I purchased the property and changed the nozzles to 9/64". I pump the 2 wells together and use 16-17 lines 32 birds per line 9/64" at 60 psi. Attached are papers from Raft River Rural Electric.

0
0
0
0

Idaho Department of Water Resources
Adjudication Bureau

December 6, 1999

A4311200
WILLETT OLETA
14S27E29SEWNNE

RECEIVED

JAN 20 2000

Data Submission for Estimating Well Pumping Capacity

Department of Water Resources

This form is for documenting historic flow rate from a well based on available information including: flow measurements, pump curves or specifications, system characteristics such as motor horsepower, depth to water, discharge pressure, and irrigation system characteristics. The department is attempting to quantify the maximum rate of flow diverted and put to beneficial use in the years prior to November 1987.

If you have any questions regarding this data request, please contact either Scott King (208) 327-7897 or Cindy Bird (208) 327-5450. You may also dial the adjudication hotline (1-800-451-4129) and ask for Scott or Cindy. If you prefer to discuss these questions with us instead of completing the form, your call is welcomed. We can also be contacted by e-mail at sking@idwr.state.id.us and cbird@idwr.state.id.us

1) Rate of Flow measurements: 2169.83 GPM (cfs or gpm)

Please give approximate date, person or entity performing measurement, description of measuring device and any other applicable data. Examples may include measurements made as part of an energy efficiency survey, which are often provided as a service through your electric utility.

Terry Udy working at Raft River Rural Electric Co-op in Malta figured
the flow rate and head using the IDWR Power Conservation
Coefficient Formula 1-14-2000

2) Pump characteristic curves or specifications: Please include copy of pump curve, or state designed pumping capacity, rated flow and head, and approximate year of pump installation. Other helpful items may include the pump manufacturer, model number, and number of stages.

60 HP Peerless Pump 100 HP Aurora Booster Pump
Flow 2169.83 GPM HEAD 218.60

3) Pumping system characteristics:

Diversion rate can be determined by using power, pumping lift, discharge pressure, and estimated pumping efficiency. If the system has changed over time, you can provide information for several system configurations.

Year	Well pump motor horsepower	Booster pump(s) motor horsepower	Depth to water, pump off (ft)	Depth to water, pump on (ft)	Discharge pressure (psi)
1984	60	100		80'	60
1984	60				

4) Irrigation System:

Please provide description of the water delivery system. State number of lines and birds, nozzle size, and operating pressure(s) of impact-type sprinkler systems; designed rated flow for pivot systems. As above, if various systems have been used through the years, provide year as well. Example:

1963 to 1974 – Well pump open discharges to ditches for flood irrigation using 50 siphons per set. Siphons were 1.5 inch diameter, 5 feet long.

1975 to 1984 – Six wheel lines with 32 birds per line, 5/32 inch nozzles operating at 60 to 70 psi at the sprinklers.

1985 to present – Eight tower center pivot with impact sprinklers and end gun, no corner catcher, designed for 1150 gpm. Also solid set hand lines in corners which operate separate of the pivot, operating a total of 250 birds per set, 9/64 inch nozzles operating at 65 to 75 psi at the sprinklers.

RICK NEFF owned this property from 1979 to 1996. according to his memory
1979-1984 10 handlines 32 birds per line 5/32" NOZZLES at 60 PSI and Flooded 20
1984 removed booster and joined mainline with mainline to
pump on 14S27E29NENE. The two wells together furnished 15 1/2 -16
lines, 32 birds per line 5/32" Nozzles at 60 PSI.
1988-1996 it appears to run 6 lines 32 birds 5/32" nozzles at 60 PSI

5) Other information:

Please also include any other information that you feel may indicate maximum historic diversion rate for your well.

1996 I purchased the property and changed the nozzles
to 9/64". I pump the 2 wells together and use
16-17 lines 32 birds per line 9/64" at 60 PSI
Attached are papers from RAFT River Rural Electric

A4311200

14527E 29SE NWNE

IDWR Power Conservation Coefficient Formu

PSI		Pumping Level	TDH
60	2.31	60	198.60
TDH			PCC
198.60	0.68	1.0235	298.92
KWH	PCC	AC/FT	
19,600	298.92	65.57	

CONSUMER NAME AND SVC#
SEASON 1988

IDWR Power Conservation Coefficient Formu

KW			BHP	
62	1.35	0.91	76.17	
BHP			TDH	GPM
76.17	0.75	3960	198.60	1139.05
KW		GPM	PCC	
62	5431	1139.05	295.62	
KWH	PCC	Months	AC/FT	
19,600	295.62	1	66.30	
Acres	AC/FT	AC/FT Per AC		
9	66.30	7.37		

A 4311200
14 S 27E29 SE NW NE

IDWR Power Conservation Coefficient Formu

PSI		Pumping Level	TDH
60	2.31	80	218.60
TDH			PCC
218.60	0.68	1.0235	329.03
KWH	PCC	AC/FT	
34,480	329.03	104.79	

CONSUMER NAME AND SVC# 24056
SEASON 1984

IDWR Power Conservation Coefficient Formu

KW			BHP	
130	1.35	0.91	159.71	
BHP			TDH	GPM
159.71	0.75	3960	218.60	2169.83
KW		GPM	PCC	
130	5431	2169.83	325.39	
KWH	PCC	Months	AC/FT	
34,480	325.39	1	105.97	
Acres	AC/FT	AC/FT Per AC		
9	105.97	11.77		

Estimated Pumping Rate Documentation Form

Flow Analysis Performed by: **Scott King**Date: **1/31/2000**

Page 1 of 1

Record ID	109	Measured Flow:	
Water Right No.	A43-11200 pump 2 of 2	Designed Flow:	4.71 cfs
Name	Willett, Jodee & Oleta	HP/Eff Flow:	4.96 cfs <<--Max
pod	14S27E29NENWNE	Sprinkler Flow:	4.57 cfs
year:	1984	Pivot/System Flow:	
Flow Measurement:	gpm =		
Curve/Pump Design:	2113 gpm = 4.71 cfs	Estimate by Jerry Udy, Raft River Rural Electric	
Horsepower / Efficiency Method			
Horsepower	150 hp		
PWL	80 ft		per form
Disch Psi	60 psi		per form
PUMP Eff Estimate	0.82 %		
TDH	219 ft		
OHP	123 hp		
Flow	2228 gpm = 4.96 cfs		
System Method:			
No Lines	10	Nozzle Equation: $Q=C*A*\sqrt{2*g*h} / \sqrt{1-r^4}$	
Birds per line	32	C=	1.00 Nozzle coefficient; typical 0.97 to 1.00
Ttl no nozzles	320	r=	0.0065 ft Nozzle radius
Nozzle size	5/32 in	A=	0.00013 ft^2 Nozzle area
Nozzle pressure	60 psi	h=	139 ft Head
Flow per nozzle	5.65 gpm	g=	32.2 ft/sec^2 Gravitational constant
Sprinkler Flow	1807 gpm	Q=	0.013 cfs Flow per nozzle
Percent Leaks	12 %	=	5.646 gpm Flow per nozzle
Total Flow	2053 gpm = 4.57 cfs		
Pivot / System rating	gpm =		

Comments / Data Supplied:

2/2/2000 snk

per returned form: Jerry Udy of Raft River Rural Electric estimated flow--close to my estimate.

"1984. 10 lines 32 birds 5/32" nozzles at 60 psi.

1984 joined with mainline to well mainline on SENWNE added 5 1/2 lines. The two wells pumped together for a total of 15.5 to 16 lines, 32 birds per line 5/32" nozzles at 60 psi.

1986-1996. 12 lines 32 birds per line 5/32" nozzles at 60 psi.

1996-present. 12 lines 32 birds per line 9/64" nozzles at 60 psi."

Sprinkler flow agrees well with hp/eff estimate and Udy's estimate.

December 6, 1999

A4311200
F WILLETT OLETA
C 14S27E29NENWNE

RECEIVED

JAN 20 2000

Department of Water Resources

Data Submission for Estimating Well Pumping Capacity

This form is for documenting historic flow rate from a well based on available information including: flow measurements, pump curves or specifications, system characteristics such as motor horsepower, depth to water, discharge pressure, and irrigation system characteristics. The department is attempting to quantify the maximum rate of flow diverted and put to beneficial use in the years prior to November 1987.

If you have any questions regarding this data request, please contact either Scott King (208) 327-7897 or Cindy Bird (208) 327-5450. You may also dial the adjudication hotline (1-800-451-4129) and ask for Scott or Cindy. If you prefer to discuss these questions with us instead of completing the form, your call is welcomed. We can also be contacted by e-mail at sking@idwr.state.id.us and cbird@idwr.state.id.us

1) Rate of Flow measurements: 2112.76 GPM (cfs or gpm)

Please give approximate date, person or entity performing measurement, description of measuring device and any other applicable data. Examples may include measurements made as part of an energy efficiency survey, which are often provided as a service through your electric utility.

Jerry Udy working at RAFT River Rural Electric Co-op in MALTA
figured the Flow Rate and head using the IDWR Power
Conservation Coefficient formula - 1-14-2000

2) Pump characteristic curves or specifications: Please include copy of pump curve, or state designed pumping capacity, rated flow and head, and approximate year of pump installation. Other helpful items may include the pump manufacturer, model number, and number of stages.

150 HP U.S. Motors pump. year of installation 1984
model # IDR-6350-07-363
FDH 198.60 - 218.60 GPM 1936.15 - 2112.76

3) Pumping system characteristics:

Diversion rate can be determined by using power, pumping lift, discharge pressure, and estimated pumping efficiency. If the system has changed over time, you can provide information for several system configurations.

Year	Well pump motor horsepower	Booster pump(s) motor horsepower	Depth to water, pump off (ft)	Depth to water, pump on (ft)	Discharge pressure (psi)
1984	150			80	60
1986	150			60	60

4) Irrigation System:

Please provide description of the water delivery system. State number of lines and birds, nozzle size, and operating pressure(s) of impact-type sprinkler systems; designed rated flow for pivot systems. As above, if various systems have been used through the years, provide year as well. Example:

1963 to 1974 – Well pump open discharges to ditches for flood irrigation using 50 siphons per set. Siphons were 1.5 inch diameter, 5 feet long.

1975 to 1984 – Six wheel lines with 32 birds per line, 5/32 inch nozzles operating at 60 to 70 psi at the sprinklers.

1985 to present – Eight tower center pivot with impact sprinklers and end gun, no corner catcher, designed for 1150 gpm. Also solid set hand lines in corners which operate separate of the pivot, operating a total of 250 birds per set, 9/64 inch nozzles operating at 65 to 75 psi at the sprinklers.

1984 - 10 lines 32 birds 5/32" nozzles at 60 PSI

1984 joined with mainline to well mainline on SE NW NE added 5 1/2 lines. the two wells pumped together for a total of 15 1/2 - 16 lines 32 birds per line 5/32" nozzles at 60 PSI.

1986 - 12 lines 32 birds per line 5/32" nozzles at 60 PSI.

1996 - Present 12 lines 32 birds per line 9/64" nozzles at 60 PSI

5) Other information:

Please also include any other information that you feel may indicate maximum historic diversion rate for your well.

A4311200
145 27E 29 NENWNE

IDWR Power Conservation Coefficient Formu

PSI		Pumping Level	TDH
60	2.31	80	218.60
TDH			PCC
218.60	0.68	1.0235	329.03
KWH	PCC	AC/FT	
29,520	329.03	89.72	

CONSUMER NAME AND SVC# 24089
SEASON 1984

IDWR Power Conservation Coefficient Formu

KW			BHP	
116	1.35	0.91	142.51	
BHP			TDH	GPM
142.51	0.75	3960	218.60	1936.15
KW		GPM	PCC	
116	5431	1936.15	325.39	
KWH	PCC	Months	AC/FT	
29,520	325.39	1	90.72	
Acres	AC/FT	AC/FT Per AC		
9	90.72	10.08		

A 4311200

14827E 29NE NWNE

Nett Big

IDWR Power Conservation Coefficient Formu

PSI		Pumping Level	TDH
60	2.31	60	198.60
TDH			PCC
198.60	0.68	1.0235	298.92
KWH	PCC	AC/FT	
52,646	298.92	176.12	

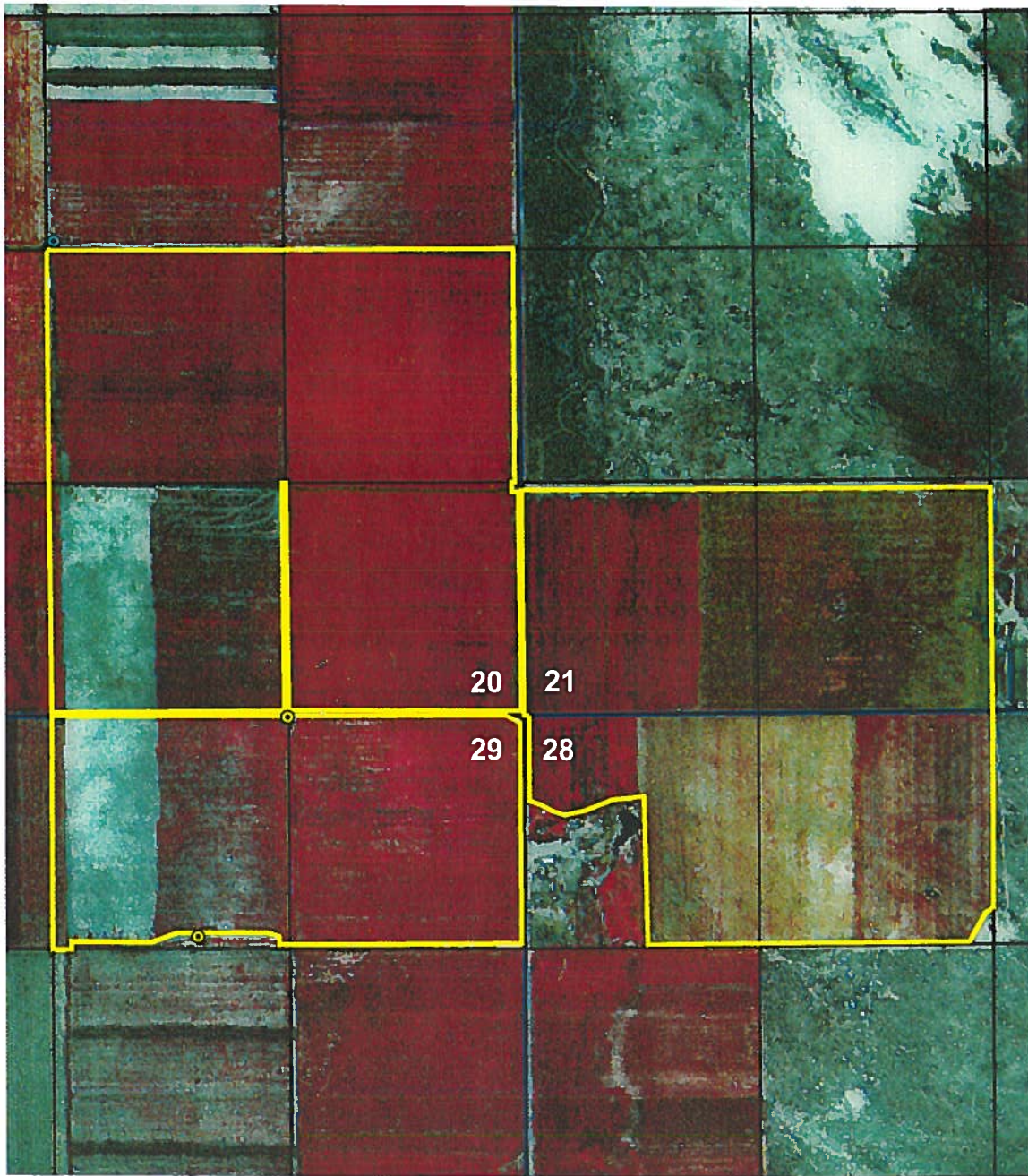
CONSUMER NAME AND SVC#

SEASON 1986

IDWR Power Conservation Coefficient Formu

KW			BHP	
115	1.35	0.91	141.28	
BHP			TDH	GPM
141.28	0.75	3960	198.60	2112.76
KW		GPM	PCC	
115	5431	2112.76	295.62	
KWH	PCC	Months	AC/FT	
52,646	295.62	1	178.09	
Acres	AC/FT	AC/FT Per AC		
9	178.09	19.79		

43-02298E, 43-02229, 43-11200, & 43-11201

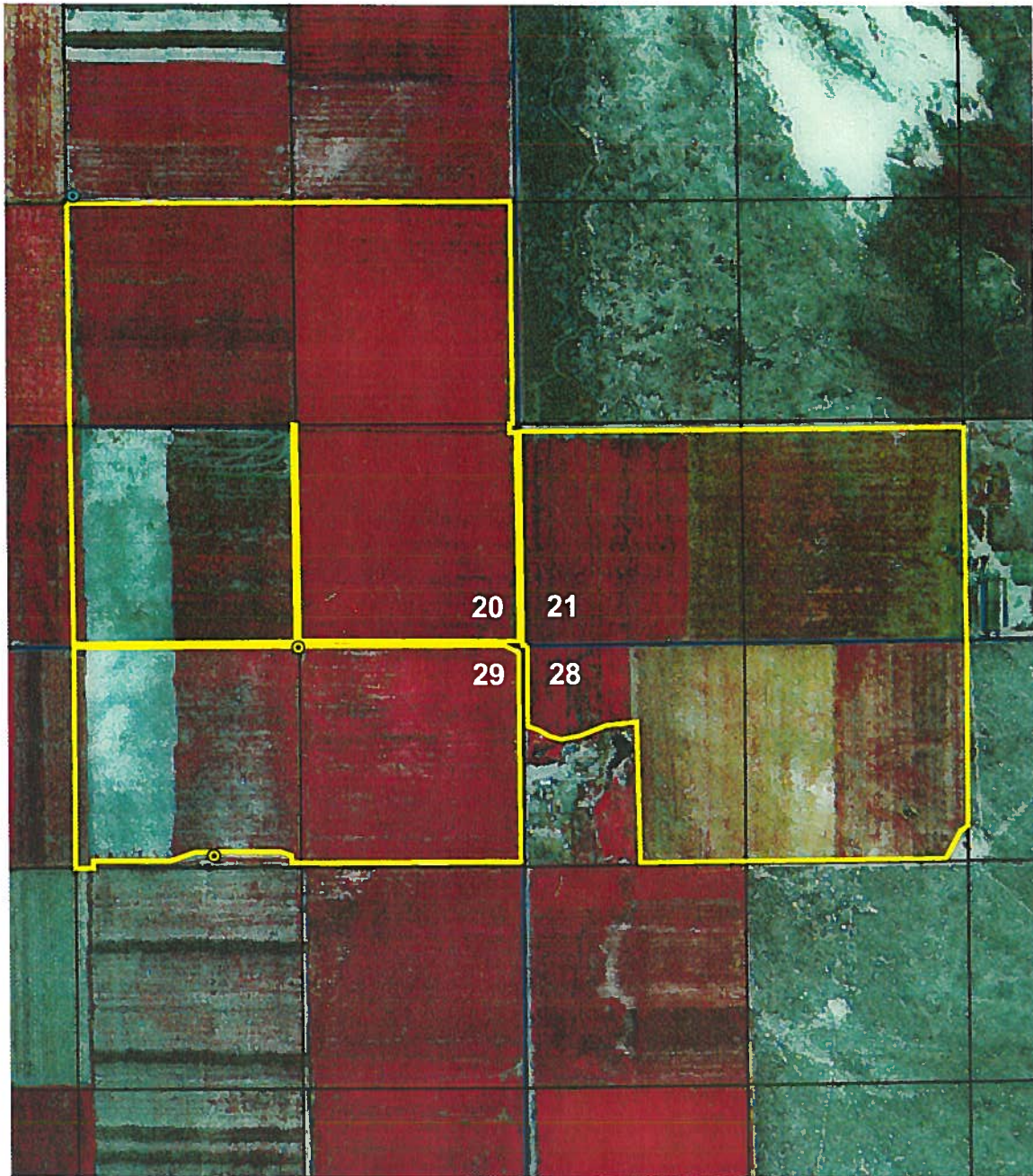


RECOMMENDED PLACE OF USE
DATA ENTRY ON FEB. 19, 2001
TWP 14S, RNG 27E, SEC. 20, 21, 28, & 29

- Point of diversion
- Place of use
- Quarter-quarter lines
- Section lines

Gis Place of Use Presentation
1987/1988 Napp Photography
Prepared by Jeanie Robertson

43-02298E, 43-02229, 43-11200, & 43-11201



0 1320 2640 Feet

RECOMMENDED PLACE OF USE
DATA ENTRY ON FEB. 16, 2001
TWP 14S, RNG 27E, SEC. 29, 28, 20, 21



- Point of diversion
- Place of use
- Quarter-quarter lines
- Section lines

Gis Place of Use Presentation
1987/1988 Napp Photography
Prepared by Jeanie Robertson

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

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45

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PROFILE REPORT

CLAIM NUMBER: A43-11200

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	JODEE WILLETT	06/30/1985	IRRIGATION	04-01 11-01	3.000 CFS	
C	OLETA WILLETT			3/15 → 11/15	3.000 CFS	
TOTAL DIVERSION:					0.92	

Water Source: GROUNDWATER Tributary to:

Stage: BENEFICIAL USE

Point(s) of Diversion: T14S R27E S29 NENWNE SENWNE CASSIA County

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	SWSE	SESE	:	SUM
Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	:	Lt	Ac	Lt	Ac	:	Lt	Ac	Lt	Ac	:	Lt	Ac	Lt	Ac	:	
14S	27E	20	:					:					:					:			40	13	:	53.0
14S	27E	21	:					:					:				08	:					:	8.0
14S	27E	28	:					:	39	25			:					:					:	64.0
TOTAL ACRES																						125.0		

POU County: CASSIA

Other Rights: A43-02298A

Remarks: GEN THIS IS AN EXPANSION CLAIM FOR ACRES UNDER LICENSE 43-02298, WITH
NO ADDITIONAL WATER.

Dates: Exam Made Date: Verified Date: Objection Filed Date:

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

diversion rate: $3 \div 376 \times 116 = 0.92 \text{ cfs}$

Cond. Code C18
Remarks: K06 116 Ac.
POU 1 E14 376 Ac.
wall

QNT E25 3 cfs
1040 AF
w/-0

E28 .02 cfs in

GEN K04
expansion
la

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

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QUICKLOOK INFORMATION

44
CLAIM NUMBER: A43-11200

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	COMPLETED DATA ENTRY WHOM/DATE	VERIFIED DATE WHOM/DATE
PRIORITY DATE	-							
POINT OF DIV	-							
SOURCE	-							
PLACE OF USE	-							
DIV. AMOUNT CFS/VOLUME	-							
CONSUMPTIVE USE	-							
PURPOSES OF USE	-							
PERIOD OF USE	-							
BASIS OF CLAIM	-							
REMARKS	-							

BARCODE UPDATED
WHOM/DATE