

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: **A43-04111**
Date Received: 10/12/1999
Receipt No: S022597
Received By: 

**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: AUG 1, 1958

3. Source: GROUNDWATER Trib. to:

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
14S	27E	32	SE	NW			CASSIA
			NW	SW			CASSIA

5. Description of diverting works:
2 WELLS AND RAFT RIVER WATER COMINGLED INTO ONE MAINLINE

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	04/01	11/01	1.600		

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

8. Total consumptive use is Acre Feet Per Annum.

9. Non-irrigation uses:
NONE

10. Place of Use:

Township	Range	Section	1/4	of	1/4	Lot	Use	Acres
14S	27E	29	SW		NE		IRR	40.0
			SE		SW		IRR	40.0
			NW		SE		IRR	40.0
			SW		SE		IRR	40.0

Section Acres 160.0

Total Acres 160.0

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:
43-02395 AND 43-02416

14. Remarks:
TRANS. 2598.

15. Basis of Claim: STATUTORY CLAIM

16. Signature(s)

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

Number of attachments: _____

For Individuals:

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

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

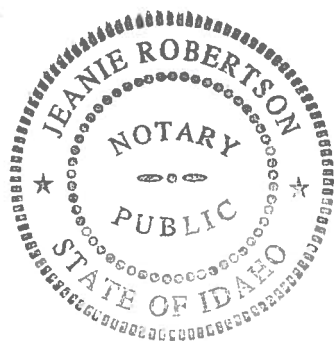
Date: _____

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

Seal



Residing at Twin Falls, ID

My Commission Expires 9-23-2000

RECEIPT
For Monies Paid
to the
Idaho Department of Water Resources

Receipt No: S022597

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: Janice Robertson

WR5809NP
No. 43-04111

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT

DATE: 10/13/99
PAGE: 4

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	JODEE WILLETT	08/01/1958	IRRIGATION	04/01 11/01	1.600 CFS	
TOTAL DIVERSION:					1.600 CFS	

Water Source: GROUNDWATER

Tributary to:

Stage: STATUTORY CLAIM

Point(s) of Diversion: T14S R27E S32 SENW NWSW CASSIA County

Place of use Legal Description for: IRRIGATION

				NE				NW				SW				SE										
				NENE	NWNE	SWNE	SENE	:	NENW	NWNW	SWNW	SENW	:	NESW	NWSW	SWSW	SESW	:	NESE	NWSE	SWSE	SESE	:			
T	R	S	:	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	:	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	:	SUM
14S	27E	29	:			40		:						:											:	80.0
																							TOTAL ACRES		80.0	

Pou County: CASSIA

Other Water Rights with Same Point(s) of Diversion with Stage (Includes All Sources):
43-02395 43-02416

Other Water Rights Listing Overlapping Place(s) of use:
43-00191

Remarks: GEN TRANS. 2598.

Dates:	App. Received:	Priority Date:	08/01/1958
	Proof Due Date:	Proof Made Date:	
	Exam Made Date:	Exam Sent to S.O.:	
	Licensed Date:		

Misc: Water District Number: Field Exam Fee:

Audit: 01/28/86 05/28/88 CONVERT

VERIFIED BY *8/3/10*

03/01/2001

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

RIGHT NUMBER: 43-4111
NAME AND ADDRESS: JODEE WILLETT
OLETA WILLETT
2534 S 2400 E
MALTA, ID 83342

SOURCE: GROUND WATER

QUANTITY: 1.35 CFS
552 AFY

USE OF THE RIGHTS LISTED BELOW IS LIMITED TO A TOTAL
COMBINED DIVERSION RATE OF 5.85 CFS AND TO A TOTAL COMBINED
ANNUAL DIVERSION VOLUME OF 1452 AF. COMBINED RIGHT NOS.: 43-
02395, 43-02416, & 43-04111.

WHEN COMBINED THE FOLLOWING RIGHT NOS. SHALL PROVIDE NO
MORE THAN .02 CFS PER ACRE.: 43-00177B, 43-00191A, 43-00191B,
43-02395, 43-02416, & 43-04111.

PRIORITY DATE: 08/01/1958

POINT OF DIVERSION: T14S R27E S32 SESENW Within CASSIA County
T14S R27E S32 SWNSW 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	1.35 CFS 552.00 AFY

PLACE OF USE:

<u>IRRIGATION Within CASSIA County</u>			
T14S R27E S29	SWNE	40	T14S R27E S29 SWSW 40
T14S R27E S29	SESW	40	T14S R27E S29 NWSE 40
T14S R27E S29	SWSE	39	T14S R27E S32 NENW 40
T14S R27E S32	NWNW	35	T14S R27E S32 SWNW 32
T14S R27E S32	SENW	38	T14S R27E S32 NWSW 19

363 ACRES TOTAL

THIS RIGHT IS LIMITED TO THE IRRIGATION OF 138 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 363 ACRES IN A SINGLE IRRIGATION SEASON.
COMBINED RIGHT NOS.: 43-00177B, 43-00191A, 43-00191B, 43-02395,
43-02416, & 43-04111.

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

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

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

Water Right 43-4111

Idaho Department of Water Resources

43-00177B, 43-00191A, 43-00191B,
43-02395, 43-02416, & 43-04111



0 1320 2640 Feet

RECOMMENDED PLACE OF USE
DATA ENTRY ON FEB. 23, 2001
TWP 14S, RNG 27E, SEC. 29 & 32

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

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

Idaho Department of Water Resources

43-00177B, 43-00191A, 43-00191B,
43-02395, 43-02416, & 43--04111



0 1320 2640 Feet



RECOMMENDED PLACE OF USE
DATA ENTRY ON FEB. 23, 2001
TWP 14S, RNG 27E, SEC. 29 & 32



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

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

Revised Recommendation :
A43-04111

After receiving my letter advising them of how I was inclined to recommend this right (only 40 as B.U. and the rest as expansion and no more water or volume), the Willetts came into the office on Feb. 28, 2001. They told me that Jodee had moved onto that place with his parents in 1958 and that's when the pump was put on the well in the NW SW of Section 32. He said it's still the same pump on there now. Scott King's notes indicated that that well could be recommended for 4.25 cfs.

Since it was licensed under 43-02395 for 2.9 cfs, that left 1.35 cfs available capacity. They also said that they may not have farmed their 160 acres but they always put water on the whole 160 when they could and used it as pasture. I decided it was pretty hard to tell from the aerial photos conclusively that the ground wasn't irrigated. Since GIS showed a total of 363 irrigated acres in 1987, and 225 acres were licensed, I could recommend the remaining 138 acres as a beneficial use right with the available water from Scott's computations of 1.35 cfs and volume of 552 AF (138×4) and the claimed priority date of 8/1/1958.

R43-04111 8/1/1958

1.35 cfs / 552 AF

138/363 appx



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

February 23, 2001

JODEE & OLETA WILLETT
2534 S 2400 E
MALTA ID 83342

RE: ADJUDICATIONS CLAIM A43-04111

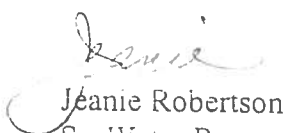
Dear Mr. & Mrs. Willett,

You have claimed that the acres in the SWNE, NWSE, SWSE, & SESW of Section 29, Township 14 south, Range 27 east were irrigated in 1958 in Adjudication Claim A43-04111. I have enclosed a copy of the 1962 aerial photo of the area, which shows approximately half of the SWNE, and half of the NWSE appear to be irrigated. The areas with a ? don't appear to be irrigated to me. At this point I'm inclined to recommend only 40 acres as irrigated by 1962 and the rest of the acres as an Expansion claim per 42-1416b, with a 6/30/1985 priority date and no additional diversion rate or volume. The 40 acres can have an additional volume of 160AF but no additional diversion rate as the two wells claimed were already measured and licensed for a total diversion rate of 4.5 cfs.

You will probably need to file an additional claim for these expansion acres, with a fee of \$50.00. (This is similar to what we did on the Neff and Briggs places.) If you decide to file this claim, you can give me a call and I can prepare the claim and send it to you for signature, notarization and fees. Or you can make an appointment to come into the office. You can also wait till after the Preliminary Director's Reports are mailed, which should be sometime next month.

Please feel free to give me a call at the office if you have any questions or if I can explain any of these things further.

Sincerely,


Jeanie Robertson
Sr. Water Resource Agent

Ken & your place

VERIFIED BY *[Signature]* 2/22/01
02/22/2001

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

RIGHT NUMBER: 43-4111
NAME AND ADDRESS: JODEE WILLETT
OLETA WILLETT
2534 S 2400 E
MALTA, ID 83342

SOURCE: GROUND WATER

QUANTITY: ~~0.67 CFS~~
120 AFY

USE OF THE RIGHTS LISTED BELOW IS LIMITED TO A TOTAL
COMBINED DIVERSION RATE OF 4.5 CFS AND TO A TOTAL COMBINED
ANNUAL DIVERSION VOLUME OF 1060 AF. COMBINED RIGHT NOS.: 43-
02395, 43-02416, & 43-04111.
WHEN COMBINED THE FOLLOWING RIGHT NOS. SHALL PROVIDE NO
MORE THAN .02 CFS PER ACRE.: 43-00177B, 43-00191A, 43-00191B,
43-02395, 43-02416, & 43-04111.

PRIORITY DATE: ~~03/15/1962~~
8-1-58

POINT OF DIVERSION: T14S R27E S32 SESENW Within CASSIA County
T14S R27E S32 SWNWSW Within CASSIA County

PURPOSE AND
PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
IRRIGATION	03-15 11-15	0.67 CFS 120.00 AFY

PLACE OF USE:

IRRIGATION Within CASSIA County					
T14S R27E S29	SWNE	40	T14S R27E S29	SWSW	40
T14S R27E S29	SESW	40	T14S R27E S29	NWSE	40
T14S R27E S29	SWSE	39	T14S R27E S32	NENW	40
T14S R27E S32	NWNW	35	T14S R27E S32	SWNW	32
T14S R27E S32	SENW	38	T14S R27E S32	NWSW	19

363 ACRES TOTAL

THIS RIGHT IS LIMITED TO THE IRRIGATION OF 40 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 363 ACRES IN A SINGLE IRRIGATION SEASON.
COMBINED RIGHT NOS.: 43-00177B, 43-00191A, 43-00191B, 43-02395,
43-02416, & 43-04111.

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

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

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

- A43-02416 1/21/1955 1.6 cfs 80 Ac.

- no pump or motor at time of inspection because of dispute over price of pump which was surrendered last year
- field inspection could have been done previous year but owner unable to make assigned date
- field spec done 6/5/57
- allowed inch per acre w/o measurement

R43-02416 1/21/1955 1.6 cfs/320 AF 80/363 ppu

- A43-04111 8/1/1958 1.6 cfs 160 Ac.

- original statutory claim was only for 80 Ac. (SWNE & NWSE)
 - said he was irrigating all 160 in 1958 but he was leasing 80 Ac. and didn't want to lose part of right to other person
 - owns it all now so when he filed in 1999, he claimed all 160 Ac.
 - claim was on both previously licensed wells (43-2395) (43-2416)
 - Scott King showed system capacity of 5.83 cfs but should be limited to total of licenses of 4.5 cfs
 - only 40 acres appear irrigated in 1962 & 1968 photos.
 - can recommend 40 acres w/ 120 AF additional volume
 - change priority date to 3/15/62 for lack of other evidence.
- $\therefore \text{diversion rate} = 4.6 \div 265 \times 40 = 0.67 \text{ cfs}$

$\swarrow$ (total of both licenses)

R43-04111 3/15/1962 0.67 cfs/120 AF 40/363 ppu

40 acres needed for 98 acres

- A43-00177B 5/24/1909 4.63 cfs 235 Ac.
- limited to recommended acres in 4 tracts
which were part of original decedent POA = 126 Ac.
- diversion rate = $126 \times .02 = 2.52$ cfs

R43-00177B 5/24/1909 2.52 cfs 126/363 pp4

- A43-00191A 4/1/1910 2 cfs 100 Ac.
- recommended acres same as claimed
- diversion rate okay

R43-00191A 4/1/1910 2 cfs 100/363 pp4

- A43-00191B 4/1/1910 1.2 cfs 60 Ac.
- recommended acres same as claimed
- diversion rate okay

R43-00191B 4/1/1910 1.2 cfs 60/363 pp4

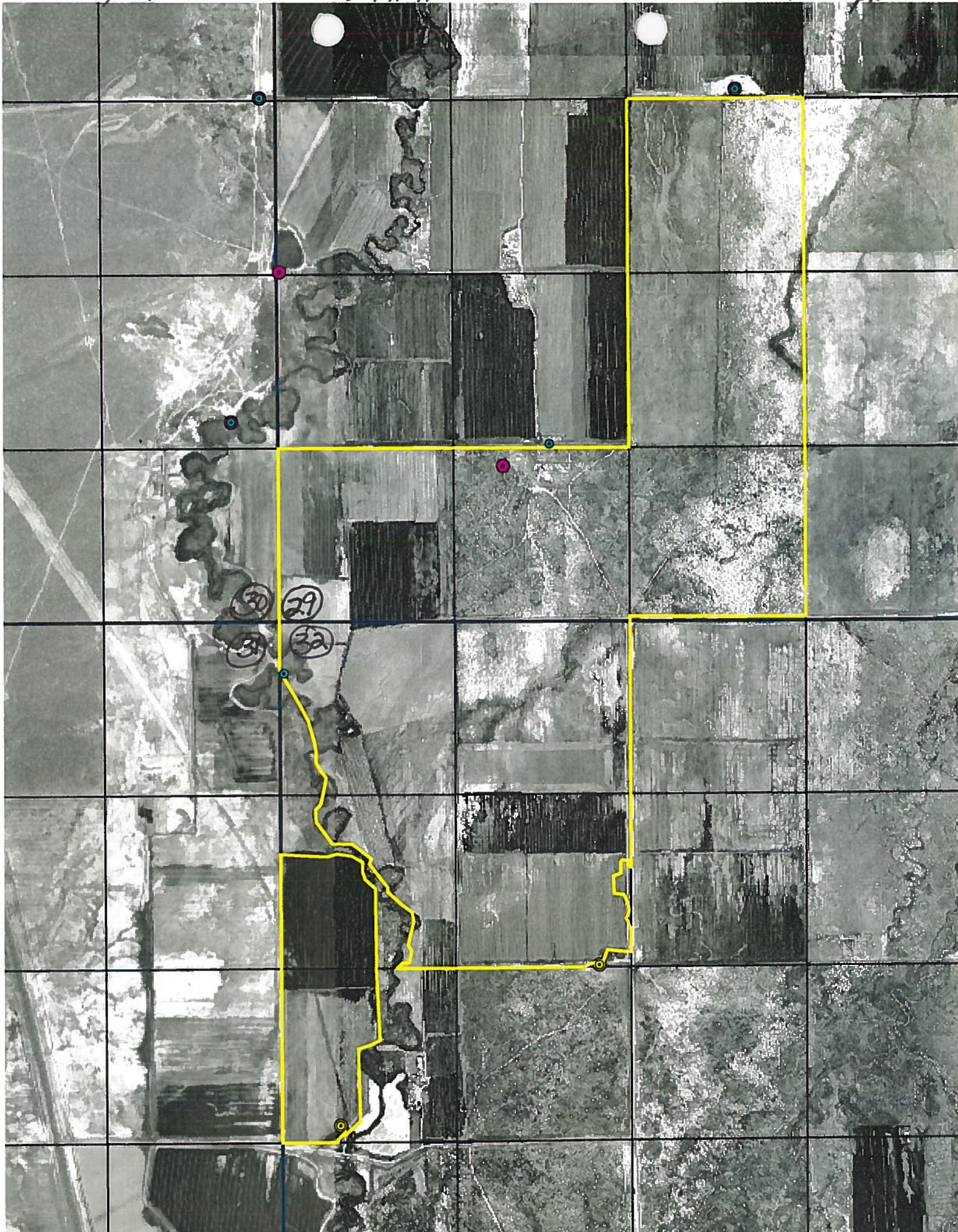
- A43-02395 6/1/1953 2.9 cfs 145 Ac.
- well licensed in NWSW of Sec. 32
- had 30hp motor, field exp. 7/11/1958
- meas. 2.02 cfs but licensed 2.9 cfs (inch per acre)

R43-02395 6/1/1953 2.9 cfs/580 AF 145/363 pp4

14S, 27E

Willet

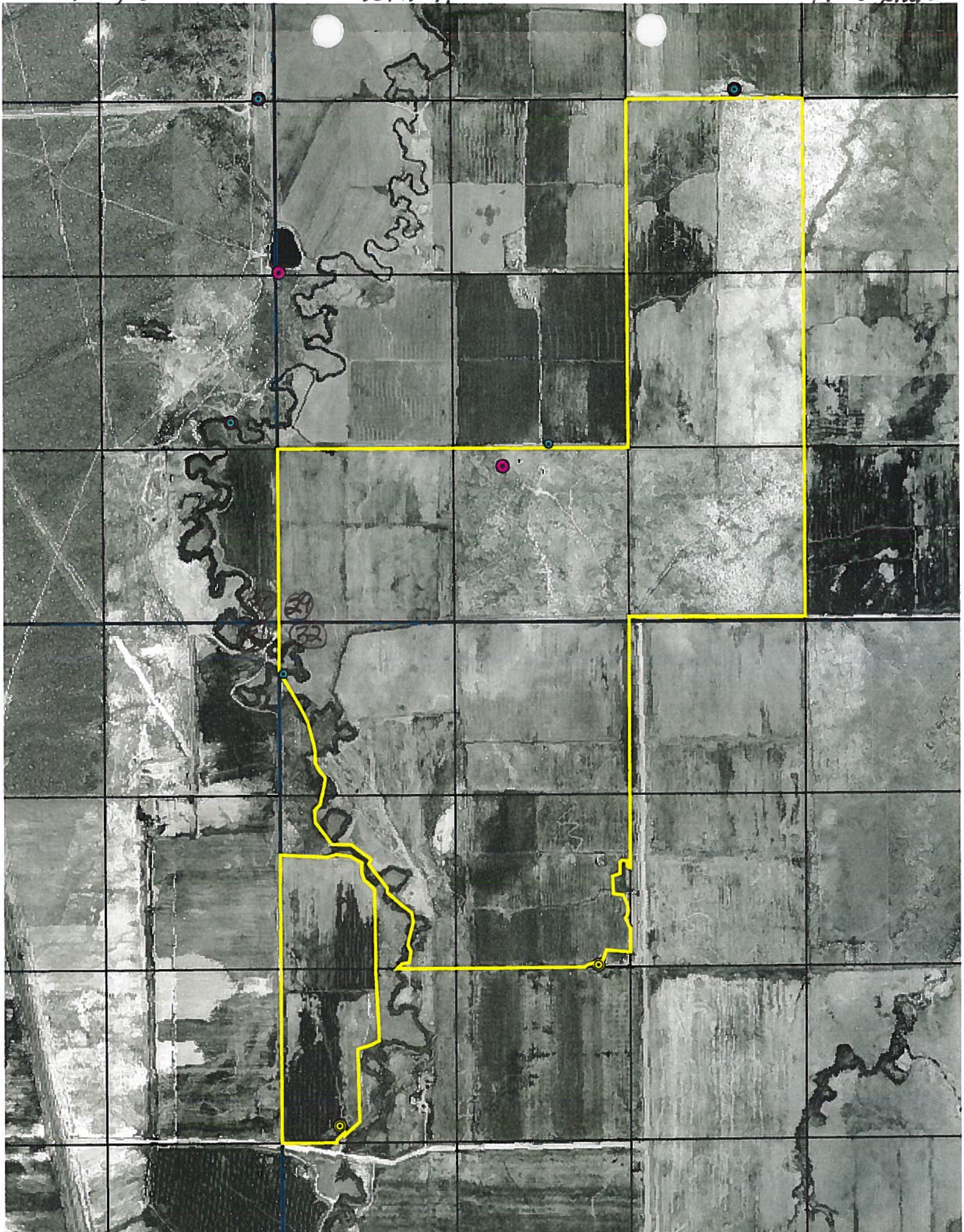
1962 photo



14S, 27E

Willett

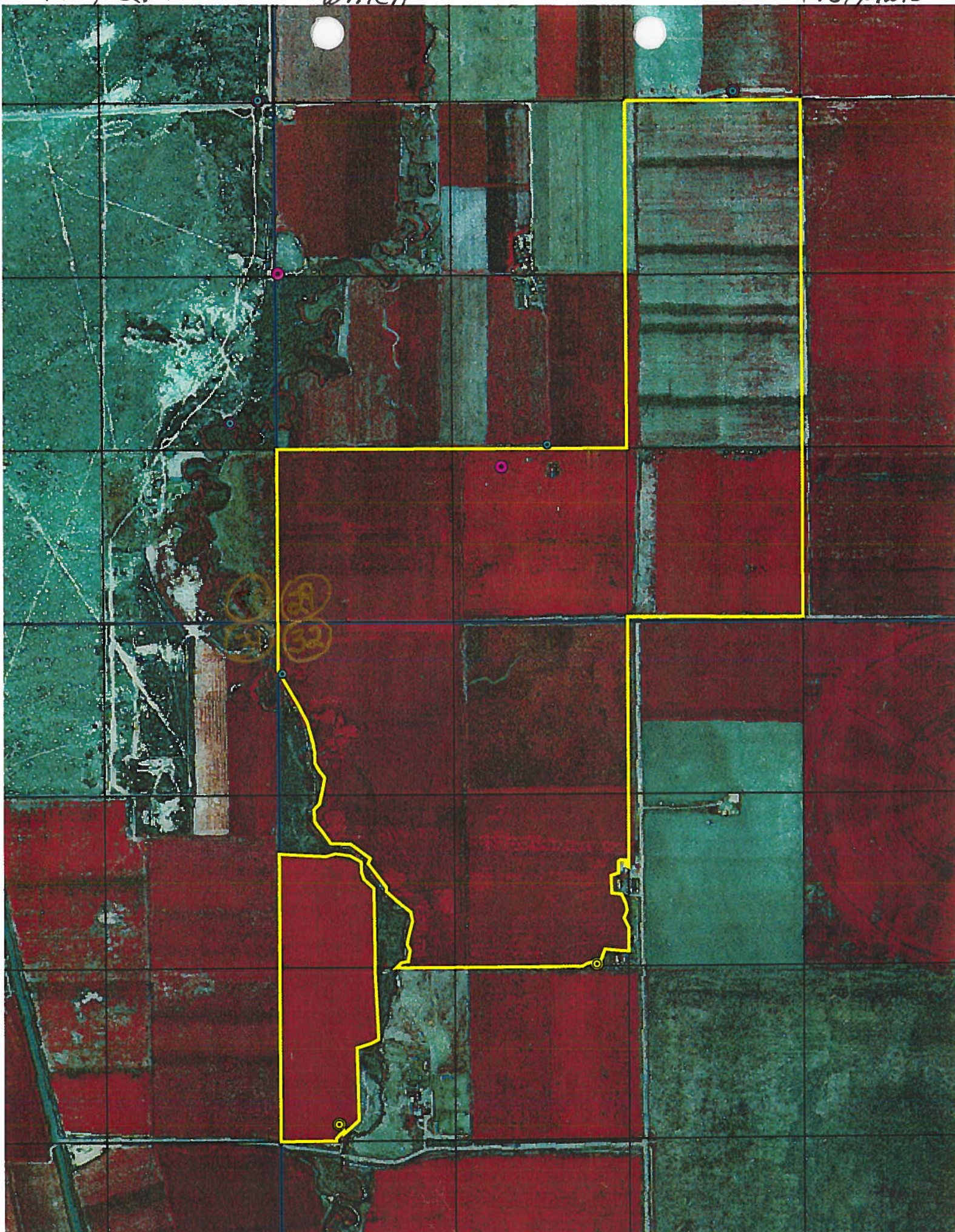
1968 photo



14S, 27E

Willet

1987 photo



425
158
5.83

Idaho Department of Water Resources
Estimated Pumping Rate Documentation Form
Flow Analysis Performed by: Scott King

ed 1/6/2000

Date: 1/31/2000

Page 1 of 2

Record ID	266	Measured Flow:	1.52 cfs
Water Right No.	A43-04111 <i>well 1 of 2</i>	Designed Flow:	1.11 cfs
Name	Willett, Jodee & Oleta	HP/Eff Flow:	1.58 cfs
pod	14S27E32SENW	Sprinkler Flow:	2.71 cfs
year:	1987	Pivot/System Flow:	
Flow Measurement:	681 gpm = 1.52 cfs	5/6/1987 by Robin Wells	
Curve/Pump Design:	500 gpm = 1.11 cfs	at 250 ft per Robin's report	
Horsepower / Efficiency Method			
Horsepower	40 hp	per form, (conditions from Robin's report)	
PWL	56 ft		
Disch Psi	52 psi	per form, (conditions from Robin's report)	
PUMP Eff Estimate	0.79 %		
TDH	176 ft		
OHP	31.6 hp		
Flow	711 gpm = 1.58 cfs		
System Method:			
No Lines	8	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	256	r=	0.0059 ft Nozzle radius
Nozzle size	9/64 in	A=	0.00011 ft ² Nozzle area
Nozzle pressure	50 psi	h=	116 ft Head
Flow per nozzle	4.17 gpm	g=	32.2 ft/sec ² Gravitational constant
Sprinkler Flow	1069 gpm	Q=	0.009 cfs Flow per nozzle
Percent Leaks	12 %	=	4.175 gpm Flow per nozzle
Total Flow	1214 gpm = 2.71 cfs		
Pivot / System rating	gpm =		

Comments / Data Supplied:

1/31/2000 snk
Per returned form: Robin Wells measured flow 5/6/1987, 681 gpm, efficiency 67.8% (near optimum).
1987 = 40-hp, 56' pwl, 52 psi. 1994 = 100-hp, no pwl or pressure given.
"1958 to 1976 Well pump open discharges to ditch for flood irrigation. Cut opening in ditch bank to disperse water.
1976 installed mainline. 6 handlines with 32 birds per line 9/64 in nozzles 60 psi.
1977-94 Minline joined with mainline from well on 14S27E32 NWSW (total of 2 wells, 18 handlines, 32 birds per line, 9/64 in nozzles 60 psi).
1994 to present. 8 handlines 32 birds per line 9/64 in nozzles 60 psi (total of 2 wells, 20 handlines)."

Although statement indicates 1987 should be 60 psi for the sprinkler flow, I entered 50 psi because 60 psi was higher than the pump discharge pressure, and because the calculated flow was much higher than the hp/eff theoretical flow. Also, recommend using the theoretical flow for 1987 as opposed to the sprinkler flow.

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	266	Measured Flow:	
Water Right No.	A43-04111	Designed Flow:	
Name	Willet, Jodee & Oleta	HP/Eff Flow:	3.32 cfs <<--Max
pod	14S27E32SENW	Sprinkler Flow:	2.96 cfs
year:	1994	Pivot/System Flow:	
Flow Measurement:		gpm	=
Curve/Pump Design:		gpm	=
Horsepower / Efficiency Method			
Horsepower	100 hp	From form	
PWL	56 ft	Assumed water level, snk	
Disch Psi	70 psi	Assumed pressure, snk	
Eff Estimate	0.82 %		
TDH	218 ft		
OHP	82 hp		
Flow	1492 gpm	=	3.32 cfs
System Method:			
No Lines	8	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	256	r=	0.0059 ft Nozzle radius
Nozzle size	9/64 in	A=	0.00011 ft^2 Nozzle area
Nozzle pressure	60 psi	h=	139 ft Head
Flow per nozzle	4.57 gpm	g=	32.2 ft/sec^2 Gravitational constant
Sprinkler Flow	1171 gpm	Q=	0.010 cfs Flow per nozzle
Percent Leaks	12 %	=	4.573 gpm Flow per nozzle
Total Flow	1330 gpm	=	2.96 cfs
Pivot / System rating		gpm	=

Comments / Data Supplied:

1/31/2000 snk
Per returned form: Robin Wells measured flow 5/6/1987, 681 gpm, efficiency 67.8% (near optimum).
1987 = 40-hp, 56' pwl, 52 psi. 1994 = 100-hp, no pwl or pressure given.
"1958 to 1976 Well pump open discharges to ditch for flood irrigation. Cut opening in ditch bank to disperse water.
1976 installed mainline. 6 handlines with 32 birds per line 9/64 in nozzles 60 psi.
1977-94 Minline joined with mainline from well on 14S27E32 NWSW (total of 2 wells, 18 handlines, 32 birds per line, 9/64 in nozzles 60 psi).
1994 to present. 8 handlines 32 birds per line 9/64 in nozzles 60 psi (total of 2 wells, 20 handlines)."
0
Computations indicate that the 1994 flows are higher, but since these are post 1987, they are not recommended.

Idaho Department of Water Resources
Adjudication Bureau

December 6, 1999

No A4304111
Po WILLETT OLETA
14S27E32SE NW
Cl

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: 681 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.

Measured 5-6-87 inspected # RRE 036 By Robin Wells
measurement device was Collins Flow Meter. Discharge pressure 52 PSI
Energy efficiency - 67-8%

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.

Pump manufacturer - GE 40 HP rated flow - 500 Head - 250
installation approximately 1987
1994 installed GE 100 HP Pump model # 10JKXH

14527E 32 SENW

Bonneville Power Administration
INITIAL PUMP TEST FORM

Page PT1B

Inspection #...IRRE 036 PT
5-6-1987

Pump # 2

A. # of Pumps in System 2

MAIN X

BOOSTER

SERIES

PARALLEL X

B. MOTOR DATA

1. Make.....GE
2. Frame #.....A364UF
3. Rated HP.... 40
4. Rated Volts: 440
5. Rated Amps.: 50
6. RPM..... 1780
7. Meter #.....

D. POWER INPUT DATA

1. Disc Revolutions.... 10.0
2. Meter Constant Kh.... 57.6
3. CTR..... 1.0
4. FIK/Multiplier..... 1.0
5. Time..... 32.2 sec
kW Metered= 33.3 kWe

	1-2	1-3	2-3	Average
6. Line Voltage.....	0.0	0.0	0.0	0.0
7. Amperage.....	0.0	0.0	0.0	0.0
8. Power Factor.. (%)...	0.0	0.0	0.0	0.0
kW Measured=	0.0 kWe			

E. FLOW AND PRESSURE DATA

1. Measurement Device: COLLINS
2. Pipe ID..... 8.100 in.
3. Pipe Material..... STEEL
4. Flow Reading..... 681.0 gpm
5. Discharge Pressure.: 32.0 psi

F. PUMPING WATER LEVEL AND FRICTION LOSSES

1. Pumping Lift..... 56 ft.
2. Suction Head..... 0 ft.
3. Gauge in feet..... 0.0 ft. In. Hg = 0 psi =
4. Water Level Fluct... 0 ft.
5. Misc Frict Losses... 0 ft.

G. EXISTING PUMPING PLANT CHARACTERISTICS

1. Total Dynamic Head.: 176.12 ft.
2. Flow..... 681 gpm
3. Water Horsepower... 30.3 WHF
4. Input Horsepower... 44.7 EHP
5. ESTIMATED BRAKE HP.: 40.2 BHP
6. Pumping Plant Eff... 67.6 %

Record ID	265	Measured Flow:	3.96 cfs
Water Right No.	A43-04111 (well 2 of 2)	Designed Flow:	3.43 cfs
Name	Willett, Jodee & Oleta	HP/Eff Flow:	4.25 cfs <<--Max
pod	14S27E32NWSW	Sprinkler Flow:	4.06 cfs
year:	1987	Pivot/System Flow:	
Flow Measurement:	1776 gpm = 3.96 cfs	by Robin Wells, 5/6/1987, efficiency=66.5%	
Curve/Pump Design:	1540 gpm = 3.43 cfs	per Robin's report	
Horsepower / Efficiency Method			
Horsepower	125 hp	per Robin's report	
PWL	81 ft		
Disch Psi	57 psi	per Robin's report	
PUMP Eff Estimate	0.82 %		
TDH	213 ft		
OHP	102.5 hp		
Flow	1909 gpm = 4.25 cfs		
System Method:			
No Lines	12	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	384	r=	0.0059 ft Nozzle radius
Nozzle size	9/64 in	A=	0.00011 ft^2 Nozzle area
Nozzle pressure	50 psi	h=	116 ft Head
Flow per nozzle	4.17 gpm	g=	32.2 ft/sec^2 Gravitational constant
Sprinkler Flow	1603 gpm	Q=	0.009 cfs Flow per nozzle
Percent Leaks	12 %	=	4.175 gpm Flow per nozzle
Total Flow	1822 gpm = 4.06 cfs		
Pivot / System rating	gpm =		

Comments / Data Supplied:

1/31/2000 snk
per returned form: Robin Wells' pump test 5/6/1987, conditions entered above.
"1973-1977. Well pump open discharges to ditch for flood irrigation by cutting ditch bank to disperse water.
1977. Mainline installed and this well was joined with well on 14S27E32SENW. This well ran 12 handlines 32 birds 9/64 inch nozzles 60 psi at the sprinklers.
1977-present. 12 handlines 32 birds per line 9/64" nozzles 60 psi (the 2 wells together runs 20 handlines, 32 birds per line, 9/64" nozzles 60 psi)."

In the computation above, I entered 50 psi for sprinkler flow instead of the claimed 60 psi because
1) the system discharge pressure was only 57 psi, and 2) because sprinkler flow would be higher than theoretical maximum and measured at 60 psi. Recommend the hp/eff theoretical flow.
Also note that the sprinkler flow was higher for pump 1 as well. Based on the other computations, it appears likely that sprinkler flow is lower than either of these estimates indicates, and that either the actual system has smaller nozzles, operates at lower pressure, and/or has fewer birds.

Idaho Department of Water Resources
Adjudication Bureau

December 6, 1999

N A4304111
P WILLETT OLETA
14S27E32NWSW
C

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: 1776 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.

measured 5-6-87 by Robin Wells for RAFT River Rural electric co-op
measurement device - Collins Flow Meter
efficiency 66.5 Flow rate - 1776 GPM

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.

Pump Manufacturer GE 125 HP. model # SK 405 DP 60053
installed approximately 1987. Rated flow 1540 Rated head 250

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)
1987	125			81	57

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.

1973-1977 Well pump open discharges to ditch for Flood Irrigation by cutting ditch bank to disperse water

1977- Mainline installed and this well was lined with well an 14 S 27 E 32 S E N W This well ran 12 handlines 32 birds 9/64" nozzles 60 PSI at the sprinklers

1977-Present - 12 handlines 32 birds per line 9/64" nozzles 60 PSI. (The 2 wells together runs 20 handlines - 32 birds per line 9/64" nozzles 60 PSI)

5) Other information:

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

Irrigator Name.: JOE WILLETT
Irrig Acres.: 384

Inspection #.: RRE 036 PT
Inspection Date: 5/6/87

A. # of Pumps in System 2

Pump # 1

MAIN X

BOOSTER

SERIES

PARALLEL X

B. MOTOR DATA

1. Make.: GE
2. Frame #.: L405TP16
3. Rated HP.: 125
4. Rated Volts.: 460
5. Rated Amps.: 148
6. RPM.: 1760
7. Meter #.: 24080

C. PUMP DATA

1. Make.: VERTILINE
a Centrifugal:
b Turbine-Sub: TURBINE
2. Model #.: 12 RM
3. Serial #.: NS
4. Rated Head.: 250 ft.
5. Rated Flow.: 1540 gpm
6. Imp In Dia.: NS in.
7. Int/Clm Dia: 10.00 in.
8. Int/Clm Len: 160.0 ft.
9. # of Stages: 3
10. Shaft Dia.: 1.5 in.
11. Airline Len: ft.
12. Airline psi: psi
13. Calc Lift.: 0.0 ft.

D. POWER INPUT DATA

1. Disc. Revolutions.: 10.0
2. Meter Constant Kh.: 4.5
3. CTR.: 40.0
4. PTR/Multiplier.: 1.0
5. Time.: 54.6 sec
kW Metered= 107.0 kWe

	1-2	1-3	2-3	Average
6. Line Voltage.: 0.0	0.0	0.0	0.0	0.0
7. Amperage.: 0.0	0.0	0.0	0.0	0.0
8. Power Factor. (%): 0.0	0.0	0.0	0.0	0.0
kW Measured= 0.0 kWe				

E. FLOW AND PRESSURE DATA

1. Measurement Device.: COLLINS
2. Pipe ID.: 10.4 in.
3. Pipe Material.: STEEL
4. Flow Reading.: 1776.0 gpm
5. Discharge Pressure.: 57.0 psi

F. PUMPING WATER LEVEL AND FRICTION LOSSES

1. Pumping Lift.: 81.0 ft.
2. Suction Head.: 0.0 ft.
3. Gauge in feet.: 0.0 ft. in Hg = 0 psi w 0
4. Water Level Fluct.: 0.0 ft.
5. Misc Frict Losses.: 0.0 ft.

G. EXISTING PUMPING PLANT CHARACTERISTICS

1. Total Dynamic Head.: 812.57 ft.
2. Flow.: 1776 gpm
3. Water Horsepower.: 95.4 WHP
4. Input Horsepower.: 143.4 EHP
5. ESTIMATED BRAKE HP.: 129.1 BHP
6. Pumping Plant Eff.: 66.5 %

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

09:01:10
12/12/00
39

PAGE: 3
PROFILE REPORT

CLAIM NUMBER: A43-04111

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	JODEE WILLETT	08/01/1958	IRRIGATION	04-01 11-01	1.600 CFS	552 AF
C	OLETA WILLETT			3/15 - 7/11/15	1.600 CFS	(138 x 4)
TOTAL DIVERSION:					1.35	B.U.
Water Source: GROUNDWATER			Tributary to:		Stage: STATUTORY CLAIM	

Point(s) of Diversion: T14S R27E S32 SE SENW SW NWSW CASSIA 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
14S	27E	29	:			40	:					40	:	40	40	:	160.0			
TOTAL ACRES																			160.0	
																			138	

POU County: CASSIA

Non-Irrigation Uses: NONE

Other Rights: 43-02395 AND 43-02416

Remarks: GEN TRANS. 2598.

Dates: Exam Made Date:

Verified Date:

Objection Filed Date:

Misc: Water District Number:

Field Inspection Flag:

Presumption Flag:

div. rate = from Scott's notes
well in NWSW of Sec. 32
capable of 4.25
lic for 2.9
1.35 ←

Cond. Coole C18
Remarks:
PO41 K06 138Ac.
E14 363Ac.
QNT E28 .02 cfs
E27 5.85 cfs
1452 AF
w/ 2395
- 2416

GIS = 363
Lic = 225
BU = 138

(363 Ac x 4) →

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

08:59:50
12/12/00

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QUICKLOOK INFORMATION

38
CLAIM NUMBER: A43-04111

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	-N							
POINT OF DIV	Y-							
SOURCE	-N							
PLACE OF USE	Y-							
DIV. AMOUNT CFS/VOLUME	Y-							
CONSUMPTIVE USE	/							
PURPOSES OF USE	-N							
PERIOD OF USE	Y-							
BASIS OF CLAIM	Y-							
REMARKS	Y-							

BARCODE UPDATED
WHOM/DATE

NOV 01 1999

Department of Water Resources
Southern Region

IN THE MATTER OF:

A43-0411

State of Idaho

County of CASSIA

AFFIDAVIT

Jodee Willett being first duly sworn, deposes and says: IN July of 1958 I was working for my stepfather James Van Komen. He purchased property in T14S R27E S32 that had a deep well on it SE 1/4 of NW 1/4. Starting Aug 1 1958 we irrigated ground he owned in T14S R27E S29 (SW 1/4 of NW 1/4 + NW 1/4 SE 1/4) and also ground he leased (SE 1/4 SW 1/4 + SW 1/4 SE 1/4) with water from the well. I purchased the properties from him in 1972 and continued with his lease of the other property. IN 1977 I bought adjoining ground that had a well in the NW 1/4 SW 1/4. I joined the two wells together and commingled with river water into one main line. I have irrigated the above mentioned property continuously since Aug. 1958.

+ Jodee Willett

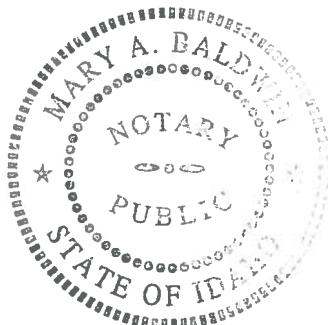
(signature)

On this 1st day of November in the year of 1999

personally appeared Jodee Willett known o
identified to me to be the person whose name is subscribed to th
within instrument and acknowledged to me that he executed the same

Mary A. Baldwin (notary public) My commission expires

Residing at Twain Falls Id 10/16/2004



Transfer No. 2598Water Right No. 43-411STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPROVED

APPLICATION FOR TRANSFER OF WATER RIGHT

To Change the Point of Diversion and/or the Place of Use

Name of Applicant Jodee Willett Phone 645-2252Post Office address Malta, ID 83342

A. DESCRIPTION OF RIGHT AS RECORDED

1. Right evidenced by:

a. Decree No. _____ Decreed to _____ (Name)

In case of _____ vs _____

dated in _____ In _____ county of _____
(Name of court)

b. License No. _____ issued by the Idaho Department of Water Resources

c. Claim No. 43-411 on file with the Idaho Department of Water Resources

2. If applicant is not the original holder of this right, explain how it was acquired and attach a copy of the deed or other evidence of ownership of the land to which the right is appurtenant _____

Applicant is the claimant named on the above claim3. Source of water groundwater tributary to _____4. Date of priority Aug. 1, 1958

5. Water is used for the following purposes:

amount 1.60 for irrig purposes from Apr 1 to Nov 1

amount _____ for _____ purposes from _____ to _____

amount _____ for _____ purposes from _____ to _____
(month/day — both dates inclusive)6. Total amount of water under right: a. 1.60 cubic feet per second
&/or

b. _____ acre feet per annum

7. Location of original point of diversion is SE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 32Township 14S Range 27E, B.M., in Cassia County

Additional points of diversion, if any _____

8. Lands irrigated or place of use:

TWP.	RANGE	SEC.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				TOTALS
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
14S	27E	29			40											40			80

Total number of acres to be irrigated 80

9. Describe any other water rights used for the same purpose as described above _____

No other groundwater rights10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of nonuse? no If yes, describe in item D, REMARKS

DESCRIPTION OF PORTION OF RIGHT OWNED BY APPLICANT If the entire right is owned by the applicant, omit part C.

1. Amount of water: a. _____ cubic feet per second &/or
b. _____ acre feet per annum
- ✓ Point of diversion _____ ¼ _____ ¼, Section _____ Township _____
Range _____, B.M., _____ County
Additional points _____
3. Place of use:

TWP.	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

Total number of acres to be irrigated _____

C. DESCRIPTION OF RIGHT OR PORTION THEREOF, AFTER THE REQUESTED CHANGE

1. General Information

- a. Amount of water to be diverted 1.60 c.f.s. &/or _____ acre feet
- b. Description of diverting works well & pump
- c. Describe the reasons for the proposed changes To add a point of diversion

2. Change in point of diversion

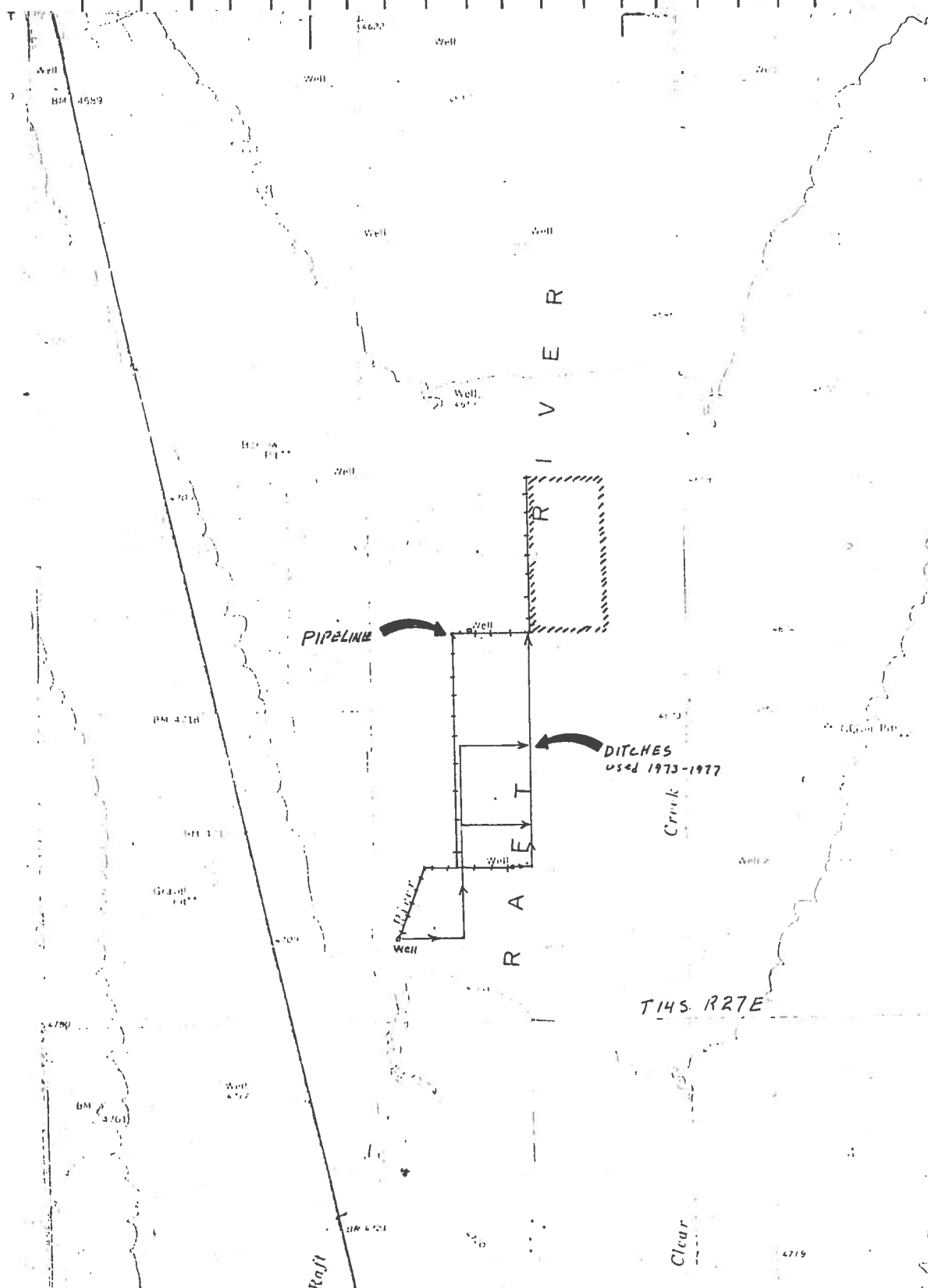
Point of diversion SE ¼ NW ¼, Section 32 Township 14S
Range 27E, B.M., Cassia County
Additional points NW¼SW¼, Sec. 32, T14S, R27E

3. Change in place of use NO CHANGE

- a. Are there liens, mortgages, or contracts on the lands from which you propose to transfer the water right which limit your authority to make the proposed change? Yes _____ No _____. If yes, provide a statement agreeing to the proposed change from the holder of the lien, mortgage or contract.
- b. Describe the affect on the land now irrigated if the place of use is changed pursuant to this transfer

c. Describe the land or place of use to which the right be transferred:

TWP.	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	



REMARKS These wells also irrigate lands under Licenses 43-2395 and 43-2416.

In 1973, Applicant purchased the land under 43-2395 and co-mingled the water from the two wells in ditches as shown on the map. In 1977 the system was changed to a pipeline.

I hereby assert that no one will be injured by such change and that the change does not constitute an enlargement in use of the original right. The information contained in this application is true to the best of my knowledge.

I understand that any willfull misrepresentations made in this application may result in voiding its approval.

Jodee Willett
(Signature of Applicant)

Subscribed and sworn to before me this 18 day of September, 19 81

Loren O. Halman
(Notary Public)

My commission expires life

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Transfer of Water Rights No. 43-4111 and said application is hereby Approved, subject to the following limitations and conditions:

1. Approval of this transfer does not confirm the right claimed.

Witness my hand this 6th day of October, 19 82

D. Glen Sayton
Chief, Operations Bureau

FOR DEPARTMENT USE ONLY

Received by <u>LH</u>	Date <u>9/18/81</u>	Protest filed by <u>None</u>
Prelim. check by <u>ADM</u>	Fee <u>50.00</u> # <u>18766</u>	
Receipted by <u>maep</u>	Date <u>9/18/81</u>	
Published in <u>South Idaho Press</u>		Copies of protest forwarded by _____
Pub. dates <u>10/1 10/8/81</u>		Hearing held by _____ Date _____
Watermaster recommendation requested on <u>N/A</u>		Recommended for <u>approval</u> denial
_____ rec'd. _____		by <u>ADM gwr DET</u>

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region

1041 Blue Lakes Blvd. N.
Twin Falls, Idaho 83301
(208) 734-3578

OCTOBER 10, 1981

November 17, 1981

JODEE WILLETT
MALTA

ID 83342

RE: Claim No. 43-4111

Dear Claimant:

The Department of Water Resources has completed the advertising of your claim to a water right, and no further action is authorized under Section 42-243 and 42-244, IDAHO CODE. Your claim will be retained in our files and will be available at any time for use by you or the court.

The filing and advertising of the claim does not confirm the water right claimed, but will serve to record and preserve the information and the evidence which you included in your claim.

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

We are enclosing a copy of your claim for your records. If you have questions, or if this office may be of further assistance, please feel free to contact us.

Yours truly,


LOREN O. HOLMES
Southern Region Supervisor

Enclosure

December 6, 1999

No A4304111
Po WILLETT OLETA
14S27E32SENW
Cl

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.

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1) Rate of Flow measurements: 681 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.

Measured 5-6-87 inspected # RRE 036 By Robin Wells
measurement device was Collins Flow Meter. Discharge pressure 52 PSI
Energy efficiency - 67-8%

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.

Pump manufacturer - GE 40 HP rated flow - 500 Head - 250
installation approximately 1987
1994 installed GE 100 HP Pump model # 10JKXH

December 6, 1999

RECEIVED

JAN 20 2000

Department of Water Resources

Data Submission for Estimating Well Pumping Capacity

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1) Rate of Flow measurements: 681 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.

Measured 5-6-87 inspected # RRE 034 by Robin Wells
measurement device was Collins Flow Meter. Discharge pressure 52 PSI
Energy efficiency - 67-8%

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.

Pump Manufacturer - GE
70 HP rated flow - 560 Head - 250
installation approximately 1987
1994 installed GE 100 HP Pump model # 1G1KXH