

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-13671

Exam Date: 5/2001

1. Current Owner: BEVAN JEPPESEN
1282 S SECOND E
REXBURG ID 83440
(208)356-9079

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

BEVAN JEPPESEN

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:

2. Other water rights with the same point of diversion:

22-7683 GW

22-7683

Woodmansee Johnson Canal
(22-765E, 22-4195, 22-13479)**C. DIVERSION AND DELIVERY SYSTEM**

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SW1/4NW1/4

Sec. 29, Twp 05N, Rge 41E, B.M.

MADISON County

Method of Determination:

FE/GIS

2.

PLACE OF USE:

IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N 41E 20									39.0	40.0			38.0	27.0	40.0	40.0	224.0
05N 41E 21									8.4	20.0							28.4
05N 41E 28						9.5			11.0	17.0							37.5
05N 41E 29	40.0	40.0	40.0	40.0	40.0	39.0	38.0	40.0	40.0	38.0	33.0	39.0	40.0	40.0	39.0	39.0	625.0

Total Acres: 914.9

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
WELL	GE	600 hp		Johnston	
Booster	Marathon	200 hp		Aurora	

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

SONIC METER 6.16 cfs

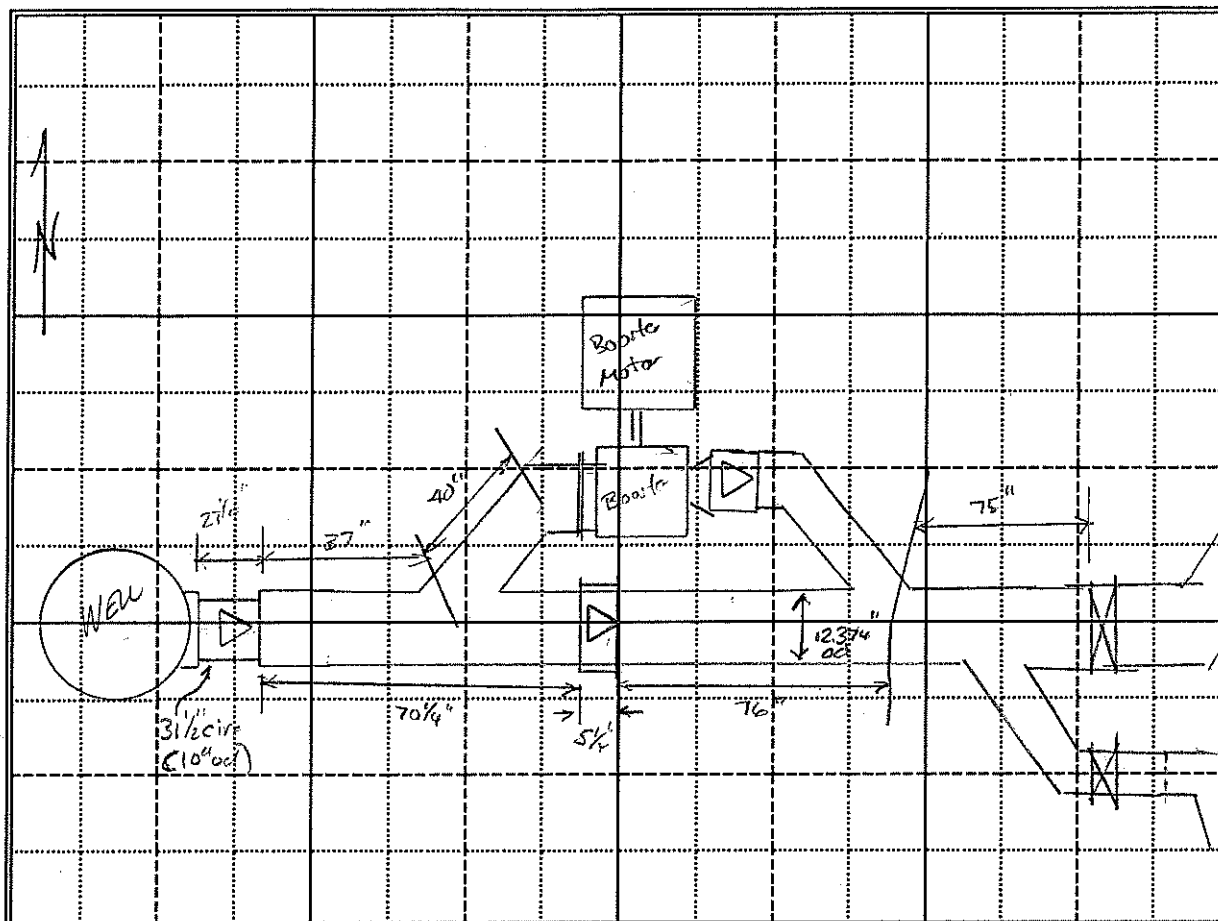
E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

SONIC METER 6.16 cfs

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

____ Copy of USGS 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)

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well	GE	600	BCJ222018	Johnston	CLASS 50 12"
Booster	Marathon	200	09164598-10/25/09	Aurora	93-14647

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Ultrasonic 7/14/1995	Sonic	Polysonic	ISTP			
Ultrasonic 5/16/2001	Sonic	Fuji	FLC-S1011	71K00891TB S/N 240333	—	

2. Measurements: $35\frac{7}{8}$ circ = 12.374" o.d. 0.103" thickness

Pressure between Booster & Pump = 0 psi 10.03" o.d. (31.5" circ) 0.101" thickness
Pressure down stream of Booster 116 psi 7.804" span

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

this was a portion of permit 22-7528 which was originally issue for another system. at the time of the field exam for 22-7683 and 22-7528, more acres were developed under 22-7683 than what was permitted and less acres were developed under 22-7528 than what was permitted. a split of 22-7528 was created with part of this permit transfered into the system under 22-7683. a licensing amendment will be required to complete this change. only 0.82 CFS is available from permit 22-7528 to be moved into this system with 22-7683. 22-7683 was permitted for 5.0 CFS.

this system is a well/pump to pivots and handlines GE 600 HP motor/johnston pump - 200HP marathon/aurora booster. sonic meter measurement 5/2001- 6.16 cfs with pivots running.

0.82 cfs X 1.9835 X 214 days= 348 AF/a

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	0.820 CFS	348.00 AF
<u>Totals:</u>		0.820 CFS	348.00 AF

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

I. AUTHENTICATION

Field Examiner's Name

Keith Wilson

Date

5/2001

Reviewer

DAVE CARLSON

Date

2/2007

LOG NAME: JEPPESEN **22-07683**
START: 05-16-2001 09:35
END: 05-16-2001 09:40
INTERVAL:00:01:00

05-16-2001 09:35:00
+3.819E+0 ft/s
+6.153E+2 gal/m
+1.371E+0 ft3/s
+TOTAL 0000000 gal
-TOTAL 0000000 gal
ABNORMAL

05-16-2001 09:36:00
+5.455E+0 ft/s
+8.545E+2 gal/m
+1.958E+0 ft3/s
+TOTAL 0000266 gal
-TOTAL 0000000 gal
ABNORMAL

05-16-2001 09:37:00
+4.411E+0 ft/s
+6.910E+2 gal/m
+1.539E+0 ft3/s
+TOTAL 0000953 gal
-TOTAL 0000000 gal
NORMAL

05-16-2001 09:38:00
+4.466E+0 ft/s
+6.997E+2 gal/m
+1.559E+0 ft3/s
+TOTAL 0001671 gal
-TOTAL 0000000 gal
NORMAL

05-16-2001 09:39:00
+4.383E+0 ft/s
+6.867E+2 gal/m
+1.531E+0 ft3/s
+TOTAL 0002375 gal
-TOTAL 0000000 gal
NORMAL

05-16-2001 09:40:00
+6.029E+0 ft/s
+6.912E+2 gal/m
+1.540E+0 ft3/s
+TOTAL 0003026 gal
-TOTAL 0000000 gal
NORMAL

AVERAGE DIVERSION (For 3 min)
(09:37:00 to 09:40:00)
Q = 691.0 gpm

MAXIMUM RECORDED FLOW RATE =
 $Q_{\text{gpm}} = \underline{699.7 \text{ gpm}}$
 $Q_{\text{cfs}} = \underline{1.56 \text{ cfs}}$

North Pivot #1

Use average flow for all Pivots
 $Q = (4)(691 \text{ gpm}) = 2764 \text{ gpm} =$
 $Q = 6.158 \text{ cfs} = 6.16 \text{ cfs}$

22-07683
22-13671

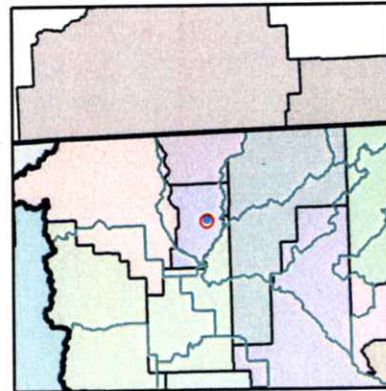


Idaho Department of Water Resources

Water Right:
22-7683
 (Irrigation)
 22-13671

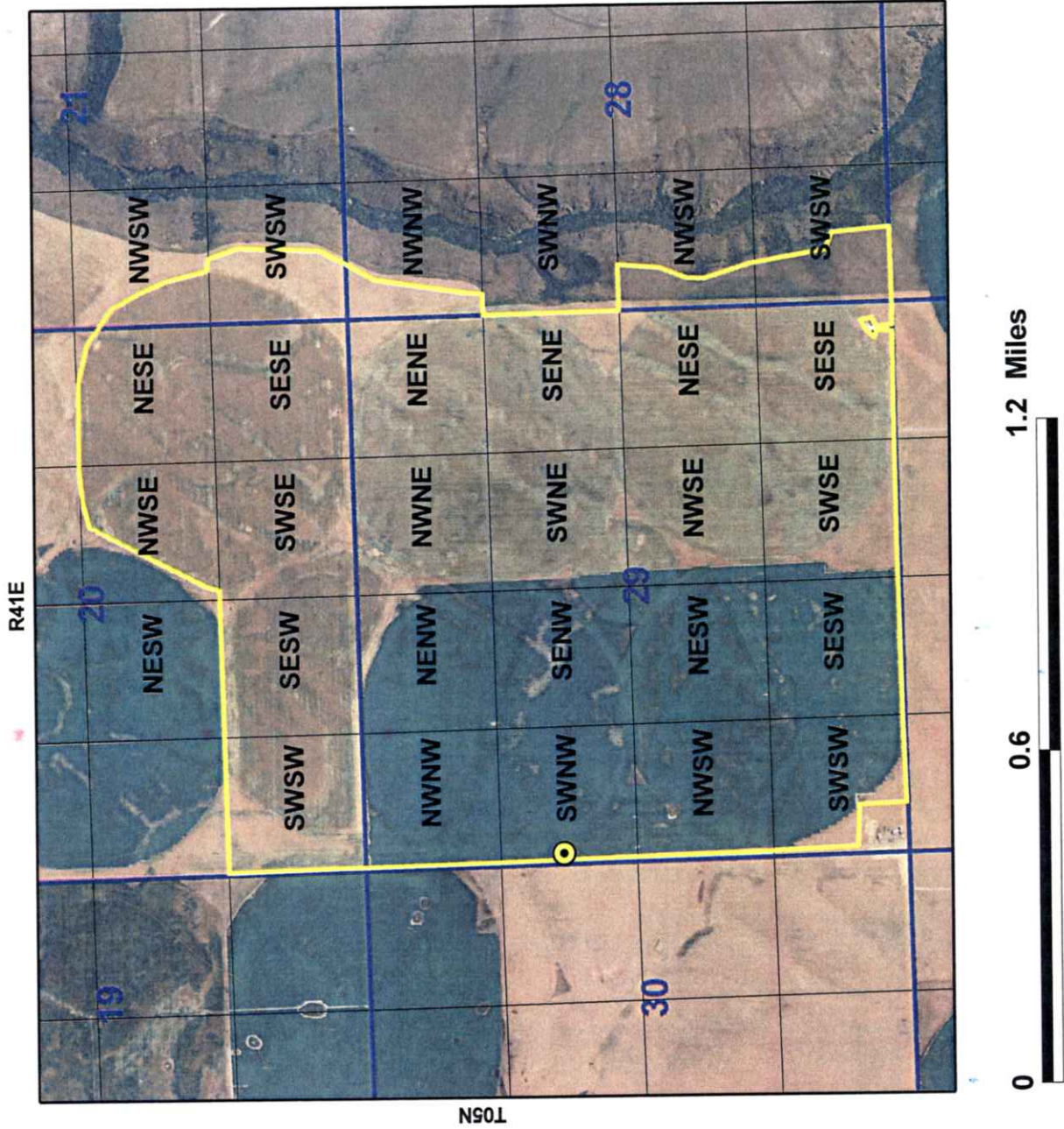
Legend

- Point of Diversion
- Place of Use
- Townships
- PLS Sections
- Quarter Quarters



Madison County
 IDWR Basin 22

Prepared by D. Carlson
 On Thursday, February 1, 2007
 2004 Aerial Photography



Point of Diversion



22-7683
22-13671