

STATE OF IDAHO  
WATER DISTRICT 130  
WATER MEASUREMENT ANNUAL REPORT

**REPORTING YEAR 2008**

RECEIVED  
FEB 18 2009  
DEPT. OF WATER RESOURCES  
SOUTHERN REGION

**POWER CONSUMPTION METHOD OF ESTIMATING DIVERSIONS**

ATTENTION: Year end data must be submitted to Water District 130, 1341 Fillmore St. Ste 200, Twin Falls ID 83301, on or before **January 31, 2009.**

Reporter Name:	ANGIE JONES	
	06S 13E 35 SWNW	
Legal Description:	T AWALT IRRIGATION PUMP	
	410106	2 1/4 1/4
Site Tag No:		
Diversion Name:		

**SECTION I Water Right Holder/Operator information**

(If there are multiple water right holders on a common ditch or conveyance system, please designate the contact person below)

**Current Water Right Owner**

Please check for address correction ☐

Name Awalt Christy L

Phone 208-733-0404

Last, First, MI  
Address PO. Box 392

Fax \_\_\_\_\_

City San Miguel

Mobile \_\_\_\_\_

State & Zip CA, 93451

e-mail \_\_\_\_\_

**Operator or Contact Person (if different from owner)**

Name Jones Angie R

Phone 208-934-5831

Last, First, MI  
Address 1828 E 1700 S

Fax \_\_\_\_\_

City Gooding

Mobile 208-280-0308

State & Zip ID 83330

e-mail Jonesa@q.com

**SECTION II Water Use Information**

Crop	Acres
<u>Alfa grass</u>	<u>137.9</u>
<u>pasture</u>	
Total acres	<u>137.9</u>

**Non-Irrigation Use(s)**

Number of idled acres \_\_\_\_\_

4/13/09

**SECTION III Utility Information (REQUIRED INFORMATION)**

Electric Utility Idaho Power Power Pole No. 06513E34-20

Customer ACCOUNT NO. 1715827499

SERVICE LOCATION NO. (10 digits) 4304221749

Electric meter Serial No. 03782135 (Beginning of season)

Electric meter Serial No. \_\_\_\_\_ (End of season, if different)

Electric Meter Manufacturer \_\_\_\_\_

**SECTION IV Modifications made during reporting year and other comments**

Please describe in the space below any major modifications made to the diversion works or piping system during the past reporting year.

This year there was a pipeline that will allow  
Aurust property & Cliff Jensen property gravity  
irrigation put in.

**SECTION V Certification**

I hereby certify that the above reported information is correct to the best of my knowledge and that I recognize that willful submittal of false or inaccurate data is a violation of law subject to the penalty provisions of Sections 42-311, 42-350 and 42-351, Idaho Code.

Angela Jones  
Signature

Reporting  
Title

2/14/09  
Date

**For Department Use Only**

Reviewed by \_\_\_\_\_

Date \_\_\_\_\_

Data entry by \_\_\_\_\_

Date \_\_\_\_\_

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
Water Measurement Program

**POWER CONSUMPTION COEFFICIENT WORKSHEET**District \* 130 Inventory Date \* \_\_\_\_\_ Inventory Examiner \* \_\_\_\_\_ PCC ok? \*Yes / noDate of test \* 5/15/08 Person performing test \* CY/MR Exam complete? \* Yes / no

Name:	<u>Christy Awalet</u>
Water Right No:	_____
Legal Description:	T _____ R _____ Sec. _____ 1/4 _____ 1/4 _____ 1/4 _____
Site Tag No:	<u>40011807</u>
Diversion Name:	<u>Irrigation Pump</u>

**Current Owner**Name \_\_\_\_\_ Phone \_\_\_\_\_  
Last, First, MI

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**Operator** (if leased or operated by someone else)Name \_\_\_\_\_ Phone \_\_\_\_\_  
Last, First, MI**SECTION I WELL SITE IDENTIFICATION**

Global Positioning System Data:

Data Collection Filename \* \_\_\_\_\_ Offset \* \_\_\_\_\_

IDWR Site Tag Identification No. \* \_\_\_\_\_

Site Tag location description: \* \_\_\_\_\_

PLS/USGS Locator \_\_\_\_\_

Diversion Name \* \_\_\_\_\_

**For Department/District Use Only**

Received by \_\_\_\_\_ Date \_\_\_\_\_

Reviewed by \_\_\_\_\_ Date \_\_\_\_\_

Data Entry by \_\_\_\_\_ Date \_\_\_\_\_

### Well Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer		Manufacturer	Baldor
Serial Number		Serial Number	0000308
Model Number		Rated Horsepower	56
Type		Rated Amps	
Impeller Diameter		Rated Volts	
Rated Speed		Rated Speed	
Rated Discharge		Phase	
Rated Head		Service Factor	

### Booster Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer		Manufacturer	
Serial Number		Serial Number	
Model Number		Rated Horsepower	*
Type		Rated Amps	
Impeller Diameter		Rated Volts	
Rated Speed		Rated Speed	
Rated Discharge		Phase	
Rated Head		Service Factor	

### Power and Water Metering Information

KILOWATT-HOUR METER		WATER MEASUREMENT EQUIPMENT and PIPE INFORMATION	
Utility	* IPCO	Std Meter Manufacturer	Fuji
Pole No.	* 16S13E3420	Std Meter Model No.	
Meter Manufacturer	* ABB	Std Meter Type	* Sonic Pyg Collins Hall Anub Dye/chem Other
Meter Serial No.	* 03782135	Std. Meter Confidence	* Excl 2% Good 5% Fair 10% Poor >10%
Disc Constant(Kh)	* 21.6	PSI gauge ID location = disch head?	* District / Owner * Yes / No
Rated Voltage	480	Pipe material	Steel
Demand	44.06	Pipe Outside Diameter	8.63
Multiplier (Mult)	*	Pipe <sup>Thickness</sup> Inside Diameter	.323
CTR (Current) PTR (Voltage)		Distance of straight pipe upstream and down	Upstream /Down

Sound = 4835  
6.681 FLD12

crop	acres
pasture	~135
2	
3	
4	
total	

## Determination of Power Consumption Coefficient

### Kilowatts of Energy Consumed

$$KW = 3.6 \times Kh \times \text{Multiplier} \times \text{No. of revolutions}(N) \div \text{Time}(T) \text{ in seconds per } N$$

Cond.#1 N = 15 (No. of Disc Rev) Time (sec) = (27.50) + (27.13) + (27.3) / 3 = 27.48 Ave

$$3.6 \times \underline{21.6} (Kh) \times \underline{\quad} (Mult) \times \underline{15} (N) \div \underline{27.48} (T) = * \underline{42.44} KW$$

Cond.#2 N =        (No. of Disc Rev) Time (sec) = (      ) + (      ) + (      ) / 3 =        Ave

$$3.6 \times \underline{\quad} (Kh) \times \underline{\quad} (Mult) \times \underline{\quad} (N) \div \underline{\quad} (T) = * \underline{\quad} KW$$

Cond.#3 N =        (No. of Disc Rev) Time (sec) = (      ) + (      ) + (      ) / 3 =        Ave

$$3.6 \times \underline{\quad} (Kh) \times \underline{\quad} (Mult) \times \underline{\quad} (N) \div \underline{\quad} (T) = * \underline{\quad} KW$$

HP / 1.34  
= demand

**Measured Flow Rate and Discharge Pressure** - Enter flow rate as determined by the "standard" water measurement meter in GPM, and discharge pressure measured in PSI. Attach documentation to support data such as notes, printout tapes etc.

GPM Cond. #1\* 962.4 #2\*        #3\*       

PSI Cond. #1\* 50 #2\*        #3\*       

### Power Consumption Coefficient (PCC) = KW × 5431 ÷ GPM

$$PCC \text{ Cond. \#1} = * \underline{42.44} (KW) \times 5431 \div * \underline{962.4} (gpm) = \underline{239.5} (kWh/ac.ft)$$

Percent of seasonal use \* ? Description \* Wheel line, 5 asst lines, 2 cannons (incl horse pasture)

$$PCC \text{ Cond. \#2} = * \underline{\quad} (KW) \times 5431 \div * \underline{\quad} (gpm) = \underline{\quad} (kWh/ac.ft)$$

Percent of seasonal use \*        Description \*       

$$PCC \text{ Cond. \#3} = * \underline{\quad} (KW) \times 5431 \div * \underline{\quad} (gpm) = \underline{\quad} (kWh/ac.ft)$$

Percent of seasonal use \*        Description \*       

Is the system operator required to track and report changes in system operation? \*Yes / No  
(see form PCC3)

System Type (all that apply): \*Pivot, linear / Wheel In / Hand In / Gated pipe, flood / Drip / Open dsch

### Water Level Data

Does the well have access to measure water levels? \*Yes / No

Is this well part of USGS, DWR, or another network of water level monitoring wells? \*Yes / No / Uncertain

Static Water Level \*        ft Pumping Water Level \*        ft (at condition #       )

Date \*        Date \*



Further describe system operating conditions (if necessary) and how percentage of seasonal use was obtained:

System has multiple conditions, need more measurements to confirm if consistent enough for PEC. Operator tries to run about same amount of sprinklers, but lines are of

Sketch of pumping plant layout or attach photograph of pumping plant and piping:

variable lengths/types. For now assume high flow/low PEC.

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature \_\_\_\_\_ Date \_\_\_\_\_  
(person performing measurements)

LOG NAME:A0017807  
START :05-15 09:55  
END :05-15 10:05  
INTERVAL:00:01:00

5/15/2008 9:55

+6.199E+0 ft/s  
+9.673E+2 gal/m  
+TOTAL 0000000 gal  
NORMAL

5/15/2008 10:03

+6.149E+0 ft/s  
+9.596E+2 gal/m  
+TOTAL 0007654 gal  
NORMAL

5/15/2008 9:56

+5.894E+0 ft/s  
+9.198E+2 gal/m  
+TOTAL 0000929 gal  
NORMAL

5/15/2008 10:04

+6.265E+0 ft/s  
+9.776E+2 gal/m  
+TOTAL 0008624 gal  
NORMAL

5/15/2008 9:57

+6.291E+0 ft/s  
+9.817E+2 gal/m  
+TOTAL 0001893 gal  
NORMAL

5/15/2008 10:05

+6.151E+0 ft/s  
+9.599E+2 gal/m  
+TOTAL 0009592 gal  
NORMAL

5/15/2008 9:58

+6.431E+0 ft/s  
+1.003E+3 gal/m  
+TOTAL 0002847 gal  
NORMAL

5/15/2008 9:59

+6.070E+0 ft/s  
+9.472E+2 gal/m  
+TOTAL 0003805 gal  
NORMAL

5/15/2008 10:00

+6.125E+0 ft/s  
+9.558E+2 gal/m  
+TOTAL 0004764 gal  
NORMAL

5/15/2008 10:01

+5.955E+0 ft/s  
+9.293E+2 gal/m  
+TOTAL 0005729 gal  
NORMAL

5/15/2008 10:02

+6.186E+0 ft/s  
+9.653E+2 gal/m  
+TOTAL 0006684 gal  
NORMAL