# IDAHO DEPARTMENT OF WATER RESOURCES Water Measurement Program

#### POWER CONSUMPTION COEFFICIENT WORKSHEET

(Revised 7/2002)

District \(\)		
Diversion Name	Cent -	Larocco Pumpi
Inventory Date		Test Date
Inventory Examiner		Person performing test <u>C. Knowles</u> c
PCC o.k.? □	Yes □ No	Exam complete? □ Yes □ No
N Water Righ Legal Descri Site Tag Diversion N	t No.:  ption: T g No.:  [amo:	R
Current Owner Name	letch.	
Address		
City	_St Zip _	E-mail
Operator (if leased of	or operated by p	erson other than owner)
Name		Phone
Address		
City		
Global Positioning	System Data:	
Data Collection F	ilename	Offset
IDWR Site Tag Id	lentification No.	
Site Tag Location	n description:	
PLS/USGS LOCATO	)R	
For Department/District U	Jse Only	
Received by	•	Date
Reviewed by		Date
Data Entry By		Date

### Well Pump and Motor Information

Pum	p Data	Moto	or Data
Manufacturer	Vertiline.	Manufacturer	Netoman Ventine
Serial Number	027107	Serial Number	X 19196493
Model Number	14RL	Rated Horsepower	75
Туре		Rated Amps	87
Impeller Diameter		Rated Volts	440.
Rated Speed	170	Rated Speed	1789
Rated Discharge	DEDO GPM	Phase	3
Rated Head		Service Factor	1.15.

## **Booster Pump and Motor Information**

Pump Data	Motor Data	
Manufacturer	Manufacturer	
Serial Number	Serial Number	
Model Number	Rated Horsepower	
Туре	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		ment Equipment nformation
Utility	Pacificap	Std. Meter Manufacturer	Panametric
Pole Number	026901	Std. Meter Model No.	
Meter Manufacturer	GE KV2C	Std. Meter Type (circle one)	Sonic Pyg Collins Hall Anub Dye/chem. Other
Meter Serial No.	28742097	Std. Meter Confidence (circle one)	Excl Good Fair Poor 2% 5% 10% >10%
Disc Constant (Kh)	21.6	PSI gauge ID location ≅ discharge head	District / Owner Yes / No
Rated Voltage	480V	Pipe Material	Steel.
Demand	78.127	Pipe Outside Diameter	10.0
Multiplier (Mult)	1	Pipe Inside Diameter	
CTR (Current) PTR (Voltage)		Distance of straight pipe upstream and down	Upstream Downstream

N:\Admin\Forms\DWR Forms\CURRENT FORMS\PCC Worksheet.doc

.095 pipe Thirkness

Kilowatts of Energy Consumed	
KW = $3.6 \times \text{Kh} \times \text{Multiplier} \times \text{No. of revolutions (N)} \div \text{Time (T) in seconds per seconds}$	er N
Cond.#1 N = $30$ (No. of Disc Rev) Time (sec) = $(31.68) + (31.13) + (31.17)/3 = 31.33$ $3.6 \times 21.6$ (Kh) × (Mult) × $30$ (N) ÷ $31.33$ (T) = * $14.47$ KW BHP <	
Cond.#2 N = (No. of Disc Rev) Time (sec) = ()+()+()/3 = 3.6 × (Kh) × (Mult) × (N) ÷ (T) = *KW	Ave
Cond.#3 N =(No. of Disc Rev) Time (sec) = ()+()+()/3 =	Ave

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\* 1794 #2\* 819 (6/13/67)#3\* #3\* #3\*

 $3.6 \times$ \_\_\_\_ (Kh)  $\times$ \_\_\_ (Mult)  $\times$ \_\_\_ (N)  $\div$ \_\_\_ (T) = \*\_\_\_ KW

Power Consumption Co	efficient (PCC) = KW × 5	5431 ÷GPM	
PCC Cond #1 = * <u>74</u> .0	<u>17</u> (KW) × 5431 ÷ * <u>17</u>	<u>94 (gpm) = 225</u>	<u>7, 43</u> (kWh/ac.ft)
Percent of seasons	al use * Description	*	
PCC Cond #2 = *	(KW) × 5431 ÷ *	(gpm) =	(kWh/ac.ft)
Percent of seasons	al use * Description	*	
PCC Cond #3 = *	(KW) × 5431 ÷ *	(gpm) =	(kWh/ac.ft)
Percent of seasons	al use * Description	*	
Is the system operator required to	track and report changes in syste	em operation? ~ Yes ~	~ No (check one)
System Type (circle all that apr	olv). Pivot linear / Wheel In / Har	nd In / Gated pipe_flood	/ Drin / Open Discharge

	Crop Type	Number of Acres
1		
2		
3		
4		
	Total Acres =	

		WATER LEVEL DATA	
Does the well have access to	measure w	rater levels? ~ Yes ~ No (	check one)
Is this well part of USGS, IDV	VR, or anoth	ner <u>network</u> of water level monito	ring wells? ~ Yes ~ No ~ Uncertain
Static Water Level	ft	Pumping Water Level Date	ft at condition #)

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	whent and winings
tetch of pumping plan layout or photograph of pumping	plant and piping:
otes – Comments – Calculations:	
lotes – Comments – Calculations:	
lotes – Comments – Calculations:	
Notes – Comments – Calculations:  certify that the above information is true and correct to the be measurements taken and recorded are in accordance with the equipment used.	st of my knowledge and ability and the standards and specifications of the
certify that the above information is true and correct to the be neasurements taken and recorded are in accordance with the	standards and specifications of the