# IDAHO DEPARTMENT OF WATER RESOURCES Water Measurement Program

## POWER CONSUMPTION COEFFICIENT WORKSHEET

(Revised 6/2006)

District ODI		
Diversion Name	Paul	Keetch - Canal Pump.
Inventory Date 6/13/1		Test Date
Inventory Examiner		Person performing test <u>C.Vnowles</u>
PCC o.k.? □ Yes □	No	Exam complete? ☐ Yes ☐ No
Water Right No.:	R S	Sec
•		Phone 847-0128
Address		Cell
CitySt	_ Zip	E-mail
Operator (if leased or operate	ed by person oth	er than owner)
Name		Phone
Address		Cell
CitySt	_ Zip	E-mail
IDWR Site Tag Identification Site Tag Location descript	Noion:	Offset
For Department/District Use Only Received by Reviewed by Data Entry By	Date	

Well Pump and Motor Information

60(1.15) = 66 hp. purper purp S.F = 1.15 (Service Factor)

Pump Data		Motor Data	
Manufacturer	Warathon.	Manufacturer	
Serial Number		Serial Number	
Model Number		Rated Horsepower	
Туре	60 ho	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
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		Water Measurement Equipment and Pipe Information		
Utility	Pacificon	Std. Meter Manufacturer		
Pole Number	264800	Std. Meter Model No.		
Meter Manufacturer	GE	Std. Meter Type (circle one)	Sonic Pyg Collins Hall Anub Dye/chem. Other	
Meter Serial No.	21464351	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	480 V	Pipe Material	Steem	
Demand	49.603.	Pipe Outside Diameter	(0.0	
Multiplier (Mult)	L. Arganisa	Pipe Inside Diameter	53/4.	
CTR (Current) PTR (Voltage)		Distance of straight pipe upstream and down	Upstream Downstream	

### Kilowatts of Energy Consumed

Service Factor- SF = 1.15

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

Cond.#1 N =  $\sqrt{8}$  (No. of Disc Rev) Time (sec) = (35.5) + (36.13) + (35.5) / (35. $3.6 \times 21.6 \text{ (Kh)} \times 1 \text{ (Mult)} \times 1 \text{ (N)} + 35.76 \text{ (T)} = * 39.14 \text{ KW}$ 

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

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

Cond.#3 N = \_\_\_\_\_(No. of Disc Rev) Time (sec) = (\_\_\_\_)+(\_\_\_)+(\_\_\_)/3 = Ave  $3.6 \times$ \_\_\_\_\_ (Kh)  $\times$ \_\_\_\_ (Mult)  $\times$ \_\_\_\_ (N)  $\div$ \_\_\_\_ (T) = \*\_\_\_ KW

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.

#1\* 794 98 #2\* \_\_\_\_\_ #3\* \_\_\_\_ #3\* \_\_\_\_ Preston Wind GPM Cond.

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

# Power Consumption Coefficient (PCC) = $KW \times 5431 \div GPM$

**PCC Cond #1** = \* 39.14 (KW) × 5431 ÷ \* 39.4 (gpm) = 36.7.72 (kWh/ac.ft)

### Qualifier Condition 1: 1 2 3 4 5 6 7 8 9 Other

Percent of seasonal use \* Description \*

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

### Qualifier Condition 2: 1 2 3 4 5 6 7 8 9 Other

Percent of seasonal use \* \_\_\_\_ Description \* \_\_\_\_\_

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

#### Qualifier Condition 3: 1 2 3 4 5 6 7 8 9 Other

Percent of seasonal use \* Description \*

Is the system operator required to track and report changes in system operation? ~ Yes > No (check one) 1330 ft = 1/4 mi. System Type (circle all that apply): Pivot, linear / Wheel In / Hand In / Gated pipe, flood / Drip / Open Discharge

	Crop Type	Number of Acres	
1	Sarar allalla	48	
2	V		
3			
4			
	Total Acres =		

		WATER LEVEL D		
Does the well have access to	o measure w	ater levels? ~	Yes ~ No (c	
s this well part of USGS, ID	WR, or anoth	er <u>network</u> of wate	r level monitor	ing wells? ~ Yes ~ No ~ Uncertain
Static Water Level Date	ft		Level Date	ft at condition #
		nditions (if neces		v percentage of seasonal use
Sketch of pumping plan la	yout or pho	tograph of pumpi	ng plant and	piping:
lotes – Comments – Calc	. latia na r			
iotes – Comments – Calc	uiauons			
		MANAGAMA MA		MAX. 2012
certify that the above information income information and respectively.				owledge and ability and the and specifications of the
Signature				Date
		measurements)	***************************************	-

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#### **PCC Qualifiers**

- 1- Simple System with one operating condition, current valid PCC
- 2- Multiple operating conditions, all PCC measured and within 10%
- 3- Multiple Operating conditions, PCC's differ > 10%, tracking required
- 4- Multiple Operating Conditions PCC's differ > 10% tracking not reported use Low PCC
- 5- Multiple Operating Conditions not all PCC's avaible but could be
- 6- Known problems with Reported KwH data
- 7- Measured PCC during flow meter Calibration
- 8- Complex system where time clock or flowmeter may be more accurate
- 9- PCC estimated, not actually determined by measurement
- 10- N- No PCC Measurements made
- 11- Q- Other qualifying conditions see PCC comments for explanation
- 12- Z- Zero Pumpage

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