IDAHO DEPARTMENT OF WATER RESOURCES Water Measurement Program

POWER CONSUMPTION COEFFICIENT WORKSHEET

(Revised 6/2006)

District wp 11 00	
District wp 11 6 Diversion Name	y Pump
Inventory Date	
Inventory Examiner	Person performing test C. Bod R. Halbook
PCC o.k.? ✓ Yes □ No	Exam complete? ☐ Yes ☐ No
Water Right No.: Legal Description: т Site Tag No.:	R Sec
Current Owner	Phono
NameAddress	
City St Z	
Operator (if leased or operated by	
Name	· ·
Address	
CitySt Z	
Global Positioning System Data	a:
Data Collection Filename	Offset
IDWR Site Tag Identification N	Vo
Site Tag Location description:	
PLS/USGS LOCATOR	
For Department/District Use Only	
Received by	
Reviewed by	
Data Entry By	_ Date

Well 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	

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	Zaku wan	Std. Meter Manufacturer	PARALLER		
Pole Number	319001	Std. Meter Model No.	75 8 W.		
Meter Manufacturer	486	Std. Meter Type (circle one)	Sonic Pyg Collins Hall Anub Dye/chem. Other		
Meter Serial No.	5 847 495	Std. Meter Confidence (circle one)	Exc) Good Fair Poor 2% 5% 10% >10%		
Disc Constant (Kh)	14.4	PSI gauge ID location ≅ discharge head	District / Owner Yes / No		
Rated Voltage	480	Pipe Material	C S		
Demand	23,04	Pipe Outside Diameter	¥ C		
Multiplier (Mult)	a populario de la constanta de	Pipe Inside Diameter	. 131" Vait		
CTR (Current) PTR (Voltage)	NIX	Distance of straight pipe upstream and down	Upstream Downstream		

Kilowatts	of	Energy	<u>Consumed</u>

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 = 12 (No. of Disc Rev) Time (sec) = (30.37) + (30.30) + (30.46)/3 = 30.38 Ave 3.6×14.46 (Kh) × _____ (Mult) × 12 (N) ÷ 30.38 (T) = *20.48 KW

Cond.#2 N = ____ (No. of Disc Rev) Time (sec) = (____)+(___)+(___)+(___)/3 = ____ Ave 3.6 × ____ (Kh) × ____ (Mult) × ____ (N) ÷ ____ (T) = *___ KW

Cond.#3 N = ____ (No. of Disc Rev) Time (sec) = (____)+(___)+(___)/3 = ____ Ave 3.6 × ____ (Kh) × ____ (Mult) × ____ (N) ÷ ____ (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.

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

PCC Cond #1 = * 20.48 (KW) × 5431 ÷ * (gpm) = 284 42 (kWh/ac.ft)

Qualifier Condition 1: 123456789 Other

Percent of seasonal use * _____ Description * _____

PCC Cond #2 = * _____(KW) × 5431 ÷ * _____(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) × 5431 ÷ * _____(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? \sim Yes \sim No (check one)

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

50 5	Crop Type	Number of Acres
1		
2		1.
3		
4		
	Total Acres =	

Does the well have access to r	Macuro :	WATER LEVEL DATA	
Joes the well have access to r	measure W	rater levels? ~ Yes ~ N	O (check one)
s this well part of USGS, IDWI	R, or anoth	her <u>network</u> of water level mo	onitoring wells? ~ Yes ~ No ~ Uncertain
Static Water Level Date			ft at condition #
		onditions (if necessary) and	I how percentage of seasonal use
ketch of pumping plan layo	ut or pho	otograph of pumping plant	and piping:
lotes – Comments – Calcula	itions:		

neasurements taken and recor			y knowledge and ability and the ards and specifications of the
certify that the above informat neasurements taken and recor quipment used.	rded are ir	n accordance with the standa	irds and specifications of the

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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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