



CONFIDENTIAL/PROPRIETARY INFORMATION

Ralph Heringer  
 Rec Dist 2026 Webb Tract  
 P O Box 4005  
 Stockton, CA 95204

Monday, November 30, 2020

SUBJECT: PUMPING COST ANALYSIS  
 HP: 60.00 Plant: Fisherman's Cut Pump  
 PUMP TEST REFERENCE NUMBER: PT-24589  
 PUMP TEST RUN: Run 1

The following Pumping Cost Analysis is presented as an aid to your cost accounting. This analysis is an estimate prepared from operating criteria supplied from the pump test performed Nov 27th 2020 and information provided by you during the pump test.

It is recommended and assumed that:

1. Overall plant efficiency can be improved to: 64%
2. Water requirements will be the same as for the past year.
3. All operating conditions (annual hours of operation, discharge head, and water pumping level) will remain the same as they were at the time of the pump test.

	EXISTING PLANT EFFICIENCY	IMPROVED PLANT EFFICIENCY	SAVINGS
kWh/AF	54	37.2	16.8
Estimated Total kWh	32,471	22,358	10,113
Average Cost per kWh	\$0.18	\$0.18	
Average Cost per hour	\$5.99	\$9.67	*
Cost Per Acre Ft.	\$9.98	\$6.87	\$3.11
Estimated Acre Ft. Per Year	600.83	600.83	
Run Hours	1,000.00	1,000.00	
Overall Plant Efficiency	44.1%	64%	
Estimated Total Annual Cost	\$5,994.78	\$4,127.79	\$1,866.99

It is sincerely hoped that this information will prove helpful to you, and that your concerns over maintaining optimum pumping efficiency will be continued.

If you have any questions, please contact Bill Power at (209) 527-2908.

Regards,

William Thomas Power, III

Enclosures

## Agricultural and Domestic Pump Test Report

### Rec Dist 2026 Webb Tract - Fisherman's Cut Pump - Run 1

 Latitude: 38.7551W  
 Test Date: Nov 27th 2020

 Longitude: -121.64619N  
 Tester:

 Elevation: 0 ft  
 Nameplate HP: 60.00 hp

<b>Customer Information</b> <b>Rec Dist 2026 Webb Tract</b>  P O Box 4005 Stockton, CA 95204  Contact: Ralph Heringer Phone: 916-777-6091	<b>Power Company Data</b>  <b>PG&amp;E</b>  Meter #: 1005773237 Rate Schedule: AG5B Average Cost: \$0.18	<b>Equipment Data</b>  Motor Make: Other Volts/Amps: 460V/74.5A Serial#: 40008912 Pump Make: No Name Plate Pump Type: Mix Flow Drive Type: Electric Motor Gearhead Make:
--	--	--

<b>Hydraulic Data</b> Standing Water Level (SWL): 0.00 ft Recovered Water Level (RWL): 0.00 ft Pumping Water Level (PWL): 14.50 ft Drawdown: 0 ft Discharge Pressure: 3.80 lb/sqft Discharge Level: 8.778 ft Total Lift: 23.278 ft Well Yield: 0 gpm/ft Water Source: Canal	<b>Flow Data</b>  Run Number: 1 of 1 Measured Flow: 3263 gpm Customer Flow: 0 gpm Flow Velocity: 3.53 ft/sec Acre Feet per 24 Hr: 14.44 Cubic Feet Per Second (CFS): 7.27 ft Discharge Pressure: 3.8 psi
--	--

<b>Power Data</b>	
Horsepower Input to Motor: 43.53 hp Brake Horsepower: 40.91 hp Kilowatt Input to Motor: 32.47 kW Energy Cost: \$5.99/hr Name Plate RPM: 1185 rpm	Percent of Rated Motor Load: 68% Kilowatt Hours per Acre Foot: 54.04 Cost to Pump an Acre Foot: \$9.98 <b>Overall Plant Efficiency: 44.07%</b> Water Horsepower: 19.18 hp Run Hours: 1000

<b>Remarks</b>
All results are based on conditions during the time of the test. If these conditions vary from the normal operation of your pump, the results shown may not describe the pump's normal performance.
Overall efficiency of this plant is considered to be very low assuming this run represents plant's normal operating condition.
This pump has an adequate test section.
This pump did not have a flow meter.
HPI measured with direct read KWI.
Based on information obtained at the time the test was performed, this test represents the pumps standard operating conditions.