

Mid Valley Pump Testing
(559) 684-7867
Pump Test Report

v.6.0 9/2014

Customer and Facility Data

Pump/Location: WATERSWORKS DISTRICT NO.42 WELL #5/ HP: 20 Utility: PG&E
GPS Coord.: Long -119.3874 Lat 36.51002 Pump Make: Floway
Motor Make: General Electric Type Turbine Meter Number: 1005434086
Customer Addr: County of Fresno Serial Number: 43059496
2220 Tulare St. Voltage: 460 Amps: 26
Fresno, CA 93721
Contact: Christopher Bump Our Test #: 042517DL3
Phone: (559) 600-4482 Fax: Cell:

Test Results

Test Date: 4/25/2017 Tester: Donny Linn

Run Number ('E' = used for cost anal): E-1

1. Pumping Water Level (ft): 79
2. Standing Water Level (ft): 68
3. Draw Down (ft): 11
4. Recovered Water Level (ft): 68
5. Discharge Pressure at Gauge (psi): 55
6. Total Lift (ft): 206
7. Flow Velocity (ft/sec): 2.8
8. Measured Flow Rate (gpm): 270
9. Customer Flow Rate (gpm): 0
10. Specific Capacity (gpm/ft draw): 24.5
11. Acre Feet per 24 Hr: 1.2
 Million Gallons per 24 Hr: 0.389
12. Cubic Feet per Second (cfs): 0.6
13. Horsepower Input to Motor: 28
14. Percent of Rated Motor Load (%): 124
15. Kilowatt Input to Motor: 21
16. Kilowatt Hours per acre-foot: 420
17. Cost to Pump an acre-foot: \$112.43
18. Energy Cost (\$/hour) \$5.59
19. Base Cost per Kwh: \$0.268
20. Nameplate rpm: 1,760
21. rpm at Gearhead: 0
22. Overall Pumping Efficiency (%): 50

If a Flow Velocity (line 7) is less than 1 ft/second, the accuracy of the test is suspect.

Note any major difference between the "Measured" flow rate and the "Customer's" (lines 8,9).

Remarks

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.

Estimated savings of 74 kWh/AF and \$1,470.03 annual energy costs from a retrofit
Current OPE of 50% and estimated potential OPE of 61%

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v.6.0 9/2014

Customer and Facility Data

Pump/Location: WATERWORKS DISTRICT NO.42 WELL#4/ HP: 30 Utility: PG&E
GPS Coord.: Long -119.386 Lat 36.50891 Pump Make: Floway
Motor Make: U.S. Type Turbine Meter Number: 1005471507
Customer Addr: County of Fresno Serial Number: V087599989-0001
2220 Tulare St. Voltage: 460 Amps: 36
Fresno, CA 93721
Contact: Christopher Bump Our Test #: 042517DL2
Phone: (559) 600-4482 Fax: Cell:

Test Results

Test Date: 4/25/2017 Tester: Donny Linn

Run Number ('E' = used for cost anal): E-1

1. Pumping Water Level (ft): 83
2. Standing Water Level (ft): 71
3. Draw Down (ft): 12
4. Recovered Water Level (ft): 71
5. Discharge Pressure at Gauge (psi): 55
6. Total Lift (ft): 210
7. Flow Velocity (ft/sec): 3.2
8. Measured Flow Rate (gpm): 305
9. Customer Flow Rate (gpm): 320
10. Specific Capacity (gpm/ft draw): 25.4
11. Acre Feet per 24 Hr: 1.3
 Million Gallons per 24 Hr: 0.439
12. Cubic Feet per Second (cfs): 0.7
13. Horsepower Input to Motor: 28
14. Percent of Rated Motor Load (%): 84
15. Kilowatt Input to Motor: 21
16. Kilowatt Hours per acre-foot: 372
17. Cost to Pump an acre-foot: \$77.12
18. Energy Cost (\$/hour) \$4.33
19. Base Cost per Kwh: \$0.208
20. Nameplate rpm: 1,755
21. rpm at Gearhead: 0
22. Overall Pumping Efficiency (%): 58

If a Flow Velocity (line 7) is less than 1 ft/second, the accuracy of the test is suspect.

Note any major difference between the "Measured" flow rate and the "Customer's" (lines 8,9).

Remarks

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.

Current OPE is close to optimum - no savings estimated for a retrofit

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Pump Test Report

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Customer and Facility Data

Pump/Location:	WATERWORKS DISTRICT NO.42 WELL#3/	HP:	20	Utility:	PG&E
GPS Coord.:	Long -119.386 Lat 36.50815	Pump Make:	Other		
Motor Make:	Hitachi	Type	Submersible Well		
Customer Addr:	County of Fresno	Meter Number:	1009847480		
	2220 Tulare St.	Serial Number:	G25811E		
	Fresno, CA 93721	Voltage:	230	Amps:	54
Contact:	Christopher Bump	Our Test #:	042517DL1		
Phone:	(559) 600-4482	Fax:			
		Cell:			

Test Results

Test Date: 4/25/2017 **Tester:** Donny Linn

Run Number ('E' = used for cost anal): E-1

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|---------------------------------------|----------|
| 1. Pumping Water Level (ft): | 88 |
| 2. Standing Water Level (ft): | 72 |
| 3. Draw Down (ft): | 16 |
| 4. Recovered Water Level (ft): | 72 |
| 5. Discharge Pressure at Gauge (psi): | 53 |
| 6. Total Lift (ft): | 210 |
| 7. Flow Velocity (ft/sec): | 3.3 |
| 8. Measured Flow Rate (gpm): | 161 |
| 9. Customer Flow Rate (gpm): | 0 |
| 10. Specific Capacity (gpm/ft draw): | 10.1 |
| 11. Acre Feet per 24 Hr: | 0.7 |
| Million Gallons per 24 Hr: | 0.232 |
| 12. Cubic Feet per Second (cfs): | 0.4 |
| 13. Horsepower Input to Motor: | 28 |
| 14. Percent of Rated Motor Load (%): | 114 |
| 15. Kilowatt Input to Motor: | 21 |
| 16. Kilowatt Hours per acre-foot: | 698 |
| 17. Cost to Pump an acre-foot: | \$186.92 |
| 18. Energy Cost (\$/hour) | \$5.54 |
| 19. Base Cost per Kwh: | \$0.268 |
| 20. Nameplate rpm: | 3,450 |
| 21. rpm at Gearhead: | 0 |
| 22. Overall Pumping Efficiency (%): | 31 |

If a Flow Velocity (line 7) is less than 1 ft/second, the accuracy of the test is suspect.

Note any major difference between the "Measured" flow rate and the "Customer's" (lines 8,9).

Remarks

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.

Estimated savings of 307 kWh/AF and \$3,652.49 annual energy costs from a retrofit
 Current OPE of 31% and estimated potential OPE of 57%