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DEPARTMENT OF
WATER RESOURCES



BROCKWAY
ENGINEERING
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Hydraulics

Hydrology

Water Resources

September 27, 2013

Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098

Re: Supplemental information for beneficial use examination
of permit 21-13048

The beneficial use examination was submitted for the above-referenced water right on March 20, 2013. As noted in the examination narrative, all pumping equipment had been installed and servicing the subdivision, but a problem had occurred over the winter with the 50HP well pump and/or its controller, thereby preventing a field flow measurement of the total system capacity. The purpose of this letter is to provide the measured system capacity information.

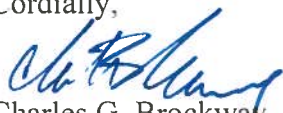
The defective pump was replaced in late June 2013. The pump is the same make and model as originally installed and listed in the beneficial use examination. It was also determined that a larger controller was needed to safely operate this pump. On August 20, 2013 discharge measurements were made of the pumping capacity in a normal operating condition. Static system pressure was 70 psi. Two (2) fire hydrants were opened and both well pumps automatically activated. Equilibrium pressure of 45 psi before the booster pumps and 61 to 62 psi after the booster pumps was reached. These pressures are within the design pressure range, but toward the lower end of the range; therefore the condition represents a maximum-flow condition. At equilibrium, the reading on the installed Seametrics IP115B meter was 389 gpm and steady. A 3-minute totalizer test was conducted during which 1166.2 gallons were pumped, equating to a rate of 388.7 gpm. The total run time of the test was 25 minutes.

CHARLES E.
BROCKWAY,
PH.D., P.E.

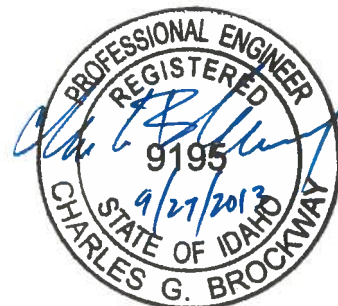
CHARLES G.
BROCKWAY,
PH.D., P.E.

The system capacity of 389 gpm or 0.87 cfs is greater than the diversion rate on permit 21-13048. Therefore, it is recommended that this right be licensed for 0.70 cfs and 214.8 ac-ft.

Cordially,


Charles G. Brockway, P.E.
Certified Water Right Examiner

Enc: Photos
Cc: Mike Vickers



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Photo date: 8/20/2013

Flow meter readout showing system capacity – both wells active, one booster active

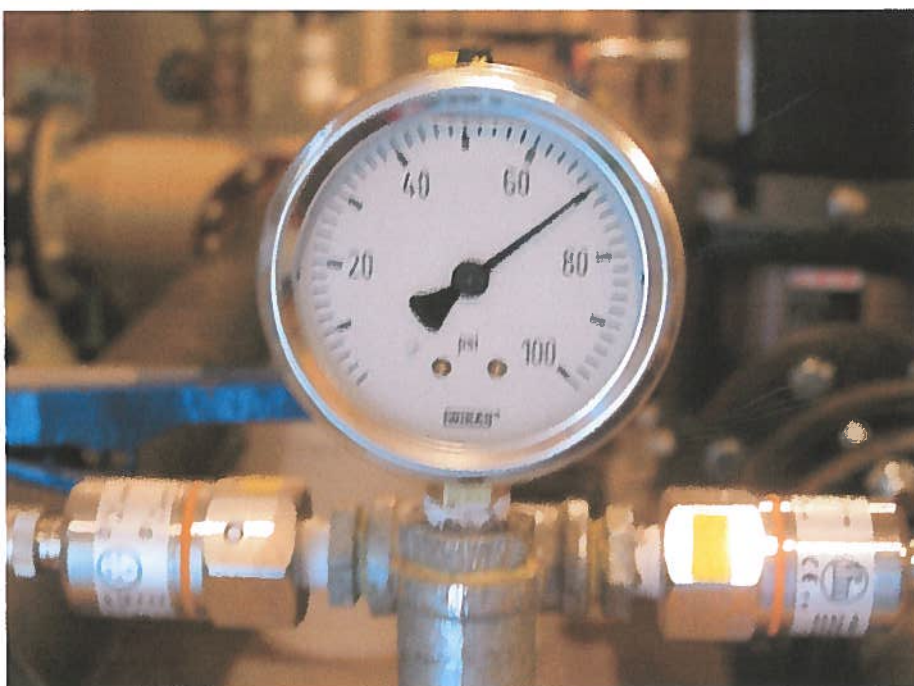


Photo date: 8/20/2013

Static pressure downstream of booster – 70 psi

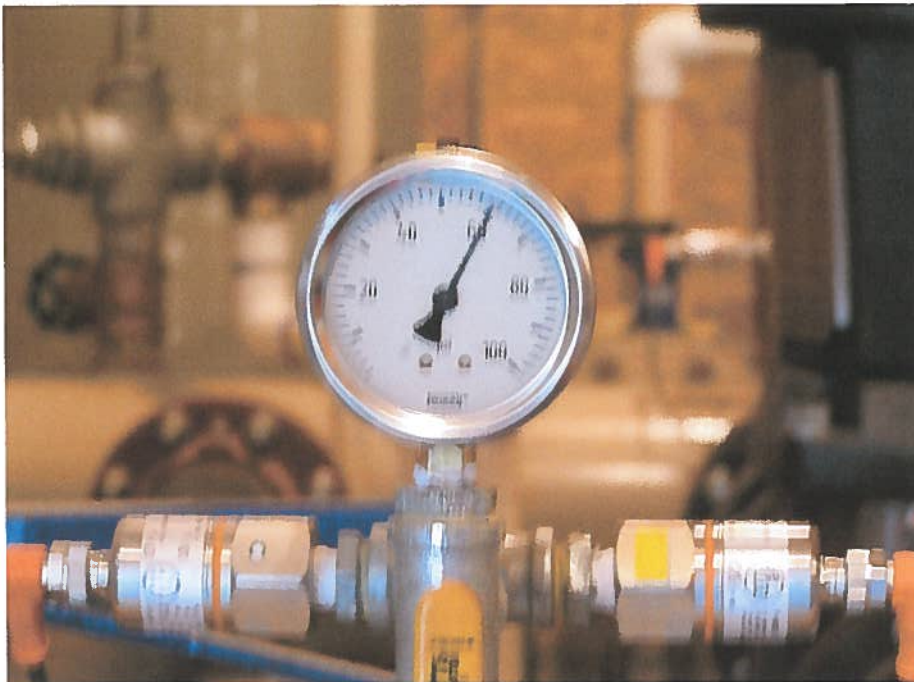


Photo date: 8/20/2013

Pressure downstream of booster during test – 61 psi