

**BEFORE THE DEPARTMENT OF WATER RESOURCES  
OF THE STATE OF IDAHO**

IN THE MATTER OF DISTRIBUTION OF  
WATER TO WATER RIGHTS HELD BY  
RANGEN, INC., WATER RIGHT NOS. 36-  
00134B, 36-00135A, 36-15501

Docket No. CM-DC-2014-004

**ORDER APPROVING  
MEASUREMENT DEVICE**

**Background**

On April 8, 2015, Rangen, Inc. (“Rangen”) executed a stipulation with Idaho Ground Water Appropriators, Inc., and other ground water users wherein Rangen agreed to install a measuring device on the “White Pipe,” the six inch PVC pipe that conveys water from the Martin-Curren Tunnel to Rangen’s hatch house and lab facility. *Stipulation* at 3. The signatories to the stipulation agreed the measuring device must be “capable of measuring to a reasonable degree of certainty how much water discharges from the White Pipe.” *Id.* The signatories also agreed “[s]uch device must be pre-approved by [the Idaho Department of Water Resources or “IDWR”] and constructed and maintained in accordance with industry and IDWR standards.” *Id.*

On June 24, 2015, Rangen submitted *Rangen, Inc’s Motion for Pre-Approval of Measuring Device* (“Motion”). The proposed design plans for the measuring device were attached as Exhibit A to the Motion.

**Review of Meter Design Plans**

Rangen proposes installation of a Badger M2000 magnetic (“mag”) flow meter on the pipeline just outside of the hatch house. The meter will be installed on the pipeline inside a new vault and new section of pipe outside of the hatch house and lab facility.<sup>1</sup> The meter display unit will be mounted inside the greenhouse next to the hatch house, and will include installation of a data logger. The Badger M2000 mag meter is a standard meter approved and tested by IDWR for use in closed conduit measurement applications. The installation plan shows adequate straight pipe length upstream and downstream of the meter. The meter is capable of measuring low flows and velocities that may be encountered in this particular pipe. The meter should

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<sup>1</sup> IDWR Staff contacted Dr. Charles E Brockway by phone on June 30, 2015, seeking clarification regarding installation plans. Dr. Brockway clarified that the meter would be isolated in a new vault, below ground, outside the hatch house and separated from other plumbing in the older existing vault. The meter location is in a location where the pipe is always full.

accurately measure water if it is installed according to meter manufacturer recommendations and the pipe remains full at the meter location.

IDWR staff reviewed the design plans for the proposed measuring device and recommends approving the proposed measuring device conditioned upon installation, operation, and maintenance in accordance with the design plan and in accordance with meter manufacturer specifications. Staff further recommends the data logger be programmed to record daily average flow in cubic feet per second, and that logged files or similar summary compilations be submitted annually to IDWR unless a different frequency is required as stipulated between the parties in the Rangen delivery call.

**ORDER**

IT IS HEREBY ORDERED that Rangen's Motion is APPROVED conditioned upon the installation, operation and maintenance of the measuring device in accordance with the design plan and meter manufacturer specifications.

IT IS FURTHER ORDERED that Rangen shall program the data logger to record daily average flow in cubic feet per second, and that logged files or similar summary compilations be submitted annually to IDWR unless a different frequency is required as stipulated between the parties in the Rangen delivery call.

Dated this 2<sup>nd</sup> day of July 2015.

  
GARY SPACKMAN  
Director

**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that on this 2nd day of July 2015, I served a true and correct copy of the foregoing document on the following parties by the method(s) indicated.

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