



Holden Kidwell
Hahn & Crapo P.L.L.C.
L A W O F F I C E S

RECEIVED

MAR 25 2013

Department of Water Resources
Eastern Region

1000 Riverwalk Drive, Suite 200
PO Box 50130
Idaho Falls, Idaho 83405

Tel: (208) 523-0620
Fax: (208) 523-9518
www.holdenlegal.com

Email: lmarchant@holdenlegal.com

March 25, 2013

Idaho Department of Water Resources
Attn: Dennis Dunn
900 North Skyline Drive, Suite A
Idaho Falls, ID 83402-1718

RE: Proposal for Use of Old Smith Well as Monitoring Well.

Dear Dennis:

You will recall that you approved an application for a replacement well for Mitchell Sorensen on February 25, 2013. At that time, we indicated that we wished to retain the old well as a monitoring well and you requested that we provide a proposal within 30 days. Enclosed is a proposal from Dave Shaw for the use of the old Smith Well for use as a monitoring well.

If you have any questions or concerns, please let me know.

Best Regards,

Luke H. Marchant
HOLDEN, KIDWELL, HAHN & CRAPO, P.L.L.C.

MAR 25 2013

Department of Water Resources
Eastern Region

Water Level Monitoring Proposal

For Mitchell Sorensen

March 2013

This proposal is to use the existing irrigation well located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 21 Twp 5N Rge 26E, B.M., the Smith well, as a ground water level monitoring well once the replacement for this well is drilled. The water right for this well has a 1953 priority date and the expectation is the well was drilled at about that same time. No well log has been located for this well.

The location of the Smith well will provide valuable information to measure the impact, if any, of a number of irrigation wells in relatively close proximity to this well. No current monitoring wells have been located near this location and the lack of data only contributes to some of the conflict in the area.

The Smith well will be modified with a surface seal and the casing will be extended to at least 1 foot above the finish grade if it can be used as a monitoring well. Excavation around the well to at least 18 feet depth will be made to install a surface seal. The integrity of the casing to this depth will be examined and replaced prior to surface sealing if found to not be competent. A plate will be welded on top of the casing in compliance with the Well Construction Rules. A 4" access port will be welded to the plate and fitted with a lockable cap to permit access to the well for monitoring purposes.

Since no log has been located for the Smith well, the log for the new well will be examined and the static water level in the two wells will be compared. The depth of the Smith well will be sounded and compared to the depth of the new well. If the log of the new well reveals confining layers and if particular layers are cased out an evaluation will need to be made as to whether the Smith well is likely to reflect the same water surface elevation as the new well and other irrigation wells in the area. If the water source being monitored cannot be determined from measurements and external examination of the Smith well, a camera may be lowered down the well to better understand the lithology of the Smith well.

The well will be fitted with a transducer and data logger. The 4" access will allow for the data logger to remain in place and to measure depth to water with a tape from time to time to verify the data logger data.

All construction/reconstruction of the Smith well will meet the requirements of IDWR's Well Construction Standards. The 18 feet of surface seal is intended to meet the surface seal requirements in place at the time the Smith well was constructed.