

Central Iron County Water Conservancy District
Special Board Meeting Minutes
March 24, 2022



Board Members

Joel Myers-Vice Chairman
Tyler Allred
David Harris
Spencer Jones
Terri Hartley

District Staff

Paul Monroe-General Manager
Jessica Staheli-Public Outreach

Others in Attendance

Ryan Blanchard-Willowsticks
Val Kofoed-Willowsticks
Mike Jessop-Willowsticks

CALL TO ORDER: ▪Board Vice Chairman Myers called the meeting to order at 12:09 PM.

DECLARATION OF ABSTENTIONS AND/OR CONFLICTS OF INTEREST BY BOARD MEMBERS: ▪None. (1:32)

CONSIDERATION OF WILLOWSTICK TECHNOLOGIES PROPOSAL TO LOCATE NEW SOURCE OF WATER:

▪Monroe-Thanked Willowsticks for being on the call as it provides an opportunity for our Board to ask questions about the proposal. ▪Myers-Asked what kind of technologies they use to locate wells? ▪Jessop-Explained the two tools that Willowsticks uses. He went into detail about radiometric gamma exploration and how they find zones that are a good indicator for possible places to drill. They also use a passive seismic technique to locate gravel fractures and pockets that may have high flow rates of water. He explained for several minutes how the technology works and an example of one of their successful projects.

▪Blanchard-Explained the proposal to study 350-acres near Iron Spring Road. They would broadly cover that area first and then start pinpointing the best area to drill. ▪Blanchard-We'd focus on certain areas and the fractures to give you an area to drill. ▪Monroe-Said we probably would like to be further outside of the Cedar Valley basin. ▪Kofoed-We took all the geological information to find a deep-rooted fault zone that you could tap into that might have a minimal effect on Escalante and Cedar Valley. The USGS Maps show a lot of faulting through that zone. We hope to find 3-4 potential well sites. ▪*There was a small discussion on the 71 Basin boundary line, and agreements with owners of the properties that would be studied.* ▪Monroe-We are trying to avoid the negative affect of pumping in our basin. ▪Allred-Suggested keeping the acreage of the study the same but moving it further north away from basin 73-71 line.

▪Kofoed-Said Jessop found a study that was done in this area and the highest producing wells were found in the fractures. The bigger/deeper fractures tend to produce more water and have less impact on surrounding wells and aquifers. ▪*There was more discussion regarding the technology and scientific methods of the proposed study and some of their case studies.*

▪Monroe-Do you have a good idea of the fractures in our area? The concern that we have is that there is a lot of history of unsuccessful wells in that area. We need to make sure we have a source that is long lasting. ▪Koefed-Said they can't make any guarantees for what they may find, but this technology helps remove the risk. ▪*There was discussion regarding the water quality and cost of deeper water.* Jones-Asked if they saw any issues geologically with moving the acreage area further northwest. ▪Blanchard-Said the main reason was just staying within one property owner's land, but he didn't think moving it would cause an issue. ▪Monroe-Said are the fractures tying us to that area, or are there just as many fractures farther northwest? ▪Koefed-Said there is no problem in moving the area. ▪Jones-Said we could take it on the same side of the road but move it farther northwest. ▪Allred-Said we would still be dealing with one property owner northwest of that proposed area. ▪Hartley-Said as long as we aren't moving it to a place that is geologically bad. ▪Monroe-Asked if the Board wanted to keep the same amount of acreage, but just shift it further northwest? ▪Jones-Suggested that Monroe move forward with the Willowstick proposal with the changes. He suggested that an agreement should be made with the landowner. ▪Monroe-Said the landowner is aware of the proposal, but we should get an agreement in place. ▪*There was more discussion regarding the technology that Willowstick uses.*

▪Jones-Suggested the Board instruct Monroe to proceed with the same proposal but move the acreage further away from the boundary. However, we need to have an agreement with the landowner to make sure that nothing in the future could harm the potential well.

▪Blanchard-We've done work with many different entities. ▪Jessop-Showed an example of a report to show the Board. ▪Jones-What would be the timeline to complete this? ▪Koefed-We could fit it in as early as mid-April. ▪Jessop-Said usually within a few days of completion we can share some results, and then it's a few weeks for the actual report. ▪Allred-What is your success rate? ▪Jessop-So far it is 100% success rate. There hasn't been a well drilled that was dry as long as it was drilled in the location we suggested. ▪Monroe-As far as this goes, the landowner says that he would donate a full acre, but it'd be good to have an agreement in place. (51:28)

Board Member Jones motioned to approve the Willowstick Technologies Proposal to Locate New Source of Water with the following changes: that the study area be moved further northwest from the 71-73 basin boundary and keep the same study acreage, and that we concurrently work with the landowner to make an agreement that if we do drill, that we are safeguarded on the well area, protection zone and easements for long term planning. Second by Board Member Harris. Motion unanimous at 1:01 PM. (52:43)

Board Member Allred motioned adjourn the regular session Board Meeting. Second by Board Member Harris. Motion unanimous at 1:03 PM. (53:37)

Roll Call as follows:

Hartley-Aye

Myers-Aye

Allred-Aye

Jones-Aye

Harris-Aye

Meeting Adjourned at 1:03 PM