

Item 5 – Consideration of Well Bore Information Database for District 3D Leapfrog Model

In 2016, the District contracted with LBG-Guyton to develop a 3D groundwater model. Now completed, the model is capable of showing a cross-sectional view of all the geological layers beneath the District. The 3D model was developed to better visualize the aquifers under any property encompassed by the District.

I was approached by Allan R. Standen, LLC. to see if the District would have any interest in obtaining well bore data he has accumulated throughout his career for use in our 3D model. Mr. Standen is a former employee of LBG-Guyton Associates before creating his own company and specializes in geologic features and lithology.

I invited Mr. Standen to our office to demonstrate how using his compiled data would enhance our model. He has searched through and gathered all the data (well logs, electric logs, scout tickets, water quality, etc.) contained in the databases of the Texas Water Development Board (TWDB), Texas Commission on Environmental Quality (TCEQ), Texas Railroad Commission, and the U.S Bureau of Economic Geology (USBEG).

John Seifert and I met with Mr. Standen August 29th in San Antonio to determine what, if any, of the data he has would benefit our model. It was determined that data related to known existing wells within the District (ground-proofed) appearing in either TWDB or TCEQ databases would greatly enhance the model's ability to depict lithology at any given point in the two districts. It was also agreed that inserting USBEG data relating to cable tool drilling and scout tickets would further refine the overall geologic layers associated with the model

In a separate folder, I am providing Mr. Standen's proposed pricing schedule for the different databases. This would include his time to incorporate the data into our model.

It is the recommendation by the General Manager the District approve the purchase and incorporation of data obtained from Allan R. Standen, LLC. into the existing District 3D model at a cost of \$15,000.