

Keen, Shelley

From: Keen, Shelley
Sent: Wednesday, April 18, 2007 8:00 AM
To: 'Stanish, David'
Subject: RE: Boise Front Geothermal Aquifer Study

David,

Thanks. I will wait to hear from you regarding Ken Neely's check of his data set.

Shelley Keen
Idaho Department of Water Resources
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-----Original Message-----

From: Stanish, David [mailto:david.stanish@ag.idaho.gov]
Sent: Wednesday, April 18, 2007 7:54 AM
To: Keen, Shelley
Subject: FW: Boise Front Geothermal Aquifer Study

You will find Mr. Petrich's reply below:

David I. Stanish

Natural Resources Division
Office of Attorney General
700 W. Jefferson Street
P.O. Box 83720
Boise, ID 83720
(208) 334-4549
david.stanish@ag.idaho.gov

-----Original Message-----

From: Christian Petrich [mailto:CPetrich@spfwater.com]
Sent: Tuesday, April 17, 2007 4:56 PM
To: Stanish, David
Subject: RE: Boise Front Geothermal Aquifer Study

David,

I apologize for the delayed reply - I've been out of the country for the last 2+ weeks.

The annual (water year) production data are taken from a geothermal database assembled for the IWRRRI-IDWR project. The sources of the data are spreadsheets that Ken Neely had assembled from user submissions (I did not do an independent analysis of these data). I spoke with Ken who indicated that the values that we used at the time (i.e., those summarized in the 217 MG number) may have been high because they may have been based on a daily high readings (instead of an average daily reading). He recalculated the production based on daily trend data to come up with an estimated 180.3 MG for the 1993 calendar year. I asked him if this was a complete dataset (i.e., multiple readings for each day) as these data sets are notoriously incomplete. He will check this and get back to me. It may be worth reviewing Ken's revised data file to see if it produces a truly realistic number.

Hope this helps.

Christian

-----Original Message-----

From: Stanish, David [mailto:david.stanish@ag.idaho.gov]

Sent: Wednesday, April 04, 2007 10:53 AM

To: Christian Petrich

Subject: Boise Front Geothermal Aquifer Study

Dear Mr. Petrich:

It is my understanding that you authored a 2003 Idaho Water Resources Research Institute report entitled Hydrogeologic Conditions in the Boise Front Geothermal Aquifer. I am writing because I am interested in the methodology that you employed to report the historic production rates of the State's Capitol Mall Complex geothermal system. On page 69, you set forth annual production volumes for the various geothermal users in the Boise area, including the State. In the caption of the chart, you state that "production data are based on data provided to IDWR by primary geothermal users." Does this chart represent a mirrored reporting of annual production figures provided to you by IDWR, or did you compile/analyze the data yourself in order to come up with the annual production figures? In other words, did IDWR provide to you the 217.9 million gallon figure for 1993, or was that figure a result of your own data analysis? If you did compile/analyze the data yourself, how did you make those calculation? It is my understanding that both Daily Log data (1 data point/day) and Trend Log data (4 data points/day) were kept at the time. Which set of data did you use?

I appreciate any assistance that you can provide. Thank you for your time.

Sincerely,

David I. Stanish

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