From: Ellinger, Scott
To: Dave.Cobrain@state.nm.us
Cc: Kieling, John, NMENV; Brandwein, Sid, NMENV; Moats, William, NMENV
Subject: RE: Discussion topic for KAFB BFF modeler"s meeting
Date: Monday, November 04, 2013 2:19:00 PM

It sure didn't feel like a vacation.

The stratigraphy is indeed important. It would probably be worthwhile (at some point) to try and develop a data set to support more detailed model layering. That would mean finding top and bottom elevations for the a1 and a2 units, and possibly the main overlying and underlying strata, across the model domain. Hydraulic conductivity would be needed for those layers.

A more simple approach (lacking actual data) would be to represent a1 and a2 as horizontal layers and assign some reasonable values for conductivity, then run the model and see what happens. I know there are differences vertically. The reports on well bore flow logging are also very interesting.

From: Cobrain, Dave, NMENV [mailto:dave.cobrain@state.nm.us]
Sent: Friday, November 01, 2013 5:00 PM
To: Ellinger, Scott
Cc: Kieling, John, NMENV; Brandwein, Sid, NMENV; Moats, William, NMENV
Subject: FW: Discussion topic for KAFB BFF modeler's meeting

Scott,

Have you recovered from your forced "vacation"? It would be useful to consider Sid's comment below. Thanks.

Dave

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From: Brandwein, Sid, NMENV
Sent: Friday, November 01, 2013 11:08 AM
To: Cobrain, Dave, NMENV
Cc: Moats, William, NMENV; McDonald, William, NMENV
Subject: Discussion topic for KAFB BFF modeler's meeting

Dave,
I would like to see how the various groundwater modelers are handling horizontal stratification in the aquifer within the zone of pumping wells. This could be a topic at the upcoming modeler's meeting. The New Mexico Bureau of Geology shows two units based on geophysical logs (units a1 and a2 in the attached figure- note KAFB-16 and Ridgecrest 5 on the left side of the profile) that can be seen in 5 wells in the area - Ridgecrest 5, KAFB-15, KAFB-16, VA Hospital well and the new

ABCWUA/USGS Trumbell well cluster. These units appear thick enough and continuous enough to affect groundwater movement in the area and probably should be included in the model.
Sid