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Sheila Stoeller

From: Dina Galassini [dinarose@cox.net]
Sent: Tuesday, December 11, 2007 3:41 PM
To: Mundell-Web; Mayes-WebEmail; Hatch-WebEmail; Pierce-Web
Subject: Another K2 well concern...

Dear Commissioners,

Today I talked to Ed McGavock of Errol L. Montgomery & Associates, Inc. Mr. McGavock wrote the following abstract:

'R-AQUIFER IN NORTHERN ARIZONA,' Errol L. Montgomery and Edwin H. McGavock, ERROL L. MONTGOMERY & ASSOCIATES, INC., Tucson, AZ 85719, Arizona Hydrological Society, AHS 2003 ANNUAL SYMPOSIUM FINAL ABSTRACT

I explained the K2 situation to Mr. McGavock and his concerns are as follows:

Problem is that water moves through fractures, and limestone is impermeable. PWCo could affect SWCo's wells if they drill into the same fracture zone that SWCo's existing wells are in. There are little caves and tunnels in limestone. The closer to our existing wells, the more likely they are to tap the same water zone that SWCo's wells are in. They could be pulling water from the same zone we're pulling from. If they were 1/2 mile away, he wouldn't worry about it. If water moves from the c to the r, there are obviously some partial barrier zones.

There are some shell beds between the r and the c. All the water from the r comes from the c, but not sure how far uphill; probably 10 miles uphill. My concern is the water is moving through small tunnels (solution cavities) and if they drill in the same one SWCo's wells are in, then they would be competing. Even though they drill down 1,700 feet, they could be tapping into the same solution cavity, especially due to the close proximity of SWCo's existing wells.

If the solution cavity is very large there would be a small amount of harm. What we're worried about is if it's, for example, carrying a 1,000 gpm along with PWCo's 300 gpm, their's potential for more harm and possible big impact. It would be 30% of all the water in the cavity (assuming the cavity is carrying a 1,000 gpm).

If the solution cavity is carrying 5,000 gpm they would be competing against us. Then the question comes in would there be ample water for both?

To prove harm we would have to run pumping tests...pump their well and watch what happens to the water level in Strawberry's. There's no way to predict reasonably what impact they will have beforehand. It is certainly reasonable from a scientific standpoint to have concern about their impact.

Proving it would be expensive with the pumping tests; maybe not. When they test their well, turn ours off and see how much our water level declines if any. Get permission to measure from Brooke. Brooke could make it difficult, but it would be the inexpensive way to do it.

I firmly believe that PWCo should stay out of SWCo's CC&N and drill no less than 1/2 mile from Strawberry's existing wells.

Thank you,
Dina Galassini

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