

W. W. WEST
401 North Colorado
Midland, Texas 79701

July 25, 1973

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O. C. C.
ARTESIA, OFFICE

Oil Conservation Commission
State of New Mexico
P. O. Drawer DD
Artesia, New Mexico 88210

Attention: Mr. W. A. Gressett, Supervisor

Re: West Dog Canyon Unit
No. 1-H, Sec. 18-25-20
Otero County, N. M.

Dear Mr. Gressett,

In case I am not able to work out a trade with the rancher to take over the above well for use as a fresh water well for livestock water, would it be possible, as far as the commission is concerned, for me to retain this and rig it up for the same purpose? A series of three fairly short lines from this well could furnish water to three different ranchers in the area. As badly as water is needed up in those mountains, it seems a shame to plug a well that is already cased and is capable of making fresh water. Also, plugs are set in it for the express purpose of using the water.

I don't know whether the rancher is just trying to trade with me or whether he is serious that he may not want the well for a water well. But I am inclined to think that he is serious about it because he has the idea that the water is not very suitable for livestock. I think his entire problem in this connection is that the water he got and tested came from the bottom part of the hole where a lot of anhydrite and gypsum was present and the water was not very good. As I recall it the first water we encountered was practically the same as the water we encountered over in the Campbell No. 1 Spiegel well about 7 miles to the south-east, and which well was converted to a water well by the same rancher I am now dealing with. If I can prove this to him, he may still want to take the well over for the water, but I am afraid he feels it would be too much expense.

In case you have a copy of the analysis on the water encountered just below the casing in this well which would be the first water recovered and saved after surface casing was run at 2337', then I would surely appreciate a copy of this analysis. I had thought I had an analysis myself, but have not located it yet.

Very truly yours,


W. W. West

WWW/pjb

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Figure 1 consists of two line graphs. The left graph shows the growth rate (log CFU/h) of *E. coli* in a 100% water activity medium as a function of temperature (°C). The growth rate increases from approximately 0.5 at 10°C to a peak of about 1.5 at 37°C, and then decreases to about 0.5 at 50°C. The right graph shows the growth rate (log CFU/h) of *E. coli* in a 90% water activity medium as a function of temperature (°C). The growth rate increases from approximately 0.5 at 10°C to a peak of about 1.5 at 37°C, and then decreases to about 0.5 at 50°C. Both graphs show a similar trend, with a peak in growth rate around 37°C.