

TA-36

Date: Mon, 09 Dec 2002 15:56:15 -0700  
From: "Clayton, Ned" <eclayton@slb.com>  
Subject: R-32 geophysical logs - perched water indications  
To: "broxton@lanl.gov" <broxton@lanl.gov>  
X-Perlmx-Spam: Gauge=, Probability=0%, Report=""

Dave,

Sorry I didn't get you this earlier.

My interpretation of the R-32 geophysical log results with regards to possible perched zones is:

Above 722 ft. the processed log results indicate a number of zones with higher water content that are likely not fully saturated and the water present is largely irreducible (i.e. cannot flow under existing conditions and typical pressures). The CMR shows minimal moveable water, except in the Guaje Pumice Bed where CMR moveable water content is about 10%, which is seen in almost every well and is likely due to the easy invasion of drilling fluid into this extremely porous formation. Also, most of the zones with higher water content shown by the logs are in large borehole washouts - suggesting that the elevated amount of irreducible water could be due to the invasion of bentonite-laden drilling foam/fluid.

Regards,  
Ned

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