

TASY



Kulis, Jerzy, NMENV

From: Mark Everett [meverett@lanl.gov]
Sent: Tuesday, December 09, 2008 8:54 AM
To: Kulis, Jerzy, NMENV; Dale, Michael, NMENV; Cobrain, Dave, NMENV
Cc: 'Danny Katzman'; 'Shen, Hai'
Subject: Well R-40 additional monitoring point proposal
Attachments: R-40construction.pdf

Jerzy,

As you and I discussed yesterday, here is LANL's proposed design for an additional monitoring point within the R-40 borehole. Currently the main R-40 well (5-in ID stainless steel) is in place and the annulus is filled up above the upper screen. After placing a bentonite seal above the upper screen filter pack (top of annular fill = 735 ft bgs) the water level was measured at 645 ft bgs. Additional bentonite was added bringing the annular fill level up to 678 ft bgs. Water levels again stabilized at 645 ft bgs. The 645 ft depth to groundwater is consistent with observations made while drilling with the casing-advance system. Water levels clustered around this depth until the casing was advanced to 872 ft bgs at which time water levels dropped significantly. Current water level within the well is 852 ft bgs which is at the predicted depth for the regional aquifer. Our goal in placement of this small diameter well is to monitor near the top of the observed groundwater. A 20 ft screen from 650-670 ft will get us near the top of the observed groundwater within the fractured basalt and allow the capture of any water entering the borehole over the 20-ft length. If this design is acceptable to you, please respond with your concurrence.

If you have any additional questions or comments feel free to contact Danny (667-6333) or me.

Thanks,

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