

Department of Energy

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WM DOCKET CONTROL CENTER

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WM Record File  
102.2

WM Project Docket No. 11

PDR ✓  
LPDR ✓

Distribution:

Coplan  
(Return to WM, 623-SS) C2

MAPS OF TRENCHES

I regret the delay in communicating this information; however, my note to follow up got buried in my files on the DOE/NRC Geology Workshop. After the above mentioned workshop, we provided the NRC staff and their consultants a tour of Yucca Mountain. One area of investigation that was of particular interest was the trenching across the faults. Attached is a "map" that was given to the NRC staff showing what was known about the trenches. At the debriefing sessions, they indicated that these maps were inadequate from their viewpoint. They were viewed as cartoons rather than maps.

I am not sure if what was handed out was the real scientific map. However, this does stand as a question that we must resolve with the NRC. I would like to discuss it briefly as well as the course of action to be taken to correct any shortcomings, if they exist.

Also, Seth Coplan reminded me that the NRC staff and consultants wanted to visit each trench before they degrade due to the effects of weathering. We need to think about a schedule for such a visit.

*Donald L. Vieth*

Donald L. Vieth, Director  
Waste Management Project Office

WMPO:DLV-406

Enclosure:  
As stated

- cc w/encl:
- M. B. Blanchard, WMPO
- S. M. Coplan, NRC, Washington, D. C.
- M. W. Frei, DOE/HQ (RW-23) GTN
- M. D. Voegele, SAI, Las Vegas, NV
- Bryce Johnson, SAI, Las Vegas, NV
- NNWSI Project File

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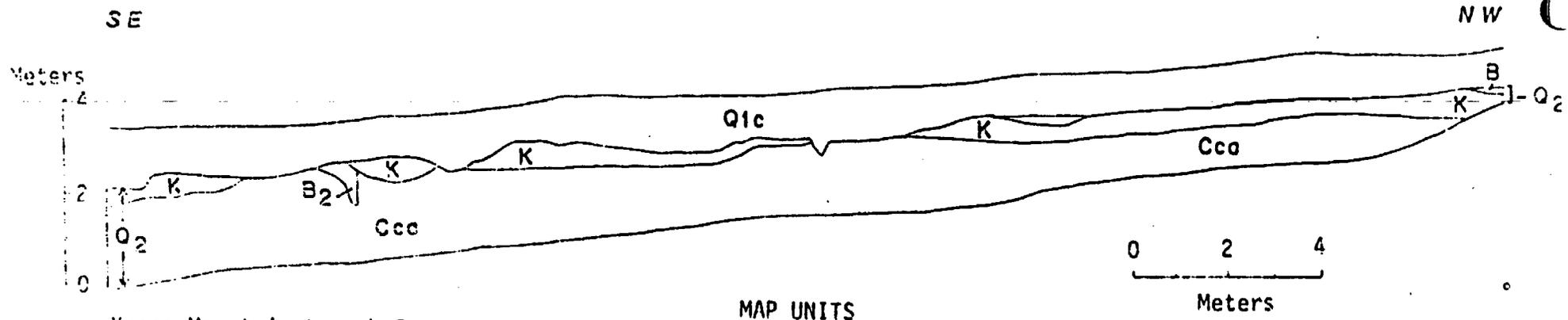
SETH - I TALKED TO BILL WHEN I GAVE HIM THIS NOTE. HE SAID THE USGS CONSIDERS THE MAPS AS INTERPRETED DATA AND THEREFORE DO NOT AUTHORIZE THEIR RELEASE UNTIL REVIEWED. YOU INDEED DID GET A CARTOON. THERE ARE MORE DETAILED MAPS

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PDR WASTE  
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*DM*

Uranium-trend dates from Q2 on opposite face near SE end:  
 47,000 yrs - upper part  
 145,000 yrs - lower part



Yucca Mountain trench 2.  
 Trench trends N. 60° W.  
 Southwest wall mapped.

- Q1c - Fluvial gravel
- Q2 - Fluvial gravel
- B - Cambic B horizon
- K - K horizon, stage III carbonate
- Cca - Cca horizon, stage I carbonate
- B2 - Similar to B with filaments of CaCO<sub>3</sub>