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SEP 27 1984

Mr. O. L. Olson, Project Manager  
 Basalt Waste Isolation Project Office  
 U. S. Department of Energy  
 P.O. Box 550  
 Richland, WA 99352

Dear Mr. Olson:

Confirming our discussion of September 14, 1984 with Dave Dahlem, I enclose a list of the areas to be visited during the mapping review beginning October 22, 1984.

If you have any questions, please contact Kristin Westbrook (FTS 427-4532).

Sincerely,

Robert J. Wright  
 Senior Technical Advisor  
 Repository Projects Branch  
 Division of Waste Management  
 Office of Nuclear Material Safety  
 and Safeguards

WM Record File

101.2

WM Project 10

Docket No.

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Rattlesnake-Wallula (RAW)

(SOUTHERN PART OF AREAS A, &, C, AND PART OF D)

Objectives: RAW is the closest and most critical structure to the RRL. A thorough understanding of the RAW tectonics, (regarding structure and stratigraphy details) is essential. We want to review updated RHO mapping including the Snivley Basin.

Hite Fault/Pomeroy

(AREA G)

Objectives: Hite fault appears to be a major tectonic boundary on the eastern edge of the Yakima Fold Belt. Other recent mapping indicates a truncation of the OWL at this structure. Also, the termination of Hite to the north is important to understanding the present tectonic setting. Rockwell Hanford Operations use of mapping by the Corps of Engineers should be reviewed.

Vantage Area

(NORTHWEST PART OF AREA B)

Objectives: The Vantage area appears to be one of the best mapped areas for studying the relationships of thrust faults, tear faults and folds. As the area lies between the Saddle Mountains structure and the Frenchman Hills structure, it may provide valuable insights into the development of the YFB.

East Yakima Ridge

(AREA A, JUST WEST OF RRL)

Objectives: This major structure lies close to and directly on trend with the RRL. There is an apparent truncation of the eastern end of the structure west of the RRL which needs to be understood in light of the proximity of the RRL.

Columbia Hills/Horse Heaven Hills

(WEST PART OF AREA E AND ADJACENT L)

Objectives: The Rock Creek exposures are said to be a well exposed and complete section through a first order structure showing thrust faults at both N and S flanks. This structure is essentially the southern boundary of the YFB which is also truncated by RAW. The team needs to understand the mechanics of YFB folding and faulting.