WM Record File
101

WM-10

PDR ✓

L ✓

101.

100/RJW/83/05/11/1

Distribution:
- 1 -
(Return to WM, 623-SS)

DISTRIBUTION
WM s/f ✓
WMHT r/f
NMSS r/f
CF
REBROWNING
MBELL
PALTOMARE
HJMILLER
RJWRIGHT & r/f
PDR

WMHT: ~~3100~~

MAY 24 1983

Mr. John King
AMAX Exploration Inc.
1707 Cole Boulevard
Golden, CO 80401

Dear John:

Enclosed is some information on borehole RRL-2, the one with the missing core.

"Principal Borehole Report" (by DOE's contractor, Rockwell International), discusses the history of RRL-2. Information on the zones of particular interest can be found on pages 42 (lithology, neutron log), A-19 (coring record), A-23 (mud loss) and B-12 (geologic log). Two conversations between us and Rockwell are described in telecom notes. The draft memorandum to file No. 101.1 by Ludwig F. Hartung discusses our examination of information at the site on April 11-12, 1983.

For your background, the two main candidates for the high-level waste repository host rock are the "dense interior" portions of the Cohasset flow (3010-3255 ft. depth) and the Umtanum flow (3757-3839 ft. depth). The important core loss of RRL-2 is in the Umtanum at 3773 - 3783 ft. depth and 3822 - 3824 ft. depth. The lower core loss seams explainable in terms of fractured ground, as suggested by the geophysical logs, the permeability test and the appearance of the core above and below 3822 - 3824 ft. However, the upper core loss is less understandable: there is no similar suggestion of fractured ground, yet it's hard to see how 10 feet of core can be ground up or otherwise lost.

If you have a chance to ring me upon reviewing this material, please do so - (301) 427-4697. Otherwise, I'll call you.

Many thanks for your help.

Sincerely yours,

"ORIGINAL SIGNED BY"
Robert J. Wright
Senior Technical Advisor
High-Level Waste Technical
Development Branch
Division of Waste Management

DesireeM 83/05/20

OFC	WMHT	WMHT					
NAME	RJWright:dm	HJMiller					
DATE	05/20/83	05/20/83					

00456

8307220177 830524
PDR WASTE
WM-10 PDR

8611005 4