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Hydrogeology • Mineral Resources Waste Management • Geological Engineering • Mine Hydrology

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July 2, 1985
Contract NRC-02-83-033
FIN #B-7389-3
Communication #56

Mr. Fredrick Ross
Division of Waste Management
Mail Stop 623-SS
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

WM-RES
W&A
B-7389

W&A Project 16
Docket No.
PDR ✓
LPDR S
Jean Tichet
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Re: Nineteenth Monthly Progress Report

Distribution:
ROSS
STILL
(Return to WM, 623-SS)

Dear Fred:

This document constitutes the nineteenth monthly (June 1-30, 1985) progress report as required by contract No. NRC-02-83-033.

Task 1, Subtask 1.1

Documents which we have obtained are noted in the attached reference list. The documents received this month are listed by category (Palo Duro, Paradox, and Salt Domes plus a Generic category for non-site specific reports). We are continuing to order copies of all ONWI documents either published or to be published which we feel will have some bearing on our efforts. We are obtaining copies of non-ONWI reports and articles which may have a bearing on our efforts. The backlog of ONWI documents, created during the EA review, are being reviewed in order to stay current with salt research activities.

Task 1, Subtask 1.2, 1.3, and 1.4

These subtasks have been completed.

Task 2, Subtask 2.1

A reference list is attached for those documents received this month pertaining to the Paradox Basin. See Subtask 1.1 for details concerning our parallel effort on this subtask.

Task 2, Subtask 2.2, 2.3, and 2.4

These subtasks have been completed.

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Task 3, Subtask 3.1

A reference list is attached for those documents received this month pertaining to salt domes. See Subtask 1.1 for details concerning our parallel effort on this subtask.

Task 3, Subtask 3.2, 3.3, and 3.4

These subtasks have been completed.

Task 4

This task is inactive at this time.

Task 5

The Environmental Assessments (EA) for Deaf Smith County, Swisher County, Lavender Canyon, Cypress Creek Dome, Vacherie Dome, and Richton Dome have been reviewed previously. The final NRC comments on the draft EA's have been received; we have been reviewing these comments per instructions received from the project officer.

Future Activities

We will complete our review of the NRC comments on the draft EA's. We will forward our comments to the project officer.

- " Williams and Associates will continue their efforts to obtain all relevant documents pertaining to the salt repository sites. We are continuing to review all the reports received from ONWI pertaining to salt sites. We are receiving documents from ONWI each month. In addition, we will review the documents we obtain through our own initiative. We will continue our review of those documents that precede the receipt of Site Characterization Plans (SCP).

We will continue our discussions with the Project Officer concerning the upcoming meetings with the NRC and DOE. The proposed dates for the first meeting have been relayed to Williams and Associates. Tentative travel plans have been made. The current date of the next meeting is August 5-9, 1985. The hydrology portion of the agenda will receive further consideration if requested by the Project Officer.

We will review, for our information, the draft EA comments prepared by the Dept. of Interior when received. We will discuss our concerns about these comments with the Project Officer.

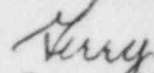
Contractural Problems

We have no contractural problems.

Current Expenditures

A breakdown of individual hours and charges plus travel expenses is shown on the attached Table 1. Cumulative charges and projected costs are shown on attached Figure 1.

Sincerely,


Gerry Winter

NEW REFERENCES

Palo Duro

Paradox

Salt Domes

Generic

- Coyle, A. J. and Kalia, H. N. May 1985. Quarterly Brine Migration Data Report, January-March 1984: Nuclear Waste Repository Simulation Experiments (Brine Migration), Asse Mine of the Federal Republic of Germany. Office of Nuclear Waste Isolation, Technical Report, BMI/ONWI-576, 257 p.
- Lanstrom, O., Klockars, C. E., Holmberg, K. E., and Westerberg, S. July 1978. In Situ Experiments on Nuclide Migration in Fractured Crystalline Rocks. Studsvik Energiteknik and The Geological Survey of Sweden, Teknisk Rapport 110, 25 p.
- Roy, D. M., Grutzeck, M. W., and Wakeley, L. D. April 1985. Salt Repository Seal Materials: A Synopsis of Early Cementitious Materials Development. Office of Nuclear Waste Isolation, Technical Report, BMI/ONWI-536, 94 p.
- Mazor, E., Vuataz, F. D., and Jaffe, F. C. 1985. Tracing Groundwater Components by Chemical, Isotopic and Physical Parameters - Example: Schinznach, Switzerland. Journal of Hydrology, no. 76, p. 233-246.
- Woolhiser, D. A., Emmerich, W. E., and Shirley, E. D. 1985. Identification of Water Sources Using Normalized Chemical Ion Balances: A Laboratory Test. Journal of Hydrology, no. 76, p. 205-231.