

WFO 38940

Sandia National Laboratories

Albuquerque, New Mexico 87185-1324

date: May 16, 1996

to: Jim Ramsey, MS 1328

Lucy Meigs
from: Lucy Meigs, MS - 1324

subject: Non-Salado: Diffusive Tortuosity for the Culebra Dolomite (WPO# 37226)

The parameter records package for the Culebra Diffusive Tortuosity (WPO# 37226; Parameter Id: DTORT; Parameter number: TBD) is almost complete. For the PA Transport simulations using SECOTP the Culebra Diffusive Tortuosity should be 0.11. (All numbers and calculations have been checked, so this number can be assumed to be final for the purposes of filling out Form 464.) This tortuosity value is derived from lab core measurements as reported in Kelley and Saulnier (SAND90-7011) as well as additional lab tortuosity measurements recently completed by Terra Tech. The value selected for use in SECO-TP is the median value from borehole averaged values. Diffusive tortuosity should be a fixed parameter because there is a relatively small range to the data with few outliers.

The final records package will include the calculations of the mean tortuosity from core measurements.

Copy to:

Martin Tierney, MS 1328

Mike Wallace, MS1328

Rebecca Blaine, MS1328

Margaret Chu, MS 1335

Mel Marietta, MS 1395

Hong-Nian Jow, 1324

Rip Anderson, MS 1328

Mary-Alena Martell, MS1328

Peter Davies, MS 1324

Al Lappin, MS 1324

Rick Beauheim, MS 1324

Jim McCord, MS 1324

Susan Altman, MS 1326

Tom Corbet, MS 1324

Hans Papenguth, MS 1341

Larry Brush, Ms1341

Jim Nowack, MS1320

George Perkins, MS1341

Lori Dotson, MS1343

Kathy Gaither, MS1324

Bob Holt, MS1324

Susan Howarth, MS1324

Marti Alkis, MS1330

Toya Jones, INTERA- Austin

SWCF-A:WBS1.2.07.1:PDD:QA:Non-Salado: Culebra Diffusive Tortuosity (Culebra Transport Parameter)