date: February 1, 1996
to: SWCF-A Records Center, SWCF-A: 1.2.07.1:PDD:QA:SALADO:PKG
7: Salado Halite Permeability: PERMX_LOG: PERMY_LOG: PERMZ_LOG
from: Tracy L. Christian-Frear, MS-1324 (6115)
subject: SALADO PARAMETER PRINCIPAL INVESTIGATOR
DOCUMENTATION PACKAGE FOR: SALADO HALITE
PERMEABILITY FROM ROOM Q ANALYSIS

The attached record package contains the intrinsic permeability of the halite as
determined from an analysis of Room Q brine inflow data. Simulation of brine
inflow to Room Q reproduced measured brine accumulation data with a value
for log permeability of -21.3 m² and a rock compressibility of 5.4 E-12 /Pa for
the halite. The rock compressibility and the permeability of the halite are
correlated with each other. Changing either rock compressibility or
permeability by more than a factor of two would require a commensurate
change in the other parameter to maintain proper slopes in comparison to
cumulative brine inflow data (i.e., if the rock compressibility was determined to
be about 5.4 E-10 /Pa, then the log of the permeability would be
approximately -23.3). If the permeability value is used without correlation to
rock compressibility, then the use of this sole permeability value as a data
point in the decision of the parameter estimate is not valid.

The parameter information provided in this record package was collected by
Principal Investigators for input to the WIPP Data Entry Form and for use by
Performance Assessment personnel making parameter estimates. The record
package was prepared in accordance with WIPP Quality Assurance Procedure
(QAP) 17-1, Rev. 1, WIPP QA Records Source Requirements.

Please call me at 848-0704 if you have any questions.
RECORD PACKAGE:

SALADO PARAMETER PRINCIPAL INVESTIGATOR DOCUMENTATION PACKAGE FOR:

SALADO HALITE PERMEABILITY FROM ROOM Q ANALYSIS

Purpose: The parameter information in this package was collected by Principal Investigators for input to the WIPP Data Entry Form and for use by Performance Assessment personnel making parameter estimates.

Date of Record: January 31, 1996

Author/Organization: Tracy L. Christian-Frear
SNL Department 6115
(505) 848-0704

Recipient: SWCF-A Records Center

# RECORD PACKAGE:

**SALADO PARAMETER PRINCIPAL INVESTIGATOR DOCUMENTATION PACKAGE FOR:**

**SALADO HALITE PERMEABILITY FROM ROOM Q ANALYSIS**


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