

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

THERMAL CONDUCTIVITY

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-07/24/78 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Thermal Conductivity of UE-25a#1 and G-Tunnel Samples
(H&N data).

DATA SET ID: 51/L01A-05/07/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Initial characterization of drillhole UE-25a#1 and
U12g-HH1-63 from G-Tunnel, and in support of ongoing field
tests (Terra Tek data).

DATA SET ID: 51/L01A-06/24/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of thermal conductivity behavior in tuffs
from USW G-1 (Terra Tek data).

DATA SET ID: 51/L01A-01/13/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the Bullfrog Member in USW G-1
(Terra Tek data).

DATA SET ID: 51/L01A-04/21/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Thermal conductivity using samples from U12g-RM-P-1 in
support of G-Tunnel in situ tests (Terra Tek data).

THERMAL CONDUCTIVITY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-07/16/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of thermal conductivity behavior of the Pah Canyon and Topopah Spring Member from hole USW G-2 (Terra Tek data).

DATA SET ID: 51/L01A-10/07/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the tuffaceous beds of Calico Hills and of the Topopah Spring Member in USW G-1 and USW G-2 (Terra Tek data).

DATA SET ID: 51/L01A-02/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of the effect of composition, porosity, bedding plane orientation, water content, and the presence of a joint on thermal conductivity of tuff (SNL data).

DATA SET ID: 51/L01A-03/29/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the tuffaceous beds of Calico Hills in USW G-2 (Terra Tek data).

DATA SET ID: 51/L01A-05/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization/support for U12g-SDH#1 and U12g-SDH#3 heater tests from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L01A-05/17/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Comparative testing techniques examination (Terra Tek data).

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THERMAL CONDUCTIVITY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-07/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of pure zeolites (Terra Tek data).

DATA SET ID: 51/L01A-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of tuff units in E-25b#1H, USW G-2, and
USW GU-3, and of U12g-HB-MPBX from G-Tunnel (Terra Tek
data).

DATA SET ID: 51/L01A-12/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the Topopah Spring Member in USW G-4
(Terra Tek data).

DATA SET ID: 51/L01A-02/21/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the tuffaceous beds of Calico Hills in
USW G-4 (Terra Tek data).

DATA SET ID: 51/L01A-03/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory quality and accuracy determination (Terra Tek
data).

DATA SET ID: 51/L01A-08/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Effects of lithophysae on the thermal conductivity of the
Topopah Spring Member at Busted Butte (Terra Tek data).

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THERMAL CONDUCTIVITY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-01/23/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of Topopah Spring Member in UE-25a#1,
USW GU-3 and USW G-4 (Terra Tek data).

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THERMAL EXPANSION

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01B-02/01/78 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Preliminary unconfined thermal expansion screening data for
tuffs (SNL data).

DATA SET ID: 51/L01B-05/07/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Initial confined thermal expansion characterization of
drill hole UE-25a#1 and U12g-HH1-63 from G-Tunnel and
support of ongoing field tests (Terra Tek data).

DATA SET ID: 51/L01B-05/01/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of unconfined thermal expansion for drill
holes USW G-1, USW G-2, UE-25a#1, and G-Tunnel, to gain
knowledge of the expansion behavior of different tuff
lithologies (SNL data).

DATA SET ID: 51/L01B-06/24/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of confined thermal expansion behavior in
tuffs from USW G-1 (Terra Tek data).

DATA SET ID: 51/L01B-04/21/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of confined thermal expansion in support of
in situ tests at U12g-RM-P-1 from G-Tunnel and for USW G-2
samples (Terra Tek data).

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THERMAL EXPANSION [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01B-08/11/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the
Bullfrog Member in USW G-1 (Terra Tek data).

DATA SET ID: 51/L01B-10/07/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the
tuffaceous beds of Calico Hills in USW G-1 and USW G-2
(Terra Tek data).

DATA SET ID: 51/L01B-03/29/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the
tuffaceous beds of Calico Hills in USW G-2 (Terra Tek
data).

DATA SET ID: 51/L01B-07/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize zeolitic
tuff in U12g-SDH#3 from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L01B-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize tuff units
from UE-25b#1h, USW G-1, USW G-2, USW GU-3, and G-Tunnel
(Terra Tek data).

DATA SET ID: 51/L01B-12/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the
Topopah Spring Member in USW G-4 (Terra Tek data).

THERMAL EXPANSION [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01B-02/21/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the tuffaceous beds of Calico Hills in USW G-4 (Terra Tek data).

DATA SET ID: 51/L01B-03/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Evaluation of errors in thermal expansion testing/bondline compaction using USW G-1 and Busted Butte samples (Terra Tek data).

DATA SET ID: 51/L01B-08/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Lithophysal effects on confined thermal expansion of the Topopah Spring Member from Busted Butte (Terra Tek data).

DATA SET ID: 51/L01B-01/23/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the Topopah Spring Member in UE-25a#1, USW GU-3, and USW G-4 (Terra Tek data).

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HEAT CAPACITY

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01C-07/23/85 QA LEVEL: TBD STATUS: Cancelled

DESCRIPTION: Heat capacity measurements of Tuff units from Yucca
Mountain used to verify the accuracy of calculated heat
capacities and to quantify the heat absorbed or released in
reactions involving zeolites and clay rich tuffs.

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MECHANICAL PROPERTIES

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-03/01/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize tuffs from
UE-25a#1 and the Laser Drift in G-Tunnel (SNL data).

DATA SET ID: 51/L02-06/24/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize behavior of tuffs
from USW G-1 (Terra Tek data).

DATA SET ID: 51/L02-04/14/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive test data using
the Bullfrog Member in USW G-1 (Terra Tek and SNL data).

DATA SET ID: 51/L02-04/21/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of U12g-RM-P-1 from G-Tunnel in
support of in situ tests. (Terra Tek data).

DATA SET ID: 51/L02-06/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of the Bullfrog Member in USW G-1
(SNL data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-07/30/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive test data using the Bullfrog, Prow Pass, and Tram Members in USW G-1 (Terra Tek and SNL data).

DATA SET ID: 51/L02-10/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Calico Hills Member in USW G-1 (SNL data).

DATA SET ID: 51/L02-10/07/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the tuffaceous beds of Calico Hills in USW G-1 (Terra Tek data).

DATA SET ID: 51/L02-12/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Prow Pass and Tram Members in USW G-1 (SNL data).

DATA SET ID: 51/L02-12/16/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Prow Pass and Tram Members in USW G-1 (Terra Tek data).

DATA SET ID: 51/L02-01/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Examination of acoustic emissions during compression of welded tuff (SNL data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-03/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterization the Topopah Spring Member in USW G-1 (SNL data).

DATA SET ID: 51/L02-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize tuff units in USW GU-3 (Terra Tek data).

DATA SET ID: 51/L02-02/11/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of the Topopah Spring Member in USW GU-3 (SNL data).

DATA SET ID: 51/L02-06/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize the Topopah Spring Member in USW G-4 (SNL data).

DATA SET ID: 51/L02-06/02/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Cutting force determination using Busted Butte outcrop tuff for evaluation of mining machine requirements (SNL data).

DATA SET ID: 51/L02-07/29/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Busted Butte outcrop (Terra Tek, SNL, and RE/SPEC data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-10/12/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize the Topopah Spring Member in USW G-4 (Terra Tek data).

DATA SET ID: 51/L02-12/07/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Tensile and matrix compressive experiments of U12g-FH#2A from G-Tunnel in support of in situ tests (Terra Tek data).

DATA SET ID: 51/L02-02/24/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to determine the effect of sample size on mechanical properties of the Busted Butte Topopah Spring Member (SNL data).

DATA SET ID: 51/L02-03/30/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of the Topopah Spring Member in USW G-2 (Terra Tek data) and parameter effects on matrix compressive properties of the Topopah Spring Member at Busted Butte (RE/SPEC data).

DATA SET ID: 51/L02-04/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Effects of lithophysae on the matrix compressive properties of large diameter samples of the Topopah Spring Member at Busted Butte (SNL data).

DATA SET ID: 51/L02-06/04/84 QA LEVEL: TBD STATUS: Cancelled

DESCRIPTION: Creep testing of the Topopah Spring Member at Busted Butte (LANL data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-06/06/84 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Fracture normal and shear behavior experiments on samples of the Topopah Spring member at Busted Butte (SNL data).

DATA SET ID: 51/L02-12/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to determine parameter effects - temperature, pressure, strain rate, and saturation - on mechanical properties of the Topopah Spring Member at Busted Butte (SNL data).

DATA SET ID: 51/L02-05/01/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of matrix compressive properties of the welded Topopah Spring Member in UE-25a#1 (Terra Tek data).

DATA SET ID: 51/L02-06/26/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determinations of the effect of sample size on the matrix compressive properties of the welded Topopah Spring Member at Busted Butte (SNL data).

DATA SET ID: 51/L02-04/06/87 QA LEVEL: 1 STATUS: Ongoing

DESCRIPTION: Mechanical property data to analyze the response of Busted Butte Topopah Spring tuff to high temperatures and/or low strain rates per SNL NNWSI Project EP-0002 (NER data).

DATA SET ID: 51/L02-01/08/88 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Preliminary experiments designed to determine the best (accuracy, ease) technique for measuring tensile strength on samples of TSW2 during QA Level 1 testing per SNL NNWSI Project EP-0014 (SNL data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-02/19/88 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: These experiments will investigate triaxial and rotary shear techniques for obtaining fracture properties of the welded devitrified Topopah Spring Member of the Paint Brush Tuff per SNL NNWSI Project EP-0016 (SNL data).

DATA SET ID: 51/L02-02/26/88 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: The experiments will investigate the magnitude of the mechanical anisotropy in the Topopah Spring Member of the Paintbrush Tuff per SNL NNWSI Project EP-0015 (SNL data).

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PHYSICAL PROPERTIES

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-12/01/78 QA LEVEL: TBD STATUS: Completed
DESCRIPTION: Initial characterization of UE-25a#1 drill hole (H&N data).

DATA SET ID: 51/L03-05/07/79 QA LEVEL: TBD STATUS: Completed
DESCRIPTION: Physical property measurements from USW G-1, UE-25a#1, and
G-Tunnel samples performed during 1979 and 1980; data used
to support field experiments and laboratory thermal and
mechanical experiments (Terra Tek data).

DATA SET ID: 51/L03-08/01/80 QA LEVEL: TBD STATUS: Completed
DESCRIPTION: Characterization of Grouse Canyon Member of the Belted
Range Tuff Rock Mechanics Drift from G-Tunnel and
miscellaneous UE-25a#1 samples to determine where to site
rock mechanics field experiments (H&N and SNL data).

DATA SET ID: 51/L03-11/01/80 QA LEVEL: TBD STATUS: Completed
DESCRIPTION: Miscellaneous bulk density experiments (SNL data).

DATA SET ID: 51/L03-01/13/81 QA LEVEL: TBD STATUS: Completed
DESCRIPTION: Physical property measurements from USW G-1, USW G-2,
UE-25a#1, UE-25b#1h, USW VH-1, and U12g-RM-P-1 from
G-Tunnel during 1981 (Terra Tek data).

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PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-01/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization in support of thermal conductivity testing
of lithophysal Topopah Spring Member from Busted Butte
(SNL data).

DATA SET ID: 51/L03-01/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of grain density of Bentonite Clay as a
function of sample hydration (SNL data).

DATA SET ID: 51/L03-01/05/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Experimental comparison of water immersion and gas
intrusion pycnometer techniques for determining grain
density (SNL data).

DATA SET ID: 51/L03-01/06/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Support for mechanical testing on tuff samples from USW G-1
(Terra Tek data).

DATA SET ID: 51/L03-02/22/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of tuff units in USW G-1 (Terra Tek data).

DATA SET ID: 51/L03-04/06/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the Tiva Canyon Member outcrops at
Yucca Mountain in cooperation with USGS (Terra Tek data).

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PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-04/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW GU-3 stratigraphy and laboratory
comparison (H&N data).

DATA SET ID: 51/L03-05/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization/support of G-Tunnel heater tests using
U12g-SDH#1 and U12g-SDH#3 samples from G-Tunnel (Terra Tek
data).

DATA SET ID: 51/L03-05/27/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW GU-3 stratigraphy and laboratory
comparison (H&N data).

DATA SET ID: 51/L03-05/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of dry bulk densities and grain densities
used in support of hydrologic calculations and in porosity
and saturation calculations (PNL data).

DATA SET ID: 51/L03-06/21/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW GU-3 samples and laboratory
comparison (Terra Tek data).

DATA SET ID: 51/L03-07/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples of the Tiva Canyon, Topopah
Spring, and Calico Hills Members from an outcrop at Yucca
Mountain in cooperation with USGS (Terra Tek data).

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PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-07/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of zeolites and U12g-SDH#1 and U12g-SDH#3
Tuff from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L03-08/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of long-term ambient, vacuum, and pressure
generated saturation levels in USW G-1 samples in support
of analyses of hydrology experiments (SNL data).

DATA SET ID: 51/L03-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW G-1, USW G-2, USW GU-3, USW G-4,
UE-25b#1h, and G-Tunnel samples (Terra Tek data).

DATA SET ID: 51/L03-11/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW G-4 samples (H&N data).

DATA SET ID: 51/L03-01/27/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW G-4 stratigraphy and laboratory
comparison (Terra Tek and H&N data).

DATA SET ID: 51/L03-02/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of dry bulk and grain densities of USW G-4
samples (PNL data).

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PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-07/11/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization/support of mechanical testing on Topopah
Spring Member samples from Busted Butte (Terra Tek data).

DATA SET ID: 51/L03-02/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturation levels of USW G-2 and Busted
Butte samples in support of analysis of hydrology
experiments (SNL data).

DATA SET ID: 51/L03-04/17/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of tuff units from USW G-1 and G-Tunnel
(Terra Tek data).

DATA SET ID: 51/L03-08/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the lithophysal Topopah Spring Member
from Busted Butte (Terra Tek data).

DATA SET ID: 51/L03-09/17/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Dry bulk density measurments of USW G-4 samples in support
of analyses of hydrology experiments (SNL data).

DATA SET ID: 51/L03-10/15/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Grain density measurements of USW GU-3 and USW G-4 samples
in support of hydrologic property analysis, the data used
to determine porosities and saturations of samples
(SNL data).

PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-01/18/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of Topopah Spring Member tuff from drill
holes UE-25a#1, USW G-2, and USW G-4 (Terra Tek data).

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SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L04-05/15/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of UE-25a#1 and USW G-1 Samples
(UNM Data).

DATA SET ID: 51/L04-06/24/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Analysis of bedded tuffs in G-Tunnel to provide comparative
descriptions of petrology and mineralogy (UNM data).

DATA SET ID: 51/L04-10/15/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical and
thermal testing on tuff from drillholes USW G-1 and USW G-2
(LANL data).

DATA SET ID: 51/L04-03/29/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of thermal expansion and thermal
conductivity samples from USW G-2 (LANL data).

DATA SET ID: 51/L04-04/26/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of thermal and
mechanical tests from USW G-1 and USW G-2 (in conjunction
with the USGS).

MINERALOGY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L04-08/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: X-ray diffraction of the Bullfrog Member in USW G-1 and commercial zeolites (LANL data).

DATA SET ID: 51/L04-08/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical testing on tuff from USW G-1 and from Busted Butte (UNM data).

DATA SET ID: 51/L04-01/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of hydrologic properties testing on tuff from USW GU-3 and USW G-4 (UNM data).

DATA SET ID: 51/L04-02/09/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical testing on large-diameter lithophysal tuff from Busted Butte (UNM data).

DATA SET ID: 51/L04-02/13/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical testing on densely welded tuff from the Topopah Spring Member at Busted Butte (UNM data).

DATA SET ID: 51/L04-01/10/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of heat capacity measurements (X-ray, bulk chemical, and petrologic data) (UNM data).

MINERALOGY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L04-06/26/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of rock sample from drill hole RF-3 to determine rock type and origin for use in the interpretation of surface facility siting studies (UNM data).

DATA SET ID: 51/L04-02/21/86 QA LEVEL: 2 STATUS: Ongoing

DESCRIPTION: Petrographic x-ray characterization of samples for detailed analysis of porosity-strength and porosity-Young's Modulus relationships (UNM data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS

04/12/88

SATURATED PERMEABILITY

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L05-01/28/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Permeability measurements in support of the Tuff
Radionuclide Migration field experiment (SNL and Terra Tek
data).

DATA SET ID: 51/L05-05/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturated matrix permeability in support
of hydrologic calculations; data used for preliminary
estimation of hydrology of units above the water table
(PNL data).

DATA SET ID: 51/L05-02/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of fracture permeability as a function of
time and stress in support of other hydrologic experiment
design and analysis (SNL data).

DATA SET ID: 51/L05-02/22/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturated permeability using USW G-4
samples in support of hydrologic calculations, matrix
permeabilities needed in modeling efforts (PNL data).

DATA SET ID: 51/L05-08/04/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of matrix saturated conductivities and
fracture saturated permeabilities in support of hydrology
calculations (PNL data).

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SATURATED PERMEABILITY [CONTINUED]

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L05-11/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of matrix saturated permeability in support of hydrologic experiments and for equipment check and determination of fracture saturated permeability for initial scoping purposes (SNL data).

DATA SET ID: 51/L05-05/14/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of saturated hydraulic conductivities from USW G-1, USW G-4, and Busted Butte samples in support of hydrologic calculations and to determine permeability variation (PNL data).

DATA SET ID: 51/L05-09/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of gas permeability of saturated matrix in support of unsaturated flow calculations and determination of liquid permeability at different temperatures in support of near-field hydrologic calculations (SNL data).

DATA SET ID: 51/L05-10/31/84 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Determination of thermal dependence of fracture permeability in support of near-field hydrologic analyses and modeling; initial data (SNL data).

DATA SET ID: 51/L05-11/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturated permeabilities from USW G-1, USW GU-3, and USW G-4 samples in support of hydrologic property variability investigations (PNL data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

UNSATURATED GAS PERMEABILITY

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L06-04/16/87 QA LEVEL: 3 STATUS: Completed

DESCRIPTION: Air permeability & porosity determinations to perform first-pass evaluation of lateral spatial correlation structure (geostatistical sense). Samples collected from approx. same vertical position w/in Calico Hills tuffs (Core Labs data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

UNSATURATED WATER RETENTION CHARACTERISTICS (OF TUFF)

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L07-03/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of drying and imbibition characteristics of
tuff in support of unsaturated hydrologic analyses;
instrumentation check for initial hydrologic investigation
(SNL data).

DATA SET ID: 51/L07-05/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics from
USW GU-3 samples in support of hydrologic calculations for
initial investigation of hydrologic properties above the
water table (PNL data).

DATA SET ID: 51/L07-02/22/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics from
USW G-4 samples in support of unsaturated hydrologic
calculations. Resulting capillary pressure vs saturation
data used in modeling efforts (PNL data).

DATA SET ID: 51/L07-05/14/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics of tuff
matrix from USW G-1 and Busted Butte in support of
unsaturated hydrologic calculations and to investigate
experimental saturation procedures (PNL data).

UNSATURATED WATER RETENTION CHARACTERISTICS (OF TUFF) [CONTINUED]

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L07-11/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics from
USW G-1, USW GU-3, and USW G-4 in support of hydrologic
property variability investigations (PNL data).

DATA SET ID: 51/L07-12/04/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Investigation of water movement under both isothermal and
non-isothermal conditions in support of water migration
analyses, and computer code verification and validation
process per EP-0008 (SNL data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

PORE SIZE DISTRIBUTION

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L08-07/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Estimation of pore size distribution using EV-5 samples
from G-Tunnel in support of radionuclide transport
calculations (Micromeritics data).

DATA SET ID: 51/L08-10/20/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Estimation of pore size distribution for USW G-1 tuff
matrix structural characterization - initial investigation
of tuff matrix (Micromeritics data).

DATA SET ID: 51/L08-04/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Estimation of pore size distribution from USW G-4 in
support of unsaturated hydrologic property calculations
(Micromeritics data).

DATA SET ID: 51/L08-10/07/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of pore size distribution by mercury
porosimetry techniques in support of hydrologic property
analyses; comparison with saturation-pressure head data
from thermocouple psychrometer testing (Micromeritics
data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

SEAL MATERIAL EVALUATION

SNL CONTACT: J. A. Fernandez, 6314

DATA SET ID: 51/L09-04/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of properties and characterization of
constituents of concrete made using tuff as a coarse
aggregate to establish basic properties of tuff concrete
for use as a potential sealing component (WES data).

DATA SET ID: 51/L09-04/06/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of the mechanical properties of
concrete/mortar in G-Tunnel after exposure to nonwelded
tuff (WES data).

DATA SET ID: 51/L09-10/24/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Saturated matrix hydraulic conductivities and unsaturated
matrix water retention testing on grout and concrete
samples (PNL data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

BACKFILL PROPERTIES

SNL CONTACT: J. A. Fernandez, 6314

DATA SET ID: 51/L10-03/28/85 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Determination of the effect of fine-sized material on
hydraulic conductivity of crushed Busted Butte tuff
(WES data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

SURFACE SOIL PROPERTIES

SNL CONTACT: L. Shephard, 6313

DATA SET ID: 51/L11-05/13/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Evaluation of material properties for excavation and
foundation conditions using material from SFS-3 through
SFS-7 (H&N data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

GEOCHEMISTRY

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L12-05/02/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Geochemical analyses of water from elevated temperature permeability tests to assess chemical changes in water after flowing through tuff sample (UNM data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

RADIOMETRY

SNL CONTACT: S. Sinnock, 6315

DATA SET ID: 51/L13-03/19/79 QA LEVEL: TBD STATUS: Completed
DESCRIPTION: Potassium-argon age determinations for basalts in Crater
Flat, Nevada (Geochron Laboratories, University of
California Berkeley, and University of Arizona data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

THERMAL DEGRADATION OF TUFF

SNL CONTACT: S. Bauer, 6314

DATA SET ID: 51/L14-04/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of percent moisture content of USW G-2 samples
in support of near-field thermal degradation in Topopah
Spring Tuff (SNL data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

FRACTURE TOPOGRAPHY

SNL CONTACT: P. Kaplan, 6315

DATA SET ID: 51/L15-04/12/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of fracture geometry as it might influence
fluid flow and investigation of matrix hydrologic
properties for use in the computer code "TOUGH" (LBL data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

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SEAL MATERIAL STABILITY MEASUREMENTS

SNL CONTACT: T. Hinkebein, 6314

DATA SET ID: 51/L16-08/19/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of the mechanical, hydrologic, bulk, and
initial composition and mineralogical alterations of grout
at various temperatures and times, including tests using
densely welded Busted Butte tuff (PSU data).

DATA SET ID: 51/L16-11/27/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Analysis of old, cementitious-based materials (PSU data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

LABORATORY EXPERIMENTS
04/12/88

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FLOW PHENOMENA

SNL CONTACT: P. Kaplan, 6315

DATA SET ID: 51/L17-12/01/86 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Scoping experiments to illustrate the variability of
unsaturated flow phenomena (SNL data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS
04/12/88

GTUF GEOTECHNICAL MEASUREMENTS

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F01-02/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Ambient temperature borehole measurements in the Grouse
Canyon welded tuff at G-Tunnel to (1) establish baseline
reference data and (2) gain field testing experience in
welded tuff.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

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SMALL DIAMETER HEATER #1, 2, 3

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F02-04/12/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Heater experiments that measure temperature distributions
and monitor water migration phenomena in welded tuff and
nonwelded tuff in G-Tunnel. SDH#3 also monitored thermal
expansion in welded tuff. Data used to evaluate heat
transfer models.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

G-TUNNEL HEATED BLOCK

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F03-02/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Utilize excavation flatjack pressure changes, heat fluxes in stages of slot cutting, ambient temperature, & thermal cycle testing to evaluate coupled, thermomechanical, & hydrothermal behavior of an 8 cubic meter block of jointed welded tuff.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

G-TUNNEL PRESSURIZED SLOT

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F04-03/08/83 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Machine thin slots in welded tuff that can be used for direct pressure testing using flatjacks to measure surface stresses, mechanical deformation & evaluate strength properties. Data used in repository conceptual design.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS
04/12/88

=====

G-TUNNEL MINING EVALUATION

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F05-11/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Evaluate response of welded tuff to repository scale excavations for model evaluations; instrument placement and measurement techniques during mining activities; and mining & drift stabilizing techniques to serve as prototype for ES testing.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

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G-TUNNEL COREHOLE LOGS AND FRACTURE MAPPING

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F07-02/01/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Pre and post water migration test characterization of
Grouse Canyon tuff including fracture orientation of cores,
corehole and coreback logs (including discontinuities), and
maps of Rock Mechanics Drifts.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

WEAPONS TEST SEISMIC STUDIES

SNL CONTACT: C. Subramanian, 6311

DATA SET ID: 55/F08-06/30/66 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: This data set includes all seismic data generated from
selected UNES conducted at NTS having valid application to
the NNWSI Project during the period 06/30/66 to 12/23/86.

DATA SET ID: 55/F08-04/07/87 QA LEVEL: 1 STATUS: Completed

DESCRIPTION: This data set will include all seismic data generated from
selected UNES conducted at NTS which have valid application
to the NNWSI Project during the period 04/07/87 to 04/07/88
per EP-0004.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

SURFACE FACILITY SUBSURFACE BORINGS

SNL CONTACT: L. Shephard, 6313

DATA SET ID: 55/F09-01/04/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Subsurface borings are obtained to determine alluvial thickness and nature of alluvial/bedrock interface. Data are used for determining seismic suitability of surface (waste-handling) facilities.

DATA SET ID: 55/F09-06/11/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Borings used to establish subsurface geometry & material properties beneath the reference conceptual site for repository surface facilities & make recommendations regarding preliminary validation of the site with emphasis on seismic engineering.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

IN SITU TUFF WATER MIGRATION/HEATER EXPERIMENT

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 55/F10-02/14/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: This in situ experiment describes an initial assessment of
the water generation/migration response of tuff to a
thermal input.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

METEOROLOGY

SNL CONTACT: H. MacDougall, 6311

DATA SET ID: 55/F11-11/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Meteorological data at site YR (Yucca Ridge) in support of environmental, engineering design, and possible air quality assessment requirements.

DATA SET ID: 55/F11-11/02/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Meteorological data at site YA (Yucca Alluvial) in support of environmental, engineering design, and possible air quality assessment requirements.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

SURFACE FACILITIES, MAPPING

SNL CONTACT: L. Shephard, 6313

DATA SET ID: 55/F12-01/29/87 QA LEVEL: 1 STATUS: Ongoing

DESCRIPTION: Trench and surface mapping and sampling, age dating, and
analysis of fault-related features as per SNL EP-0001.
Data are applied to siting and design of repository
waste-handling facilities.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

PROTOTYPE THERMAL STRESS TESTING

SNL CONTACT: R. Zimmerman, 6313

DATA SET ID: 55/F13-05/15/87 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Measurements of stress, temperature, and displacements in
heater experiment located in the roof and side wall of the
Demonstration Drift in G-Tunnel per EP-0006.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS
04/12/88

CANISTER-SCALE HEATER EXPERIMENT

SNL CONTACT: R. Finley, 6313

DATA SET ID: 55/F14-02/19/87 QA LEVEL: 1 STATUS: Planned

DESCRIPTION: Canister-scale heater experiment to obtain thermal and thermomechanical rock mass measurements to document and evaluate the effects of thermal pulses on a representative emplacement hole.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

PROTOTYPE TESTING OF BLAST EFFECTS

SNL CONTACT: L. Shephard, 6313

DATA SET ID: 55/F17-07/20/87 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Characterization of the blast pulse associated with the excavation of a drift in welded tuff. Particle accelerations, velocities, and stress will be measured per EP-0011.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS

04/12/88

PROTOTYPE IN SITU STRESS TESTING/ASR

SNL CONTACT: R. Finley, 6313

DATA SET ID: 55/F18-10/01/87 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Anelastic Strain Recovery (ASR) technique will be performed
in G-Tunnel and compared to overcoring results to assess
the feasibility of using ASR at Yucca Mountain.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM

DATA CATALOG

FIELD EXPERIMENTS
04/12/88

ROCK MASS STRENGTH EXPERIMENT

SNL CONTACT: R. Finley, 6313

DATA SET ID: 55/F19-03/04/88 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: This experiment will be conducted in G-Tunnel, NTS, and will assess the feasibility of conducting large scale rock mass strength experiments in the ESF.

ATTACHMENT 3

SNL DEPARTMENT 6310 NNWSI MASTER LISTING OF CODING INDEXES
50 SERIES - DATA RECORDS MANAGEMENT SYSTEM

This system compiles all data and supporting documentation relating to the data acquisition or evaluation activities of SNL in support of the NNWSI. The system is based upon the preparation of Experiment and Equipment - Test Procedures for each data acquisition/evaluation activity. A detailed description of the Data Records Management System (DRMS) is available from B. Schwartz, 6313.

The following document types are included in the DRMS files:

Section #

- (1) Experiment and Equipment - Test Procedures
- (2) Sample Custody Records/Photographs
- (3) Data Index & Tracking Sheets
- (4) Correspondence
- (5) Sample and/or Site Preparation Records
- (6) Technical Procedures
- (7) Data
- (8) Calibration Records
- (9) Analysis of Results
- (10) Instrumentation/Data Acquisition Records
- (11) Quality Assurance Documents
- (12) Supporting Information
- (13) Reports

The Highest Quality Assurance Level of Data-Gathering activities in a Data Set are identified in the SNL NNWSI Project Data Catalog, published quarterly.

The coding format for the 50-Series is:

6310 5_/Type* (See Note)

Example: 6310 51-L14-2/24/84

*Types are: L01-L17, F01-F19, E(TBD) plus the remainder of the Data Set ID as listed in the SNL NNWSI Data Catalog, e.g., 51/L02-02/24/84. (See Barry Schwartz, 6313, for a copy of the catalog.)

NOTE: Q Levels and WBS numbers are to be assigned to the file code on closed data sets.

SNL NNWSI DEPARTMENT 6310 MASTER LISTING OF CODING INDEXES
50 SERIES - DATA RECORDS MANAGEMENT SYSTEM (DRMS)

	<u>DRMS Reference Index</u>
50/R01	Procedures
50/R02	Reports
50/R03	Sample Custody
50/R04	Analysis of Results
50/R05	Calibration Records
	<u>DRMS System Index</u>
50/S01	Data Catalogues
50/S02	DRMS Users Manual
50/S03	Document Transfer Sheets
50/S04	DRMS Operating Procedures (DOPs)
50/S05	Lithologic Logs
50/S06	Notebook-Logs
50/S07	Table of Contents of DRMS Computer Index
	<u>LABORATORY EXPERIMENTS</u>
51/L01A*	Thermal Conductivity
51/L01B*	Thermal Expansion
51/L01C*	Heat Capacity
51/L02*	Mechanical
51/L03*	Physical Properties
51/L04*	Mineralogy
51/L05*	Saturated Permeability
51/L06*	Unsaturated Permeability
51/L07*	Unsaturated Water Retention (of Tuff)
51/L08*	Pore Size Distribution
51/L09*	Seal Materials Evaluation
51/L10*	Backfill Properties
51/L11*	Surface Soil Properties
51/L12*	Geochemistry
51/L13*	Radiometry
51/L14*	Thermal Degradation of Tuff
51/L15*	Fracture Topography
51/L16*	Seal Material Stability Measurements
51/L17*	Flow Phenomena

*These alphanumeric will be followed by the remainder of the data set ID as listed in the SNL NNWSI Data Catalog issued by Barry Schwartz, 6313. An example of a DRMS data set ID is: 51/L02-02/24/84. Since WBS numbers are required for indexing of closed data sets, responsible staff must assign appropriate numbers during the closing process.

ATTACHMENT 3 (Concluded)

SNL NNWSI DEPARTMENT 6310 MASTER LISTING OF CODING INDEXES
50 SERIES - DATA RECORDS MANAGEMENT SYSTEM (DRMS)

FIELD EXPERIMENTS

55/F01*	GTUF Geotechnical Measurements
55/F02*	Small Diameter Heater Experiments #1, 2, and 3
55/F03*	G-Tunnel Heated Block Experiment
55/F04*	G-Tunnel Pressurized Slot Experiment
55/F05*	G-Tunnel Mining Evaluation
55/F06*	G-Tunnel Mechanical Strength Evaluations
55/F07*	G-Tunnel Corehole Logs and/or Fracture Mapping
55/F08*Δ	Weapons Test Seismic
55/F09*	Surface Facility Subsurface Borings
55/F10*	In-Situ Tuff Water Migration/Heater Experiment
55/F11*	Meteorology
55/F12*	Site Data for Surface Facility
55/F13*	Prototype Thermal Stress Experiment
55/F14*	Canister-Scale Heater Experiments
55/F15*	High-Pressure Flatjack Evaluation
55/F16*	Reserved for Future Use
55/F17*	Prototype Testing of Blast Effects
55/F18*	Prototype In-Situ Stress Testing/ASR
55/F19*	Rock Mass Strength Experiment

EQUIPMENT TESTS

57/E(TBD)

ΔData not maintained in the DRMS for security reasons.

*These first three alphanumeric will be followed by the remainder of the data set ID as listed in the SNL NNWSI Data Catalog issued by Barry Schwartz, 6313. An example of a DRMS data set ID is: 55/F03-2/1/82. Since WBS numbers are required for indexing of closed data sets, responsible staff must assign appropriate numbers during the closing process.

Sandia National Laboratories

Albuquerque, New Mexico 87185
JUL 15 1988

NNWSI. 880118. 0036

NNWSI PROJECT MILESTONE	
No.	<u>T-217</u>
Level	<u>2</u>
Date Completed	<u>JUL 15 1988</u>
Precursor for Level 1 Milestone	
No.	<u>None</u>
SNL	

Carl P. Gertz, Program Manager
Waste Management Project Office
U. S. Department of Energy
Nevada Operations Office
P. O. Box 98518
Las Vegas, NV 89193-8518

Subject: Transmittal of Data Catalog Per Milestone T-217

Dear Carl:

On April 13, 1988, we provided your office with the 13th quarterly update of the SNL NNWSI Project Data Catalog. The Data Catalog is used by the NRC in accordance with the site-specific agreement. The Data Catalog is a "pointer" to data sets located in the SNL NNWSI Project Data Records Management System (DRMS), which is part of the SNL NNWSI Project Local Records Center. The DRMS is the location where data are filed and can be accessed. Please note that when a DRMS Data Set has more than one data-gathering activity, the QA Level designation pertains to the activity with the highest QA Level. Data-gathering activities initiated before December 24, 1986, are given a QA Level of TBD (To Be Determined).

Attached is the quarterly update to the SNL NNWSI Project Data Catalog, due July 15, 1988. If you have questions regarding the Data Catalog, please contact me (844-9160), Tom Blejwas (846-0541), or Barry Schwartz (846-8268).

Sincerely,

Thomas O. Hunter, Manager
NNWSI Project Department 6310

BMSchwartz:6313:mb

Enclosure

SAIC/T&MSS

JUL 18 1988

CCF RECEIVED

Carl P. Gertz

-2-

JUL 15 1988

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WMPO L. P. Skousen
SAIC P. Merkley
6300 R. W. Lynch
6310 T. O. Hunter
6311 A. L. Stevens
6311 C. Mora
6312 F. W. Bingham
6313 T. E. Blejwas
6314 J. R. Tillerson
6315 T. O. Hunter, Actng.
6316 T. O. Hunter, Actng.
6316 S. E. Sharpton
6316 E. W. Shepherd
6316 M. A. Tang
6317 S. Sinnock
6310 10/1292/MLS/COR/NQ
6310 10/12911/NVO/COR/NQ

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WMPO J. Szymanski
SAIC M. Glora
6313 B. M. Schwartz (2)
(For Transmittal to 6310
DRMS 50/S01)
6310 NNWSICF

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM (DRMS)

DATA CATALOG

LABORATORY EXPERIMENTS
07/12/88

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THERMAL CONDUCTIVITY

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-07/24/78 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Thermal Conductivity of UE-25a#1 and G-Tunnel Samples
(H&N data).

DATA SET ID: 51/L01A-05/07/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Initial characterization of drillhole UE-25a#1 and
U12g-HH1-63 from G-Tunnel, and in support of ongoing field
tests (Terra Tek data).

DATA SET ID: 51/L01A-06/24/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of thermal conductivity behavior in tuffs
from USW G-1 (Terra Tek data).

DATA SET ID: 51/L01A-01/13/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the Bullfrog Member in USW G-1
(Terra Tek data).

DATA SET ID: 51/L01A-04/21/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Thermal conductivity using samples from U12g-RM-P-1 in
support of G-Tunnel in situ tests (Terra Tek data).

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THERMAL CONDUCTIVITY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-07/16/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of thermal conductivity behavior of the Pah Canyon and Topopah Spring Member from hole USW G-2 (Terra Tek data).

DATA SET ID: 51/L01A-10/07/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the tuffaceous beds of Calico Hills and of the Topopah Spring Member in USW G-1 and USW G-2 (Terra Tek data).

DATA SET ID: 51/L01A-02/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of the effect of composition, porosity, bedding plane orientation, water content, and the presence of a joint on thermal conductivity of tuff (SNL data).

DATA SET ID: 51/L01A-03/29/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the tuffaceous beds of Calico Hills in USW G-2 (Terra Tek data).

DATA SET ID: 51/L01A-05/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization/support for U12g-SDH#1 and U12g-SDH#3 heater tests from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L01A-05/17/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Comparative testing techniques examination (Terra Tek data).

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THERMAL CONDUCTIVITY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-07/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of pure zeolites (Terra Tek data).

DATA SET ID: 51/L01A-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of tuff units in UE-25b#1H, USW G-2, and USW GU-3, and of U12g-HB-MPBX from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L01A-12/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the Topopah Spring Member in USW G-4 (Terra Tek data).

DATA SET ID: 51/L01A-02/21/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the tuffaceous beds of Calico Hills in USW G-4 (Terra Tek data).

DATA SET ID: 51/L01A-03/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory quality and accuracy determination (Terra Tek data).

DATA SET ID: 51/L01A-08/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Effects of lithophysae on the thermal conductivity of the Topopah Spring Member at Busted Butte (Terra Tek data).

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THERMAL CONDUCTIVITY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-01/23/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of Topopah Spring Member in UE-25a#1,
USW GU-3 and USW G-4 (Terra Tek data).

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM (DRMS)

DATA CATALOG

LABORATORY EXPERIMENTS
07/12/88

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THERMAL EXPANSION

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01B-02/01/78 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Preliminary unconfined thermal expansion screening data for
tuffs (SNL data).

DATA SET ID: 51/L01B-05/07/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Initial confined thermal expansion characterization of
drill hole UE-25a#1 and U12g-HH1-63 from G-Tunnel and
support of ongoing field tests (Terra Tek data).

DATA SET ID: 51/L01B-05/01/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of unconfined thermal expansion for drill
holes USW G-1, USW G-2, UE-25a#1, and G-Tunnel, to gain
knowledge of the expansion behavior of different tuff
lithologies (SNL data).

DATA SET ID: 51/L01B-06/24/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of confined thermal expansion behavior in
tuffs from USW G-1 (Terra Tek data).

DATA SET ID: 51/L01B-04/21/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of confined thermal expansion in support of
in situ tests at U12g-RM-P-1 from G-Tunnel and for USW G-2
samples (Terra Tek data).

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THERMAL EXPANSION [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01B-08/11/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the
Bullfrog Member in USW G-1 (Terra Tek data).

DATA SET ID: 51/L01B-10/07/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the
tuffaceous beds of Calico Hills in USW G-1 and USW G-2
(Terra Tek data).

DATA SET ID: 51/L01B-03/29/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the
tuffaceous beds of Calico Hills in USW G-2 (Terra Tek
data).

DATA SET ID: 51/L01B-07/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize zeolitic
tuff in U12g-SDH#3 from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L01B-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize tuff units
from UE-25b#1h, USW G-1, USW G-2, USW GU-3, and G-Tunnel
(Terra Tek data).

DATA SET ID: 51/L01B-12/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the
Topopah Spring Member in USW G-4 (Terra Tek data).

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THERMAL EXPANSION [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01B-02/21/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the
tuffaceous beds of Calico Hills in USW G-4 (Terra Tek
data).

DATA SET ID: 51/L01B-03/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Evaluation of errors in thermal expansion testing/bondline
compaction using USW G-1 and Busted Butte samples
(Terra Tek data).

DATA SET ID: 51/L01B-08/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Lithophysal effects on confined thermal expansion of the
Topopah Spring Member from Busted Butte (Terra Tek data).

DATA SET ID: 51/L01B-01/23/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the
Topopah Spring Member in UE-25a#1, USW GU-3, and USW G-4
(Terra Tek data).

SANDIA NATIONAL LABORATORIES (SNL)
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DATA CATALOG

LABORATORY EXPERIMENTS
07/12/88

HEAT CAPACITY

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01C-07/23/85 QA LEVEL: TBD STATUS: Cancelled

DESCRIPTION: Heat capacity measurements of Tuff units from Yucca
Mountain used to verify the accuracy of calculated heat
capacities and to quantify the heat absorbed or released in
reactions involving zeolites and clay rich tuffs.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM (DRMS)

DATA CATALOG

LABORATORY EXPERIMENTS
07/12/88

MECHANICAL PROPERTIES

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-03/01/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize tuffs from
UE-25a#1 and the Laser Drift in G-Tunnel (SNL data).

DATA SET ID: 51/L02-06/24/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize behavior of tuffs
from USW G-1 (Terra Tek data).

DATA SET ID: 51/L02-04/14/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive test data using
the Bullfrog Member in USW G-1 (Terra Tek and SNL data).

DATA SET ID: 51/L02-04/21/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of U12g-RM-P-1 from G-Tunnel in
support of in situ tests (Terra Tek data).

DATA SET ID: 51/L02-06/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of the Bullfrog Member in USW G-1
(SNL data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-07/30/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive test data using the Bullfrog, Prow Pass, and Tram Members in USW G-1 (Terra Tek and SNL data).

DATA SET ID: 51/L02-10/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Calico Hills Member in USW G-1 (SNL data).

DATA SET ID: 51/L02-10/07/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the tuffaceous beds of Calico Hills in USW G-1 (Terra Tek data).

DATA SET ID: 51/L02-12/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Prow Pass and Tram Members in USW G-1 (SNL data).

DATA SET ID: 51/L02-12/16/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Prow Pass and Tram Members in USW G-1 (Terra Tek data).

DATA SET ID: 51/L02-01/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Examination of acoustic emissions during compression of welded tuff (SNL data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-03/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterization the Topopah Spring Member in USW G-1 (SNL data).

DATA SET ID: 51/L02-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize tuff units in USW GU-3 (Terra Tek data).

DATA SET ID: 51/L02-02/11/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of the Topopah Spring Member in USW GU-3 (SNL data).

DATA SET ID: 51/L02-06/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize the Topopah Spring Member in USW G-4 (SNL data).

DATA SET ID: 51/L02-06/02/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Cutting force determination using Busted Butte outcrop tuff for evaluation of mining machine requirements (SNL data).

DATA SET ID: 51/L02-07/29/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Busted Butte outcrop (Terra Tek, SNL, and RE/SPEC data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-10/12/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize the Topopah Spring Member in USW G-4 (Terra Tek data).

DATA SET ID: 51/L02-12/07/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Tensile and matrix compressive experiments of U12g-FH#2A from G-Tunnel in support of in situ tests (Terra Tek data).

DATA SET ID: 51/L02-02/24/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to determine the effect of sample size on mechanical properties of the Busted Butte Topopah Spring Member (SNL data).

DATA SET ID: 51/L02-03/30/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of the Topopah Spring Member in USW G-2 (Terra Tek data) and parameter effects on matrix compressive properties of the Topopah Spring Member at Busted Butte (RE/SPEC data).

DATA SET ID: 51/L02-04/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Effects of lithophysae on the matrix compressive properties of large diameter samples of the Topopah Spring Member at Busted Butte (SNL data).

DATA SET ID: 51/L02-06/04/84 QA LEVEL: TBD STATUS: Cancelled

DESCRIPTION: Creep testing of the Topopah Spring Member at Busted Butte (LANL data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-06/06/84 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Fracture normal and shear behavior experiments on samples of the Topopah Spring member at Busted Butte (SNL data).

DATA SET ID: 51/L02-12/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to determine parameter effects - temperature, pressure, strain rate, and saturation - on mechanical properties of the Topopah Spring Member at Busted Butte (SNL data).

DATA SET ID: 51/L02-05/01/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of matrix compressive properties of the welded Topopah Spring Member in UE-25a#1 (Terra Tek data).

DATA SET ID: 51/L02-06/26/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determinations of the effect of sample size on the matrix compressive properties of the welded Topopah Spring Member at Busted Butte (SNL data).

DATA SET ID: 51/L02-04/06/87 QA LEVEL: 1 STATUS: Ongoing

DESCRIPTION: Mechanical property data to analyze the response of Busted Butte Topopah Spring tuff to high temperatures and/or low strain rates per SNL NNWSI Project EP-0002 (NER data).

DATA SET ID: 51/L02-01/08/88 QA LEVEL: 3 STATUS: Ongoing

DESCRIPTION: Preliminary experiments designed to determine the best (accuracy, ease) technique for measuring tensile strength on samples of TSW2 during QA Level 1 testing per SNL NNWSI Project EP-0014 (SNL data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-02/19/88 QA LEVEL: 3 STATUS: Ongoing

DESCRIPTION: These experiments will investigate triaxial and rotary shear techniques for obtaining fracture properties of the welded devitrified Topopah Spring Member of the Paintbrush Tuff per SNL NNWSI Project EP-0016 (SNL data).

DATA SET ID: 51/L02-02/26/88 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: The experiments will investigate the magnitude of the mechanical anisotropy in the Topopah Spring Member of the Paintbrush Tuff per SNL NNWSI Project EP-0015 (SNL data).

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DATA CATALOG

LABORATORY EXPERIMENTS
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PHYSICAL PROPERTIES

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-12/01/78 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Initial characterization of UE-25a#1 drill hole (H&N data).

DATA SET ID: 51/L03-05/07/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Physical property measurements from USW G-1, UE-25a#1, and
G-Tunnel samples performed during 1979 and 1980; data used
to support field experiments and laboratory thermal and
mechanical experiments (Terra Tek data).

DATA SET ID: 51/L03-08/01/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of Grouse Canyon Member of the Belted
Range Tuff Rock Mechanics Drift from G-Tunnel and
miscellaneous UE-25a#1 samples to determine where to site
rock mechanics field experiments (H&N and SNL data).

DATA SET ID: 51/L03-11/01/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Miscellaneous bulk density experiments (SNL data).

DATA SET ID: 51/L03-01/13/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Physical property measurements from USW G-1, USW G-2,
UE-25a#1, UE-25b#1h, USW VH-1, and U12g-RM-P-1 from
G-Tunnel during 1981 (Terra Tek data).

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PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-01/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization in support of thermal conductivity testing
of lithophysal outcrops near Yucca Mountain (SNL data).

DATA SET ID: 51/L03-01/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of grain density of Bentonite Clay as a
function of sample hydration (SNL data).

DATA SET ID: 51/L03-01/05/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Experimental comparison of water immersion and gas
intrusion pycnometer techniques for determining grain
density (SNL data).

DATA SET ID: 51/L03-01/06/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Support for mechanical testing on tuff samples from USW G-1
(Terra Tek data).

DATA SET ID: 51/L03-02/22/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of tuff units in USW G-1 (Terra Tek data).

DATA SET ID: 51/L03-04/06/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the Tiva Canyon Member outcrops at
Yucca Mountain in cooperation with USGS (Terra Tek data).

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PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-04/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW GU-3 stratigraphy and laboratory
comparison (H&N data).

DATA SET ID: 51/L03-05/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization/support of G-Tunnel heater tests using
U12g-SDH#1 and U12g-SDH#3 samples from G-Tunnel (Terra Tek
data).

DATA SET ID: 51/L03-05/27/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW GU-3 stratigraphy and laboratory
comparison (H&N data).

DATA SET ID: 51/L03-05/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of dry bulk densities and grain densities
used in support of hydrologic calculations and in porosity
and saturation calculations (PNL data).

DATA SET ID: 51/L03-06/21/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW GU-3 samples and laboratory
comparison (Terra Tek data).

DATA SET ID: 51/L03-07/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples of the Tiva Canyon, Topopah
Spring, and Calico Hills Members from an outcrop at Yucca
Mountain in cooperation with USGS (Terra Tek data).

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PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-07/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of zeolites and U12g-SDH#1 and U12g-SDH#3
Tuff from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L03-08/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of long-term ambient, vacuum, and pressure
generated saturation levels in USW G-1 samples in support
of analyses of hydrology experiments (SNL data).

DATA SET ID: 51/L03-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW G-1, USW G-2, USW GU-3, USW G-4,
UE-25b#1h, and G-Tunnel samples (Terra Tek data).

DATA SET ID: 51/L03-11/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW G-4 samples (H&N data).

DATA SET ID: 51/L03-01/27/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW G-4 stratigraphy and laboratory
comparison (Terra Tek and H&N data).

DATA SET ID: 51/L03-02/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of dry bulk and grain densities of USW G-4
samples (PNL data).

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PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-07/11/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization/support of mechanical testing on Topopah Spring Member samples from Busted Butte (Terra Tek data).

DATA SET ID: 51/L03-02/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturation levels of USW G-2 and Busted Butte samples in support of analysis of hydrology experiments (SNL data).

DATA SET ID: 51/L03-04/17/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of tuff units from USW G-1 and G-Tunnel (Terra Tek data).

DATA SET ID: 51/L03-08/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the lithophysal Topopah Spring Member from Busted Butte (Terra Tek data).

DATA SET ID: 51/L03-09/17/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Dry bulk density measurements of USW G-4 samples in support of analyses of hydrology experiments (SNL data).

DATA SET ID: 51/L03-10/15/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Grain density measurements of USW GU-3 and USW G-4 samples in support of hydrologic property analysis, the data used to determine porosities and saturations of samples (SNL data).

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PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-01/18/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of Topopah Spring Member tuff from drill
holes UE-25a#1, USW G-2, and USW G-4 (Terra Tek data).

DATA SET ID: 51/L03-05/02/88 QA LEVEL: 3 STATUS: Ongoing

DESCRIPTION: Determination of grain and bulk density and porosity of
post-test mechanical samples for establishing significant
parameters in correlation with mechanical properties per
EP-0010 (SNL data). 51/L04-02/21/86 contains corresponding
minerology data.

SANDIA NATIONAL LABORATORIES (SNL)
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MINERALOGY

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L04-05/15/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of UE-25a#1 and USW G-1 Samples
(UNM Data).

DATA SET ID: 51/L04-06/24/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Analysis of bedded tuffs in G-Tunnel to provide comparative
descriptions of petrology and mineralogy (UNM data).

DATA SET ID: 51/L04-10/15/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical and
thermal testing on tuff from drillholes USW G-1 and USW G-2
(LANL data).

DATA SET ID: 51/L04-03/29/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of thermal expansion and thermal
conductivity samples from USW G-2 (LANL data).

DATA SET ID: 51/L04-04/26/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of thermal and
mechanical tests from USW G-1 and USW G-2 (in conjunction
with the USGS).

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MINERALOGY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L04-08/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: X-ray diffraction of the Bullfrog Member in USW G-1 and
commercial zeolites (LANL data).

DATA SET ID: 51/L04-08/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical
testing on tuff from USW G-1 and from Busted Butte
(UNM data).

DATA SET ID: 51/L04-01/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of hydrologic
properties testing on tuff from USW GU-3 and USW G-4
(UNM data).

DATA SET ID: 51/L04-02/09/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical
testing on large-diameter lithophysal tuff from Busted
Butte (UNM data).

DATA SET ID: 51/L04-02/13/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical
testing on densely welded tuff from the Topopah Spring
Member at Busted Butte (UNM data).

DATA SET ID: 51/L04-01/10/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of heat capacity
measurements (X-ray, bulk chemical, and petrologic data)
(UNM data).

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MINERALOGY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L04-06/26/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of rock sample from drill hole RF-3 to determine rock type and origin for use in the interpretation of surface facility siting studies (UNM data).

DATA SET ID: 51/L04-02/21/86 QA LEVEL: 2 STATUS: Ongoing

DESCRIPTION: Petrographic x-ray characterization of samples for detailed analysis of porosity-strength and porosity-Young's Modulus relationships per SNL NNWSI Project EP-0007 (UNM data).

SANDIA NATIONAL LABORATORIES (SNL)
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SATURATED PERMEABILITY

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L05-01/28/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Permeability measurements in support of the Tuff
Radionuclide Migration field experiment (SNL and Terra Tek
data).

DATA SET ID: 51/L05-05/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturated matrix permeability in support
of hydrologic calculations; data used for preliminary
estimation of hydrology of units above the water table
(PNL data).

DATA SET ID: 51/L05-02/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of fracture permeability as a function of
time and stress in support of other hydrologic experiment
design and analysis (SNL data).

DATA SET ID: 51/L05-02/22/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturated permeability using USW G-4
samples in support of hydrologic calculations, matrix
permeabilities needed in modeling efforts (PNL data).

DATA SET ID: 51/L05-08/04/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of matrix saturated conductivities and
fracture saturated permeabilities in support of hydrology
calculations (PNL data).

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SATURATED PERMEABILITY [CONTINUED]

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L05-11/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of matrix saturated permeability in support of hydrologic experiments and for equipment check and determination of fracture saturated permeability for initial scoping purposes (SNL data).

DATA SET ID: 51/L05-05/14/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of saturated hydraulic conductivities from USW G-1, USW G-4, and Busted Butte samples in support of hydrologic calculations and to determine permeability variation (PNL data).

DATA SET ID: 51/L05-09/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of gas permeability of saturated matrix in support of unsaturated flow calculations and determination of liquid permeability at different temperatures in support of near-field hydrologic calculations (SNL data).

DATA SET ID: 51/L05-10/31/84 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Determination of thermal dependence of fracture permeability in support of near-field hydrologic analyses and modeling; initial data (SNL data).

DATA SET ID: 51/L05-11/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturated permeabilities from USW G-1, USW GU-3, and USW G-4 samples in support of hydrologic property variability investigations (PNL data).

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UNSATURATED GAS PERMEABILITY

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L06-04/16/87 QA LEVEL: 3 STATUS: Completed

DESCRIPTION: Air permeability & porosity determinations to perform first-pass evaluation of lateral spatial correlation structure (geostatistical sense). Samples collected from approx. same vertical position w/in Calico Hills tuffs (Core Labs data).

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UNSATURATED WATER RETENTION CHARACTERISTICS (OF TUFF)

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L07-03/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of drying and imbibition characteristics of
tuff in support of unsaturated hydrologic analyses;
instrumentation check for initial hydrologic investigation
(SNL data).

DATA SET ID: 51/L07-05/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics from
USW GU-3 samples in support of hydrologic calculations for
initial investigation of hydrologic properties above the
water table (PNL data).

DATA SET ID: 51/L07-02/22/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics from
USW G-4 samples in support of unsaturated hydrologic
calculations. Resulting capillary pressure vs saturation
data used in modeling efforts (PNL data).

DATA SET ID: 51/L07-05/14/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics of tuff
matrix from USW G-1 and Busted Butte in support of
unsaturated hydrologic calculations and to investigate
experimental saturation procedures (PNL data).

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UNSATURATED WATER RETENTION CHARACTERISTICS (OF TUFF) [CONTINUED]

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L07-11/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics from
USW G-1, USW GU-3, and USW G-4 in support of hydrologic
property variability investigations (PNL data).

DATA SET ID: 51/L07-12/04/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Investigation of water movement under both isothermal and
non-isothermal conditions in support of water migration
analyses, and computer code verification and validation
process per EP-0008 (SNL data).

SANDIA NATIONAL LABORATORIES (SNL)
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PORE SIZE DISTRIBUTION

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L08-07/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Estimation of pore size distribution using EV-5 samples from G-Tunnel in support of radionuclide transport calculations (Micromeritics data).

DATA SET ID: 51/L08-10/20/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Estimation of pore size distribution for USW G-1 tuff matrix structural characterization - initial investigation of tuff matrix (Micromeritics data).

DATA SET ID: 51/L08-04/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Estimation of pore size distribution from USW G-4 in support of unsaturated hydrologic property calculations (Micromeritics data).

DATA SET ID: 51/L08-10/07/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of pore size distribution by mercury porosimetry techniques in support of hydrologic property analyses; comparison with saturation-pressure head data from thermocouple psychrometer testing (Micromeritics data).

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LABORATORY EXPERIMENTS
07/12/88

SEAL MATERIAL EVALUATION

SNL CONTACT: J. A. Fernandez, 6314

DATA SET ID: 51/L09-04/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of properties and characterization of
constituents of concrete made using tuff as a coarse
aggregate to establish basic properties of tuff concrete
for use as a potential sealing component (WES data).

DATA SET ID: 51/L09-04/06/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of the mechanical properties of
concrete/mortar in G-Tunnel after exposure to nonwelded
tuff (WES data).

DATA SET ID: 51/L09-10/24/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Saturated matrix hydraulic conductivities and unsaturated
matrix water retention testing on grout and concrete
samples (PNL data).

SANDIA NATIONAL LABORATORIES (SNL)
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LABORATORY EXPERIMENTS
07/12/88

BACKFILL PROPERTIES

SNL CONTACT: J. A. Fernández, 6314

DATA SET ID: 51/L10-03/28/85 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Determination of the effect of fine-sized material on
hydraulic conductivity of crushed Busted Butte tuff
(WES data).

SANDIA NATIONAL LABORATORIES (SNL)
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SURFACE SOIL PROPERTIES

SNL CONTACT: L. Shephard, 6313

DATA SET ID: 51/L11-05/13/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Evaluation of material properties for excavation and
foundation conditions using material from SFS-3 through
SFS-7 (H&N data).

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GEOCHEMISTRY

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L12-05/02/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Geochemical analyses of water from elevated temperature permeability tests to assess chemical changes in water after flowing through tuff sample (UNM data).

SANDIA NATIONAL LABORATORIES (SNL)
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RADIOMETRY

SNL CONTACT: S. Sinnock, 6317

DATA SET ID:	51/L13-03/19/79	QA LEVEL: TBD	STATUS: Completed
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DESCRIPTION: Potassium-argon age determinations for basalts in Crater Flat, Nevada (Geochron Laboratories, University of California Berkeley, and University of Arizona data).

SANDIA NATIONAL LABORATORIES (SNL)
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07/12/88

THERMAL DEGRADATION OF TUFF

SNL CONTACT: S. Bauer, 6314

DATA SET ID: 51/L14-04/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of percent moisture content of USW G-2 samples
in support of near-field thermal degradation in Topopah
Spring Tuff (SNL data).

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LABORATORY EXPERIMENTS
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FRACTURE TOPOGRAPHY

SNL CONTACT: P. Kaplan, 6312

DATA SET ID: 51/L15-04/12/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of fracture geometry as it might influence
fluid flow and investigation of matrix hydrologic
properties for use in the computer code "TOUGH" (LBL data).

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SEAL MATERIAL STABILITY MEASUREMENTS

SNL CONTACT: T. Hinkebein, 6314

DATA SET ID: 51/L16-08/19/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of the mechanical, hydrologic, bulk, and
initial composition and mineralogical alterations of grout
at various temperatures and times, including tests using
densely welded Busted Butte tuff (PSU data).

DATA SET ID: 51/L16-11/27/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Analysis of old, cementitious-based materials (PSU data).

SANDIA NATIONAL LABORATORIES (SNL)
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LABORATORY EXPERIMENTS
07/12/88

FLOW PHENOMENA

SNL CONTACT: P. Kaplan, 6312

DATA SET ID: 51/L17-12/01/86 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Scoping experiments to illustrate the variability of
unsaturated flow phenomena (SNL data).

SANDIA NATIONAL LABORATORIES (SNL)
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FIELD EXPERIMENTS
07/12/88

GTUF GEOTECHNICAL MEASUREMENTS

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F01-02/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Ambient temperature borehole measurements in the Grouse Canyon welded tuff at G-Tunnel to (1) establish baseline reference data and (2) gain field testing experience in welded tuff.

SANDIA NATIONAL LABORATORIES (SNL)
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FIELD EXPERIMENTS
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SMALL DIAMETER HEATER #1, 2, 3

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F02-04/12/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Heater experiments that measure temperature distributions
and monitor water migration phenomena in welded tuff and
nonwelded tuff in G-Tunnel. SDH#3 also monitored thermal
expansion in welded tuff. Data used to evaluate heat
transfer models.

SANDIA NATIONAL LABORATORIES (SNL)
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FIELD EXPERIMENTS

07/12/88

G-TUNNEL HEATED BLOCK

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F03-02/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Utilize excavation flatjack pressure changes, heat fluxes in stages of slot cutting, ambient temperature, & thermal cycle testing to evaluate coupled, thermomechanical, & hydrothermal behavior of an 8 cubic meter block of jointed welded tuff.

SANDIA NATIONAL LABORATORIES (SNL)
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G-TUNNEL PRESSURIZED SLOT

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F04-03/08/83 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Machine thin slots in welded tuff that can be used for direct pressure testing using flatjacks to measure surface stresses, mechanical deformation & evaluate strength properties. Data used in repository conceptual design.

SANDIA NATIONAL LABORATORIES (SNL)
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FIELD EXPERIMENTS

07/12/88

G-TUNNEL MINING EVALUATION

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F05-11/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Evaluate response of welded tuff to repository scale excavations for model evaluations; instrument placement and measurement techniques during mining activities; and mining & drift stabilizing techniques to serve as prototype for ES testing.

SANDIA NATIONAL LABORATORIES (SNL)
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G-TUNNEL COREHOLE LOGS AND FRACTURE MAPPING

SNL CONTACT: R. M. Zimmerman, 6313

DATA SET ID: 55/F07-02/01/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Pre and post water migration test characterization of
Grouse Canyon tuff including fracture orientation of cores,
corehole and coreback logs (including discontinuities), and
maps of Rock Mechanics Drifts.

SANDIA NATIONAL LABORATORIES (SNL)
NNWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM (DRMS)

DATA CATALOG

FIELD EXPERIMENTS
07/12/88

WEAPONS TEST SEISMIC STUDIES

SNL CONTACT: C. Subramanian, 6311

DATA SET ID: 55/F08-06/30/66 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: This data set includes all seismic data generated from
selected UNES conducted at NTS having valid application to
the NNWSI Project during the period 06/30/66 to 12/23/86.

DATA SET ID: 55/F08-04/07/87 QA LEVEL: 1 STATUS: Completed

DESCRIPTION: This data set includes all seismic data generated from
selected UNES conducted at NTS which have valid application
to the NNWSI Project during the period 04/07/87 to 04/07/88
per EP-0004.

DATA SET ID: 55/F08-04/08/88 QA LEVEL: 1 STATUS: Ongoing

DESCRIPTION: This data set will include all seismic data generated from
selected UNES conducted at NTS which have valid application
to the NNWSI Project during the period 04/08/88 to 04/08/89
per EP-0004.

SANDIA NATIONAL LABORATORIES (SNL)
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FIELD EXPERIMENTS
07/12/88

SURFACE FACILITY SUBSURFACE BORINGS

SNL CONTACT: L. Shephard, 6313

DATA SET ID: 55/F09-01/04/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Subsurface borings are obtained to determine alluvial thickness and nature of alluvial/bedrock interface. Data are used for determining seismic suitability of surface (waste-handling) facilities.

DATA SET ID: 55/F09-06/11/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Borings used to establish subsurface geometry & material properties beneath the reference conceptual site for repository surface facilities & make recommendations regarding preliminary validation of the site with emphasis on seismic engineering.

SANDIA NATIONAL LABORATORIES (SNL)
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IN SITU TUFF WATER MIGRATION/HEATER EXPERIMENT

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 55/F10-02/14/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: This in situ experiment describes an initial assessment of
the water generation/migration response of tuff to a
thermal input.

SANDIA NATIONAL LABORATORIES (SNL)
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07/12/88

METEOROLOGY

SNL CONTACT: H. MacDougall, 6311

DATA SET ID: 55/F11-11/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Meteorological data at site YR (Yucca Ridge) and site YA
(Yucca Alluvial) in support of environmental, engineering
design, and possible air quality assessment requirements.

SANDIA NATIONAL LABORATORIES (SNL)
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FIELD EXPERIMENTS
07/12/88

SURFACE FACILITIES, MAPPING

SNL CONTACT: L. Shephard, 6313

DATA SET ID: 55/F12-01/29/87 QA LEVEL: 1 STATUS: Ongoing

DESCRIPTION: Trench and surface mapping and sampling, age dating, and
analysis of fault-related features as per SNL EP-0001.
Data are applied to siting and design of repository
waste-handling facilities.

SANDIA NATIONAL LABORATORIES (SNL)
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FIELD EXPERIMENTS
07/12/88

PROTOTYPE THERMAL STRESS TESTING

SNL CONTACT: R. Zimmerman, 6313

DATA SET ID: 55/F13-05/15/87 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Measurements of stress, temperature, and displacements in
heater experiment located in the roof and side wall of the
Demonstration Drift in G-Tunnel per EP-0006.

SANDIA NATIONAL LABORATORIES (SNL)
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07/12/88

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CANISTER-SCALE HEATER EXPERIMENT

SNL CONTACT: R. Finley, 6313

DATA SET ID: 55/F14-02/19/87 QA LEVEL: 1 STATUS: Planned

DESCRIPTION: Canister-scale heater experiment to obtain thermal and thermomechanical rock mass measurements to document and evaluate the effects of thermal pulses on a representative emplacement hole per EP-0009.

SANDIA NATIONAL LABORATORIES (SNL)
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PROTOTYPE TESTING OF BLAST EFFECTS

SNL CONTACT: L. Shephard, 6313

DATA SET ID: 55/F17-07/20/87 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Characterization of the blast pulse associated with the excavation of a drift in welded tuff. Particle accelerations, velocities, and stress will be measured per EP-0011.

SANDIA NATIONAL LABORATORIES (SNL)
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PROTOTYPE IN SITU STRESS TESTING/ASR

SNL CONTACT: R. Finley, 6313

DATA SET ID: 55/F18-10/01/87 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Anelastic Strain Recovery (ASR) technique will be performed
in G-Tunnel and compared to overcoring results to assess
the feasibility of using ASR at Yucca Mountain per EP-0013.

SANDIA NATIONAL LABORATORIES (SNL)
NWSI PROJECT DATA RECORDS MANAGEMENT SYSTEM (DRMS)

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FIELD EXPERIMENTS
07/12/88

ROCK MASS STRENGTH EXPERIMENT

SNL CONTACT: R. Finley, 6313

DATA SET ID: 55/F19-03/04/88 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: This experiment will be conducted in G-Tunnel, NTS, and
will assess the feasibility of conducting large scale rock
mass strength experiments in the ESF.
