

6107294

August 20, 1975

Terratek *Logan*

J. F. KUNZE

AUG 22 1975

Dr. Jay Kunze
Aerojet Nuclear Company
550 Second Street
Idaho Falls, Idaho 83401

Action	Info

Dear Jay,

The following summarizes the test performed on the sample left at the Salt Lake City Airport last Tuesday evening, August 12. Core identification was RRGE #2, taken from about 4,372 feet. The sample taken from this rock was cored in the horizontal direction and did not intersect the crack present (this crack was not obvious until we started coring). The following summarizes the experimental results:

Axial Pressure	3265 psi	5025 psi
Lateral Pressure	3265 psi	3265 psi
Pore Pressure	1945 psi	1945 psi
Temperature	200° F	200° F
Measured Permeability	2.2 microdarcies	2.2 microdarcies

(.0022 millidarcies)

Note that when we increased the axial load (the radial direction for the core) there was no change in permeability. This has been previously observed for low differential axial loads (i.e., prior to the initiation of dilation).

Both tests were performed on a 3/4 inch diameter by 1 3/8 inch long specimen. Test conditions and tolerances are as noted in my previous letter dated June 3, 1975 with the exception the pore fluid was nitrogen.

If you have any questions regarding this test, please feel free to contact either of the undersigned.

Sincerely,

A. H. Jones

A. H. Jones
Vice President

Randy R. Nielsen

Randy R. Nielsen
Research Engineer

AHJ/jt