

GEOHERMAL BRANCH

INTER-OFFICE MEMORANDUM

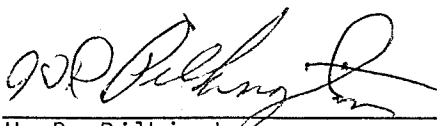
SUBJECT: Review of 864-54 Thermal Gradient Calculation DATE: Feb. 11, 1981
cc: A. L. Lange

TO: J. E. Deymonaz

FROM: H. D. Pilkington

After examining the thermal gradient data from the recently released Southland Royalty hole along Shoshone Creek (864-58), I decided to review 864-54. It would appear that convection around the PVC may have considerably altered the temperatures in the upper 15 meters. Therefore, if we calculate a gradient based upon BHT (16.2) and MA (13.00) then we get a gradient of 110°C/km.

Then considering that the Triassic limestone is thoroughly fractured, a thermal conductivity of 6.5 to 6.8 would give heatflow values comparable to hole 864-58.



H. D. Pilkington

HDP/c