

GEOTHERMAL BRANCH

INTER-OFFICE MEMORANDUM

SUBJECT: Thermal Conductivity Measurements - Deeth Area, NV DATE: December 15, 1980

TO: J. E. Deymonaz

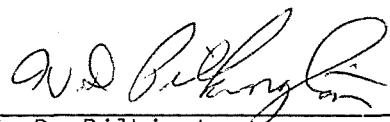
FROM: H. D. Pilkington

The following thermal conductivity measurements have been received from Microgeophysics for the cuttings of phase I drilling at Deeth:

<u>Hole #</u>	<u>Depth (ft.)</u>	<u>Bulk Conductivity</u>	<u>Calculated In Situ K</u>
1030-4	60-70	7.42	4.73
	100-110	10.77	6.08
	200-210	3.71	2.82
1030-6	60-70	8.74	5.14
	140-150	6.91	4.21
1030-8	140-150	7.21	2.98*
1030-9	140-150	8.11	5.41*
1030-10	200-210	6.01	4.24
1030-11	140-150	14.87	12.31
	290-300	17.12	14.01
1030-12	310-320	4.34	2.58*
1030-13	290-300	12.91	7.57*
1030-15	140-150	6.19	3.96
	270-280	10.77	6.08
1030-18	70-80	9.43	6.44
	270-280	5.45	2.64*

Thermal Conductivity Measurements - Deeth Area, NV
December 15, 1980
Page Two

In general the bulk conductivity measurements appear to be reasonable and are probably the values we should use. The estimated On situ conductivities values, especially those *, are much too low because of the high porosity values assumed by Diane Westfahl (see enclosed data sheets).



H. D. Pilkington

Encl: 1

HDP/cjb