

GEOTHERMAL BRANCH

INTER-OFFICE MEMORANDUM

SUBJECT: Thermal Conductivity Measurements, Animas, NM

DATE: January 5, 1980

TO: Geothermal Files

FROM: A. E. Shenker

Duplicate rock chip samples from drill holes 672-206, 672-225, 672-227 and 672-231 were sent to Microgeophysics Corp. and Southern Methodist University for conductivity determinations. The results, which vary considerably, are presented below:

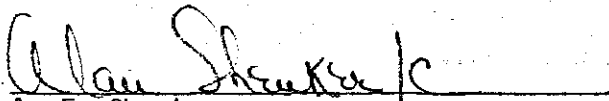
<u>Drill Hole</u>	<u>Depth Interval(m)</u>	<u>Calculated Bulk MGC</u>	<u>Conductivity SMU</u>
672-206	67-93	6.23*	4.96
-206	240-244	4.72*	3.77
672-225	24-37	4.66	5.21*
-225	104-143	5.97	5.84*
-225	213-305	8.10	6.13
672-227	50-70	8.38	6.88*
-227	130-140	9.91	7.31*
-227	230-250	5.23	7.25*
672-231	80-86	4.64	4.17*
-231	225-228	5.61	4.11*

Conductivities used in heatflow calculations are marked by an asterisk (*). For the most part, the results obtained from SMU have a smaller variance in absolute values and also tend to yield heatflows which are in closer agreement

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within each drill hole. In drill hole 206, the range in values was equivalent between the MGC and SMU conductivity values, however, the MGC values seem to produce a more reasonable heatflow value.


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AES/c

attachments