

VELOCITY SECTIONS IN RAFT RIVER, IDAHO GEOTHERMAL AREA
FROM SEISMIC REFRACTION

by

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Prepared in cooperation with
Energy Research Development Administration
(formerly the U.S. Atomic Energy Commission)

This report has not been edited
or reviewed for conformity to
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Twenty-five seismic refraction spreads were recorded in the summer and fall of 1974 as part of the U.S. Geological Survey's geothermal exploration program in the Raft River, Idaho area in cooperation with the Energy Research Development Administration (formerly the U.S. Atomic Energy Commission). This report shows the location of these seismic spreads and the interpreted velocity sections.

The scale for the location map (fig. 1) is 1:48,000, which is the same as that generally used for the various reports of this project.

The velocity sections (fig. 2) are cross-sections showing layer velocities in kilometres per second. All of the velocity sections show depths to at least a 3.0 km/sec (~9,800 ft/sec) layer. The seismic data, however, indicate that the entire area is underlain by a 5.2-7.0 km/sec (17,000 - 23,000 ft/sec) horizon which is defined as basement. The basement horizon could be interpreted for only some of the velocity sections. Basement is shown where it could be interpreted.