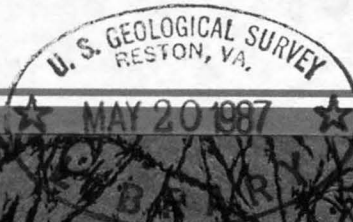


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UNITED STATES  
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U.S. GEOLOGICAL SURVEY

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NOTES ON ACQUISITION OF  
HIGH-RESOLUTION SEISMIC PROFILES IN SOUTHERN  
PUGET SOUND, WASHINGTON

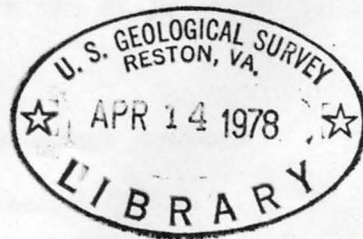
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P. D. Snavely, Jr., H. D. Gower, J. C. Yount, J. E. Pearl,  
A. R. Tagg, J. W. Lee, and D. L. Lander

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not been edited or reviewed for  
conformity with Geological Survey  
standards and nomenclature.



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Notes on Acquisition of  
High-Resolution Seismic Profiles in Southern  
Puget Sound, Washington

by

P. D. Snively, Jr., H. D. Gower, J. C. Yount, J. E. Pearl,  
A. R. Tagg, J. W. Lee, and D. L. Lander

U.S. Geological Survey  
Menlo Park, California

Approximately 275 km of high-resolution seismic reflection profiles were obtained in Puget Sound, Washington from the U.S. Geological Survey's research vessel DON J. MILLER from January 13 through 19, 1976. These data, recorded on microfilm, were obtained to provide information on the thickness and distribution of Quaternary deposits, to identify folds and faults that deform them, and to provide a basis for assessing geological environmental hazards.

Tracklines, shown on a map included on the microfilm were located by a combination of precision transponder navigation system and ship's radar with variable range marker. The tracklines are dashed where the ship circled to come onto a new track.

The source of seismic energy used was a 400 Joule double-back Uniboom system with a recorder sweep rate of 1/4-second and a 1/4-second firing rate. Filter settings for the lines generally were 3000 Hz (high) and 300 Hz (low). Ship's speed averaged about 5 knots.

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