

GEOPHYSICAL DATA COLLECTED ACROSS THE CONTINENTAL  
MARGIN BETWEEN WASHINGTON AND OREGON  
ALONG LINE 16, USGS R/V S. P. LEE CRUISE 11-80  
by  
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During October 1980, the U.S. Geological Survey collected 24-channel seismic-reflection and magnetic data on the continental margins of Washington and northwestern Oregon. Line 16, one of the profiles obtained during this cruise, extends southeastward from the abyssal plain off southern Washington, across the Astoria Canyon, and thence onto the Oregon Continental Shelf. On the inner shelf of Oregon, Line 16 crosses Shell Oil Company's P-072 exploration well drilled during 1965 and 1966 (Snavely and others, 1977).

Data for profile Line 16, were collected aboard the R/V S. P. LEE using a sound source of five airguns totaling 1326 in<sup>3</sup>. The recording system consisted of a 24-channel streamer (2400 meters long) and GUS (Global Universal Science) model 4300 digital recording instrument. Multichannel seismic-reflection data were sampled at a 2-millisecond rate and later processed at a 4-millisecond rate. Magnetic data were obtained using a Proton-precession magnetometer. Navigational control for the survey was by satellite fixes augmented by doppler-sonar dead reckoning.

The seismic and magnetic data along Line 16 may be examined at the U.S. Geological Survey office, Room 9-164, Deer Creek facility, 3475 Deer Creek Road, Palo Alto, California. Copies of the data on 35-mm continuous film are available through the National Geophysical and Solar-Terrestrial Data Center, NOAA, Boulder, CO 80302, telephone (303) 499-1000, extension 6542.

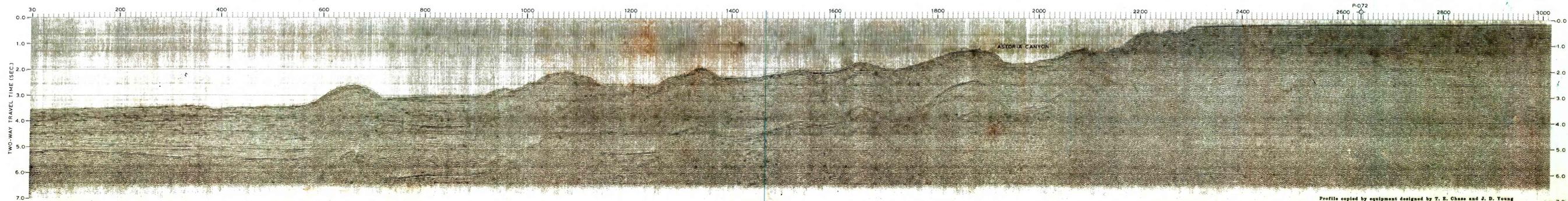
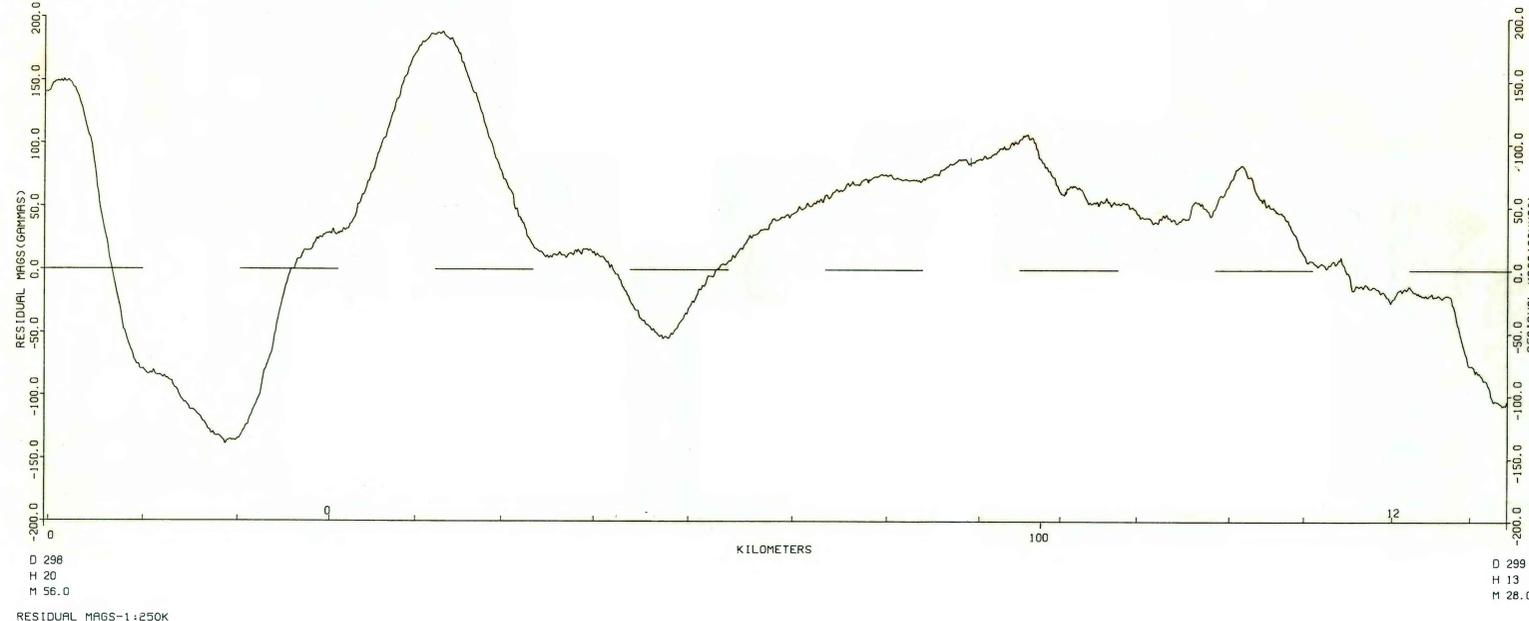
Reference

Snavely, P. D., Jr., Pearl, J. E., and Lander, D. L., 1977, Interim report on petroleum resources potential and geologic hazards in the outer continental shelf—Oregon and Washington Tertiary province: U.S. Geological Survey Open-File Report 77-282, 64 p.

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.



L1180W0 LINE 16



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