



BIG DELTA QUADRANGLE
2000

The gamma-ray spectrometry data were recorded at a 1.0 second sample rate into 256 channel main and radon spectra using an Explanium GR820 gamma-ray spectrometer. The gamma-ray detector and electronics comprising the system were, main detector, 16.7L; radon detector 4.2L. After application of National Instruments' LabView software to the data, the spectra were composed of 256 channels. The spectra were recorded in five windows corresponding to the following radionuclides: ^{222}Rn (1660–1860 keV), ^{214}Pb (1370–1570 keV), total radioactivity (400–2815 keV) and cosmic radiation (3000–8000 keV). Counts from the radon detector were converted to activity using the calibration factor of 1660–1860 keV. The radon detection system was calibrated following methods outlined in IAEA Report 323. After correction for spectral interferences, changes in temperature, pressure, and departures from the standard calibration, the data were converted to standard concentration units which were interpolated to a 100 m

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This map has been compiled and drawn under contract between the State of Alaska, Department of Natural Resources, Division of Geological & Geophysical Surveys (DGGG), and Stearns Management Corporation. Airborne geophysical data for the area were acquired by Geotrex-Digheim, a division of CGG Canada Ltd., in 1999. Laurel Burns was the contract manager for DGGG. This map and other products from this survey are available by mail order or in person from DGGG, 794 University Ave., Suite 200, Fairbanks, Alaska, 99709.

CONTOUR INTERVAL	
_____	5.00 %
_____	1.00 %
_____	0.20 %
_____	0.04 %
	low