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Raw LANDSAT data for Slave
River delta in Canada's Northwest
Territories.

Company background. Coles Nikiforuk Pennell (CNP), a private firm of independent petroleum consultants, employs 75 professional and technical staff whose expertise and experience enable it to achieve a high standard of performance. CNP offers consulting, computer and digital mapping services, and has export experience in Australia, the United States, Britain, Sri Lanka and Italy. The company has recently entered the remote sensing field and has developed software to manipulate and enhance digital LANDSAT data.

Services. The services provided by CNP in the remote sensing field include, but are not limited to

- surface hydrological mapping
- geological interpretation
- engineering applications

- forest resource assessments
- cultural land use analysis

Research, development and applications. R&D activities include generating graphics by extracting vectors representing specific features derived from digital LANDSAT data.

Applications and end products of remote sensing are digital map databases derived from satellite data and digital mapping applications for resource planning, design and evaluation.

Company facilities in use are the PRIME 9955 minicomputer system and the AUTO-TROL graphics computer system.

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Company background.

Dendron Resource Surveys Ltd., a forestry consulting company established in 1978, has a strong background in research with emphasis on the quantitative aspects of forest resource management. Computer applications, aerial surveys and remote sensing are areas of special expertise.

Equipment. Dendron is well equipped with photogrammetric, mapping and computing equipment, a state-of-the-art geographic information system, digitizers and a plotter. Staff has extensive experience in using large computer systems and is frequently consulted on computer applications.

Experience. With its broad background of practical experience, Dendron has exported its capabilities to Indonesia, Gabon, Sudan, Peru, Haiti and the United States. Among larger projects undertaken were the Forest and Biomass Inventory of Prince Edward Island, a forest inventory in Alberta, Canada, and

the establishment of photogrammetric/computer systems for the British Columbia Ministry of Forests in Canada. Complex research assignments are common.

Services. Dendron offers its services in the design and implementation of remote sensing programs; matching of data needs and technologies; technology transfer and enhancement; evaluation and monitoring of remote sensing programs; and image interpretation and mapping.

The company applies its image interpretation and mapping skills in the fields of agriculture, forestry, energy, environmental analysis, water quality, exploration geology, land use, terrain analysis, route selection, map making and cartography.

Dendron pioneered the use of large-scale sampling photographs in the qualitative and quantitative description of insect damage, wood volumes, logging residues and similar surveys.

