ural gas diet?

Researchers seek 'preheater' for oil sands

BY NATHAN VANDERKLIPPE CALGARY

A new international research partnership based in Alberta hopes to answer an intriguing question: Could the warm rocks of deep Earth wean the oil sands off their heavy nat-

The University of Alberta has linked arms with the Heimholtz Association of German Research Centres, Germany's largest scientific organization, in hopes of furthering research into this and other oil-sands-emissions-re-

lated questions.

The partnership, signed yesterday, brings with it the promise of intern_donal financing and German expertise in research areas where Cana.

da has not typically excelled. One area is the use of geothermal energy in the oil sands. Some researchers believe the earth in northeastern Alberta in of "preheaste" for major oil sands mines, which use 40-degree Celsius water to separate oil from sand. Most of that heat comes from natural gas; the industry uses about one billion cubic feet of gas a day, when the comes of the control of the c

production – a tally expected to grow substantially. Replacing some of that natural gas with geothermal energy "could make a contribution in terms of the overall carbon emissions from oil sands production," said Marpro linsworth, a professor of



The oil sands industry uses 7 per cent of Canada's daily production of

natural day, LARRY HAYDOUGAL FOR THE GLORE AND MAIL

geoscience at the University of Alberta, who is working on

the project

The research will not be quick: It could take five years before the first test well is drilled. And even geothermal promoters acknowledge there are major technical and policy hurdles to making it work. Alison Thompson, executive director of the Canadian Geothermal Energy Association, admitted that the price of ex-

isting technology limits its usefulness to the oil sands, which sit on bad geothermal real estate. "If you were just indepen-

"If you were just independently looking around the world at where you'd want to do geothermal, you wouldn't nick there." she said.