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Putting Alaska and Yukon on track Rails to Resources

American Senator Frank Murkowski is an anomaly in today's political world. No, that is too timid a statement. The man is a marvel, if a bill introduced during the 106th Congress of the United States Senate this past June is any indication. We were bowled over when we read Rails to Resources: Bringing Alaska and the Yukon closer to the world, which calls for construction of railroads to access undeveloped resources in both regions in order to get their economies back on track.

"Alaska and the neighboring Yukon Territory in Canada are still North America's last untapped storehouse of mineral and natural resource wealth," Senator Murkowski writes in a backgrounder to his bill. "We now know where much of that treasure lies — economic transportation to get the materials to market being the chief impediment to its development."

What's more, the Senator is as knowledgable about this untapped storehouse of mineral wealth as any of our readers. He cites a mineral zone extending from Faro, Yukon to Fairbanks, Alaska, that hosts the Fort Knox gold mine and the the Pogo gold deposits, as well as large amounts of silver, tungsten, copper, lead, zinc and other minerals.

"On the Alaska side of the border, there are already more than 14 major hardrock deposits identified, while in the Yukon there are more than 10 major mineral deposits known," the Senator notes.

The Senator also points out that a railroad could lead to development of high-quality coal deposits at Point Lay, along with mineral deposits in the Amber mining district to the southeast. He argues that a 90-mile line could carry this low-pollution coal to the Red Dog mine where an existing haul road would carry it to tidewater.

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most importantly, provide additional jobs to the region. It would also finally allow some of the North Slope's 6 trillion tons of coal to be exported," he adds.

Small wonder we rubbed our eyes and checked the date again. The missive was not penned by a senator with the same name in 1900 or 1920, or even 1960. It was written this year to explain *S.2253, the Rails to Resources Act of 2000.* And yet it was a document of its time — one that calls for values other than economic ones to be carefully considered before the first rail spike is driven.

The Senator admitted that while the economic need for transportation has not changed since 1915 (when President Woodrow Wilson decided to build a railroad into Alaska's interior), attitudes toward resource development have changed. "We now know how to develop our mineral, energy and timber resources in an environmentally sensitive manner, so we can protect the beauty and the wildlife of the North, while producing jobs to sustain the region's human inhabitants."

Senator Murkowski's bill proposes the creation of a bilateral commission to study the economic, environmental and engineering feasibility of completing the transcontinental railroad linking Canada with Alaska. This rail corridor might even encourage co-location of proposed oil and gas pipelines and power transmissions, thereby lowering environmental impacts.

A railroad initiative could provide enormous benefits to Northerners if done right. And it *must be done right* from the start, because there will be fierce opposition from vocal preservationists who view the North as their personal wilderness.

Despite the challenges, the fears of a few should not be allowed to overshadow healthy debate among resource developers, local governments and residents, aboriginal groups, fair-minded environmentalists and other stakeholders. Senator Murkowski's proposal deserves an open and honest hearing.

V. Ligar Hickory



Reflecting on the Bridge River gold mines

I recently read *The Great Years* by Lewis Green, on the history of the Bridge River gold mines in British Columbia. Green, a former Geological Survey of Canada geologist, begins by outlining the early prospecting days in the region and takes readers through to the operation of the Bralorne and Pioneer gold mines. The Bridge River mines played a signifi-

The Bridge River mines played a significant role in B.C.'s mining heritage. They provided direct employment for more than 600 miners through the Great Depression and 30 years thereafter.

The veins at the mines were spectacular structures — continuous and consistent in dip and strike that contained millions of ounces of gold and silver.

The Empire, Crown and Queen shafts at Bralorne developed vein systems that extended over 5,000 ft. deep and 2,500 ft. in strike length. Faulting offset the deposits at intervals, yet the mining was continuous

from one section to another. Ore grades at Bralorne averaged 0.7 oz. gold per ton, while ore grades at the Pioneer Mine averaged 0.4 oz. gold per ton. At Pioneer, the 1 and 3 shafts developed the "Main" and "27" veins to over 3,000 ft. of vertical depth and well over 2,000 ft. of strike length. When all was said and done, Bralorne produced 2.8 million oz. gold and 706,345 oz. silver over its life, while Pioneer returned 1.3 million oz. gold and 244,648 oz. silver. Nearby, the much smaller Minto and Wayside mines recorded 17,557 oz. gold and 5,341 oz. gold, respectively.

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The price of gold may be low today at \$273 per oz., however, the old-timers performed minor miracles at the \$10-per-oz. level back in those times.

- The author, a retired mining engineer, resides in Vancouver, B.C.

MAC plans to reduce emissions

COMMENTARY

The Mining Association of Canada (MAC) recently told federal, provincial and territorial mines ministers that it is stepping up efforts to improve energy efficiency and reduce greenhouse gas emissions in Canadian mining operations.

This year, CO₂ emissions were 4.4% below 1900 levels for the Canadian metal-mining and non-ferrous metal-smelting/refining sector, making it one the country's few industrial sectors to fall below the 1990 benchmark.

However, MAC predicts that, unless the industry takes further measures, the sector's greenhouse gas (GHG) emissions will be 5.6% above 1990 levels by 2010, assuming ? modest 1%-per-year growth rate in the mining industry.

MAC is committing resources to produce innovations that will further improve energy efficiency and reduce GHG emissions.

In a report presented in early September to the United Nations, as required by the UN Framework Convention on Climate Change, the Canadian government said the country is not on track to reach its target of 6% below 1990 levels by the year 2010. Although growth in GHG emissions in Canada slowed to 1% between 1997 and 1998, they increased by 13% between 1990 and 1998.

MAC accepts that climate change is a serious issue that must be addressed. Howev-

er, there is no consensus in the industrial community on the action required to reduce emissions, or on how quickly such action should be taken. Nevertheless, more and more mining companies have begun to see climate-change issues as a business opportunity that requires immediate action.

MAC has developed a plan to help Canadian mining companies reach their emission goals. A key component is a booklet entitled *Strategic Planning and Action on Clinate Change – A Guide for Canadian Mining Companies*. The booklet, partially funded by Natural Resources Canada, was prepared by two Canadian environmental firms.

It includes procedures for the following: greenhouse gas emissions measurement and monitoring:

□ greenhouse gas emissions control targets; □ internal financial signals to encourage emissions reductions; and

reporting on climate-change activities internally, as well as to shareholders, governments and the public.

The plan also includes a benchmark study of energy consumption in large underground mines, which will help identify where energy efficiency improvements can be made.

- The preceding was written by the Ottawa, Ont.-based Mining Association of Canada.

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