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Uranium discovery Baffin Island made by Borealis Exploration

Borealis Exploration has discovered uranium occurrences in the Cape Dorset area of southern Baffin Island, James L. Buckley, president, reports.

Borealis is an Arctic-oriented company

Borealis is an Arctio-oriented company that enjoys strong financial backing and management. It has just wound up its second season's program in the Arctic. Its 1970 program, which will, if anything, he accelerated, will likely call for expenditures in excess of \$300,000.

"We firmly believe that the Canadian Arctic will develop more quickly than most people think," Norman H. Ursel, the company's consulting mining enginear, remarked to The Northern Miner recently. "We have taken a serious approach to this, we have put together a nice bundle and are now at the stage of sorting out and getting on with the approach to this, we have put together a nice bundle and are now at the stage of sorting out and getting on with the job," he added. Activities have centered on Baffin Island, Melville Paninsula and the Hood River area about 150 miles southeast of Coppermine and 300 miles north of Yellowknife.

Work on Baffin Island was conducted through the Kalbluma Syndicate in which Bornelts holds a 55% interest.

unrugh the Kaminus synthesis interest. Nine prospecting permit areas and 324 claims aggregating 1,335,415 acres were investigated for uranium occurrences in the Cape Dorset, Frobishar Bay and Amadjusk Lake areas of southern Baffin

Langthy uranium zone

A significant discovery was made in
the Cape Dorset area where a zone at
least 1,900 ft. long and from 50 - 250 ft.
wide returned encouraging values in
U₃O₃. Twenty-five samples selected from
the surface of this zone averaged 1.16
lbs. per tom U₃O₃ and 0.34 lb. per ton
ThOs (thorium). The highest grade
sample assayed 6.50 lbs per ton U₃O₃
and 1.2 lbs. per ton ThOs, according to
a report by Narman H. Ursel Associates
Ltd.
Also found in the Cart

Also found in the Cape Dorset region were small pagmatites carrying high values in U308, but at this time considered to be uneconomic because of size. Several large areas of radioactive granite were also found in Cape Dorset. For one of these, measuring about 2,000 ft. in length and 1,000 ft. in width, a grade of 0.48 lb. per ton U308 was included. Thorium is not present. It is planned to sample this in detail during the 1870 season.

Preliminary metall regical test work on the first deport indicates that bulk sampling will be required in 1870 to fully evaluate the problem of separation. These tests, conducted on a composite of the 25 samples, also showed the presence of Also found in the Cape Dorset region

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molybdenum as an associate mineral in the amount of 0.5 lb. per ton. Uranium occurrences of economic in-terest were not found in the Frohlsher Bay area and the Amadjusk Lake area.

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New iron discoveries

Continuing exploration on Melville Peninsula resulted in the discovery of two new iron deposits in the west sector and a new section of possible economic interest in the east sector. On the basis of the work completed in 1898 total potential tonnage was reported as one billion tons in the west sector, assuming the vertical continuity to he at least twice the exposed depth of 800 ft. On this same hads and with the benefit of detailed work completed this year the total possible reserve is 29 billion tons in six deposits each amenable to large scale open pit mining.

In the east sector allowing depth continuity to 1000 ft, and with added information derived from more detailed mapping the total possible reserve is 1.1 billion tons up from 0.5 billion tons in 1963. Thus total possible reserves of 4 billion tons have been delineated on the Melville Peninsula to date having an indicated grade equal or superior to that of the deposits now being worked in Labrador and Northern Quebec.

Bulk samples from the west sector and east sector have been sent to Germany for tests by European steel interests. Metallurgical test work is also in progress at the Ontario Research Foundation with favorable resuits to date.

Base metal indications

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In addition to the iron deposits several base metal prospects were discovered on Mciville Peninsula near the west sector iron deposits. Data is presently being compiled and evaluated.

In the Hood River area airborne magnetia, electromagnetic and radiometric surveys were completed during the past season. The results co-related with ground work completed in 1953 indicate good possibility for base metal discoveries. coverles.