

March 3rd, 1971.

M E M O

To: Mr. Don Snyder,
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From: G.D. Delane

Subject: Appraisal and examination for copper mineralization of open ground in the vicinity of Mt. Muir and the Bear Creek Reservoir, near the Jordan River-Sooke area in the southwestern sector of Vancouver Island

The writer made the examination of this area on February 25th, 1971. He was accompanied by Don Snyder and Glen White of Vancouver, and by Ed McLennan and Leslie Lowe of Sooke, V.I.

The purpose of the field examination was to determine whether the copper mineralization reported by McLennan and Lowe is in sufficient quantity to justify staking claims.

The area is in E. & N. land; it is accessible by truck from Victoria along 35 miles of paved highway past Sooke to the Butler Brothers Logging Camp at Orveas Bay, from which a logging road heads northerly along the west bank of Tugwell Creek.

The Jordan River-Sooke area is underlain by Metchosin (Tertiary) volcanics (mainly basalt and diabase) which occur in a belt 5 to 10 miles wide extending west-northwest across the southwestern extremity of Vancouver Island. Intruding the volcanics are several stock-like masses of Tertiary (Oligocene) gabbro which trend northwesterly. The argillites, schists and slates of the Leech River Formation strike easterly and occur north of the Metchosin volcanics. The mutual boundary of the two formations is a profound fault.

The Sunro property (currently owned by Crownex International Ltd., but formerly owned by Cowichan Copper Ltd. and Cerna Copper Mines Ltd.) on the Jordan River has been the only producer of consequence in the immediate area. It was brought into production by Cowichan Copper Ltd. in April, 1962 and operated at 400 tons per day until December 6th, 1963 when the mine and mill were flooded by the Jordan River pouring into the upper workings. The property was reactivated

and operated for 9 months in 1966, and on a curtailed basis in 1967 and 1968, when operations were suspended in October. Production from 1962-1968 totalled 823,275 tons containing an average of 1.372% copper.

An area of about 5-6 square miles was traversed in a reconnaissance manner with the aid of an airphoto. No attempt was made to map the numerous outcrops because practically all of the ground was snow-covered. On the north side of the Bear Creek Reservoir, some fine-grained pyrite was observed in the argillites and slates of the Leech River Formation. Only minor coarse pyrite and very rare specks of chalcopyrite mineralization was observed in andesitic outcrops in the vicinity of Mt. Muir; some smears, blebs and fine disseminations of chalcopyrite were discovered in basaltic (or fine-grained gabbroic) rocks exposed in a road cut near the headwaters of Tugwell Creek. These basaltic rocks appear to be very similar to the copper-bearing basalts found on the Sunro property. Outcrops of medium-grained granodiorite or quartz diorite were found in close proximity to unmineralized andesite near the south shore of a small lake located about 2 miles northeast of Mt. Muir.

Three stream sediment samples were obtained; their approximate locations and assays in parts per million copper are shown on attached map, Fig. 2.

Based on the relative scarcity of copper mineralization observed during the examination, it is recommended that no ground be staked or acquired at this time. Further prospecting can be conducted when the ground is free of snow; it should be directed towards those areas in the vicinity which are known to contain gabbroic and/or basaltic rocks. If sufficient mineralization is discovered as a result of such work, then the area could be re-appraised with the object of carrying out a staking program. It should be kept in mind, however, that the area is in the E. & N. Land Grant and, thus, any mineral mined is subject to special regulations and a royalty payable to the C.P.R. Moreover, the proximity of the Sooke River (water supply for Victoria) may well create considerable local opposition to any form of mining activity in the area.

Respectfully submitted,

BACON & CROWHURST LTD.

G.D. Delane, B.Sc.

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MT. MUIR EXAMINATION AREA
- SOOKE, VANCOUVER ISLAND

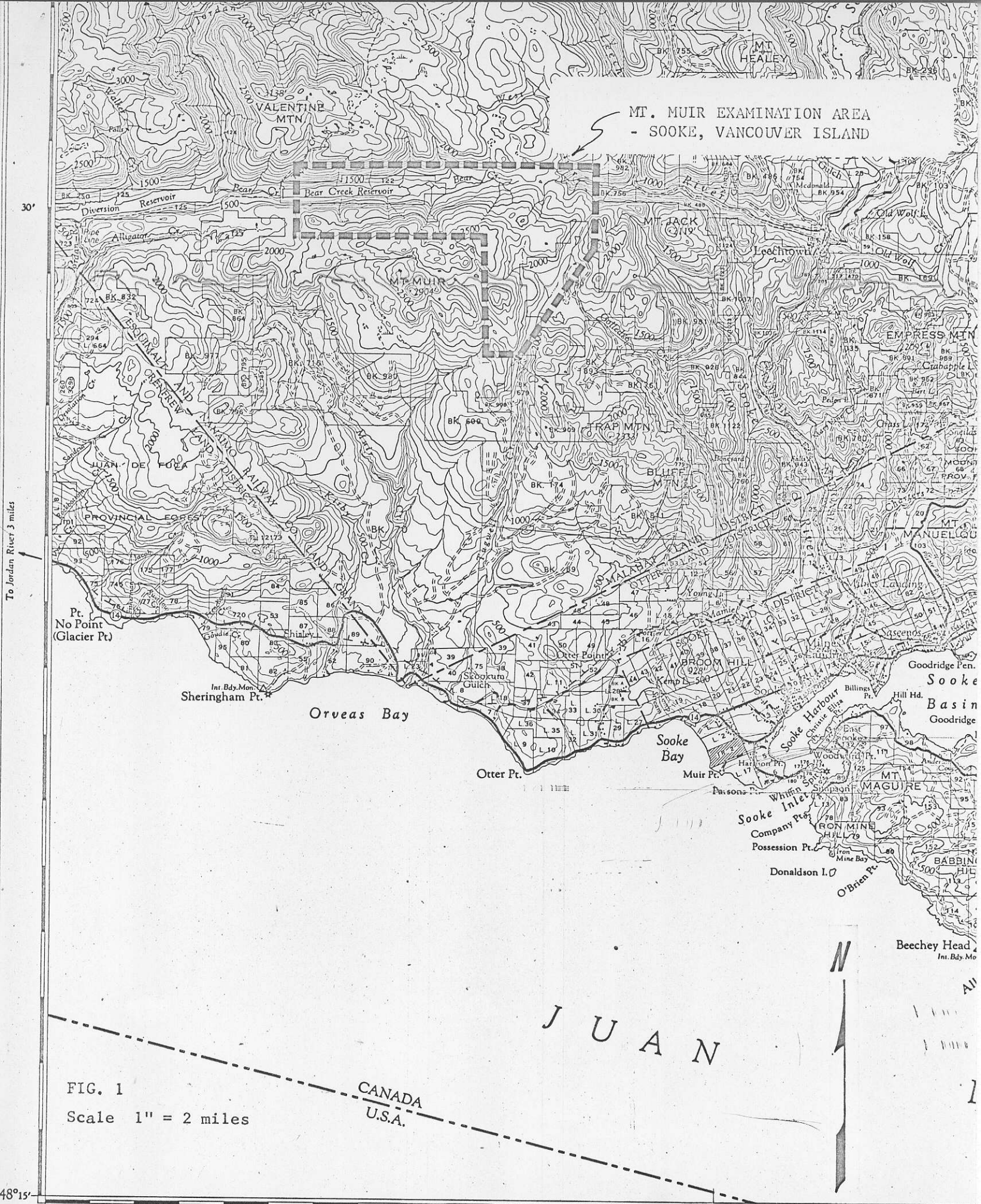


FIG. 1
Scale 1" = 2 miles

CANADA
U.S.A.



Beechey Head
Int. Bdy. Mo

48°15'

124°00'

45'

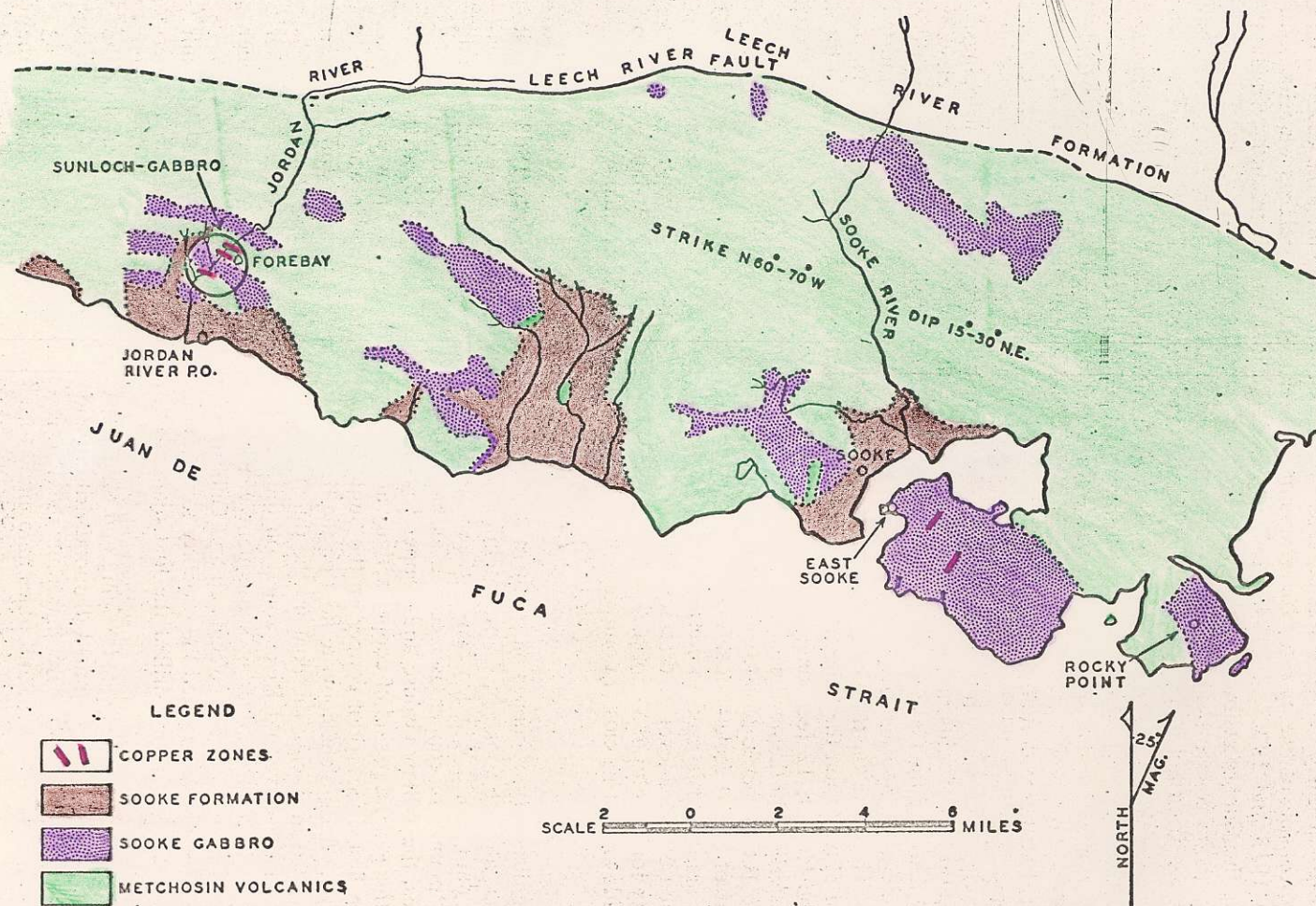


FIG. 3

Geology of Sooke-Jordan River area. Geology adapted from Sooke and Duncan sheets, Geological Survey, Canada, and company plans.

