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CYPRUS EXPLORATION CORPORATION LTD  
VANCOUVER OFFICE

TO	REPLY	
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NOV 20 1969		
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Date: November 17, 1969

To: C. A. Mark  
 From: J.B.P. Sawyer  
 Subject: MCGILL REPORTS ON AREAS "J" AND "J2"

The original reports received from W.P. McGill & Associates on Areas "J", and "J2" contained several errors. The attached pages are revised copies of pages bearing the same numbers as in the original reports, with appropriate corrections made.

I also enclose herewith a sketch just received from R.P. Sinha of W.P. McGill and Associates showing the tie-ins of the Trooper claims to the Cyprus claims in the area immediately to the east of Buster Lake.



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Corrected copies of  
pages 1, 2, and 16 to be  
substituted for original pages  
in Report on Area J (W.P.  
McGill and Associates)

Corrected Copies  
inserted 5-25-71  
L.M.G.

## INTRODUCTION

This report embraces geological studies of a specific group of claims known as "Area J", which was located along a northwest trending airborne magnetic anomaly. The geological studies were carried out with the ultimate aim of assessing the potential of the ground for concentrations of economic minerals, mainly molybdenite and copper.

The mapping was of a detailed reconnaissance nature and was carried out in the main to determine whether further exploration should be done.

The work was carried out by a two-man geological party under the direction of geologist R. P. Sinha, M.Sc., working under the direction of the writer.

## SUMMARY

During the period from July through to October, 1969, the property, consisting of 210 contiguous mineral claims, was geologically mapped at the scale of 500 feet to 1 inch. A few silt samples were also taken to supplement the geological program.

Four areas within the claim group are considered to be favourable localities for possible economic mineralization and warrant further investigation. Detailed geo-

logical and geophysical surveying is suggested to provide additional knowledge.

PROPERTY

The property comprises 210 contiguous claims known as "Area J". The claims are numbered as follows:

<u>Claim Names</u>	<u>Record Nos.</u>	<u>Tag Nos.</u>	<u>Total No. of Claims</u>
J 1-50	49695 - 49744	1401-M - 1450-M	50
J 56-150	49745 - 49839	1456-M - 1550 M	95
J 201-215	51320 - 51334	7501M - 7517M	16
J 216	51335	841598	1
J 217-226	51336 - 51345	969811 - 969820	10
J 227-230	51346 - 51349	901633 - 901636	4
J 232-237	51351 - 51356	878432 - 878437	6
J 238-245	51357 - 51364	1551M - 1558M	8
J 247-248	51366 - 51367	1559M - 1560M	2
J 249-250	51368 - 51369	901637 - 901638	2
J 251	51370	878439	1
RS 1-4	53078- 53081	6634M - 6637M	4
J 260-263		6638M - 6641M	4
J 264-271		6643M - 6650M	8

consisting of molybdenite and pyrite, however, is seen associated with the granite in space, in the Boss Mountain area.

#### GEOCHEMICAL SOIL SAMPLING

Silt samples were collected from all the creeks flowing in and out of Buster Lake, from the creeks west of Buster Lake, and from those which lie in the southeast corner of the Area. The results of the analysis are given in Fig. 1 and the location of the samples are shown on the geological map.

The soils from the creeks lying to the west of Buster Lake show relatively high concentrations of copper and molybdenum (Sample #20, 21, 22, 40, and 41). The samples from the creek which lies on claim J 232 are not soil samples in a true sense. The area is rocky and the samples consisted essentially of coarse grained sand. Even then the concentrations shown by these samples indicate that further investigation is warranted, especially since the ground is thought to be geologically favourable.

The samples #301, 302, 306, 307, 308, 309, and 310 are contaminated by the concentrating plant of Noranda Mines Ltd. and their values should be discarded. Samples #303,

Corrected copies of pages  
2 and 3 to be substituted for  
original pages in Report on Area  
D-2 (W.P. McNeil & Associates).

Corrected pages inserted  
5-25-71 lmg

### GEOLOGICAL MAPPING

Traverses at 500 foot intervals were made on the twelve claims (J 260 - J 271) staked southwest of Buster Lake. All outcrops along the traverses were recorded and the rock types studied.

The rocks consist essentially of quartz-diorite and granodiorite. These rock types were observed as two different ridges running almost parallel in a northeast-southwest direction. The geological boundary between quartz-diorite and granodiorite shown on the map is based on the mineralogical composition of the rocks. Further detail work is necessary to delineate the boundary more accurately.

### GEOCHEMICAL SILT SAMPLING

Soil samples were collected from all the creeks flowing in and out of Buster Lake and from the creeks in the southeast part of Area J. While collecting the silt samples attempts were always made to collect the finest silt samples free of weed, grass, and moss. However, because of the nature of the terrain some samples were not true silt samples. Samples #50, 51, 52, 53, 3, 4, 5, and 6 are essentially sand samples. This could not be avoided as the creek bed was rocky.

The silt samples were analysed by Barringer Research Limited. The results of the analysis are shown in Figure 1. Their locations are already shown on the map accompanying the Geological Report of Area J. Figure 1 shows that the values obtained from all the samples are unusually low. Even the contaminated samples (#301, 302, 306, 307, 308, 309, and 310) taken from the immediate vicinity of the dump of Noranda Mines Ltd. show very low values. The reason for this abnormality is not known. However, if the values from the contaminated samples are taken as the upper index we find that samples #20, 21, 22, 40, 41, 11, 12, 15, 17, 64, 66, 68, 101, and 102 are relatively high in copper and/or molybdenum. Samples #303, 304, and 305 were taken from the creek which drains part of "Telephone Hill" in the southeast corner of the property. These samples returned moderate molybdenum values, possibly warranting further investigation.

The samples from the creek which lies on claim J 232 are not true soil samples. The area is rocky and the samples consisted essentially of sand, however the concentration shown by these samples would appear to warrant



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Date: November 6, 1969

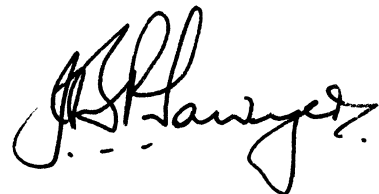
To: C. A. Mark  
From: J.B.P. Sawyer  
Subject: TWO GEOLOGICAL REPORTS ON AREA "J", BUSTER LAKE

I enclose herewith two geological reports on our Buster Lake property in the Cariboo Mining District, B.C. prepared by W.P. McGill and Associates Ltd. They have designated these reports "J" and "J2", the latter covering essentially the work at the western end of the property involving the new staking carried out by McGill at our request and the restaking of the former Gus claim group.

Since these were only received yesterday, I have not yet had time to go through them in detail, but a first examination reveals some errors and omissions. None of the maps show the new "J" claims staked to cover the former Gus group and tie-ins with the Trooper claim group also have been omitted. I have requested W.P. McGill and Associates to supply us with maps showing this information. With reference to the geochemical work, I am not happy about the sampling which they did. They seem to confuse soil sampling and silt sampling in the text of the report and I can only hope that this does not reflect a similar confusion with regard to the actual work done. The follow-up silt sampling results appear not to be comparable in any way with the earlier reconnaissance silt sampling results. The Barringer Lab reported at the time these samples were submitted that many of them appeared to be of poor quality and to contain a large amount of organic material.

When I have had time to go through these reports in detail, I will forward to you my comments and recommendations for a detailed follow-up program, and for grouping, etc in connection with assessment filing.

TO	REPLY	
	COMMENT	
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NOV 10 1969		
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