THE TROY SINVER 92 I + 1

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L. J. MANNING & ASSOCIATES LTD.

CONSULTING MINING ENGINEERS

811065

RESIDENTIAL PHONE: L. J. MANNING - 985-5690

610-890 WEST PENDER STREET

VANCOUVER 1, B.C.

July 1, 1970

President and Director, Troy Silver Mines Ltd. (NPL), Vancouver 1, B. C.

Dear Sirs:

TROY SILVER MINES LTD - MERV & L.H. CLAIMS, CANIM LAKE, B. C.
AND CHALCO CLAIMS, HIGHLAND VALLEY, B. C.

INTRODUCTION AND SUMMARY

The writer has reviewed the above two claim areas. Both groups present potential for locating copper deposits, and a phased program is recommended for exploration.

MERV & L.H.	CLAIMS -	CANIM LAKE,	B. C.
Phase	1	\$ 56,400	
Phase	11 -	57,000	
	TOTAL	\$113,400	

CHALCO CLAIMS - HIGHLAND VALLEY, B. C.

Phase I - \$ 71,900

Phase II - 45,000

TOTAL \$116,900

MERV & L.H. CLAIMS - CANIM LAKE, B. C.

Location

These claims are along the North shore of Canim Lake around Christmas Lake. Canim Lake is twenty-five miles East of 100 Mile House in central British Columbia.

	C	LAIMS	- CLINTON	MINING D	IVISION			
Clair	m Name		Record No.	Expia	ry Date	Owi	nership	
MERV	3-6		16279-82	Dec.	4/70	Tro	oy Silver	Mines
11	23-30		17412-19	Dec.	4/70	1.1	11	11
11	45-48		17434-37	Dec.	4/70	. 11	11	11
L.H.	1-98	3	20615-712	April	30/71	Le	o Halton	

History

The Merv claims were originally staked because of chalcopyrite mineralization uncovered by skid roads for logging operations. Several trenches were dug over an area 3000 feet square. An induced L. J. MANNING & ASSOCIATES LTD.

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polarization survey was run over an area 3600 feet X 4400 feet, and diamond drilling is near in progress.

The writer was on the property June 27 & 28, 1970.

GENERAL GEOLOGY

The property is underlain by Lower Jurassic Andesitic Arenite, Siltstone, Grit and Breccia, Conglomerate and minor Upper Triassic Nicola Volcanics and Sediments. The area near being explored is underlain by Andesitic Tuffs and Agglomerates.

A regional fault structure N 50° E transacts the North-West boundary of the property. (Geological survey Map 3-1966 - Bonaparte River). Aeromagnetic sheet 5231G - Canim Lake - indicates N 35° W magnetic linears transecting the property (R. Crosby - Seigel & Associates interpretation).

Outcrops are scarce, but many areas have only a thin covering of over burden.

WORK PERFORMED TO DATE

Trenching - Several trenches over an area 3000 feet X 3000 feet indicate pyritic volcanics with minor hornblende porphry and calcareous tuff. Occasionally minor pyrrhotite with a trace of chalcopyrite was observed.

Several fracture and shear patterns were observed which are sub-parallel to the indicated regional structural pattern.

Induced Polarization Survey - Seigel Associates Limited performed eight line miles of survey over the property in the area of the trenches. Their work indicated several areas of increased chargeability of considerable areal extent which may contain up to 3% sulfides by volume. They recommended three drill holes to test the anomalies.

DIAMOND DRILLING

DDH #1 was collared to test part of an I.P. anomaly. This hole to 310 feet was in andesitic tuffs and agglomerates (silicified and calcareous in part) with fair disseminated and fracture filling pyrite. Minor pyrrhotite blebs with associated chalcopyrite occur throughout the hole, mainly associated with fractures, but also as disseminations. The pyritic fracture pattern is both parallel and opposing to the pyrrhotite pattern. At 198 feet there occurs a 1/16 inch wide fracture containing minor galena and

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sphalerite.

DDH #2 was collared to test part of an I.P. anomaly. This hole to 140 feet was in serpentenized volcanics with thin tuff interbeds and chert bands. Pyrite is associated with the tuffaceous interbeds. To 140 feet, there are not sufficient sulfides to be the causative effect of the anomaly.

CONCLUS IONS

Work performed to date has indicated an area of pyritic volcanics with the introduction of pyrrhotite and associated chalcopyrite. Although the writer assumes that the occurrence of pyrite is deuteric, the possibility of it representing a halo around an intrusive can not be overlooked. The occurrence of pyrrhotite with chalcopyrite, although minor, is widespread and therefore indicative of hydrothermal activity over an extensive area.

Geological survey mapping and aeromagnetic interpretations indicate an area of structural complexity which presents a good environment for localizing mineralization. To date, no intrusives have been mapped on the property. It is postulated that a structural control in the vicinity of or in a host intrusive on good structural control in the volcanics will present a good target for exploration. Areas of more intense fracturing will provide better structural conditions for the introduction of pyrrhotite and chalcopyrite. The occurrence of a veinlet of sphalerite and galena in DDH #2 suggests that lead and zinc may also be a target.

A small (eight claims) part of the 114 claims have been examined to date. Approximately a total of ten full claims would underlie Canim Lake.

RECOMMENDATIONS

The following two phase program is recommended:

PHASE 1

Continue drilling the I.P. anomalies 1000' AX @ \$15/ft (includes supervision & assaying)

\$ 15,000

Extend the present 400' line spacing grid to three claim lengths beyond the present grid. Grid the remaining property at 800' line spacing.

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\$113,400

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Phase	(Continued)	*
	50 claims @ 400' spacing + 42 claims @ 800' spacing = 75 line Miles @\$125/mile	\$ 10,000
	Geological mapping and prospecting - all claim Geologist, prospector, helper - one month (including room & board, and transporation) Geochemical soil sampling - 92 miles @\$100/mi Magnetic survey - 50 claims - 50 line miles @\$80/mile	6,000
N.B.	The geochemical survey and magnetic survey she started at once over the induced polarizat survey area. The geochemical survey may outly anomalous copper areas within the I.P. anomals and the magnetic survey may outline high anomareas which may be indicative of pyrrhotite associated chalcopyrite) mineralization.	ion ine y, alous
	Fill in grid lines, geochemical and magnetic vey. Allow 20% of the 8001 line spacing area 8 line miles @\$305/mile	sur- 2,500
	Bulldozer trenching of anomalous areas Allow 40 hrs. @ \$30/hr Engineering - program preparation, compilatio of data, etc. 15% Contingencies	1,200 n 1,500 7,000 \$ 56,400
PHASE	Induced polarization survey - follow up for geochemical and magnetic surveys Allow 20 line miles @\$600/line mile	12,000
	Diamond Drilling Allow 3000' of AX drilling at \$15/ft (includes roads, supervision and assaying)	45,000

TOTAL - Phase I and II

TAOL

Geological skeller & coops. might be of general interest to you, but these occurrences are not the sort of things then the should get too inches with. The whole Marquest orea has a lage number of Pb. Za stows of the very high grade. It might grade get prove some producers if someone center find the key 1/