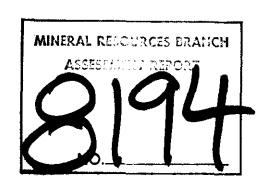
## GEOLOGICAL-GEOPHYSICAL REPORT JIM CLAIM ALBERNI MINING DIVISION

125° 52'W Longitude; 45° 10'N Latitude N.T.S. 92F \$4W

Owner: T. & S. Enterprises Ltd.
Operator: J. W. McLeod, Geologist
Consultant: E. Percy Sheppard, P.Eng.
Author: E. Percy Sheppard, P.Eng.
Date: April 21, 1980



## JIM CLAIM

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# GEOLOGICAL-GEOPHYSICAL REPORT JIM CLAIM Alberni Mining Division British Columbia

#### INTRODUCTION

The JIM CLAIM is located on the west coast of Vancouver Island, on the southwest part of Meares Island which is approximately 9 kilometres north-northeast of the village of Tofino. The L.C.P. is located on the NW corner of the claim. Record No. 439 (4)

The area is covered by conifer growth and, in places, a thick underbrush of salal. Although of low elevation, 0-135 metres, the area affords many steep faces particularly near the creeks. From air photos and ground reconnaissance, these appear to be the result of bedrock faulting.

Access to the property is by boat from Tofino or float plane from Vancouver.

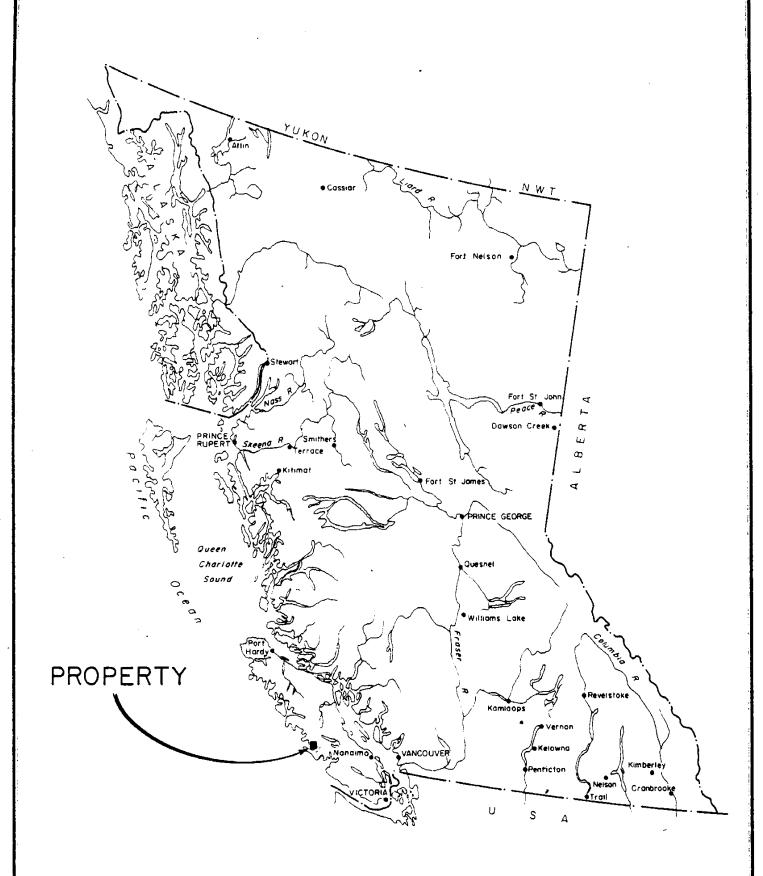
Current Owner: T. & S. Enterprises Ltd.

Operator: J. W. McLeod, Geologist

History: \*"The Kallapa property is first mentioned in the 1900 B.C. Minister of Mines report and sustained a small production of 1,512 tons of ore containing 569 oz. gold, 3,544 oz. silver, and 60,363 lbs of copper in the period 1913-14. No further work has been done or reported since this date and the workings are now collapsed and overgrown."

The Crown-granted claims of the Kallapa group straddled the west boundary of the Jim Claim.

\*Excerpt from Geological Report by F.E.Hirst, P.Eng.(1969) for Fort Reliance Minerals Ltd.



# TAS ENTERPRISES LTD

FIGURE I

<u>JIM CLAIM</u> -2

Geology: The area has been described in G.S.C. reports as being underlain by late Paleozoic West Coast gneissic rocks (Permian age) which may have been derived from the older pre-middle Pennsylvania Sicker volcanics. Reconnaissance traverses carried out by J.W. McLeod, Geologist, revealed shoreline rocks of gneissic texture and nonfoliated volcanics and/or sediments in the higher areas (possible Sicker rocks).

The Kallapa property is thought to be a Tertiary volcanic "breccia pipe". \*"This is a very distinctive breccia that occupies a roughly oval-shaped area in the vicinity of the old Kallapa showings. It has approximate surface dimensions of 600 feet (Long N-S axis) by 450 feet wide, and tends to form precipitous and loose cliff-like outcrops along its western margins."

Alteration observed in some of the gneissic rocks was strong, chloritic alteration of the mafic minerals. Pyrite was the only sulphide mineralization observed; possibly some secondary magnetite in the aforementioned chlorite, epidote, sericite altered gneissic rock.

<sup>\*</sup>Excerpts from Geological Report by F.E.Hirst, P.Eng. for Fort Reliance Minerals Ltd. (1969)

#### WORK DONE

#### Airborne Geophysical Surveys:

1. Radiometric. Lines were flown in a N-S direction starting at the north end of Lemmens Inlet and kept at a constant elevation of 70 km above ground level. Distance flown: 32 km

Instrument used: Scintillometer, Royal, which read in milli/Roentgens per hour.

The radiometric survey showed a sprawling anomaly of 2 mi/hr lying in the north half of the Jim Claim in a generally E-W direction. A 3 mi/hr "thumbprint" lies within this anomaly.

A second 2 mi/hr anomaly lies in the south part of the claim.

2. <u>Aeromagnetic Survey</u>. Lines were flown in a N-S direction, starting at the north end of Lemmens Inlet, and kept at a constant elevation of 70 km above ground level.

Distance flown: 32 km

Instrument used: Proton Precession magnetometer, which gave readings in absolute values (gamma).

The survey showed a N-S trending anomaly of up to 1600 gamma lying in the NE part of the Jim Claim. A "thumb-print" low lies on the boundary in the NW corner.

A second low lies on the center of the east boundary.

A third N-S trending low occupies the SE side of the Jim Claim.

The magnetic highs may be interpreted as rock formations containing magnetite. The "thumbprint" magnetic anomalies appear to be concentrations of magnetite occurring close to surface which have become polarized.

#### CONCLUSIONS

The Kallapa property, which gave appreciable production, is known to be a breccia pipe. With this information established, the Jim Claim should be investigated with the possibility of locating another Kallapatype deposit or a large low-grade porphyry deposit. The claim should also be prospected for gold-bearing veins.

EP Chepparl

E. Percy Sheppard, P.Eng. Consulting Geologist



April 21, 1980 Vancouver, B.C.

#### CERTIFICATE

I. E. PERCY SHEPPARD, of the City of Vancouver, in the Province of British Columbia, hereby certify THAT:

I am a Consulting Geologist, at 1606-M, 1600 Beach Avenue, Vancouver, B.C. V6G 1Y7;

I am a graduate of Dalhousie University with a B.Sc. in Geology, and have been active in mining exploration and geophysics for over thirty years;

The accompanying report is compiled from a review of the notes and maps supplied by J. W. McLeod, Geologist; a study of pertinent Government reports, and the results of the surveys carried out on the Jim Claim;

I have no direct or indirect interest in the property covered by this report, nor in the securities of T. & S. Enterprises Ltd., and do not expect to receive any such interest as a result of writing this report;

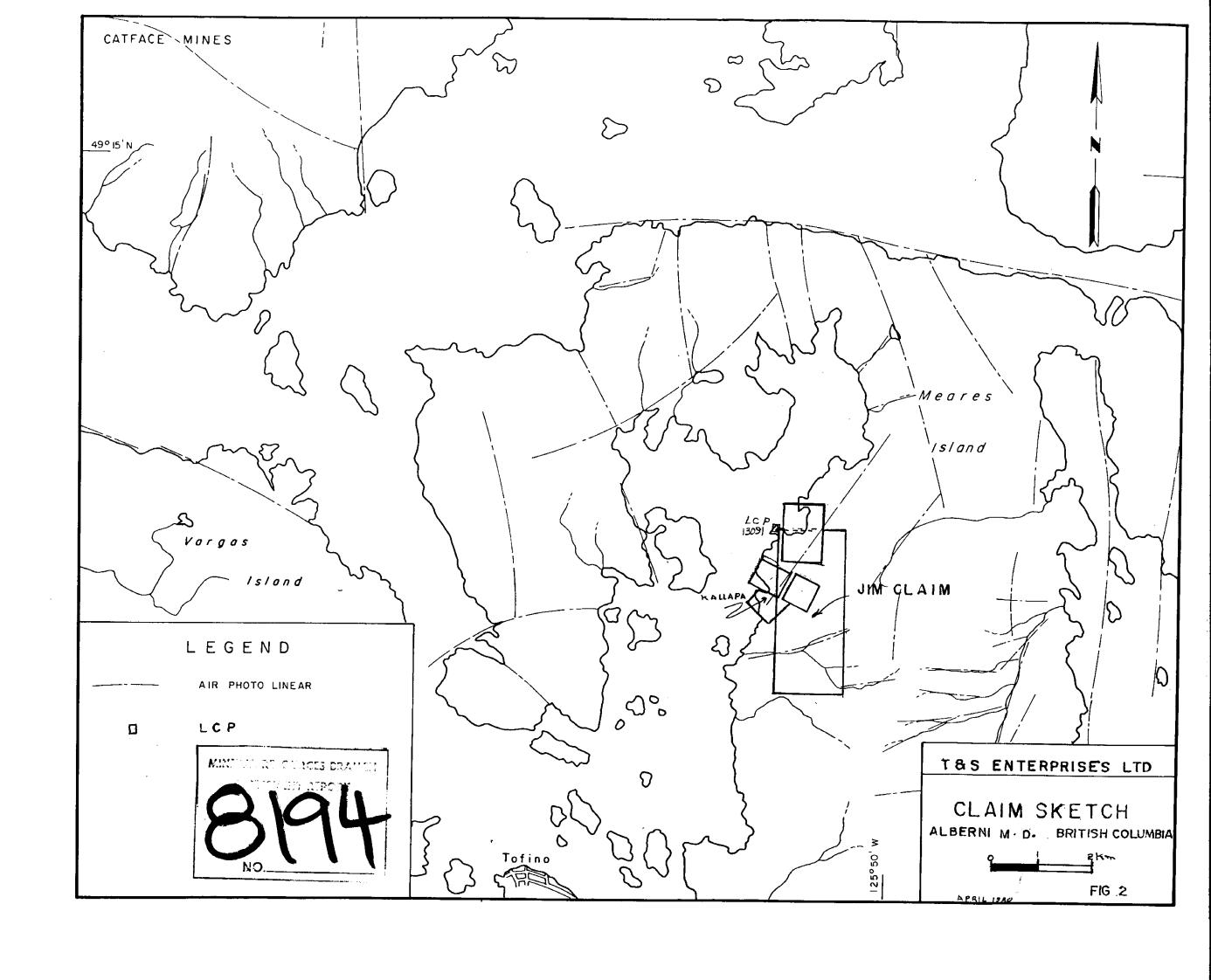
I am a member of the Professional Engineers Association of British Columbia, the American Institute of Mining Engineers, and a Fellow in the Geological Association of Canada.

DATED AT VANCOUVER, B.C., THIS 21st DAY OF APRIL, 1980.

E. Percy Sheppard, P.Eng.

#### BIBLIOGRAPHY

- Geological and Geochemical Report, "MW" claims, Hirst, P.E., P.Eng. November 27, 1969. British Columbia Department of Mines and Petroleum Resources, Assessment Report #2108.
- Geological, Geochemical and Geophysical Report on Meares Island Property, "Lone Cone" claims; Deleen, J. P.Eng., B.C. Department of Mines and Petroleum Resources, Assessment Report No. 4175.
- 3. The Plutonic Rocks of Vancouver Island, Carson, David, J.T. Geological Survey of Canada, Paper 72-44.
- 4. Field Trip 7: Guidebook, Geology of Vancouver Island, Geological Association of Canada and Mineralogical Association of Canada, Joint Annual Meeting, 1977. Vancouver, B.C.



#### COST BREAKDOWN

July 16 to August 16, 1979

Flores Island Combined Airborne Geophysical Survey; Magnetometer, VLF Electromagnetic and Radiometric

Jim Mineral Claims, 12 Units

	ours helicopter ferry t 00 per hour	time @ \$	800.00
2) 32 lir	ne km <b>@ \$</b> 75.00		2,400.00
3) Mappir fees	ng, reports and enginee	ering —	1,500.00
Total		\$	4,700.00
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