

-520452

ESPERANZA EXPLORATIONS LTD.

PROPERTY EXAMINATION

THE MT. HALEY PROSPECT

N.T.S. 82G/11W

FORT STEELE MINING DIVISION

Latitude 49°42'

Longitude 115°22'

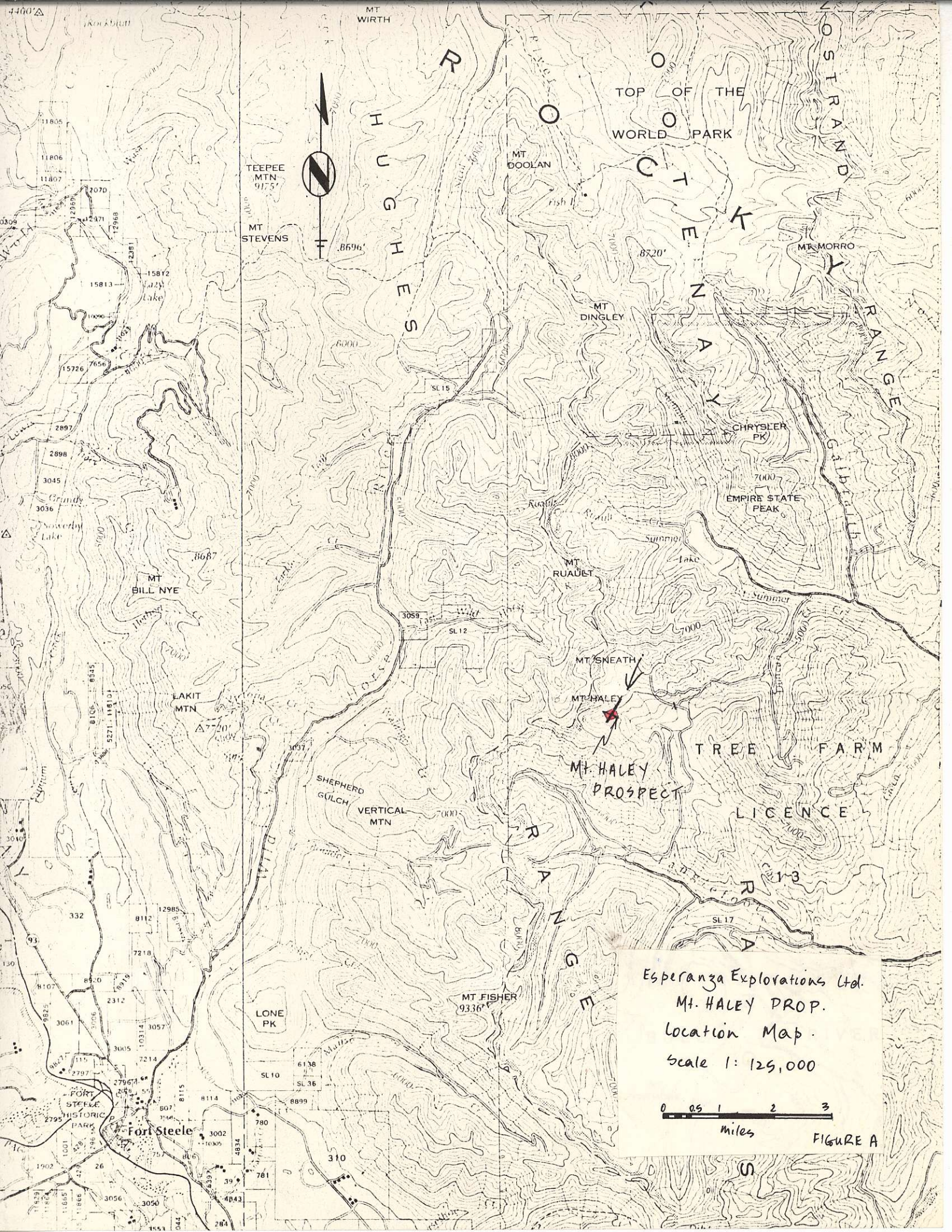
OWNER: WILLIAM SHENFIELD

March, 1980

John Jenks

TABLE OF CONTENTS

	Page
INTRODUCTION	1
LOCATION, ACCESS AND TOPOGRAPHY	1
HISTORY AND OWNERSHIP	1
GEOLOGY AND MINERALIZATION	3
CONCLUSIONS AND RECOMMENDATIONS	6
FIGURES:	
FIG. A - LOCATION MAP	Frontispiece
FIG. B - LOCATION MAP SHOWING GEOLOGY	4
FIG. C - SKETCH PLAN	2
APPENDIX - SAMPLE DESCRIPTION SHEET	



Esperanza Explorations Ltd.
 Mt. HALEY PROP.
 Location Map
 Scale 1:125,000

0 0.5 1 2 3
 miles

FIGURE A

INTRODUCTION

The Mt. Haley prospect was investigated on July 18, 1979 in company with the Vendor, Mr. Bill Shenfield.

A northeasterly-dipping sequence of shales, mudstones and limestones borders a monzonite intrusive. Within the zone of marble and hornfelsic alteration two main varieties of mineralization occur: a) a disseminated chalcopyrite-molybdenite type both within the intrusive and the adjacent hornfels and b) a system of short quartz/carbonite veins and a massive pyrrhotite vein as well as fillings in carbonate breccia material containing blebs and patches of chalcopyrite, pyrite, pyrrhotite, sphalerite and galena.

Continuity of the vein/breccia material proved inconsistent while grades generally were too low to warrant any sustained interest.

LOCATION, ACCESS AND TOPOGRAPHY

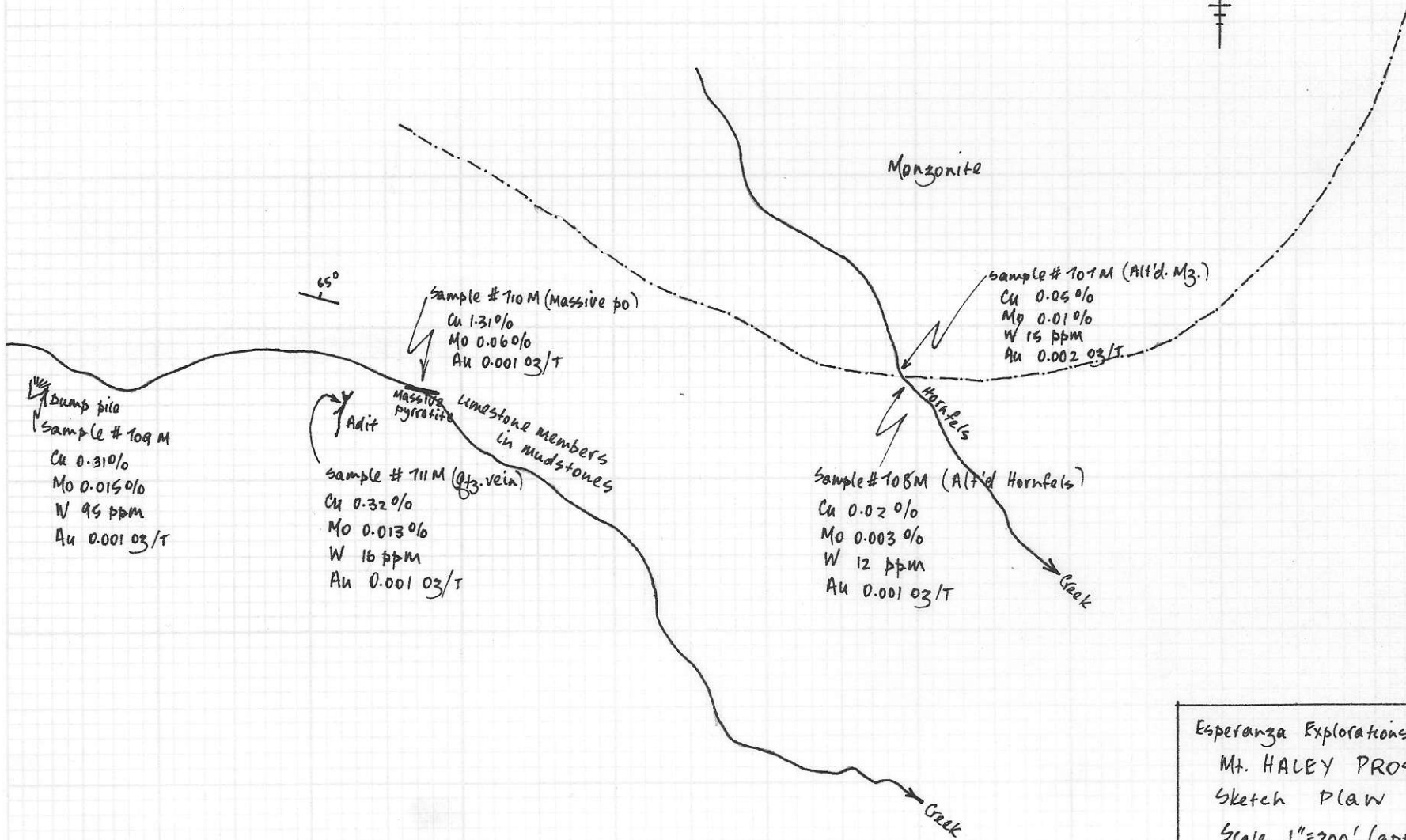
The Haley prospect is situated approximately 20 miles northeast of Cranbrook, B.C. on a southern slope of Mount Haley. Access to within one mile of the showing may be had via the Bull River and Tanglefoot logging roads.

Elevation of the property is 7,000 feet, just about at the top of the treeline. Terrain is generally steep. Water is abundant.

HISTORY AND OWNERSHIP

Early history of the property is not with with certainty. Prior activity at least 40 years previous is evidenced by the presence of at least three short exploratory adits which, with the exception of one, are collapsed.

A single 2-post claim, the HALEY 2, owned by William Shenfield, covers the showing.



Esperanza Explorations Ltd.
Mt. HALEY PROSPECT
Sketch Plan
Scale 1"=200' (approx)
U.V. Mar '80. Figure C

GEOLOGY AND MINERALIZATION

Structurally, the prospect lies in the western half of the Rocky Mountains within a region of intense folding and occasional thrust and transverse faulting. Despite the scarcity of igneous intrusions the claim is situated on the southern contact of an L-shaped monzonite intrusion approximately 3.5 miles in total length by .5 miles in width.

To the south, Leech (1958) has mapped the adjoining rock as Cambrian and (?) Ordovician undivided. In actual fact the strata consists of interbeds of limestone, shale mudstone, and occasional gypsiferous bands. Within .25 miles of the contact between sediments and monzonite, progressive contact metamorphism has resulted in the conversion of the shales and mudstones to hard, massive, fine-grained hornfels and the limestone units to marble.

Mineralization appears in two distinct types:

- a) Disseminated: within proximity to the contact both the monzonite and the hornfels are sparsely mineralized with disseminated pyrrhotite, pyrite and the occasional bleb of chalcopyrite as well as rare, tiny smears of molybdenite.
- b) Vein/fracture filling: altered limestone members contain pyrrhotite, pyrite, chalcopyrite in lenses and patches within penecontemporaneous limy breccias. Occasional quartz veinlets contain minor chalcopyrite and molybdenite. A carbonate/quartz vein, possibly remobilized, contains a few patches of dark, iron-rich sphalerite and minor galena. A short vein/horizon of massive pyrrhotite some 20 inches in thickness contains minor chalcopyrite and is oriented parallel to the bedding.



Esperanza Explorations Ltd.
 MT. HALEY PROSPECT
 Location Map showing
 geology (After Leech, 1958)
 scale 1: 125,000
 0 0.5 1 2 3
 Miles
 FIGURE B

296
 = Monzonite

CONCLUSIONS AND RECOMMENDATIONS

The monzonite intrusive mentioned previously is a mineralizer of sorts and may be responsible in part for the numerous, diverse, small mineral showings within several miles of its contact. These include scheelite on the CEDAR group, tetrahedrite on the CORONADO property, the mineralization on the Mt. Haley prospect and occasional patches and disseminations of chalcopyrite and molybdenite within the intrusive itself. Exploration activity to date has not uncovered anything of economic potential.

Rock exposure along the actual contact zone on the Mt. Haley property is indeed minimal. That which is exposed along stream channels has insufficient grade to warrant further interest.

The variation of rock type within the sedimentary sequence adjacent to the intrusive probably explains the diversity in mineralization types. Similarly, within the altered limestones, lack of significant grades and/or continuity within both vein type and breccia/fracture filling varieties of mineralization does not enhance the overall potential of the prospect.

To further examine the southern contact area of the intrusive a combination of geochemical and geophysical (magnetometer) means could be utilized to good effect, followed by drilling. However, current showings and contained metal values do not suggest an economically viable situation; nor does the small size of the associated intrusive.

No further interest in the property is recommended.

BIBLIOGRAPHY

Leech, G.B.

1958: Fernie Map-Area, West half, British Columbia;
G.S.C. Paper 58-10

APPENDIX

SAMPLE DESCRIPTION SHEET

SAMPLE DESCRIPTION SHEET

SAMPLE NO.	LOCATION AND DESCRIPTION	ASSAY FOR
707M	Mt. Haley prop.; 1st stop. Contact between monzonite and hornfels. Altered, rusty monzonite with disseminated pyrrhotite and occasional smear of molybdenite. Sample #2	Cu 0.005% Mo 0.01% W 15 ppm Au 0.002 oz./T
708M	Mt. Haley prop.; 1st stop. Contact between monzonite and hornfels, East Creek. Hornfels; dk. grey, v.f. grained, siliceous. Sample #3	Cu 0.02% Mo 0.003% W 12 ppm Au 0.001 oz./T
709M	Mt. Haley prop.; West creek. Grab from rusty dump. Monzonite, fine-grained with disseminated pyrrhotite. Chill zone?	Cu 0.131% Mo 0.015% W 95 ppm Au 0.001 oz./T
710M	Mt. Haley prop.; West creek; massive pyrrhotite with patches of chalcopyrite. Sample #7	Cu 1.31% Mo 0.06% Au 0.001 oz./T
711M	Mt. Haley prop.; West creek. Grab from tunnel. Quartz vein with pyrrhotite, pyrite, chalcopyrite. Sample #8	Cu 0.32% Mo 0.013% W 96 ppm Au 0.001 oz./T