

520473

REPORT ON CLEANING OUT OF TRENCHES AND  
RESAMPLING OF TRENCH NUMBER 2

KF 1-5, 7 CLAIMS

NEW WESTMINSTER MINING DIVISION

N.T.S. 92G/9E

Latitude 49°34'40"N

Longitude 122°05'10"W

Owned By: L. Kiss

Operator: Esperanza Explorations Ltd.

August 14, 1979

John D. Jenks

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## INTRODUCTION

### a) General

The following report describes briefly the geology and mineralization of the KF 1-5 and 7 claims located 19 kilometres northeast of Stave Lake, N.T.S. 92G/9E.

The claims, owned by L. Kiss, currently under option to Esperanza Explorations Ltd., host an impressive amount of molybdenite/chalcopyrite/bournite mineralization within east-westerly striking fractures within a quartz diorite host rock. The mineralization occurs within five different zones extending some 1400 metres from east to west and across a distance of 300 metres from north to south.

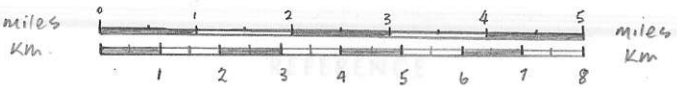
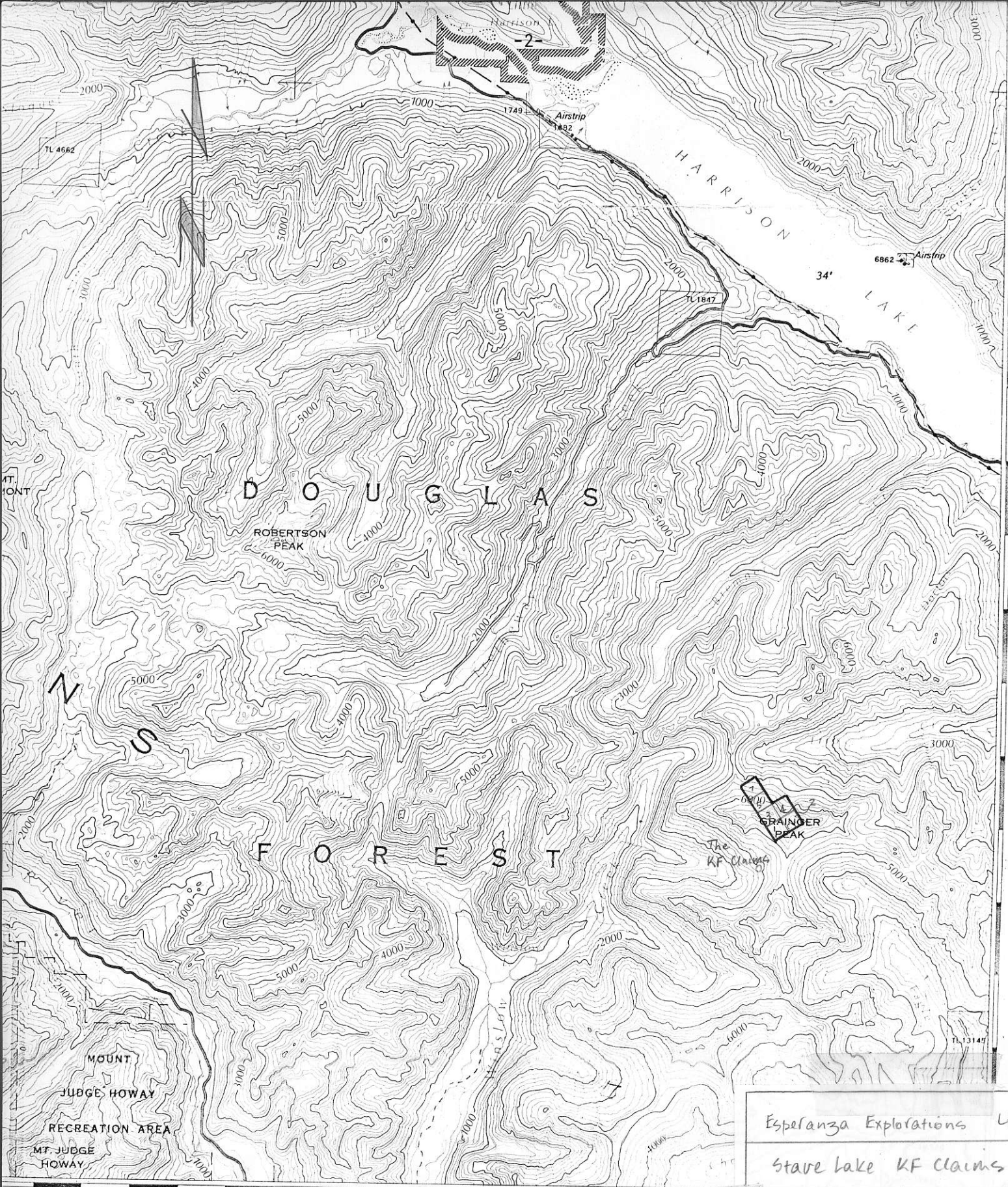
Cleaning out of old trenches and the re-sampling of trench number 2 by Esperanza Explorations Ltd. has produced assays in close agreement with previous diamond drilling done by Canex-Placer.

Further work, possibly utilizing a combination of I.P., rock geochemistry, and prospecting will be required to delineate further zones containing a density of mineralized fractures sufficiently high to constitute ore-grade material.

### b) Location and Access

The KF claims are situated on the western slopes of Grainger Peak some 50 kilometres northeast of Stave Lake.

Access to the property is by helicopter and, to that end, a Jet Ranger 206 operated by Highland Helicopters Ltd., based in Agassiz, B.C. was utilized.



Scale 1:125,000

Esperanza Explorations Ltd.

Stave Lake KF Claims

Location Map

Scale 1:125,000 Figure 1.

NTS M92 G/9E

For movement of heavy equipment over the property, road transportation via the Chehalis Lake-Eagle Creek logging road may be used to the Winslow Lake airstrip and from there slung by helicopter onto the property, a distance of 8 kilometres.

c) Topography

The terrain on which the claims are located is mountainous and on the north side of a broad cirque marking the headwaters of a west-flowing tributary of Winslow Creek. Elevations vary rapidly on the claims and mineralization was observed between 1400 and 1850 metres.

Treeline occurs at approximately 1300 metres. Terrain above the treeline is characterized by talus, snow patches, and areas of bare outcrop often precipitous in places. Water is abundant throughout the claim area.

d) History

Copper-molybdenum mineralization was first found in the area in 1969 by prospector Les Kiss in following up stream sediment sampling. The prospect was shortly thereafter staked by Canex-Placer who proceeded to map, trench, and complete seven boreholes from surface.

In 1972, the Stave prospect was acquired by Jason Explorers Ltd. who undertook further trenching and surface sampling.

Esperanza Explorations Ltd. acquired an option on the KF 1-5, 7 claims from Les Kiss in March, 1979 and have been thoroughly assessing the potential of the prospect. A first step involved the cleaning out and re-sampling of the Canex-Placer trenches, originally dug in 1969. This report describes the results of the re-sampling activity.

e) Description of Work Done

One day was spent on the property by J.S. Brock, geologist, J. Jenks, geologist, L. Kiss, prospector and J. Forster, prospector, during July 22, 1979. The property was examined and three trenches previously dug by Canex-Placer were cleaned out and sampled. Small bulk samples weighing approximately 20 pounds apiece were taken from trench #2 on KF-2 and assayed for copper and molybdenum by Min-en Laboratories Ltd. North Vancouver. A rock sample was taken to the northwest of trench number one, in addition.

While not an exhaustive programme, by any means, the intention was to confirm the general range of results from Canex-Placer and from Jason Explorers Ltd. programmes.

GEOLOGY AND MINERALIZATION

Copper and molybdenum mineralization occurs in five separate east-westerly trending zones some 60 to 100 metres wide, 60 to 160 metres apart. Mineralization consists of molybdenite, chalcopyrite, bournite, limonite with subsidiary malachite and azurite within hairline fractures and quartz veinlets up to 1 centimetre wide. One exceptional vein measured 15 centimetres in width.

Strike of the veins ranges from  $100^{\circ}$  to  $130^{\circ}$ , dips  $-65^{\circ}$  to  $-74^{\circ}$  to the north. A subsidiary set of mineralized fractures strikes north-south and dips  $-76^{\circ}$  to the east.

As indicated, mineralized veins occur in swarms of 10 or 20 with each veinlet separated by one metre or more of waste rock.



The host unit is a quartz diorite, medium grey in colour, medium grained and holocrystalline. Hornblende and biotite make up 30 to 35 percent of the rock volume and are notable in their lack of alteration, as are the feldspars.

Dykes of lamprophyre and aplite are common on the property, although not abundant. Strikes of the aplite dykes are east-westerly, of the lamprophytic dykes north-south.

Slight colour and textural variations were observed within the quartz diorite, however the rock tends to be generally uniform.

#### DISCUSSION OF RESULTS

Results from the sampling of trench number 2 are as follows:

<u>Sample No.</u>		<u>Mo %</u>	<u>Cu %</u>
716	Trench floor rubble bulk sample	0.048	0.068
717	10-metre chip sample	0.036	0.039

Canex-Placer results taken in 1969 from trench number 2 are:

<u>Mo %</u>	<u>Cu %</u>
0.19	0.09

Results from Canex-Placer boreholes 3 and 4 from the upper portions near trench number 2 averaged:

<u>Mo %</u>	<u>Cu %</u>
0.016 to 0.028	0.067

Therefore Esperanza results are in close agreement with Canex-Placer borehole values although not in agreement with Canex-Placer trenching results with respect to molybdenum.



The general nature of the rather spectacular molybdenum rosettes along hair-line fracture surfaces together with the discrepancy in molybdenum values would suggest that original Canex-Placer trench sampling was improperly done and biased in favour of higher molybdenum values.

To resolve this question, further bulk sampling of trenches would be required. Because of the diameter of the core drilled by Canex-Placer (N-size) and the minimal core losses sustained, it is felt that the borehole assays represent an accurate picture of the grades involved.

The grab sample from scree material taken to the northwest of trench number 1 was encouraging in that it assayed 0.168% copper and 0.003% molybdenum. It came from a slightly altered quartz diorite having slight limonite staining. Location of this material in situ could prove rewarding.

#### CONCLUSIONS AND RECOMMENDATIONS

The dimensions and the persistence of molybdenum mineralization is interesting on the KF claims. This is negated somewhat by the barren intervals between veins and the low overall grades resulting therefrom.

From an exploration viewpoint a reasonable aim would be to delineate one or more zones having sufficient mineralized fracture density to constitute ore-grade material. This could be approached in a number of ways:

- a) Run test I.P. lines over known mineralized zones to get an idea of the responses involved. If positive, this tool could be utilized elsewhere on the property to good effect.
- b) A systematic rock geochemistry programme with emphasis on trace elements such as W, Fl, Mo, K, Na, Mn, Pb, Zn, Ag, Bi, Rb/Sr, SW could possibly delineate alteration and differentiation zones and perhaps lead to further drill targets.

- c) Further prospecting.
- d) Further trench sampling to confirm grades.

STATEMENT OF COSTS INCURRED

The following expenditures were incurred on the KF claims during July 22, 1979.

SALARIES AND WAGES

J.S. Brock, Mining executive and geologist		
1 day @ \$250/day	\$250.00	
J. Jenks, Geologist		
1 day @ \$150/day	150.00	
L. Kiss, Prospector		
1 day @ \$100/day	100.00	
J. Forster, Prospector		
1 day @ \$100/day	<u>100.00</u>	\$ 600.00

RENTAL OF HELICOPTER (HIGHLAND HELICOPTERS LTD., AGASSIZ)

2 hr. - time @ \$350/hr.	\$700.00	
- fuel @ \$25/hr.	<u>50.00</u>	750.00

TRANSPORATION TO AND FROM AGASSIZ

3 vehicles @ \$40/ea. for 200 mi.		120.00
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ACCOMODATION IN AGASSIZ

3 man/days @ \$35/man/day		105.00
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ASSAY CHARGES

61.55

TOTAL

\$1,636.55

I hereby certify that the Statement of Costs above stated are both correct and true.

---

Irene Wilson, Corporate Secretary.

STATEMENT OF QUALIFICATIONS

I, John Jenks, Consulting Geologist of the City of Salmon Arm, B.C., hereby declare that:

- 1) I am a graduate of McGill Univeristy, Montreal, Quebec, having received in 1968 the degree of Bachelor of Science with a major in geology.
- 2) I have had twelve years experience in mineral exploration having worked mainly in British Columbia, the Republic of South Africa, and other various parts of Canada.
- 3) I am a registered Professional Geologist with the Province of Alberta.
- 4) I have no direct interest in Esperanza Explorations Ltd. nor do I expect to receive any.

John Jenks, B.Sc.  
Vancouver, B.C.  
August 14, 1979

BIBLIOGRAPHY

- Hylands, J.J. (1970) Final Report on Stave Lake Property,  
Venture 123, Canex Aereal Exploration  
Ltd. - Internal Report
- Guild, J.D., and  
Klein, J.D. (1972) Report on Stave Lake Mining Property,  
Jason Explorers Ltd. - Internal Report

APPENDIX A

DESCRIPTION OF SAMPLES TAKEN

Description of Samples Taken - KF1-S, 1 claims

.168 .003  
Cu, Mo

715m. Above L. ; grab from talus east of 6" moly vein etc. El's 1710 m. Slight alt'd Qtz-dior. with some vest patches

pp 187 2

24/7/79

Sample

Loc's

Elements

716m

Above L. ; trench #2. Rubble from trench floor (30'). Qtz-dior. w moly veins (red flag - J. Brock)

Cu, Mo  
.068 / .048

717m

Above L. ; tr. #2. This sample 30' w. moly veins Qtz dior. J. Brock

Cu, Mo  
.039 / .036

APPENDIX B

ASSAY CERTIFICATE



MIN-EN LABORATORIES LTD.

705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C.  
 Phone: 980-5814

Certificate of Assay

TO: Welcome North Mines, PROJECT No. \_\_\_\_\_  
1027-470 Granville St., DATE July 31/79,  
Vancouver, B.C. File No. 9-419

SAMPLE No.	Mo %	Cu %	Pb %	Ag
				oz/ton

Assay Results: KF 1-5, 1 claims

715	.003	.168	--	--
716	.048	.068	--	--
717	.036	.039	--	--


MIN-EN Laboratories Ltd.

CERTIFIED BY

Appendix  
B