Department of Indian Affairs & Northern Development
Northern Natural Resources and Environment Branch
APR 30 1975
Mayo Mining District
Mining Recorder and Land Agent

REPORT

on

Prop Of
Rusic Grp.

(ROSS MINERAL CLAIM)

KENO HILL AREA

105 M-14

YUKON TERRITORY

for

RIO PLATA SILVER MINES LTD.

420 - 475 Howe St.,

Vancouver, B.C.

RECEIVED
MAY 02 1975
MINING INSPECTORS OFFICE
WHITEHORSE, Y.T.

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of $100.00

Resident ~~Geologist or~~
~~Resident Mining Engineer~~

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

~~Commissioner of Yukon Territory~~
ADMINISTRATOR OF THE YUKON TERRITORY

Office Of The Supervising Mining Recorder
MAY X 2 1975
WHITEHORSE
Yukon Territory

Vernon, B.C.

April 4, 1975

By: K. L. Daughtry, P.Eng.

TABLE OF CONTENTS

LIST OF ILLUSTRATIONS

INTRODUCTION

Rio Plata Silver Mines Ltd., 420 - 475 Howe St., Vancouver, B.C. conducted a geochemical soil survey over their AZTEC group of mineral claims in the Keno Hill area of the Yukon Territory in October, 1973. The object of this work was to assess the exploration potential of the property for discovery of silver-lead-zinc deposits of the "Keno Hill" type. A picket line grid was laid out over the claim group, with north-south lines at 500-foot intervals.

As part of this programme, the Ross mineral claim was explored and the results of this work are presented in this report.

Linecutting and soil sampling were conducted by M. Hjelt, W. Makortoff and C. Marlow under the supervision of the writer, and the compilation of data was completed by W.R. Gilmour, B.Sc., and the writer in March, 1975.

PROPERTY

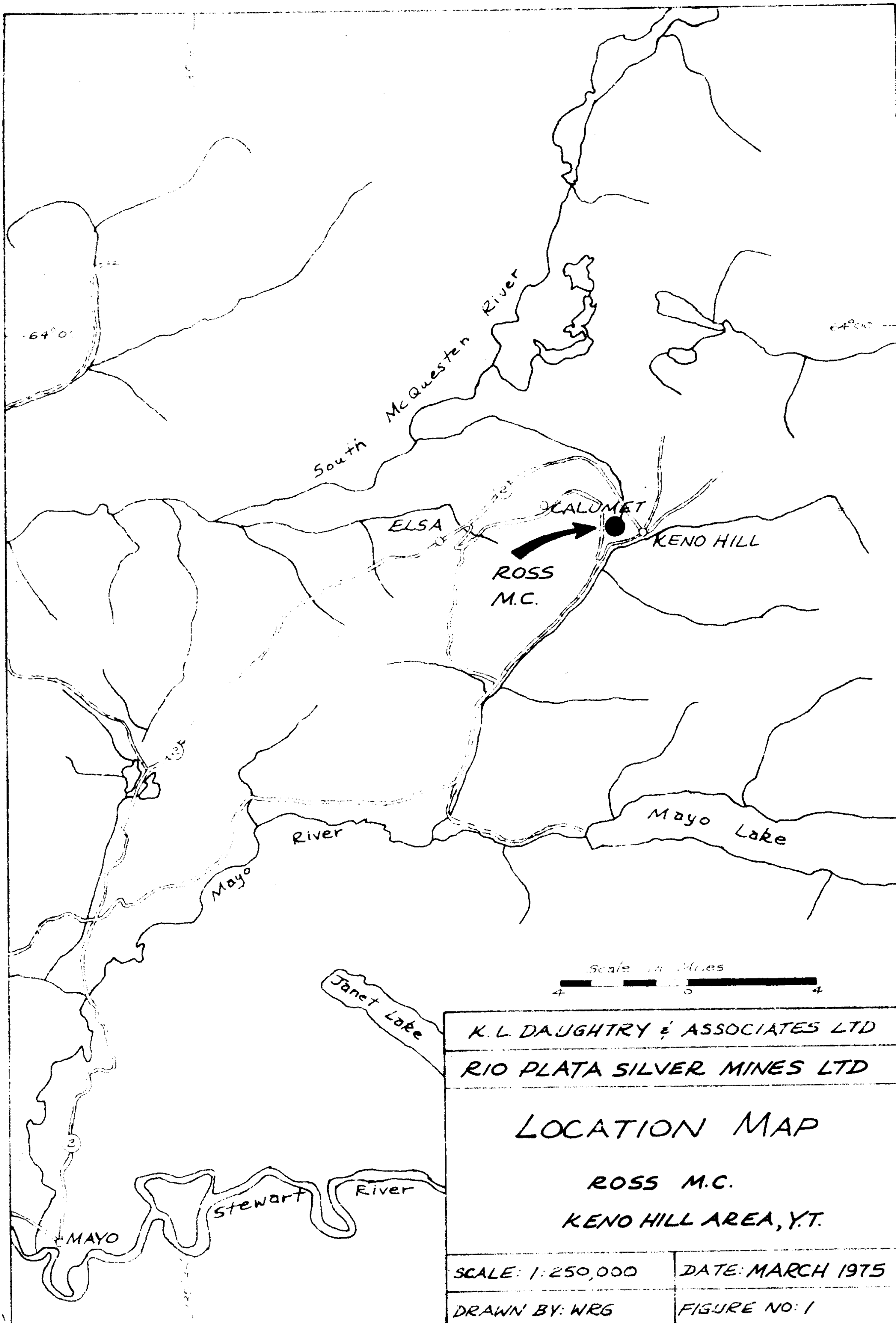
The Ross located mineral claim, Record Number Y85975, was staked on October 4, 1973 by M. Hjelt, as agent for A.D. Ross of 1101 - 1775 Bellevue Ave., West Vancouver, B.C. Mr. Ross presently holds the claim in trust for Rio Plata Silver Mines Ltd., 420 - 475 Howe St., Vancouver, B.C.

The Ross claim is part of the AZTEC group of claims owned by Rio Plata Silver Mines. It is bounded on the northeast by the Caliente M.C. (Lot 572) and on the southeast by the Mexico M.C. (Lot 574).

LOCATION, ACCESS

The Ross claim straddles Hinton Creek at the 3200-foot elevation on the eastern slope of Galena Hill in the Keno Hill area of the Yukon Territory. The town of Elsa is 4.2 miles to the west and Keno City is 1.4 miles to the east. (Figure 1)

Access to the property is gained by the old highway from Keno City to Calumet which crosses the upper part of the claim.


South McQuester River
CALUMET
ELSA
KENO HILL
ROSS
M.C.
Mayo River
Mayo Lake
Janet Lake
Stewart River
MAYO
64°00'
4
0
4
K.L. DAUGHTRY & ASSOCIATES LTD
RIO PLATA SILVER MINES LTD
LOCATION MAP
ROSS M.C.
KENO HILL AREA, Y.T.
SCALE: 1:250,000
DATE: MARCH 1975
DRAWN BY: WRG
FIGURE NO: 1

GEOLOGY

The Cretaceous Central Quartzite formation underlies the entire claim. Quartzites and phyllites of this formation generally strike easterly and dip about 35° to the south.

No mineralized vein faults of the Keno Hill type are known on the property. A major cross-fault strikes easterly across the Ross claim south of Hinton Creek.

GRID ESTABLISHMENT

A grid, based upon surveyed claim boundaries, was established over the AZTEC group in October, 1973. Lines were cut, chained, and picketed at 100-foot intervals. Three north-south lines of this grid totalling about 0.8 line miles cross the Ross claim (Figure 2).

GEOCHEMISTRY

Soil samples were collected along the north-south grid lines, at 100-foot intervals, with a grubhoe, and placed in numbered kraft wet-strength paper bags. All pertinent field data were recorded on data sheets. Samples were analyzed for lead by Bondar-Clegg and Co. Ltd. of North Vancouver, B.C. using hot aqua regia digestion and atomic absorption techniques. Lead content was reported in parts per million.

The nature of the soil on the Ross claim varies from silty to sandy brown residual material. Samples were collected beneath the humus at depths varying from 2 to 10 inches. Permafrost is present everywhere beneath undisturbed vegetation.

Figure 2 presents the results of the soil survey. Lead values range from 8 to 240 ppm., with samples containing up to 45 ppm. lead considered as background. Several anomalous values occur but a more detailed soil survey is required before a geochemical soil anomaly can be delineated. The highest values are on Line 0E near Hinton Creek. These may be related to a mineralized source above the road.

CONCLUSIONS

1. The geochemical soil survey on the Ross mineral claim has shown high lead values to occur in soils on various parts of the claim.

2. More detailed soil sampling is required to delineate the anomalous zones and to indicate the location of the source of the anomalies.

VALUATION OF WORK

Linecutting and grid establishment	
0.8 miles @ $150. per mile	$120.00
Geochemical Soil Survey	
41 samples @ $3.00 per sample	125.00
Compilation and Interpretation of data	75.00
Total	$320.00

Respectfully submitted,

Vernon, B.C.

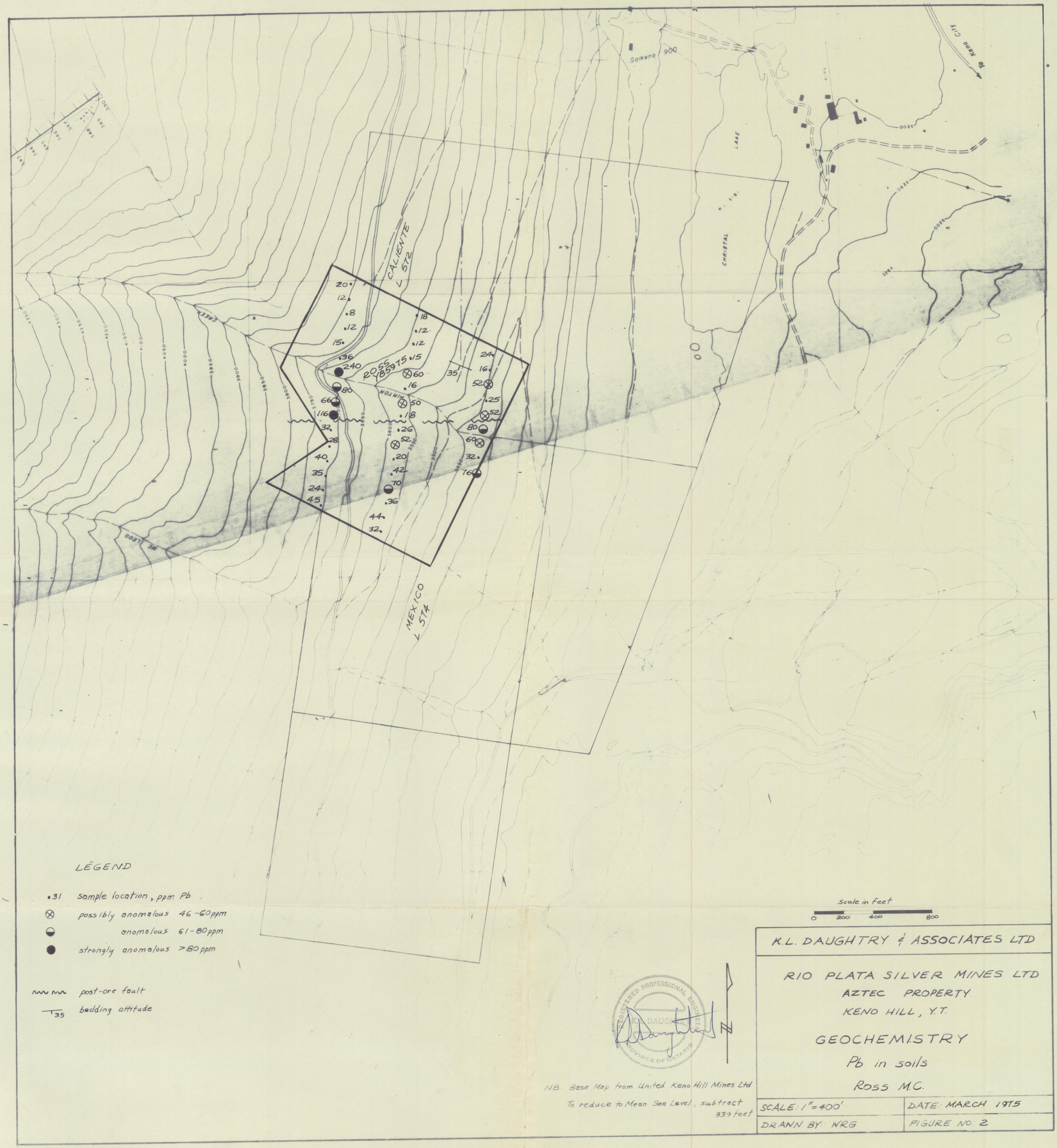
April 4, 1975.

K. L. Daughtry, B.Eng.

STATEMENT OF QUALIFICATIONS

I, Kenneth L. Daughtry of P. O. Box 795, Vernon, B.C. do hereby certify that:

1. I am a Consulting Geologist in mineral exploration.
2. I have practiced my profession for ten years in Canada, the United States and Ireland.
3. I am a graduate in Geology and Chemistry from Carleton University, Ottawa.
4. I am a member in good standing of the Associations of Professional Engineers of British Columbia and Ontario, and a Fellow of the Geological Association of Canada.
5. I have previously directed exploration work on mineral properties in the Keno Hill area for Rio Plata Silver Mines Ltd. in 1973 and 1974.
6. I have no interest direct, or indirect, nor do I expect to receive any, in the shares or properties of Rio Plata Silver Mines Ltd.



LEGEND
•31 sample location, ppm Pb
possibly anomalous 46-60ppm
anomalous 61-80ppm
strongly anomalous >80ppm
post-ore fault
35 bedding attitude
CALIENTE L 572
ROSS Y85975
MEXICO L 574
CHRISTAL LAKE
Galkeno 900
to Keno City
Scale in feet
0 200 400 800
N.B. Base Map from United Keno Hill Mines Ltd
To reduce to Mean Sea Level, subtract 339 feet
K.L. DAUGHTRY & ASSOCIATES LTD
RIO PLATA SILVER MINES LTD
AZTEC PROPERTY
KENO HILL, Y.T.
GEOCHEMISTRY
Pb in soils
Ross M.C.
SCALE: 1" = 400'
DATE: MARCH 1975
DRAWN BY: NRG
FIGURE NO: 2
REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO