

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

10,379
No.

3

LEAD-ZINC GEOCHEMISTRY REPORT

OLD BALDY PROPERTY
PRINCETON, B.C.

SIMILKAMEEN MINING DIVISION

OLD BALDY 393 (7)

GOLD 1384 (4)

MINER 1385 (4)

LATITUDE 49°25.8'N LONGITUDE 120°25.8'W
NTS 92H/8W

BY K. W. Livingstone
JMT Services Corp.
8827 Hudson Street
Vancouver, B.C.

OWNERS K. W. Livingstone
G. L. Lauzon

SUBMITTED May 7, 1982

TABLE OF CONTENTS

	PAGE
INTRODUCTION	1
MINERAL CLAIMS	1
GEOLOGY	1
GEOCHEMISTRY	1
RESULTS	4
CONCLUSIONS AND RECOMMENDATIONS	4
STATEMENT OF COSTS	5
STATEMENT OF QUALIFICATIONS - K. W. Livingstone, M.Sc.	6

LIST OF FIGURES

FIGURE 1	PROPERTY LOCATION MAP	2
FIGURE 2	CLAIM MAP	3
FIGURE 3	LEAD-ZINC GEOCHEMISTRY	IN POCKET

INTRODUCTION

The claim area is located about 6 km northeast of Princeton, B.C. on an open, grassy hillside at an elevation of approximately 650 m to 1000 m. There is considerable evidence of early work on the property as evidenced by much bulldozer trenching and drilling. This work was done by various companies including Silver Standard Mines, Granby Mines Joy Ming and Bethlehem Copper Mines. The purpose of this report was to investigate the rock geochemical pattern in the surface rocks and to determine if any economic potential remains on the property.

MINERAL CLAIMS

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>	<u>UNIT</u>
OLD BALY	393	9
JWG MINER	543	8
GOLD	1384	8
MINER	1385	8

These claims are in the Similkameen Mining Division.

GEOLOGY

The property is cut by a major bounding fault of the Princeton Basin located along Deer Creek Valley. This fault causes the Princeton Group arkosic sedimentary rocks of Tertiary age to abut against Triassic Nicola group andesitic volcanics and related microdiorite. The fault is post-mineral in age. Mineralization is restricted to the Nicola rocks.

The mineralization is pyrite and chalcopyrite with associated oxide equivalents. There are abundant brown copper oxides. The better copper mineralization is associated with local zones of k-feldspar alteration.

GEOCHEMISTRY

Much of the claim area contains outcrop in existing trenches or natural exposures. A programme of ⁵⁵rock chip sampling was completed. About 5 to 10 lbs of rock chips were placed in a plastic bags and sent



JMT SERVICES CORP.

PROPERTY LOCATION MAP

SCALE	
Drawn by	Date
Revised	Revised

49° 30'

LCP

Alison Cr.

OLD
BALDY

39371

3N
3E

LCP

Rainbow
Lake

PRINCETON

CPR

3N
3E

LCP

MINER

2W
4S

JWG
MINER
543 (3)

2S
4W

GOLD
LCP

4N
2E

Similk

3

SIMILKAMEEN RIVER



120° 30'

OLD BALDY PROPERTY M 92 H / 8 W CLAIM MAP

SCALE 1:50 000

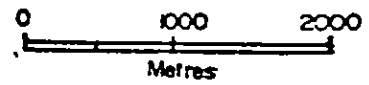


FIG.

Vangeochem Labs, in North Vancouver, B.C.

The samples were crushed and a pulp prepared for geochemical assay for lead and zinc. In areas of poor exposure where the B soil horizon could be easily reached (within 25 cm)²³, soil samples were taken and placed in kraft soil bags. The samples were dried and sieved. The -80 mesh was geochemically assayed for lead and zinc. The determinations were made by digesting a portion of the prepared pulp in a solution of nitric and perchloric acids and analysing the solution by atomic absorption.

RESULTS

In general, only low values for lead and zinc were found. There is no smooth contourable relationship of values but in general the better values are located in trenches up on the grassy bench part of the claim area. This area is adjacent to an area of open grassland which is not trenched or drilled. Overburden in this area may be many meters deep and soil sampling is not considered effective. This area is considered to have exploration potential for the extension of known lead and zinc mineralization. There does not appear to be any lead-zinc halo affect around the known copper mineralization.

CONCLUSIONS AND RECOMMENDATIONS

The area of overburden cover adjacent to the better mineralized surface outcrops warrants exploration by percussion drilling. Some of the better mineralized exposures may be drilled with some expectation of increasing the grade with depth. In particular, those outcrop areas displaying k-feldspar alteration should be evaluated further.

Respectfully submitted



K. Wayne Livingstone

OLD BALDY PROPERTY

STATEMENT OF COSTS

WAGES

K. W. Livingstone, geologist	Mar 23,24($\frac{1}{2}$),	1 $\frac{1}{2}$ days @ \$200	\$300.00
W.A.Howell, geologist	Mar 23,24($\frac{1}{2}$)	1 $\frac{1}{2}$ days @ \$200	300.00

DISBURSEMENTS

Chemex Labs	435.00
Report preparation, drafting, typing, writing	<u>597.00</u>
	<u>\$1632.00</u>

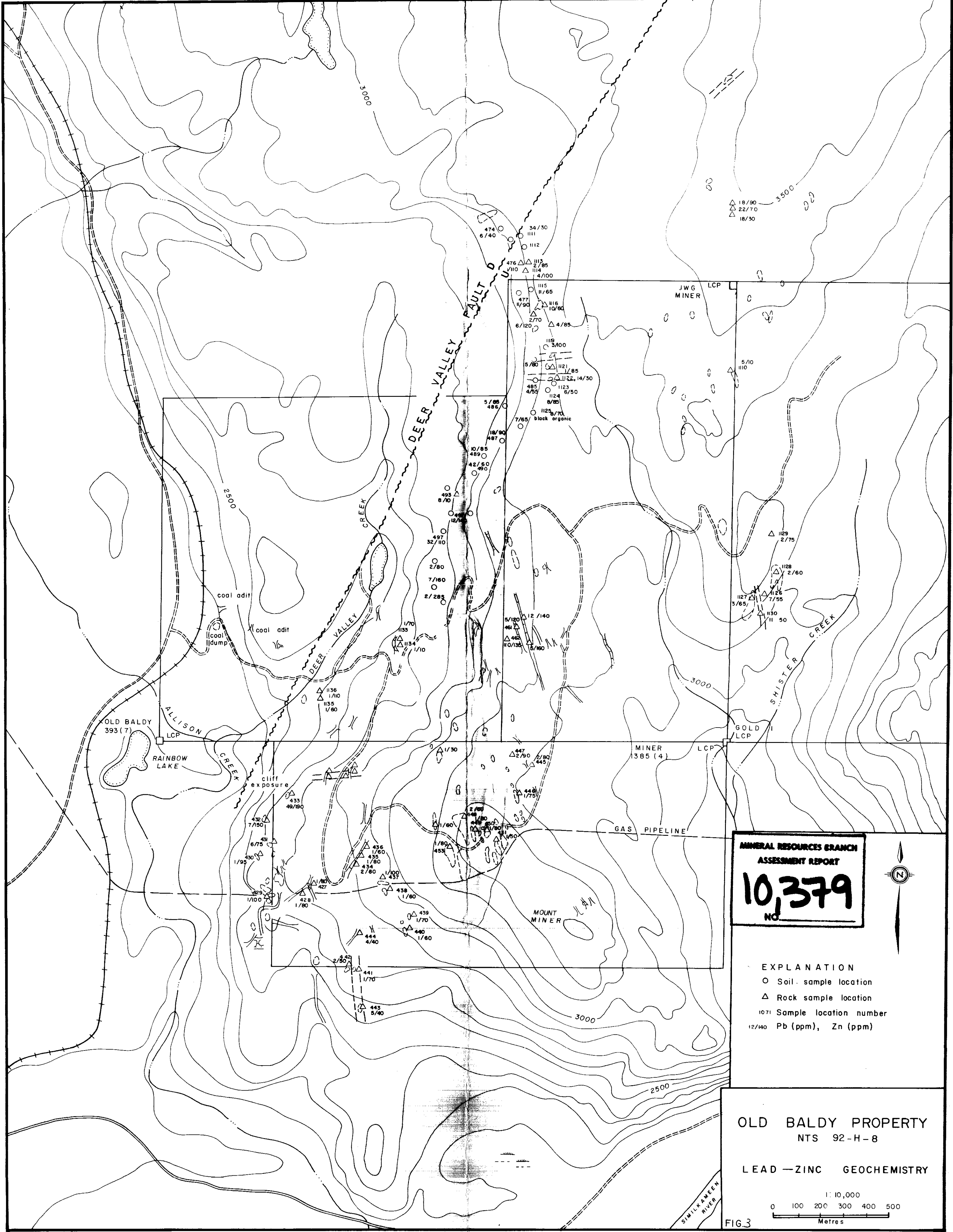
STATEMENT OF QUALIFICATIONS

I, K. WAYNE LIVINGSTONE of Vancouver, British Columbia do hereby certify that,

1. I am a Professional Geologist, working in British Columbia and residing at 6775 West Blvd., Vancouver, B.C.
2. I am a graduate of CARLETON UNIVERSITY, Ottawa, Ontario with a B.Sc. honours geology, 1966.
3. I am a graduate of the UNIVERSITY OF BRITISH COLUMBIA with a M.Sc. geology, 1968.
4. I have practiced my profession as a mining exploration geologist since 1965.
5. I am a Member of the Geological Association of Canada.
6. I am a Member of the C.I.M.M.
7. This report is based on personal knowledge of the geology and mineral potential of the claim area.



K. Wayne Livingstone, M.Sc.



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NO.

- EXPLANATION
- Soil sample location
 - △ Rock sample location
 - 1071 Sample location number
 - 12/140 Pb (ppm), Zn (ppm)

OLD BALDY PROPERTY
NTS 92-H-8
LEAD-ZINC GEOCHEMISTRY

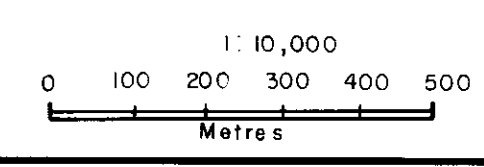


FIG.3