



UNION MINIERE EXPLORATIONS
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ASSESSMENT REPORT ON
GEOLOGICAL MAPPING, GEOCHEMICAL SOIL SAMPLING,
AND ROCK SAMPLING ON THE
LIZARD AND DINOSAUR CLAIMS

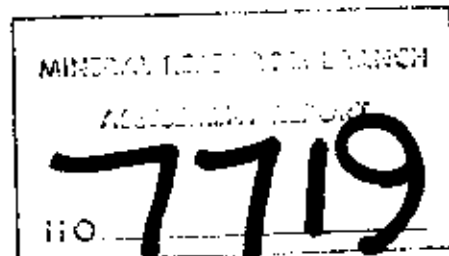
Record Nos. 276, 277
Alberni Mining Division

by

A. Pauwels, B.Sc.

Work Dates: October, 1978; August, 1979

Report Date: February 20, 1980



CONTENTS

	Page
INTRODUCTION	1
GEOLOGY AND MINERALIZATION	1
GEOCHEMICAL ROCK AND SOIL SURVEYS	2
Line Placement and Sampling	2
Surveys	2
CONCLUSIONS AND RECOMMENDATIONS.	2

Appendices

- APPENDIX I - STATEMENT OF EXPENDITURES
- APPENDIX II - AUTHOR'S QUALIFICATIONS

Figures

following page

FIGURE 1 - Location of Lizard and Dinosaur claims, 1:50,000	1
FIGURE 2 - Lizard Group, Geochemistry and Geology, 1978 - 1:10,000	1
FIGURE 3 - Lizard and Dinosaur Claims, Soil Geochemistry for Gold, 1978-1979, 1:10,000	1

ASSESSMENT REPORT ON
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INTRODUCTION

The Lizard and Dinosaur claims are located 15 kilometres southeast of Port Alberni south of China Creek, on the eastern shore of Lizard Lake (see Figure 1). Access to the property is excellent by well-maintained private logging roads, owned by MacMillan Bloedel.

The centre of the claims is at $49^{\circ}8'30''\text{N}$ and $124^{\circ}40'\text{E}$ and elevation ranges from 750 to 1300 metres above sealevel. The claims are within the Vancouver Island Ranges of the Insular Mountain Physiographic Subdivision.¹ Geological mapping, geochemical soil sampling and rock sampling were done in October, 1978 by R. Turna, B.Sc. and A. Pauwels, B.Sc.

GEOLOGY AND MINERALIZATION

The geology of the area has been described by Stevenson² and Muller³. Part of the claims were mapped by geologists of Western Mines in 1976⁴.

In 1979 outcrop along logging roads were examined by UMEX. The location of float samples with quartz and massive pyrite and gold mineralization (sample 1, Figure 1) prompted the staking of the Lizard and Dinosaur claims in 1978.

The area of the claims (see Figure 2) is underlain by Sicker Group (Paleozoic) cherts, fine grained tuffs and agglomerates of andesitic to dacitic composition. These volcanics and sediments are overlain by a thick sequence of cherty crinoidal limestones and minor sediments similar to the Permian Buttle Lake Limestone. Small dykes and irregular plugs of feldspar porphyry intrude both volcanics and sediments and are probably related to

¹Holland, S.S., 1964, Land Forms of British Columbia: a physiographic outline, B.C. Department of Mines & Petroleum Resources Bulletin 48

²Stevenson, R., 1944, Geology and Ore Deposits of China Creek Area, Vancouver Island, B.C., Minister of Mines, B.C. Annual Report

³Muller, 1977, G.S.C. Open File 463, Geology of Vancouver Island, B.C.

⁴Assessment Report 6153, Tasha Claim

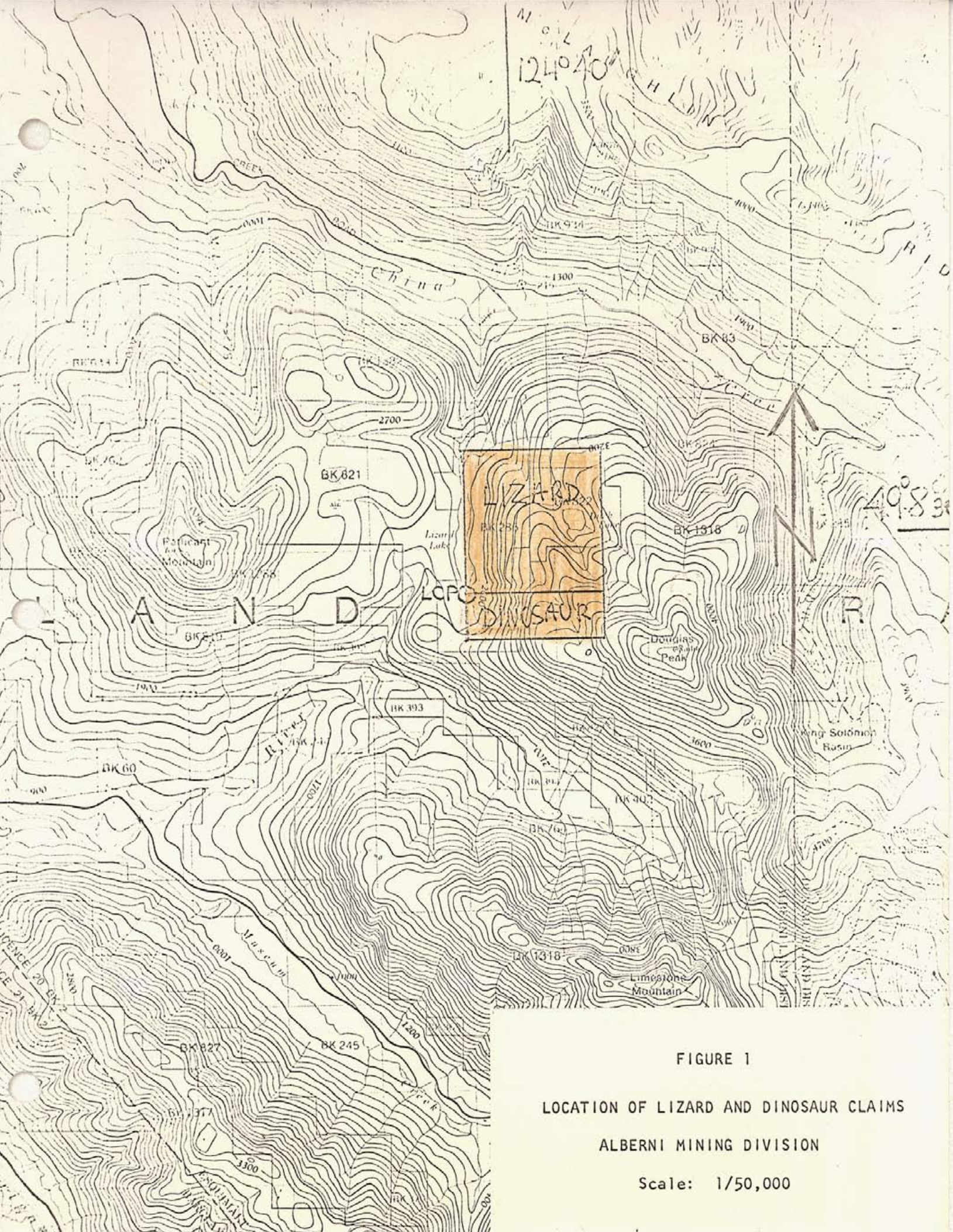
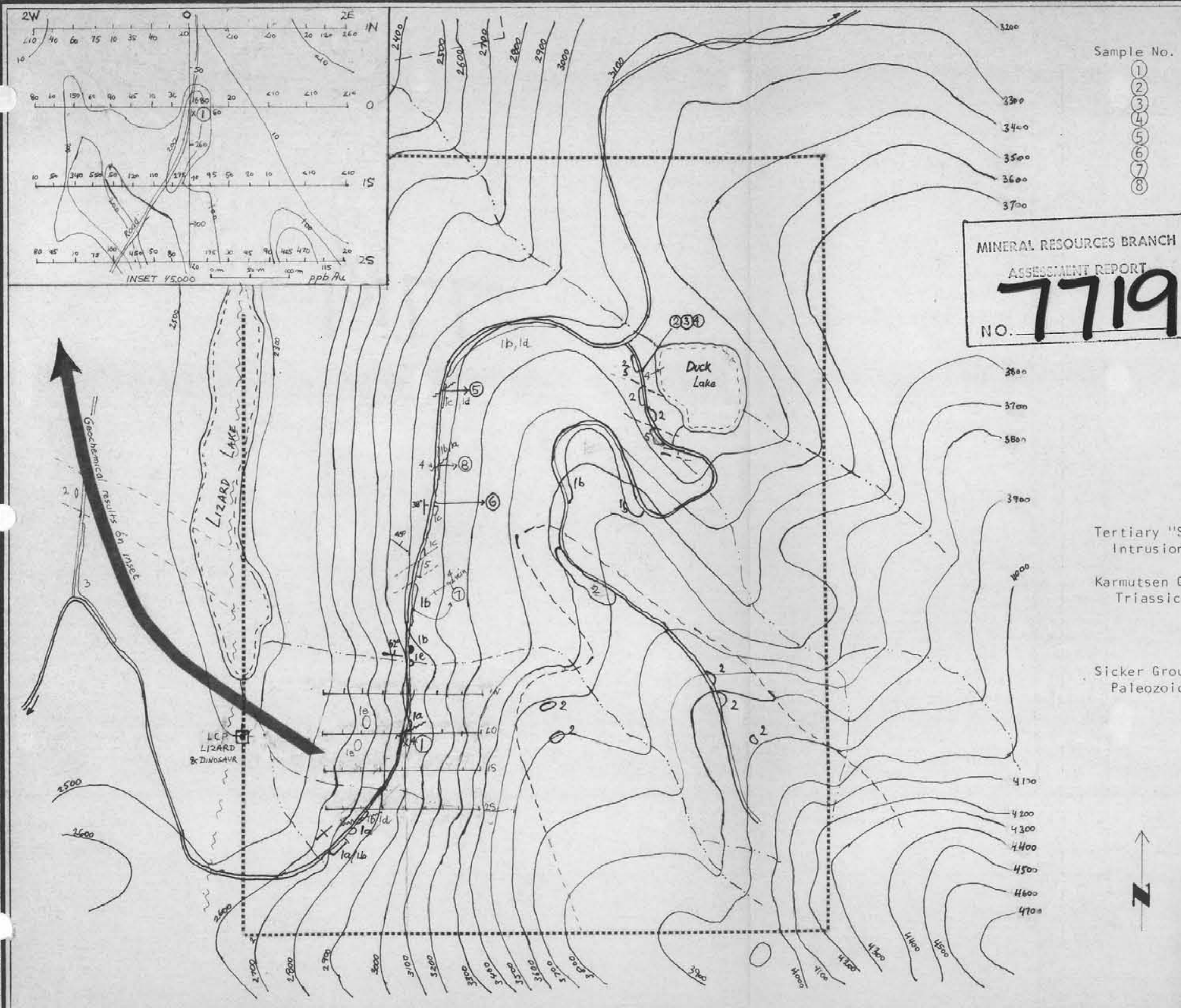


FIGURE 1
 LOCATION OF LIZARD AND DINOSAUR CLAIMS
 ALBERNI MINING DIVISION
 Scale: 1/50,000



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
7719
NO.

Sample No.	Au-oz/ton	Ag-oz/ton	Length
1	0.11	0.87	grab
2	<0.003	<0.01	chip 3 m
3	<0.003	<0.01	chip 3 m
4	<0.003	0.01	chip 3 m
5	<0.003	<0.01	chip 0.3 m
6	<0.003	<0.01	chip 0.4 m
7	<0.003	0.01	chip 0.7 m
8	<0.003	<0.01	chip 1.2 m

- Legend**
- outcrop
 - geological contact
 - strike and dip
 - float
 - claim boundary
 - soil sample site, Au in ppb (see inset)
 - topographic contours in feet
 - logging road
 - creeks

- Geology**
- (5) feldspar-hornblende-porphyry; dykes, small plugs
 - (4) quartz veins
 - (3) basalt, flows
 - (2) crinoidal limestone, Butte Lake Formation
 - le basaltic dykes
 - ld chert
 - (1) lc rhyolite and dacite tuff
 - lb agglomerate (andesitic to dacitic)
 - la tuff

Tertiary "Sooke Intrusions"

Karmutsen Group Triassic

Sicker Group Paleozoic

A. Powell
Figure No. 32

LIZARD GROUP
- 1918 -
Geochemistry and Geology

N.T.S. 92F/2E

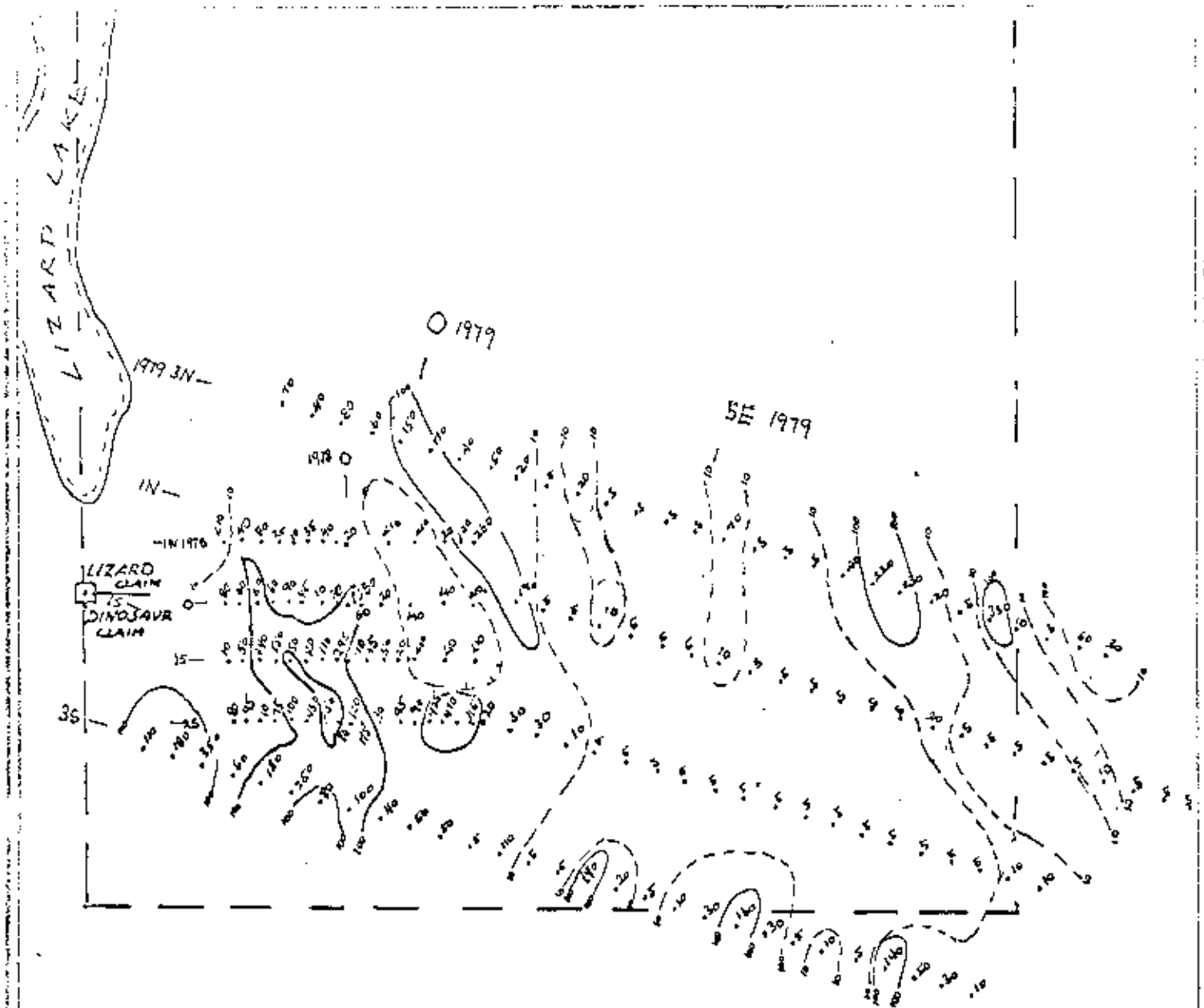
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UMEX CORPORATION LTD.

Drawn by AP
Date OCT 75
Surveyed by AP,RT

DWG. No.

BCIL 5830B U.M.



• 300 Soil sample site, value in ppb
 values contoured at 10 and 100 ppb Au.
 □ Legal Cornerpost.

A. Powell

Figure No 3

LIZARD & DINOSAUR CLAIM 1978 - 1979 SOIL GEOCHEMISTRY FOR GOLD NTS 92 F 2 E	
Scale: 1/10,000	
UMEX CORPORATION LTD.	
Drawn by: AP Date: 1/1980 Surveyed by: FT.AP.	DWG. No



200m

intrusions of Tertiary Age that occur extensively 3 kilometres west on Patlicant Mountain.

GEOCHEMICAL ROCK AND SOIL SURVEYS

Line Placement and Sampling

Lines were traced by compass, marked with coloured vinyl flagging and distances were measured with a hip chain. In 1978 stations were marked every 25 metres and lines were run at 100 metre intervals. In 1979 stations were marked 50 metres apart on lines at 200 metre intervals. Soil samples were collected from the B-horizon soil and were analysed for gold by Chemex Labs Ltd. of North Vancouver in 1978; in 1979 soil samples were analysed by Acme Analytical Laboratories Ltd. of Vancouver. Rock samples were continuous chip samples taken by rock hammer over quartz veins. The rock samples were analysed for gold and silver by Chemex Labs Ltd.

Surveys

In 1978 a small soil survey (62 samples) was centred on the place of discovery of the high grade gold float. In 1979 102 samples were taken north, south and east of the 1978 grid (see Figure 3).

The soil results indicate values of gold varying from 5 ppb to 1680 ppb. Generally background gold contents in soils are believed to be 5 ppb or less, which is equal or less than the lower limit of detectability by present routine analytical techniques, so all values over 10 ppb gold are considered anomalous and thought to represent gold mineralization in bedrock.

The results show a highly anomalous area (greater than 100 ppb Au) on the western third of the grid. The highest values for gold (less than 100 ppb Au) are centred on lines 1S and 3S, 0, (1979 grid). The highest value (1680 ppb Au) was found at the same spot where high grade float samples were taken in 1978. The soil sampling grid is situated on a steep, mostly overburden covered slope dipping due west. The trend of the soil anomalies appears to be north-northwest. Seven quartz veins were sampled on the claims, none of which had anomalous contents of gold or silver.

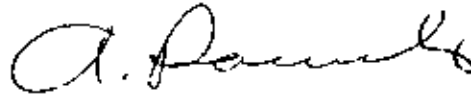
CONCLUSIONS AND RECOMMENDATIONS

Highly anomalous values for gold were found in soils on the Lizard and

Dinosaur claims, mostly in the western part of the surveyed area. Float samples, showing quartz and massive pyrite, showed high gold and silver contents of 0.11 and 0.87 oz/ton, respectively. The trend of the gold soil anomalies indicates a source trending in a north-northwesterly direction. The width of the soil anomaly could be largely due to downslope mechanical dispersion of suboutcropping gold mineralization from a north-northwesterly striking linear source.

Further soil sampling and prospecting is recommended north and south of the present surveys. Trenching should be done, where overburden conditions appear favourable, on the geochemical soil anomalies located to date.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read 'A. Pauwels', written in dark ink.

A. Pauwels

APPENDIX I

STATEMENT OF EXPENDITURES

Personnel

1978 Mapping, Sampling, Lines

A. Pauwels, October 18 and 19, 1978, 2 days @ \$129.76/day. . \$ 259.52
 R. Turna, October 18 and 19, 1978, 2 days @ \$ 59.28/day. . 118.56

1979 Mapping

F. Thrane, August, 1979, 4 days @ \$56.24/day. 224.96

Accommodations/Meals

1978 - 5 days @ \$15/day 75.00
 1979 - 4 days @ \$20/day 80.00

Truck - equivalent rental, 6 days @ \$40/day. 240.00

Survey Material (sample bags, tape, thread). 10.00

Shipping Samples 11.00

Analysis - 1978 - 8 rock samples for Au/Ag @ \$6.80 ea.. . . . 54.40
 1978 - 62 soil samples for Au @ \$2.92 ea.. . . . 181.04
 1979 - 102 soil samples for Au @ \$3.15 ea.. . . . 321.30

Report, office supplies, typing, drafting. 50.00

TOTAL \$1,625.78

APPENDIX II

AUTHOR'S QUALIFICATIONS

I, Andre M. Pauwels of 4900 Mariposa Court, Richmond, B.C., hereby certify that:

1. I am a graduate of the Rijksuniversiteit of Ghent, Belgium, B.Sc. Geology in 1970.
2. I have practised my profession since 1970 with Union Miniere Explorations and Mining Corporation Limited (UMEX) in Ontario (1970-1972) and British Columbia (1972-1978).
3. I am a member of the Geological Association of Canada and the Association of Exploration Geochemists.