82-256-10315

GEOCHEMICAL REPORT

Ĵ,

٦,

۱. کار

₩. • ****

ð .

ِ ۾ ا

1

Γ. .

- ((- •

ř

1

·...

\ \ \ MSTSACHA MINERAL CLAIM TSACHA MOUNTAIN AREA OMINECA MINING DIVISION. NTS M93F/2W LATITUDE 53°16'N LONGITUDE 124°52'W DATES OF WORK: Jan 19 - March 10, 1982

by

K. Wayne Livingstone, M.Sc. Colin Harivel, B.Sc.

owner K. Wayne Livingstone

operator JMT SERVICES CORP.

submited April 20, 1982



TABLE OF CONTENTS

			PAGE
LIST OF ILLUSTRATIONS	L		i
SUMMARY			-
INTRODUCTION		1	 7
LOCATION AND ACCESS	i i		1
MINERAL CLAIMS	7		- 7
REGIONAL GEOLOGY	, 	ł	-
GEOLOGY OF THE PROPERTY			<u>ـ</u>
GEOCHEMISTRY		, , ,	т Л
CONCLUSIONS	•)	
STATEMENT OF COSTS			5
STATEMENT OF QUALIFICATIONS	- K. Wavne Livingstone	M So	0 7
	Colin Harimal D C-		,
	Will Barlvel, B.SC.	, ,	8



LIST OF ILLUSTRATIONS

> . .

ŗ

.

		PAGE
FIGURE 1	PROPERTY CLAIM MAP	2
FIGURE 2	CLAIM MAP	-
FIGURE 3	GEOCHEMISTRY MAPS, -Cu, Pb, Zn	TN DOTED
	- Au, As	IN POCKET
		IN POLKET
:		
۲		: 1
1		Ì
		:
i		
		,
l		
•		
-		
	•	
ļ		
4 4	L.	
	*	
1		
(
	· · · ·	
		•
		1 1
		i t

ii.

16

r.

SUMMARY

In 1980, a multi-element anomaly was indicated by the results of a reconnaissance stream sediment survey. Subsequent prospecting was encouraging and the area was staked and sampled further.

Geological and geochemical evidence supports the possibility that a volcanogenic massive sulphide deposit exists in the area and further geological mapping and geochemical sampling is recommended.

INTRODUCTION

JMT geologists in July 1980 sampled stream sediments in geologically favourable areas in this region during the course of a programme funded by Prism Resources. Results indicated the Tsacha Mountain area to be of interest; two samples from adjacent streams returned highly anomalous results in copper, silver, zinc, arsenic, manganese and molybdenum.

The area was staked in July and traversed and sampled by JMT geologists. Prism personnel worked on the property in September 1980.

The presence of a jasperoid unit within a sequence of Takla formation rhyolites, together with the widespread anoamlous copper and zinc results cause the area to be of further interest.

Recent exploration for silver deposits in this region has met with favourable results, particularly on "Capoose" property, a few miles to the north west of Tsacha Mountain.

In the 1981 analysis programme, 124 samples were analysed for Au and As and of these 32 were also analysed for Cu,Zn, Pb, Ag. Of these, 14 were stream sediments, 21 were rock chips and 89 were soils

LOCATION AND ACCESS

The Mstsacha property, consisting of the Mstsacha 20 unit claim, is located at an elevation of 1400 metres about 110 kilometres south of Burns Lake in the Omineca Mining Division. It lies about 6 kilometres northwest of Tsacha Lake.

Access is by helicopter from any of Burns Lake, Houston or Prince George all of which support permanent bases for helicpter service companies. A number of suitable landing spots exist on and near the property. 1

MINERAL CLAIM			
CLAIM NAME	UNITS	RECORD NUMBER	RECORD DATE
MSTSACHA	20	3089	August 7, 1980
			-
		,	





GEOLOGY OF THE PROPERTY

The exposures on the property include rhyolite crystal tuffs, breccias, andesitic lappili tuffs, argillite and minor limestone. Minor granodiorite dykes were noted. Associated with the rhyolitic rocks is a manganiferous jasperoid unit.

GEOCHEMISTRY

A previous assessment report described anomalous results for soil and stream sediment samples, particularly in Cu and Zn. The present work extends the zinc anomaly to the southwest some 500 m along the ENE trend established by the 150 ppm Zn contour. There is weak support in this area (WL 683-697) from Cu results.

In the northern part of the sample area very significant anomalous results for As were returned in an area previously recognized as anomalous for copper.

Results for Au are low and nowhere encouraging.

New analyses for Cu, Pb, Zn, Au, As are plotted on Figures 3 and 4 and are summarized in the table below.

ELEMENT	LOW	HIGH	ESTABLISHED AVERAGE	ESTABLISHED BACKGROUND	CONSIDERED ANOMALOUS
Cu	4	61	. 17	4 - 30	45
Pb	5	47	14	5 - 25	30
- Zn	36	530	100	36 - 100	150
Au 🕜	0.02	0.05	້0.02	0.02	0.04
As	3	950	20	3 - 35	50
				1	

The soil samples were collected from the B horizon, where possible, with a scoop. Rock chips were collected using 5 - 10 chips for a total weight of about 400 g. Stream sediment was collected from the active bed of creeks and sufficient material was gathered to yield a few grams of -80 mesh material. All samples were placed in labled kraft paper bags and shipped to Vancouver. A summary of the analytical method vollows:

Cu ppm	0.5 g	attache	d with	HCLO /H	NO	analysed	by	atomic	absorption
Pb ppm	Π		•	n 4	" 3	n	'n	×	"(background corrected
Zn ppm	W	=		Ħ	11	•	tt	ж	n
Ag ppm		•		Ħ	•	*	-	Ħ	"(solvent extraction)
Au ppm	3.0 g			HBr/Br		•	88		
As ppm	0.5 g	•		HCLO4/H	NO ₃	10	¥		"(hydride generator)

CONCLUSIONS

The claim area has geological and geochemical evidence indicating the possible presence of a volcanogenic massive sulphide deposit. Further geological mapping and geochemical sampling is warranted.

New analyses, particularly for Zn and As, have enlarged the areas of interest and add support for the acquisition of more ground to the north and east of the present claim.

About 7 days of mapping and sampling on a scale of 1:5000 should be done. Mapping should concentrate on the manganiferous jasperoid horizon and closely associated rock units. Geochemical sampling should include about 1300 m of soil samples lines, spaced about 200 m apart with 50 m between samples. Rock chip samples of most outcrops should be collected and, like the soils, analysed for Zn, Cu, Pb, Ag.

Respectfull submitted. vingstone, M.S.c Colín veľ, B.Sc.

STATEMENT OF COSTS MSTSACHA PROPERTY

TIME

G. Richards	Jan 19/82	1	đay	@	\$200	\$ 200.00
C. Harivel	March 8, 9/82	2	đay	0	\$200	400.00
K.W.Livingstone	Mar 5(1), 15(1)	1	day	9	\$200	200.00
						La.

Geochem

Report, writing, typing, drafting

200 200.00 200 200.00 1,415.50 <u>1,500.00</u> \$ <u>3,715.50</u>.

6.

STATEMENT OF QUALIFICATIONS

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

- 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.

STATEMENT OF QUALIFICATIONS

I, Colin Harivel, of VAncouver, British Columbia, do hereby certify that:

1.

з.

4.

I am a geologist residing at 3996 West 10th Avenue Vancouver, British Columbia

I am a graduate of the University of British Columbia;
B.Sc. Honours Geology, 1972

I have practised my profession as a mining exploration geologist continuously since 1972

I am a Fellow of the Geological Association of Canada.

D Colin Harivel, B.Sc.







