2497

REPORT
ON
THE RWS AND IST GROUPS
OF
MINERAL CLAIMS
NICOLA M.D., B.C.

For:

EXEL EXPLORATIONS LTD. (N.P.L.) 1250 Bentall One Vancouver, B. C.

By:

ALLEN GEOLOGICAL ENGINEERING LTD. 507-789 West Pender Street Vancouver 1, B. C.

November 30th, 1969

TABLE OF CONTENTS

									Page
INTRODUCTION			• • • • •		••••		• • • •		1
LOCATION AND	ACCESSI	BILITY	• • • • •					••••	2
TOPOGRAPHY,	PIMBER,	CLIMAT	B	••••	•••	••••	• • • •	••••	2
CLAYMS				• • • • •	••••	• • • •	• • • • •	••••	3
GEOLOGY		• • • • •	••••		••••	••••		••••	4
SUMMARY AND						eri Salasi			
RECOMMENDATIO									
REFERENCES		•••••						•••	10
WAP #1- CLA	IM MA	P-							Cear
	V2 " = 150	01							

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 2497 MAP

OF MINERAL CLAIMS

NICOLA M. D.

B. C.

INTRODUCTION

on the east side of Guichon Creek in the Mamit Lake area. The property was examined by the writer September 23rd and 24th, 1969. The many logging and range reads which crisscress the property were inspected with a four-wheel drive vehicle and outcrop areas adjacent to and near the roads were examined. Traverses were made from the roads for a mile and more to complete a preliminary coverage of the property.

The purpose of the report is to record observations made during the examination, and with the use of data
supplied by Mr. Gordon Brand who accompanied the writer, and
government maps and reports, compile as complete a description as possible of the property and local geology, and outline a works programme deemed most practicable for the exploration of the area.

LOCATION AND ACCESSIBILITY

The preperty is located in southwestern British Celumbia. It is fifteen miles north of Merritt, via the Highland Valley road. It includes Mamit Lake in the north-westerly corner, and extends from Guichon Creek easterly from two to three miles up the lower west slopes of Guichon and Swakum mountains. Rey Crek flows westerly through the central portion of the claims area.

Geographic location is approximately north 50°22' latitude and 120°46' west longitude.

Access is by highway from Vancouver to Merritt or Ashcroft and excellent road north from Merritt or south and east through the Highland Valley from Ashcroft. It may also be reached by secondary road south from Savana or the Le Jeune Lake road south and west from Kamloops.

TOPOGRAPHY, TIMBER AND CLIMATE

The general slopes are westerly into the broad valley of Guichon Creek and Mamit Lake. The elevation range is approximately 3,500 to 4,500 feet above sea level. The small hills and even ridges are rounded with only occasional angular bedrock projections breaking through light overburden.

The timber is chiefly scattered stands of small jackpine and fir, much of which has been logged off.

The climate is pleasant and amenable to year-round exploration and mining projects. Snow and freezing temperature may be expected from November to April. The months of July and August are hot and dry.

CLAIMS

The holdings of Exel Explorations Ltd. (N.P.L.), are as follows:

	<u>Claims</u>	Record Numbers					
RWS	1 - 120	39950 - 40069 incl.					
ISY	1 - 44	40070 - 40115 Incl.					
ISY	121 and 122						

During the examination of the property, some but not all of the location lines and claims posts were observed by the writer, and it is his opinion that they are staked in accordance with the requirements of the Mineral Act of British Columbia.

The property is shown on the accompanying claims map traced from 5.C. Dept. of Mines Map 92 I/7 W (M).

GEOLOGY

The general geology of the Merritt area is well described in government reports and papers. Descriptions of the Craigmont and Bethlehem mines have been published. A very brief resume only is included in this report.

The oldest known rocks in the area are the Pennsylvanian and/or Permian Cache Creek metasediments and metavolcanics. These are overlain unconformably by a wide northsouth belt of Upper Triassic sedimentary and volcanic rocks of the Nicola Series. In turn Jurassic and Lower Cretaceous sediments and volcanics lie on the Nicola rocks. These form two belts converging to the north. Remnants of Upper Cretaceous to Mid Tertiary rocks lie in irregular north-south elongated basins near Hedley, Princeton, Aspen Grove, Merritt and Cache Creek. The Lower Tertiary Princeton and Kamloops groups of rocks occur near Princeten, Merritt and Kamloops. Tertiary basalt covers small areas near Merritt and over larger areas north and south of Kamloops. Extensive areas of granodicrite and quarts disrite are exposed throughout the region. This is considered to be mostly Jurassic in age. Younger granite and syenite considered to be late Jurassic and Lower Cretaceous occur and are exposed over smaller areas.

Minor faulting has produced northerly and north-

westerly trending depressed blocks in which occur marine and continental Mid Jurassic to Early Tertiary deposits.

One of these extends northerly from Merritt along the east side of the Guichon Batholith. Within these down faulted blocks folding is lengthwise and steeply plunging.

Development of the Craigmont mine near Merritt has demonstrated important controls in the localization of that iron-copper mineralization. These are: first, proximity to the Guichon batholith which is considered to be the source of the mineralizing solutions; Second, the presence of altered impure limestone; and third, folding which thickened the favourable limestone strata.

Upper Triassic rocks of the Nicola group underlie
the Exel Explorations property. These are chiefly green andesite, andesite agglomerate, tuffs and basalts. To contact between the Guichon Creek batholith and the Nicola lies near
the west boundary of the property beneath the Guichon Creek
valley. Several strong shears were observed by the writer.
These show evidence of the effects of mineralizing solutions
by the presence of pyrite, minor chalcopyrite, quartz, calcite,
hematite, chlorite and sericite. Ahthough no sizeable zones
of copper, molybdenum or silver-lead-zinc mineralization were
observed by the writer during the examination of the property,
the prospects for discovering some are considered good for

led bed

the following reasons;

- 1. The westerly part of the property overlies the contact between the Nicola Group and Guichon Creek batholith.
- 2. Several zenes of strong shearing contain evidence of the activity of mineralizing solutions and pyrite along with some chalcopyrite.
- 3. On the property adjoining the ISI group on the south, under very similar geological environment, strongly mineralized shear sones have been discovered and more are indicated by recently completed geophysical investigations.

SUMMARY AND CONCLUSIONS

The RWS and IST groups of mineral claims are located between the Highland Valley and Merritt, B. C., where numerous exploration and development programmes are underway and the Craigment and Bethlehem mines are in production.

The property includes much of Mamit Lake and several miles of the Guichon Creek valley. This is a geologically favourable area by virtue of the inclusion of the contact between the Guichen Creek batholith and the Upper Triassic rocks of the Nicola group.

Much of the surface area is masked by light overburden, but structural features noted during the examination include strong somes of shearing with associated pyrite, minor chalcopyrite and appreciable rock alteration.

The adjoining property on the south of the ISI group is under active exploration, well mineralized shear zones have been partially exposed thereon, and additional similar zones are indicated by recently completed geological and geophysical surveys.

It is concluded that the RWS and ISY groups are located in a geologically favourable area and warrant thorough investigation.

RECOMMENDATIONS

It is herewith recommended that the RWS and ISY groups of mineral claims be investigated as follows:

Estimated Costs

- 1. Establish a suitable field camp on er next
 the property \$ 2,000.00
- 2. Clear and improve the many unused, secondary reads on the claims area 1,000.00

Carried forward

\$ 3.000.00

Brought Porward

\$ 3,000.00

3	"我们的最后的"特别是我们的是我们的"是一起,这个人,只要不是一定的"我们"的"我们"的"我们"的"我们"的"我们"的"我们","我们"的"我们","我们"的"	
3.	Prospect in detail the entire property and	
	make a preliminary sketch map of the claims	
	and outcrop areas	2,000.00
4.	Map the geology in detail over selected areas	6,000.00
•		
,,	Conduct electromagnetic surveys over select-	
	on oderatora segmente de la compositione de la comp	15,000.00
6.	Conduct induced polarisation surveys ever	
	selected areas	25,000.00
7.	Strip to expose bedrock where necessary	
	to expose mineralized zones	20,000.00
8.	Drill scout holes where necessary to acquire	
	preliminary information to approximately 300	
	fuet of depth, on mineralized sones, with	
	percussion equipment, 20 holes, to total	
	6,000 feet	20,000.00
9.	Diamond drilling 1,500 feet	15,000.00
10.	Office, overhead and supervision	18,000.00
11.	Contingencies	16,000.00
	Total estimated costs \$	140.000.00

The above programme, if started in late April, should be completed by early November.

Respectfully submitted,

Cife & all P. Eng.

ALLEN GEOLOGICAL ENGINEERING LTD.

Vancouver, B. C., November 30, 1969.

REFERENCES

Rice, H. M. A. - Geological Survey of Canada, Memoir 243

Cockfield, W. E. - Geological Survey of Canada, Memoir 249

Duffell, S., and McTaggart, K.C. - Geological Survey of Canada, Memoir 262

Annual Reports - B. C. Minister of Mines

Published Papers - Craigment Mine, Bethlehem Mine

N //						1		_X							
1					1									<i>.</i>	
RUSH)			105	103	RW3	Rws 99	97			١	
RW5			/		, 1	ā	RWS 106	Rws	RW 5	E 30	98				
Call Control					8 WS	Rus 83	RUS	Rws 79	The state of the s	/				4	
RWS 94	# Rus	90			86	8.W.S	2 m 5	Rws 80	1						
403	I Rws	RW 4		- 1	246	RWS 10	RWS	RWS 14							
RWS 66	3	1	200	5 3	RWS	Rus 9	Ru &	Rus 13	Rws 15						
AM3	Rus 116					Rus 24	12 w 8	Rws/	Rus 30					9.0	
RWS 70	HRWS H 17		1	0	Rws 28	A.W.S.	RWS 27	RWS 29							
IN S.	ERESA E US	RW	3	2WS	2WS	Ru 5	R ω s 4Z	RWS 44	K	1					
11 245H 14F	RWS ZI	80			ews 57	Rus 39	Rw3	KWS 48/)			76		
RWSII	RWS 46		R	44	RMS	RWS	Aws 5G	12 m/3	1243 5	R:13		7			
RUS!	RWS	RWS	R	ws.	2 w 5	RWS 58	Rus 55	12415 157	FW 5	RW6					
- 11	1	L	124%	19	154	154	154	12.4	154	154	154	154	154		
Qu'	2			20	ISY	154	14	157	- 154	177	124	154	184	Talk	
ON CHI	4	***		194	164	184	187	iny SS:	15Y 2'3	31	154	27	15¥ 25	154	15 Y 21
1 4/	1.			134	157 42	15Y 40	134	121	154	12 Y	15 Y 30	154	26	24	22
	205 118 2	RWS RWS 118 RWS RWS	RWS RWS	RWS RWS	RWS RWS	RWS RWS	RWS RWS	RWS RWS	RWS	RUS RUS	RUS RWS RWS	RUS RUS	RUS RUS	RUS RUS	RUS RUS

CLAIMS MAP

R.WS & ISY GROUPS

Scale 1/2 = 1500 agus P. allen

Ecom 1 Bc Dept. Mines: 32 47 W.