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ENGINEER'S REPORT

on the

EPIC CLAIM GROUP

Atlin Lake Area

Atlin Mining District,
British Columbia

104-N

by
Ace R. Parker
Consulting Engineer

Dated
at

Whitehorse, Yukon

September 1, 1967

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SUMMARY

The Epic Group consists of fourteen contiguous mineral claims situated on the western shore of Graham Inlet opposite the mouth of Atlin River and ten air miles north-west of Atlin, B.C.

These claims cover an occurrence of copper, lead, silver, and zinc mineralization contained in a carbonatized and silicified alteration zone developed in Triassic volcanic rocks and exposed on a forty-degree south-facing slope on the southern end of Table Mountain and five hundred feet above the level of Graham Inlet.

The property has been subject to very little technical exploration although "old timers" excavated several shallow pits and shafts, and an adit to expose mineralization localized along a shear zone on the property.

Nevertheless in addition to vein-type deposits developed along shear zones there is a possibility that the property may contain disseminated silver-lead mineralization at various locations in the alteration zone.

This mineralization would probably be mineable by employing open-pit mining methods and a preliminary exploration program is recommended at this time to assess the potential of the property.

Detailed discussions of the situation are contained in the text of this report.

PROPERTY - OWNERSHIP - OPTIONS

The Epic Group consists of fourteen (14) contiguous and granted mineral claims which are further described as follows:

<u>Claim Name</u>	<u>Grant No.</u>	<u>Expiry Date</u>	<u>Registered Owner</u>
Epic #1	494335	2 June 1968	G. MacKinnon
Epic #2	494336	" " "	" "
Epic #3	763178	20 Aug. 1968	G. Wing
Epic #4	763177	" " "	" "
Epic #5	763160	" " "	" "
Epic #6	763159	" " "	" "
Epic #7	763161	" " "	" "
Epic #8	763162	" " "	" "
Epic #9	763164	" " "	" "
Epic #10	763163	" " "	" "
Epic #11	763172	" " "	A. MacKinnon
Epic #12	763169	" " "	" "
Epic #13	763170	" " "	" "
Epic #14	763171	" " "	" "

No mining or milling plant exists on the claims and to the best of my knowledge and belief no claims are registered against the property.

LOCATION & ACCESS

The Epic Group, (59°38'N, 133°57'W), covers the southern flank of Table Mountain, ten air-miles north-west of Atlin, B.C. and immediately adjacent to Graham Inlet opposite the mouth of Atlin River.

Chartered aircraft based at Atlin, B.C. or Whitehorse, Yukon provide access to the property.

Ninety-eight miles of all-weather road connect Atlin, B.C. with the White Pass narrow-gauge railroad at Carcross, Yukon which is approximately eighty miles by railroad from ocean transportation at Skagway, Alaska.

Alternatively, Tagish Lake provides a direct water connection with the property and Carcross, Yukon by way of Graham Inlet.

HISTORY & DEVELOPMENT

Mineralization was first found on the property by prospectors seeking placer gold in the Atlin area.

Subsequently, several pits, two shallow inclined shafts, and an adit were excavated to explore the most obvious mineralization on the property.

Metal prices slumped shortly after this activity began and mineral exploration in general terminated in the area.

Consequently the property remained dormant for many years before being restaked recently as a result of intensified exploration for base and precious metals throughout the Canadian Cordilleran area.

PHYSIOGRAPHY & GENERAL GEOLOGY

The Epic Group covers the south-facing glacially-rounded southern flank of Table Mountain immediately adjacent to Graham Inlet.

Vegetation along the northern shore of Graham Inlet consists of a sparse growth of spruce and poplar trees and scrub bush. This fringe of timber diminishes within a few hundred feet of the Inlet and is replaced by low "buck" brush at higher elevations.

Andesitic and tuffaceous volcanic rocks of probable Triassic age underlie most of the claims area. These rocks are relatively flat-dipping but have been locally folded and intensely jointed.

Several significant northeast-southwest trending faults cut the area but it is impossible to determine the attitude of these "breaks" due to the concealing effect of detrital overburden which covers most of the area.

A beige-brown to tan weathering carbonatized and silicified alteration zone, characterized by the predominance of ankerite and epidote, traverses for fifteen hundred feet across the property. Mineralized float may be found at various locations within this alteration zone which exceeds one hundred feet in width and includes a strongly sheared and jointed zone mineralized with varying amounts of copper, lead, zinc, and silver.

This mineralization is presumably related to underlying Coast-Range granitic rocks which outcrop on the western shore of Graham Inlet one and a half miles northeast of the property.

ECONOMIC GEOLOGY

Mineralization occurs in place at four separate but related locations on the property and generally consists of an intimate mixture of chalcopyrite, galena, sphalerite, and inter-related silver values contained in intensely sheared and jointed zones within a broad alteration zone, which strikes on a 45° azimuth across the property.

Two shallow-inclined shafts, collared fifty feet apart have been sunk on a strong shear zone which dips 45° north and formed near the southern margin of the alteration zone. This shear zone varies from three to seven feet in width and is mineralized with chalcopyrite, bornite, galena, and sphalerite where exposed in the walls of the shaft. Although most mineralization is confined to an area three feet wide situated in the center of the shear, mineralization may be found along fracture planes throughout the total seven foot width of the shear and in the surrounding alteration zone.

A character sample of this mineralization assayed as follows:

<u>Au (oz/t)</u>	<u>Ag (oz/t)</u>	<u>Pb (%)</u>	<u>Zn (%)</u>	<u>Cu (%)</u>
Tr.	2.58	26.0	Tr.	13.9

A grab sample taken from the wall of a shallow pit located one hundred feet from the shaft and within the alteration zone assayed as follows:

<u>Au (oz/t)</u>	<u>Ag (oz/t)</u>	<u>Pb (%)</u>	<u>Zn (%)</u>	<u>Cu (%)</u>
Tr.	0.86	Tr.	2.3	1.03

A crosscut adit has been collared in andesitic-volcanic rock one thousand feet northeast of the shaft and driven northwest in an apparent attempt to intersect the alteration zone. The portal of this adit has caved preventing entry at this time. Nevertheless the amount of material scattered down slope from the portal suggests that the adit extended nearly one hundred feet into the hill and probably never reached the core of the alteration zone.

Some of the rock found downslope from the adit's collar contains disseminated grains and stringers of galena associated with epidote alteration. A grab sample of this material assayed as follows:

<u>Ag (oz/t)</u>	<u>Pb (%)</u>
0.34	0.4

Similar mineralization may be found over an area approximately fifteen-hundred feet long and corresponding to the carbonaceous and silicified alteration zone.

EXPLORATION & MINING CONSIDERATIONS

Although a geochemical survey for lead and silver may succeed in roughly outlining some of the mineralization exposed on the surface of the property, it will be necessary to employ a diamond drill to initially and properly explore the favorable alteration zone at depth.

Such drilling could be better guided by an Induced Polarization survey and would be prerequisite in justification of an underground exploration and development program.

An openpit mining operation could evolve from this exploration if disseminated silver-lead mineralization is found throughout and within the alteration zone. Otherwise mining will probably be confined to underground extraction of any vein-type mineralization that may prove to be of ore grade.

CONCLUSIONS & RECOMMENDATIONS

The Epic Group presents a reasonable exploration "bet" for base and precious metals in an area that has been subject to only minor technical exploration in the past.

Although vein-type silver - lead - zinc - copper mineralization may be present along faulted and sheared zones, special attention should be placed on the possibility of developing a significant tonnage of disseminated silver-lead mineralization within the alteration zone which would possibly be mineable by open pit mining methods.

The following exploration program is recommended to explore the potential of the property:

<u>OPERATIONS</u>	<u>(Contract Basis - Area of 5 Claims)</u>
<u>Item</u>	<u>Cost</u>
1 - Survey lines and stations.....	\$1,200
2 - Reconnaissance geological and geochemical survey.....	2,500
3 - I.P. geophysical survey.....	3,000
4 - Exploration Drilling (3000 ft. - AQ)	36,000
5 - Contingencies.....	<u>7,300</u>
Total.....	\$50,000

After this program has been completed a decision can be made regarding the amount of additional exploration required to assess the potential of the property.

Respectfully submitted,

ACE R. PARKER & ASSOCIATES




Ace R. Parker, P. Eng.

C E R T I F I C A T E

I, Ace R. Parker, of the City of Whitehorse, Yukon Territory, do certify that:

- 1 - I am a Consulting Engineer practicing under the name and style of ACE R. PARKER & ASSOCIATES, with office at 3rd Avenue & Elliott Street, Whitehorse, Y.T.
- 2 - I am a Bachelor of Science in Mining Engineering from the College of Earth Science and Mineral Industry, University of Alaska, College, Alaska - 1962. I hold a Diploma in Mineralogy from the Mineral Science Institute, Chicago, Illinois - 1959.
- 3 - I am a member in good standing of the Association of Professional Engineers of Yukon, the Association of Professional Engineers of British Columbia, and Alberta. I have been a member of the American Institute of Mining, Metallurgical, and Petroleum Engineers since 1954.
- 4 - I have formally practiced my profession for the past five years after working in the Mineral Industry since 1953.
- 5 - I have no direct or indirect interest in the EPIC CLAIM GROUP described in the accompanying report or in any securities relating to the said property.
- 6 - This Certificate is part of the attached Engineer's Report on the EPIC CLAIM GROUP of mineral claims dated September 1, 1967. The attached property map shows the location of the claims group which have been located in compliance with the British Columbia Mineral Act.
- 7 - This report is based on a comprehensive personal study of documents, maps, and reports relating to the property described herein, including reports of the Geological Survey of Canada and in conjunction with personal examinations of the property by myself during August 1967.

Whitehorse, Yukon
September 1, 1967


Ace R. Parker, F. Eng.