

PRELIMINARY REPORT
on the
RED CLAIM GROUP
of
BOSWELL RIVER MINES LTD.
in
LIARD RIVER AREA, YUKON TERRITORY
by
SEIGEL ASSOCIATES LIMITED
for
MacDONALD CONSULTANTS LTD.

60° 20' - 25'
130° 10' - 15'

105-116

by

Richard O. Crosby, B.Sc., P.Eng.

and

John P. Steele, B.Sc.

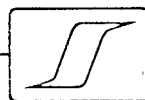
May 20, 1971

CLAIMS:

<u>Name</u>	
RED 1	to 6 inclusive
RED 13	to 80 inclusive
RED 97	to 104 inclusive
RED 113	to 184 inclusive

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INTRODUCTION

Seigel Associates Limited became acquainted with the Liard River Property of Boswell River Mines in the spring of 1971 when they were asked to interpret the Geological Survey of Canada's Aeromagnetic Series maps 1332G and 1333G. Locations possibly favourable to mineral location were interpreted from these maps and claims were staked (the RED Claim Group) on this basis. The interpretation of the aeromagnetic maps are discussed in this report.

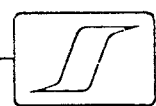
PROPERTY

The writers have not researched the status of the property. Boswell River Mines has staked 154 claims called the RED Claim Group. These claims are shown on the attached claim map.

LOCATION AND ACCESS

The property is located on the south side of Upper Cabin Creek, a tributary of the Liard River, in the Yukon Territory.

Access is by boat or aeroplane on the Laird River and there by footpath to the claim group. The nearest commercial airport is in Watson Lake, a distance of 80 miles to the southeast.



GEOLOGY

The general geology of the claim area is discussed on GSC Map 10-1960. The property overlies a biotite quartz monzonite and granodiorite stock which is a member of a series of intrusives of Jurassic and/or Cretaceous age known as the Cassiar Intrusions. This body has intruded biotite schists, quartzites and gneisses which are probably metamorphic equivalents of Lower Cambrian quartzites. Much of the area at lower elevations is covered by Pleistocene and Recent glacial till.

The area was prospected for gold in the 1870's and placer deposits were found on Cabin Creek and other nearby rivers.

EXPLORATION SPRING 1971

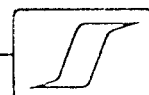
Aeromagnetic Interpretation

In May 1971 Seigel Associates Limited carried out an interpretation of the Geological Survey of Canada Aeromagnetic Series Maps 1332G and 1333G as they pertained to the RED Claim Group.

The claims overlie an area of magnetic relief of approximately 600 gammas. This feature has an approximately circular shape with the contours elongated on the northwestern side. The central portion of this feature exhibits less magnetic relief than the outer parts.

This feature has been interpreted as resulting from a quartz, monzonite and granodiorite intrusive body. The more magnetically active areas to the outside of the magnetic feature probably reflect a basic phase of the intrusive body.

The elongation of the contours in the west-central and north-western portions of the magnetic feature probably result from faulting and shearing in north-north easterly and northeasterly directions



respectively. The change of direction of the Liard River to the northeast probably is a result of the northern fault. This interpretation is shown on Plate 1.

RECOMMENDATIONS

It is recommended that further study of the area be concentrated on three locations: the outer margin of the intrusive, the traces of the interpreted faults and the contact between the central portion of the intrusive and its outer basic phase.

These areas should be located geologically where possible and with the aid of a ground magnetometer survey otherwise. Geochemical studies should then be carried out over these areas on north-south lines, 500 feet apart, with a sample every 300 feet along these lines.

COST ESTIMATE

1. Personnel

Geologist - 2 months	\$4,000.00
2 soil samplers and line cutters 2 months	4,000.00
2 helpers - 2 months	4,000.00

2. Assaying

2500 soil samples @ \$1.50/sample	3,750.00
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3. Transportation

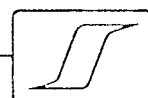
Return Fares - Vancouver to Watson Lake	1,000.00
Helicopter - 15 hours Jet Ranger	3,600.00

4. Tools and Equipment

500.00

5. Radio

200.00



6. <u>Camp and Food</u>		
	300 man days @ \$12.00/man day	\$4,000.00
7. <u>Overhead</u>		1,000.00
8. <u>Consultant Fees</u>		3,000.00
9. <u>Contingencies @ 10 percent</u>		<u>3,000.00</u>
	Approximately	\$32,000.00

SUMMARY AND CONCLUSIONS

An interpretation of Geological Survey Aeromagnetic data over the Liard River property of Boswell River Mines was completed in May 1971 and is enclosed in this report.

Three areas of interest for further exploration have been outlined.

Geological prospecting and geochemical soil sampling have been recommended over these areas.

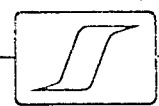
Funds in the order of \$32,000.00 are required for the programme outlined.

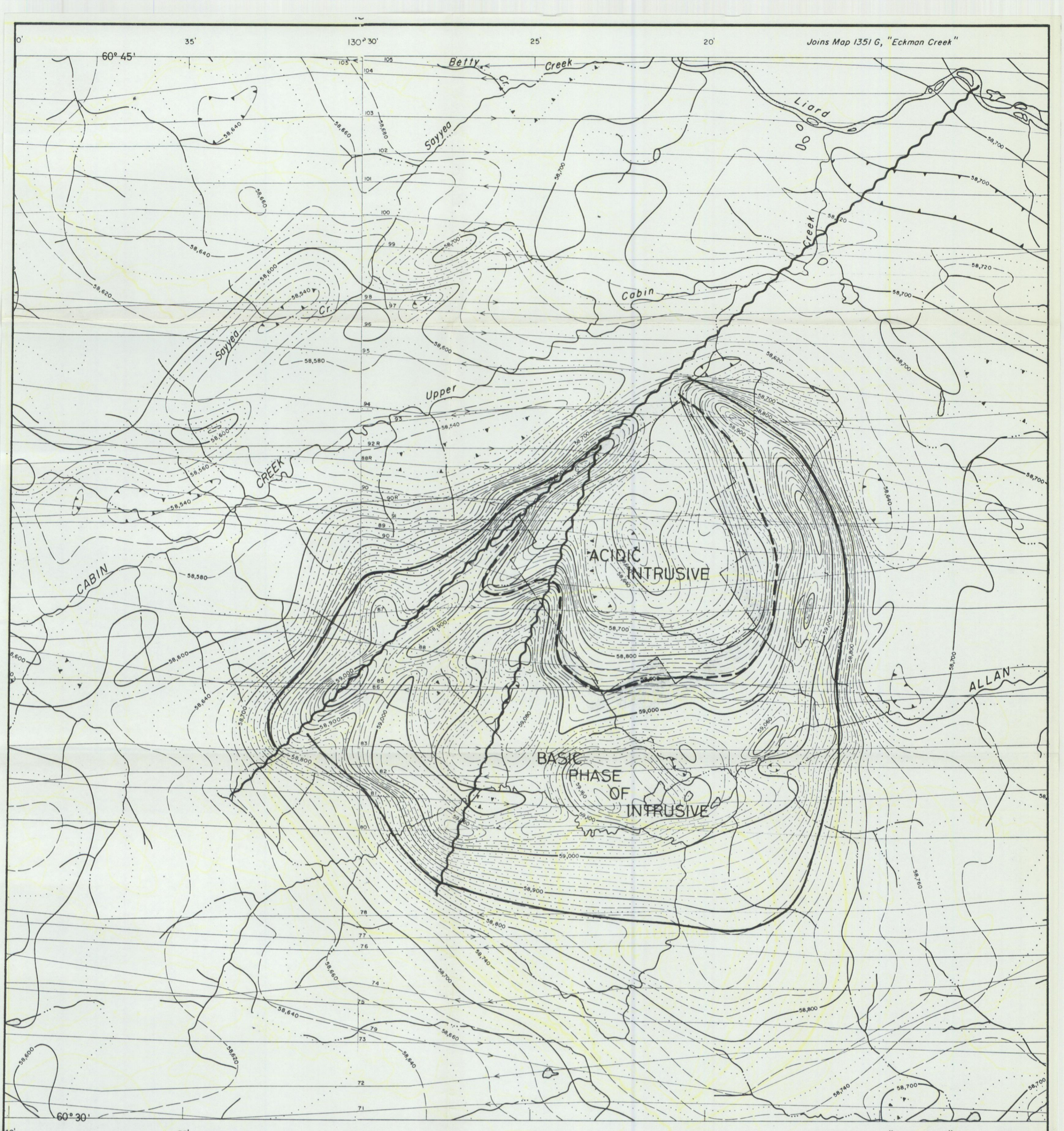
Respectfully submitted,
SEIGEL ASSOCIATES LIMITED

Richard O. Crosby
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Consulting Geophysicist

John P. Steele
John P. Steele, B.Sc.
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Vancouver, B. C.
May 20, 1971





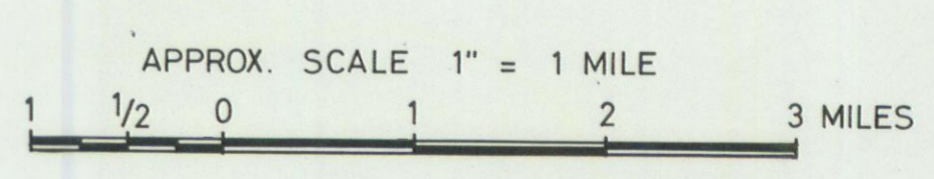
Joins Map 1351 G, "Eckman Creek"

Joins Map 1323 G, "Meister Lake"

LEGEND

- PROBABLE GEOLOGICAL CONTACT
- PROBABLE PHASE BOUNDARY
- ~~~~~ PROBABLE FAULT
- - - - - BOUNDARY OF CLAIM GROUP

PLATE 1
BOSWELL RIVER MINES LIMITED
 RED CLAIM GROUP,
 LIARD RIVER AREA, YUKON TERRITORY
GEOPHYSICAL INTERPRETATION
 OF
 MAGNETOMETER CONTOUR PLAN



TO ACCOMPANY A GEOPHYSICAL REPORT
 BY RICHARD O. CROSBY AND
 JOHN P. STEELE DATED: MAY 20, 1971

BY SEIGEL ASSOCIATES LIMITED
 MAY 1971

Richard O. Crosby