

ASSESSMENT REPORTS

MAP No. 105-0-3 TYPE OF WORK: Geological

REPORT FILED UNDER

Atlas Explorations Ltd.

DATE PERFORMED

July 1968

DATE FILED:

LOCATION - LAT.

63°15'N

North MacMillan River Area, Y.T.

LONG.

131°20'W

CLAIM Nos.

TOM 1-8 Y14164-171

9-14 Y14208-213

WORK DONE BY

T.J. Adamson

WORK DONE FOR

Atlas Explorations

REMARKS

The claims are overlain by ordovician-devonian cherts, shales and conglomerates. Geological mapping and prospecting found pyrite, but none of economic significance. No further work is recommended.

TOM MINERAL CLAIM GROUP

Mayo Mining District
Yukon Territory

Report on Geological Work done
during the 1968 Field Season

Longitude : $131^{\circ} 20'$ W.
Latitude : $63^{\circ} 15'$ N.

N.T.S. 105-O-3

By:

T. J. Adamson

ATLAS EXPLORATIONS LIMITED

October 31, 1968

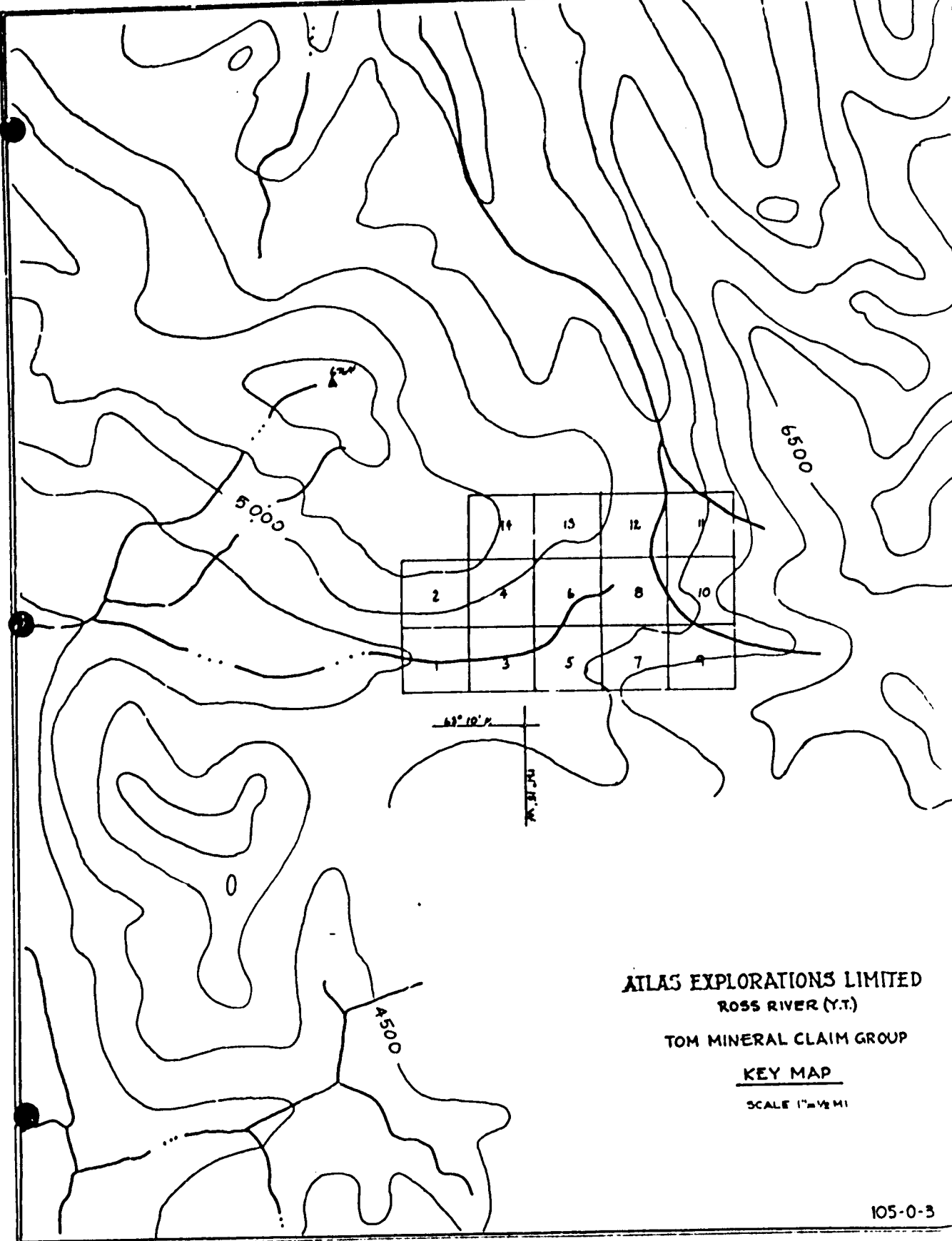
LIST OF CLAIMS

Claim Numbers

Grant Numbers

TOM 1-8
9-14

Y14164 - Y14171
Y14208 - Y14213



ATLAS EXPLORATIONS LIMITED
ROSS RIVER (Y.T.)

TOM MINERAL CLAIM GROUP

KEY MAP

SCALE 1" = 1/2 MI

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ATLAS EXPLORATIONS LIMITED

(INCORPORATED)

330 MARINE BUILDING
365 BURRARD STREET
VANCOUVER 1, B.C.

TOM MINERAL CLAIM GROUP

INTRODUCTION

The Tom Group of mineral claims was evaluated during the period of July 16th to July 21st, 1968. The crew working on the property consisted of a geologist and two student assistants- prospectors.

The claim group was staked last year to cover a gossan zone discovered by aerial reconnaissance. Regional soil and gossan sampling in the vicinity produced some anomalous copper and zinc values. Also last year, one small piece of mineralized float, vein quartz containing tetrahedrite which assayed 66.8 oz./ton silver, was found on the property.

The work done on the claims this year consisted of geological mapping and prospecting. The claim group is above timberline and outcrop exposure is close to 100 percent throughout. Because of this no geochemical or geophysical work was considered necessary for preliminary evaluation.

LOCATION AND ACCESS

The Tom Group of mineral claims is located at approximately 131°20' West longitude and 63°15' North latitude, in the headwaters of the north Macmillan River. The group is in the north-central portion of claim map 105-0-3. Elevations in the claim group area range from 4500 ft. to 6500 ft. The topography is steep and rugged.

Access is by float-equipped fixed-wing aircraft to Niddery Lake, located about 8 miles N-NE of the property, and thence by helicopter to the property.

The nearest settlement is Ross River, located about 92 miles SW of the claim group.

GEOLOGY

The claim group is within a thick Ordovician-Devonian section of black cherts and shales, chert pebble conglomerate, and minor graphitic dolomite, grey argillite and grey shale. The regional strike is from 120° to 140° and dips are moderate to steep to the southwest.

A Cretaceous granitic intrusive is found just to the northeast of the claim group. Intense hornfelsic alteration was noted in a wide halo around this intrusive. In this area, bedding attitudes are very variable. The hornfels is banded, pyrite rich, and very siliceous. The black cherts have been somewhat bleached and recrystallized. Weathered surfaces of the hornfels are rusty. No sulphides, other than pyrite, were seen in this area.

The southwest half of the claim group is underlain by a thick section of chert pebble conglomerate (unit 3d). This rock is very clean, compact, massive and highly resistant to weathering. The northeast section of the claim group is underlain mainly by black shale and chert, with minor grey argillite and graphitic dolomite.

A number of fine to medium grained intrusive dykes were noted around the pluton, but no sulphide mineralization was associated with them.

A barite vein, and a number of narrow quartz-calcite veins were found east of the claim group, but, again, no associated sulphide mineralization was seen.

CONCLUSIONS AND RECOMMENDATIONS

The area was mapped and prospected in detail. There were no encouraging results of any kind.

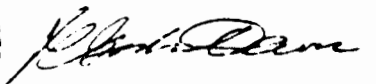
It is thought that the gossans in the streams in this area are a product of the high pyrite content in the hornfelsic halo around the pluton.

The Tom Group of mineral claims is being allowed to lapse.

Respectfully submitted,



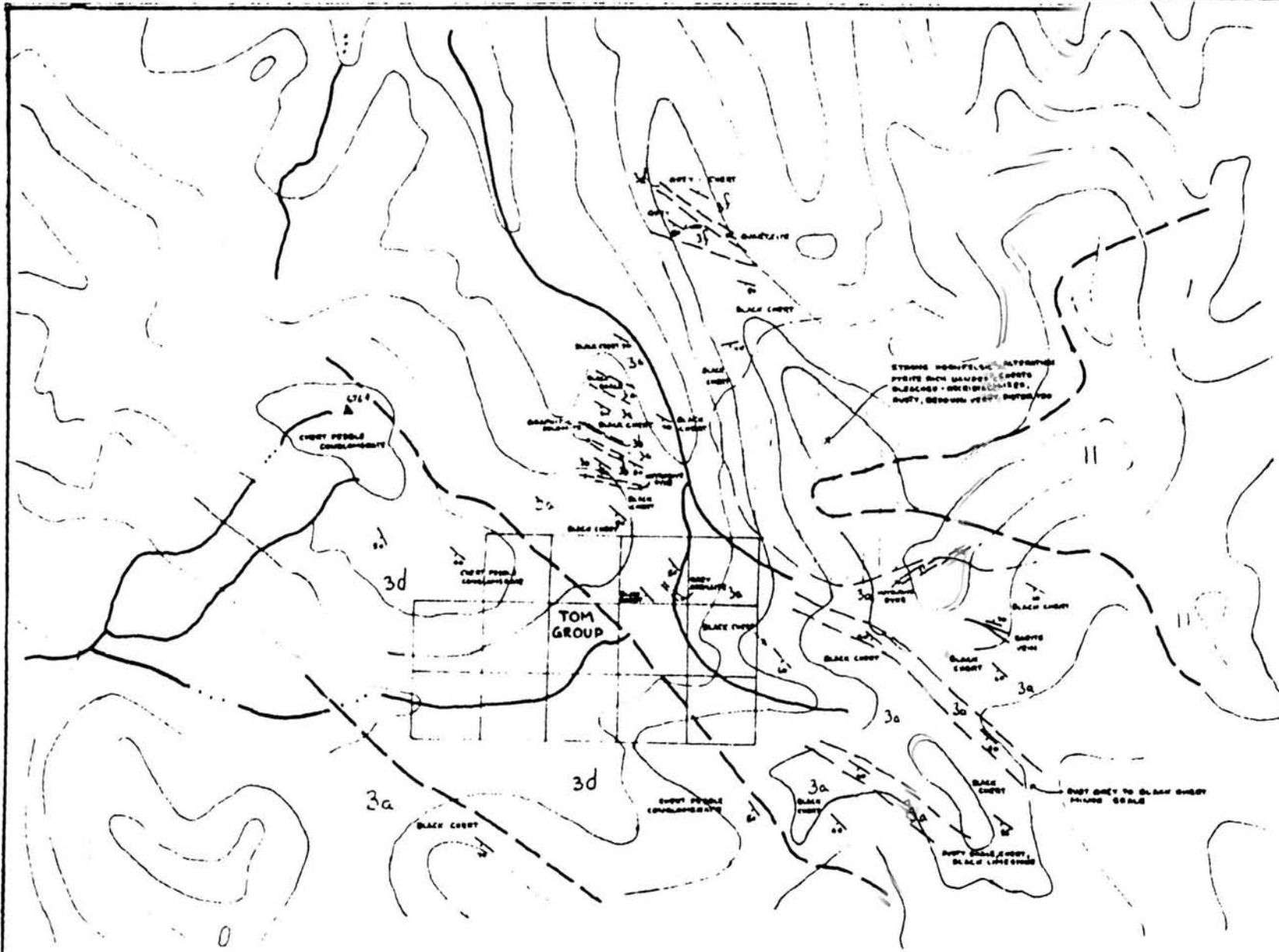
T. J. Adamson



Appendix I

LIST OF PERSONNEL

T. J. Adamson	Geologist-Party Chief	Vancouver, B.C.
T. Brock	Student Assistant	Vancouver, B.C.
M. Simpson	Student Assistant	Vancouver, B.C.



ATLAS EXPLORATIONS LIMITED
 ROSS RIVER (Y.T.)
 HESS REGION
 TOM MINERAL CLAIM GROUP
 GEOLOGY



- LEGEND
- | | | |
|------------|----|--------------------------------------------------------|
| CRETACEOUS | 11 | GRANITIC INTRUSIVES |
| | 3f | GREY BEDDED CHERT |
| | 3e | ALKALIC BASALT |
| | 3d | CHERT PEBBLE CONGLOMERATE - MINOR QUARTZITE |
| ORDOVICIAN | 3c | PHYLLITE |
| | 3b | BOLOMITE CALCACEOUS PHYLLITE MINOR LIMESTONE |
| | 3a | BLACK SLATE, BLACK CHERT MINOR ARGILLITE AND GREYWACHE |

- SYMBOLS
- CONTACT
 - BEDDING ATTITUDE
 - HORNFELSIC ALTERATION