

AERIAL RECONNAISSANCE REPORT
TRANS-COLUMBIA EXPLORATIONS LTD.

COVERING

AZTEC #35-38 inc. #15-20 inc. #45-50 inc.

and AZTEC #59 and #61

MINERAL CLAIMS

in the

WHITEHORSE MINING DIVISION

YUKON TERR.

DATED

SEPTEMBER 1, 1972

by

S. L. Sandner, B. Sc.,
Geologist/Geophysicist

115-I-10, 14,
14, 15
62°45'N
139°00'W

COST \$ 1800.00

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INTRODUCTION

During the month of August 1972 the author was requested by Trans-Columbia Exploration Ltd. to conduct an aerial evaluation of the regional information and all available data centered on the Aztec #35-38 inc., #15-20 inc., #45-50 inc., and Aztec #59 and 61, located in two mineral claim groups approximately 4 miles west and approximately 5 miles southwest of Casino Silver Mines workings.

The author has made several reconnaissance flights over the said area, both by fixed wing aircraft and helicopter.

A series of ground surveys, including detailed geochemical sampling for copper (Cu) and molybdenum (Mo) and petrographic studies have been made in the past.

A regional geological map and a regional aeromagnetic survey by the Geological survey of Canada has been reviewed as a part of this aerial reconnaissance study.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

In view of the regional geological and geophysical data, overflights of the area and detailed ground geochemical and petrographic studies the author concludes the most potential area within the Trans-Columbia Explorations Ltd.

Mineral claims are Aztec 59,36,35,61,38 and 37 plus Aztec #15-20 inc., and 45-50 inc.

These two mineral claim groups hold the greatest potential mineral value according to the data available.

It is recommended at future ground detail exploration work be carried out on both these mineral claim groups.

LOCATION AND ACCESS

The groups of claims covered by this report is centered at latitude 62° 45'N and longitude 138° 55'W. immediately southeast of the confluence of Coffee Creek and the Yukon River in the Whitehorse Mining Division, Yukon Territory and are some 185 air miles northwest of Whitehorse. Access to the claims can be gained by fixed wing air flight from Whitehorse to the Casino airstrip, thence by helicopter to the property approximately 4 miles west and 6 miles southwest respectively.

PROPERTY

The two groups of mineral claims consist of 6 contiguous claims and 12 contiguous claims recorded in the Whitehorse Mining Division.

CLAIM NAMES

Aztec 35-38 inc.

Aztec 59

Aztec 61

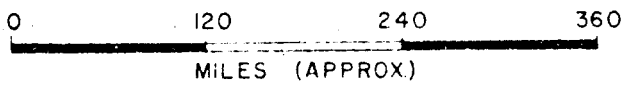
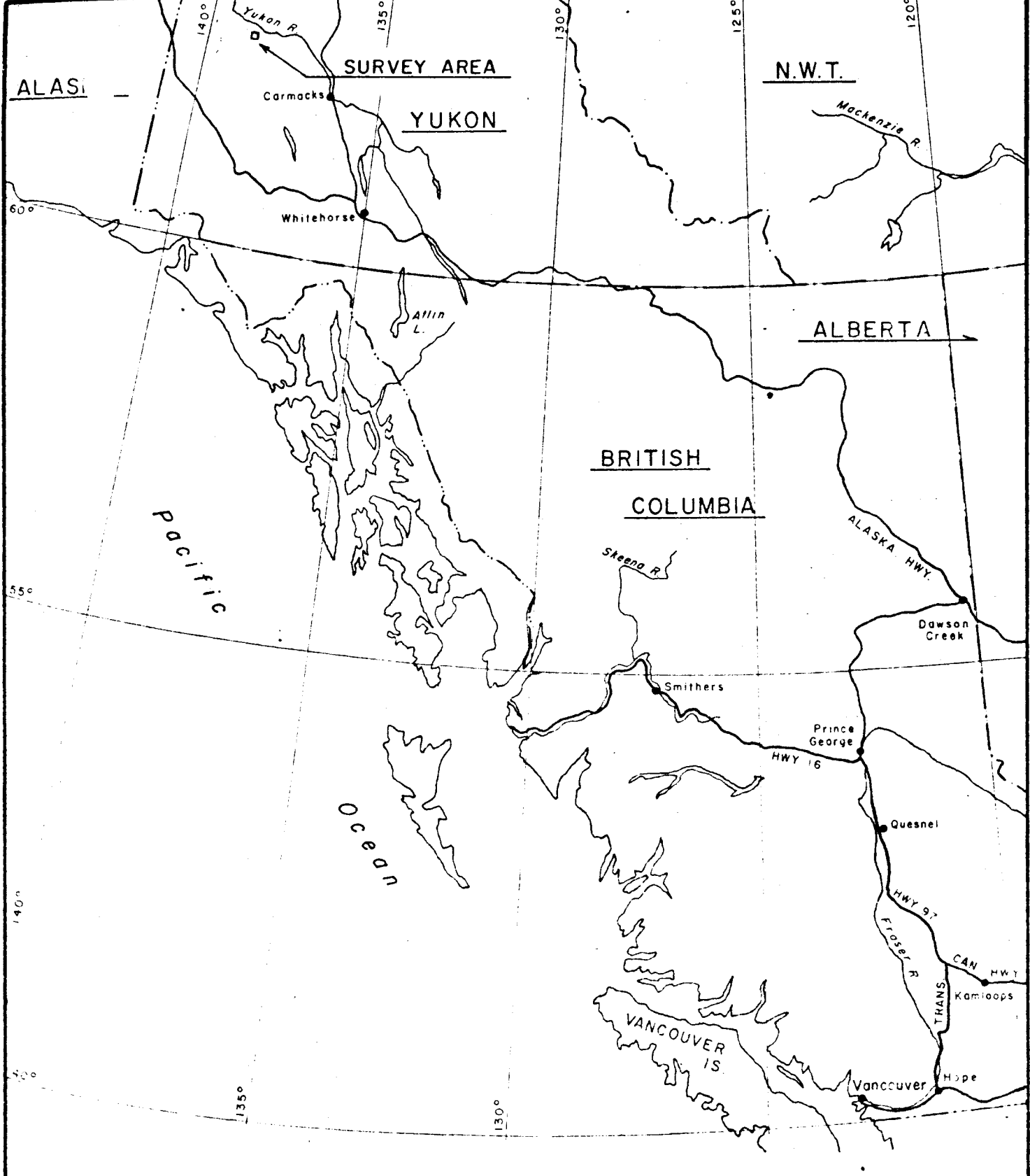
6 claims

Aztec 15-20 inc.

Aztec 45-50 inc.

12 claims

The claims are owned by Trans-Columbia Explorations Ltd. (NPL), offices located 211-717 West Pender Street,



TRANS - COLUMBIA EXPLORATIONS LTD.
 DAWSON RANGE AREA - WHITEHORSE M.D., YUKON

LOCATION MAP

SANDNER ASSOCIATES

Drawn A.N.S.	Dated SEPT. 1, 1972	Fig. No.
Checked	Job No 1205	1

Vancouver, B.C.

GENERAL SETTING

The property is situated in the Dawson Range Mountains approximately 185 air miles northwest of Whitehorse. Elevation of the claims lies between 3,000 and 5,000 feet above sea level. Topography ranges from gentle rounded rolling terrain to steep V-shaped valleys with streams and occasional sharp rock out-cropping ridges. The area lies within Yukon plateau, unglaciated since Pliocene times.

Vegetation consisting of thick moss and scrub bush making walking difficult. Much of the area is above treeline. Coffee Creek drainage basin forms most of the central western and northwestern portion of the claim area, Casino Creek drains the southern flank of the area.

Since most of the area is above timber line, and well scattered with rock outcrops, aerial reconnaissance of the area is very worthwhile and meaningful for geological information.

GEOLOGY

The entire area of both claim groups are classified as Mesozoic, probably cretaceous or jurassic in age. The rocks are Granitic ranging in composition from granite

to gabbro with their associated porphyritic types. Locally the rocks have undergone extensive hydrothermal alteration and show up as isolated gossan zones. This is particularly true of the northern group of claims located near the head waters of Coffee Creek.

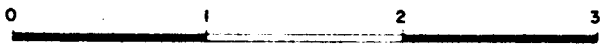
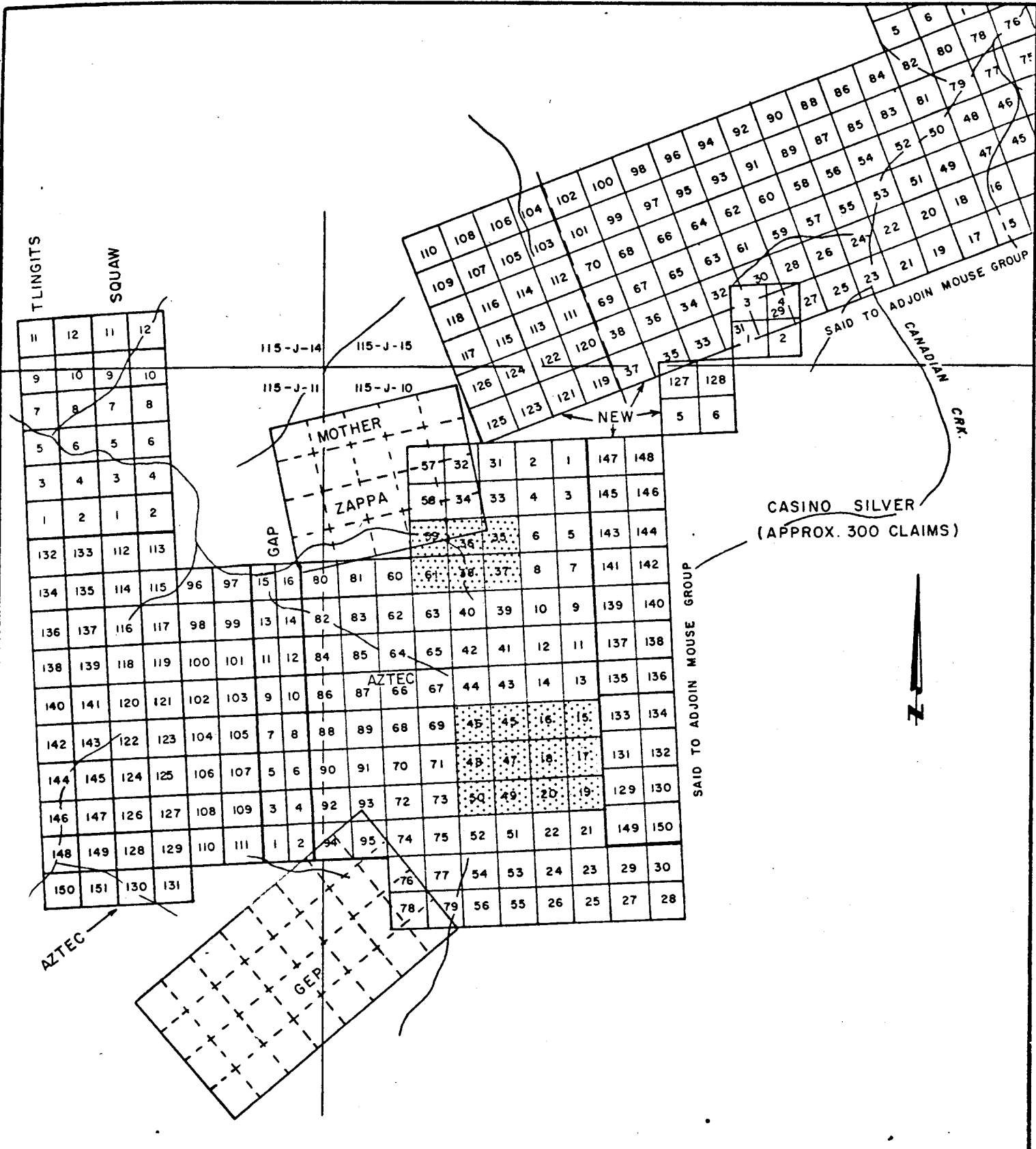
The rocks of the southern group appear to be of a fresher variety and lighter in colour.

It is suggested that the alteration in both areas is closely related to potassium and sericite content in the rocks. Hence lighter shades of rock outcroppings. Gossan zones locally suggest presence of iron, perhaps pyrite halos surrounding local bodies.

Other mineralized zones in the general Casino area suggest a close relationship between younger (probably Tertiary) potassium rich plugs and copper-moly enrichment.

GEOPHYSICS

A careful review of the regional airborne magnetic map reveals local magnetic disturbances possibly related to the existence of younger plutonic plugs. The northern group of claims lies on a north sloping local anomaly that broadens easterly. The southern group lies on the



SCALE : MILES
(APPROX.)

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DAWSON RANGE AREA - WHITEHORSE M.D., YUKON

CLAIM MAP

Drawn R.K.	Dated SEPT. 1, 1972	Fig No
Checked	Job No 1205	2

SANDNER ASSOCIATES

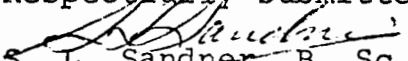
gradient and lower portion of a local low magnetic value. The suggestion here is the possible existence of Potassium rich plug. Detail aerial magnetic survey of these claim areas would probably reveal smaller dimension, better defined highs and/or lows in the immediate area of the geo-chemical anomalies.

Detailed airborne work done over the Casino Silver Mines area shows an increase in both magnetic disturbances and a higher K content toward the west and southwest. This phenomina may suggest Casino may not be the centre of the best potential of the area.

An extension of detailed airborne geophysical coverage to the west and southwest beyond the boundry^a of the present coverage might clarify this picture.

AERIAL RECONNAISSANCE

Overflight of the area with both fixed wing aircraft and helicopter provided a very effective method of trying to gather a great deal of diversified material. The search for ore-bodies usually involves utilizing all the tools available, then summarizing and evaluating the coincidental and hopefully meaningful useful parts of each.

Respectfully Submitted

S. L. Sandner, B. Sc.
Geologist/Geophysicist

5'

4 mi

0'

4304G Doyle Creek

DIP

