

REPORT ON THE PASTUS AND TOBY CLAIMS IN THE NICOLA
MINING DIVISION NEAR MERRITT, BRITISH COLUMBIA

JULY 1, 1982

BRADFORD J. COOKE

HISTORY OF THE PROPERTY

During July, 1981, a helicopter-borne electromagnetic survey was flown over selected areas near Merritt, B.C. as part of the Nicola Project (MS11). Purpose of the survey was to test Nicola Group volcanic rocks for geophysical responses related to volcanogenic massive sulfide deposits. Pastus and Toby claims were staked to cover 2 geophysical anomalies because competitors were actively exploring the Merritt area at the time. The property was briefly explored in July 1981 and again in June, 1982.

WORK TO DATE

Work on the property to date includes an

expenditure of approximately \$1900 (~~\$1500~~ ^{\$1425} US) and 7 mandays of geological mapping and geochemical sampling. Abundant outcrop forms a NNE trending ridge that runs the length of the property. Cretaceous Kingvale Group andesite flows and breccias underlie ~~the~~ not only the 2 geophysical anomalies but the entire claims group. A total of 179 soil samples and 33 rock samples were collected, ^{and} analyzed for Cu, Zn, Pb and Ag or Ba. Data were plotted on probability paper to determine background, threshold and anomalous values.

CONCLUSIONS AND RECOMMENDATIONS

Geological mapping indicates that prospective Nicola Group volcanic rocks do not underlie the geophysical anomalies and that the Kingvale Group volcanics that do outcrop are andesites, not rhyolites. Geochemical sampling located 3 high background or low anomalous

Cu values but they are sporadically distributed. A check on the locations of the geophysical anomalies identified outcrop on ~~opposite~~ ^{the} sides of the topographic ridge but no obvious ~~explanations~~ ^{pauses} for the conductors.

Neither geology nor geochemistry produced positive results. The geophysical anomalies cannot be explained although they occur over outcrop. Therefore, Kastus and Tobey claims should be maintained in good standing upon their anniversary date, August 14, 1982.

An expenditure of \$500 is ~~required~~ ^{needed} to meet the assessment requirement of \$2400 for the ~~two~~ 2 claims.

Several options are open to us:

~~By keeping the claims, Chevron will be able to~~

1) do \$500 worth of ground geophysical followup
~~compare this property with other prospects staked in~~

1982

2) pay \$500 in lieu of work
3) drop 5 units from the claims

CHEVRON STANDARD LIMITED
MINERALS STAFF

BRITISH COLUMBIA

MILES

