## ACCESSTBILITY

The area of interest is some 220 to 275 miles North gast of Vancouver, locally known as Ashcroft and Wicola map areas, in part accessible by paved highway, Canadian Pacific and Canadian National Railways, and Canadian Pacific Aixlines, gravel roads running from the pavement throughout the area of Copper and Molybdenum Prospects.

CLIMATE
The area lies in the dry belt, having an average of 7.07 inches of precipitation over a 30 year period, up to 2945. Snow at higher elevations does not exceed 3 feet, and average temperatures during Jamuary and February are around zero.

BLEVATIONS
Ashoroft - - arcund 1,000 feet above sea level
Kamloops - around 1,140 feet above sea level
Area of Interest - from 1,000 feet to 6,000 feet
above sea level.

## STRUCTURAL FEATURES OF AZRA CONCERNED

You will note on accorpanying map West of snowstora area are strong Regional Faults. These faults are known to be some 200 miles in length at least, and it is most interesting to note that the distance of the snowstorm area is within flive miles of the same distance fast of the Regional Taults sytem, as Copper Kountain mine, a large copper producer soms 80 miles gouth East of the snowstorn area. The Copper Mountain and Snowstorm Tault systoms could be an adjacent fault system parallel with these strong Regional Faults. If the abofe is correct, one would expect similar strong structural conditions to exist at the Snowstorm as at Copper Mountain Mine, malking channels for large, low grade copper deposit of large, undetermined widths and deepseated ore deposits.

## Structural Features assumed within the Snowstorm Areas

(a) Guichon Shear (8) if exists, Is in a wide, North-South trending valley bottom to within 4 miles of Tunkwa Lake, where Guichon Greek swings to the North West, forming part of No. 1 shear? You will note I have projected the Guichon Shear Northward from where No, 1 shear intersects it, to the mouth of Deadman River, a North-South trending stream, if I. am right in my assumption, the Guichon Shear could be a major Fault System connecting to the Otter or Allison Fault system to the South. having a length of some 130 miles.
(b) No. 1 - Huestis and North East Shears would then be off-shoots of the Guichon Shear. Again you have a similar condition as Dr, Rice mentions at Copper Mountain area. Where Huestis Shear intersects the Guichon Shear, is like the spread fingers of a hand whose palm is at the intersection.
(c) North East Shear as shown on the accompanying map could be an adjacent structure to the Snowstorm?

## ECONOMIC POSSTBILITIES OR AREA

The area is underlain by a large body of granite which oecupies an area trending South, South Easterly from Asheroft for some 36 miles in length, having a width of some 14 miles at its widest point.

Several copper and molybdenum deposits have been known in this area for more than 40 years. At various times, when price of copper warranted it, high grading was done on several of the properties, and some shipments of ore, as well as concentrates, were made. Those containing copper-molybdenum were considexed as valueless metalic minerals at that time, as they were not a shipping product by high grading.

Within the granite nany large shear zones are known, the granite being altered to chorite, sericite, and quartz with which are important amounts of bornite and chalcopyrite. In places, the shear zones contain veins several inches to a foot in width of nearly solid chalcopyrite and bornite, surrounding which are wide gones in which these minerals occur as disseminated particles, thus forming large bodies of low grade copper and molybdenum ores.

The area is almost entirely covered by drift, through which only a few relatively small areas of granite project. Copper minerals were noted in sons of the outcrop of granite. Its relation to the amount of granite which is visible, is encouragingly large, and suggests the probability that many other deposits may be existing in the mech covered areas of granite.

In glaneing at the enclosed map showing the locations of the prospects, one would immediately visualize that the drainage system of the aroa lends itself to structural features.

1. Along upper part of Pukaist Creek and Witches Brooklforms a wide valley approximately one mile in width, trending North West and South Fasit, with hills rising from one to two thousand feet above the valley bottom. The valley bottom in part, could suggest a wide shear-zone or fault, and one will note that the largest percentage of prospects parallel the valley from one to four miles back on the surrounding hills, where granite outcrops, generally along a North East or South West trending stream systom which are tributaries of the main North West and South East trending valleys.
2. A similar condition also exisis along Guichon Creek, a Morth and South trending valley, where we find a series of prospects above the valley bottom to the West. This also suggests that Guichon Greek may enclose a large shear sone or fault trending North and South. The other structures, as outlined, to be dealt with in accordance with the results obtained from the first venture, at the Sncwstorm.
3. Some 80 miles to the South Eist, similar structural and mineral conditions exist as at the Snowstorm and its subsidiary prospects, which is known as Copper Mountain Mine, producing approximately $1,300,000$ tons of copper ore of around one percent grade per year for the past 15 years. Between the two areas, several copper prospects are known to occur, but none with the potential tonnage as the Snowstorm.

## PROPERTIES

## Numbers Correspond to Map Numbers.

0.K. Group - Crown Granted held. - NOW Alvin Mininqking for Remarks: Production $=10,000$ tons mined of $3.60 \% \mathrm{cu}$. From this i valley Aced $1,487.8$ wet tons of concentrates of $20.33 \% \mathrm{Cu}$. 3.90 oars. Ag. a ton

Zone -10 to 12 feet wide - Strike $\mathrm{N} \cdot 80^{\circ} \mathrm{E}$.

Toketic Iron - Lapsed Still a prospect
Remarks: Ho production.

> Zone - 300 feet wide, 3,000 feet long - Strike N. $65^{\circ} \mathrm{g}$. containing a series of short lenses of Specular Hematite, with minor amounts of chalcopyrite.

Kathleen - One claim held. - Held by Valley Cop pes (prospect) Remarks: No production. Similar conditions exist as on O.K.

Zone - Strike $11.25^{\circ} \mathrm{E}$.
Highland - Lapsed. North Pacific-Eyploration Stage
(High Valley flea)
Remarks: No production.
Zone - Strike N.E. Series of small lenticur veins.
Transvall - Crown Granted held. - North Pacific - Explorationgrage Remarks: No production. Similar occurrence as Highland.

Strike NoS. direction.
Glossy - Grown Granted held. - Prospect
Remarks: Forge claim production 21.80 Tons of .05 oms . Au, 2.96 oms. Ag, $12.62 \% \mathrm{Cu}$. Strike $\mathrm{H} .30^{\circ} \mathrm{W}$. Glossie Claim - Zone 100 feet wide of around $1.00 \% \mathrm{Cu}$.

Snowstorm - claims held - Now Bethlehem
Remarks: Production -96 tons. 27 to $31.64 \% \mathrm{Cu}-.07$ to .10 ossa $\cdot \mathrm{Au}=$ 5.08 to 6.77 oxus. Ag. Strike NaE.

One Zone 1,000 feet wide and 3,000 leet long of disseminated copper. One section averages $64 \%$ Cu across 280 feet 1,000 feet west a 12 foot zone of $\mathrm{Cum} \mathrm{MO}^{\mathrm{s}}$.

64
Gnawed Met. - Claims - held - Exploration - Highland valley Area
Two shear zones - showing $\mathrm{Cu}-\mathrm{Mos}$. Strike N. 80 E .

65
Aberdeen - Grown aranted held. - Bethlehen-Chataviay Exploitation
Remarks: Production $-1,089$ tons yielded 9 oas. Au -761 ours. Ag 391.381 lbs . Gu. Strike of Zone $\mathrm{H} \cdot 60^{\circ} \mathrm{W}$.

76
Brie - Lapsed - Now pant of Craig mont Mines
Remade: Several small veins of copper mineralization.
Strike - $\mathrm{N} .65^{\mathrm{Og}}$.

Burr - Grown Granted held. - Prospect
Remarks: No production.
Large body of disseminated pyrite, some copper - gold - silver.

Tamarac - Grown Granted held. - Pant of /Hallel Copper Remarks : No production. 1, 000,000,000 four t Zone consets of a series of veins carry appreciable values in copper and molybdenum.

Albatros - Lapsed - Trojan Nines No productions (1tighvalley Areas)
Remarks: No production. Large zone carries copper mineral - Low grade. Strike 0 NoW.
victor - stepped - Put of Lurex (Hithbiand Valley pluck 1873 Remarks: No production. 3 small copper bearing veins. at Ho, wo tons.

Black Bluff - Lapsed Prospect
Remarks: Large area of low-grade copper and molybdenum minerals.
copper King - Lapsed - Pant To Bethlehem Chataway Remarks: Large zone of copper and molybdenum mininerals!" Progress 1971

## CONTUSIONS

In the writer's opinion, large areas underlain by this granite, warrant extensive prospecting and developing.

1. By doing a detail Geological and Structural mapping of the area.
2. By driving a 2,000 foot long drift through the best mineralized section of the Snowstorm property and 300 foot crosscuts within the tunnel every 200 feet for sampling purposes, as diamond-drilling to date shows less than fifty percent core recovery, due to the frectitred ground of the deposit.
3. By crosscutting with open cuts along the copper-molybdenum prospect zones to located continuity and widths for sampling purposes of these known prospects to appraise their economic value.
4. To test the area by diamond-drilling where the strike of the Snowstorm, Transvaal and 0.K. intersect in the valley bottom of Witches Brook. Witches Brook, as mentioned before, could be a large NoW and S.E. trending shear-zone; if this be true, the intersection of the four structures may be important large copper deposits. - Now valley COPPer OREBODY
5. The area is a pleasant countryside in which to reside, whereby labor problems would be practically nil in relation to other remote areas.
6. To undertake the above program, several million dollars will be needed to establish large low-grade copper deposits now indicated, as open pit mining, also one must bear in mind the possibility of leaching due to the wide fractured area of disseminated copper deposits such as located on the Snowstorm Group.

Respectfully yours


Hoff. Testis.

