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801946

DESCRIPTION OF and RECOMMENDATIONS ON
FIVE PROPERTIES in the GRAND FORKS AREA

October 1970

by

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M A P S

Claim Map Showing Property Locations

1 inch = $\frac{1}{4}$ mile

S U M M A R Y

Five properties have become available for sale during the summer, in the Grand Forks area. A description of the history, geology, and previous work done, proposed new work and a proposed offer to the owner is given for each of the properties. A tabular comparison of the five properties is made.

I N T R O D U C T I O N

The mining properties herein described have been offered for sale or have become available for option during the past summer. If we wish to acquire them for our 1971 exploration program, action should be taken as soon as possible.

A short description is given of each of them plus a proposed program of work and a proposed offer. The offers are all option agreements of the same type and are based on the following principles:

1. The vendor would receive monthly payments in cash, roughly equivalent to 10% of the amount spent on exploration work.

2. The total purchase price is put at \$50,000 where, geophysical surveys have been carried out and where the next stage of exploration is diamond drilling; and at \$8,000 where only surface prospecting has been done.

In the area where the properties are located, there has been a great deal of staking and re-staking of claims making the ownership of much of the ground difficult to determine. Before any agreement is signed it is important to map the location of all posts and to establish the expiry date sequence of all the claims.

We have just completed this on the Goat Mountain property of H. Hoehn. It entailed the mapping of 25 post locations, and establishing the sequence of eleven groups of claims staked by nine different individuals all within an area of less than one square mile.

It is therefore recommended that any agreement on any of these properties should stipulate a certain period of time in which to check post locations and ownership before it becomes final and before the first payment is made.

Goat Mountain

LOCATION: The interesting ground in this area is covered by the claims, K.O. 1, 2, 3, 4, 5, 6, 7, 8, and 9 plus the V & H claim

owned by Mr. H. Hoehn and associates of Grand Forks. They adjoin the K.V. claims owned by Granby to the east.

HISTORY: The old-time prospectors dug several pits and trenches on the property. On the main gossan zone they drove a 150 foot adit and apparently encountered heavy pyrite mineralization but only very minor chalcopyrite. In the early 1960's the property was acquired by Mr. Hoehn. Later, Scurry Rainbow Oils Ltd. took an option on the claims and in 1965 had Huntec Ltd. run two lines of I.P. over the property. Although one of these lines showed high chargeability readings, Scurry dropped the option. Mr. Hoehn drilled several short "Pack sack" diamond drill holes on the claims for assessment work purposes with no results of any significance. In 1969, Bayland Mines took an option on the property and made I.P., E.M., and ground Mag. surveys. In mid 1970 Bayland dropped their option. During this period the claims were overstaked by Penarroya Canada Limited and by Boundary Exploration Ltd. and were then re-staked by Hoehn when he found out that Bayland had not recorded assessment work.

GEOLOGICAL SETTING: The area is underlain by a serpentine intrusive body 1,000 feet long and 200 feet wide surrounded by talcose limestone and by sheared and folded cherty argillite, phyllite and conglomerate. All these rocks trend in a general north-south

direction with extremely variable dips. The main alteration minerals are chert, sericite, and talc. Epidote is scarce.

GEOPHYSICAL AND GEOCHEMICAL SURVEYS: The area was covered in the 1969 Granby aerial Mag. survey and by a ground Mag. survey in 1970 by Bayland Mines. The Granby survey shows a small anomaly with a relief of 520 grammas. This corresponds in position to the serpentine intrusive mentioned above. The Bayland ground survey shows this anomaly also, plus a number of small satellite anomalies.

Two I.P. surveys have been run over the area. The first by Hunttec for Scurry Rainbow and the second by Siegel for Bayland Mines Ltd. These surveys disclose a large anomaly on the west side of the claims. This anomaly forms a continuation of the anomaly discovered by Granby in 1970 on the K.V. claims and makes a total anomaly approximately 4,000 feet long and 1,000 feet wide, at three times background. The anomaly overlies a series of sediments which parallel the west contact of the serpentine and includes the main showing where the previously mentioned adit is located.

Eighteen soil samples were taken over the K.V. area of the anomaly and four of them were definitely anomalous for copper.

PROPOSED EXPLORATION:

1. Chip sampling of the adit walls to check for copper mineralization.
2. Soil sampling over the I.P. anomaly on 400 foot centers, testing for copper, nickel, lead and zinc.

3. Diamond drilling of approximately six holes to total 2,000 feet.

This program would cost approximately \$20,000. Some of this would be spent on our own K.V. claims and would give us assessment work on them.

PROPOSED OFFER TO MR. HOEHN:

\$150.00 per month for the first 12 months to total \$1,800.

\$300.00 per month for the next 12 months to total \$3,600.

\$1,000 per month for the next 12 months to total \$12,000.

\$3,000 per month for the next 11 months until the total purchase price of \$50,000 is reached at the end of four years.

Pack Rat

LOCATION: The interesting ground in this area is covered by the claims, BG 1,2,3,4,5, and 6; Tokyo 6,7,9, and 14; 4 Shur 11A,12A,14 and 16. It does not adjoin any Granby property.

HISTORY: The main showing named by Mr. H. Hoehn, the Packrat Mine, was once covered by Crown Grant L1335. An adjoining Crown Grant, L1336 is mentioned in the 1903 B.C. Minister of Mines Report as being under bond to Granby. A tonnage of ore was apparently mined in the old days since there is a water filled glory hole, 75 feet in diameter on the main showing. In the 1960's, Mrs. R.E. Hoehn acquired the property. In 1969, Pennaroya Canada Ltee. overstaked the ground inadvertently and commissioned a geochemical soil survey on it by a consultant, Dr. P.J. Haman. When the overstaking was discovered, Dr. Haman sold the results of the survey to Mrs. Hoehn. In 1970, Bayland Mines took an option on the property and did I.P., E.M. and ground Mag. surveys on it. In mid 1970 they dropped the option.

GEOLOGICAL SETTING: The main showing consists of greenstone largely replaced by pyrrhotite, pyrite and minor chalcopyrite. In a report for Bayland Mines by R. Wolfe a number of grab samples from the mineral zone averaged 0.2% Cu. The area around the main showing is covered by overburden. The higher ground to the west consists of intrusive pink syenite. A couple of small chert outcrops occur to the north. To the south and east there is extensive, deep overburden.

GEOPHYSICAL AND GEOCHEMICAL SURVEYS: The soil samples taken for Pennaroya were tested for Cu., Ni., and Zn. The only result of consequence was a zinc anomaly downhill from the main showing.

The ground Magnetometer showed surprisingly little response even over strong pyrrhotite mineralization. The 1969 Granby aerial Mag. survey agreed with these results.

The I.P. survey done by Bayland found a large "V" shaped anomaly 15,000 feet wide and 2,000 feet long, with the main showing occurring near the vertex. The copper and zinc mineralization indicated, plus the lack of rock exposures make this anomaly an attractive target.

PROPOSED EXPLORATION:

1. Five line miles of detailed I.P. survey	\$ 3,000
2. Ten days of stripping with a Cat	1,200
3. 2,000 feet of diamond drilling comprising five 400 foot holes	<u>15,000</u>
<u>TOTAL COST</u>	\$ <u>19,200</u>

PROPOSED OFFER:

\$150.00 per month for the first 12 months to total \$1,800.

\$300.00 per month for the next 12 months to total \$3,600.

\$1,000 per month for the next 12 months to total \$12,000.

\$3,000 per month for the next 11 months until the total purchase price of \$50,000 is reached at the end of four years.

Tokyo

LOCATION: The interesting ground in this area is covered by Tokyo 1,2,4, and 5. The property adjoins Westcoast Resources on the west and Granby's Pac Group on the south. From the post location work we have done so far, the main showing appears to be less than 500 feet from the Westcoast boundary.

HISTORY: The old-time prospectors dug several pits, trenches, and a small shaft, from which a small amount of ore was apparently shipped. The claims were acquired in the early 1960's by H. Hoehn who did a small amount of drilling. A vertical hole drilled about 100 feet S.E. of the shaft intersected approximately 25 feet of 1% Cu. according to a report on the property by R. Wolfe. In 1969, Bayland Mines Ltd. took an option on the claims and did I.P., E.M., and ground Mag. surveys on them. In mid 1970 they dropped the option.

GEOLOGICAL SETTING: The main showing consists of a small garnet skarn zone formed by the intrusion of quartz diorite into limestone and trending in a north-south direction. The skarn is mineralized with pyrite, chalcopyrite and magnetite.

GEOPHYSICAL AND GEOCHEMICAL SURVEY: In the I.P., Mag., and E.M. work done by Bayland a number of insignificant anomalies were discovered. None of these anomalies correspond with the main showing. All indications are that the mineralization in the main showing is not extensive enough to form a very large orebody.

PROPOSED EXPLORATION:

1. 1,000 feet of close spaced diamond drilling consisting of five 200 foot holes, to try and delineate the mineral zone intersected by Mr. Hoehn.

PROPOSED OFFER:

\$50.00 per month for the first 12 months to total \$600.00

\$100.00 per month for the next 12 months to total \$1,200.

\$1,000 per month for the next 12 months to total \$12,000.

\$3,000 per month for the next 12 months until the total purchase price of \$50,000 is reached at the end of four years.

Spud

LOCATION: The Spud Group is located four miles north of Grand Forks where Fisherman Creek crosses the C.P.R. railway. It consists of eight claims and probably adjoins the Pac Group on the west.

HISTORY: The old timers dug two adits and a prospect shaft on the property following narrow veinlets of chalcopryite, galena, sphalerite and pyrite mineralization. According to rumour, when a culvert was driven by the C.P.R. on the property, a ten foot width of good chalcopryite mineralization was intersected. For the past ten years or so the claims have been held by Mr. Embleton of Penticton in partnership with Mr. Bill Puritch of Grand Forks. Several years ago Embleton drilled a number of short diamond drill holes to try and locate the rumored copper mineralization around the C.P.R. culvert, but without success.

GEOLOGICAL SETTING: The showings occur in an interbedded series of limestones and black argillites. The limestone is locally altered to skarn. Several small bodies of diorite and serpentine occur in the area. In the southern part of the area, sharpstone conglomerate and cherty sharpstone conglomerate occur, and probably the rock is Triassic in age. There is very little disseminated mineralization in the wall rock around most of the veins.

GEOPHYSICAL AND GEOCHEMICAL SURVEYS: As far as is known no surveys of this type have been conducted over the area.

PROPOSED EXPLORATION:

1. Geochemical soil sampling, testing for Cu., Pb., Zn., on 200 samples to cost \$1,000.
2. Linecutting, I.P., and Mag. survey covering eight line miles at \$600.00 per mile to cost \$4,800.

Total cost \$5,800.

PROPOSED OFFER:

1. An immediate payment of \$500 plus a guarantee that Granby will do \$5,000 worth of assessment work on the claims within the first 12 months.
2. Monthly payments of \$125 per month for the next 12 months to total \$1,500.
3. Monthly payments of \$500 per month for the next 12 months until the total purchase price of \$8,000 is reached at the end of three years.

Ironclad and Bay Horse Fraction

LOCATION: These are two Crown Grant Claims that lie to the east of the old Athelstan - Jackpot gold mine and adjoins the Granby owned Floor Claims.

HISTORY: The Ironclad claim is owned by Mr. Joe Tremblay of Penticton and he is also agent for the owner of the Bay Horse Fr., a Mr. McLean. In the 1930's Mr. Tremblay drove an adit on the main showing and shipped several carloads of high grade arsenical gold-silver ore. A recent sample taken by the writer from the dump confirmed this. It ran 0.47oz/ton Au. and 0.1 oz/ton Ag.

GEOLOGICAL SETTING: The main showing lies along the contact between a large body of serpentine and andesite. The adit is not now accessible. According to the owner, the mineralization occurred as a narrow vein of quartz, arsenopyrite and galena which at several places widened suddenly to up to eight feet and then just as suddenly pinched down.

GEOPHYSICAL AND GEOCHEMICAL SURVEYS: A geochemical survey has been run over the property but Mr. Tremblay does not know who ran the survey or what the results were. No geophysical surveys are known to have been run over the area.

PROPOSED EXPLORATION:

1. Stripping and trenching the area below the adit to try and locate the extension of the vein to cost \$1,000.
2. Re-open the adit and sample it to cost \$500.
3. Explore the serpentine contact zone with an E.M. survey to cost \$1,000.

4. Extend the I.P. survey that will be done on the Floor claim group across the area to cost \$1,500.

Total cost \$4,000.

PROPOSED OFFER:

1. An immediate payment of \$600 for the Ironclad and Bay Horse Fraction plus a guarantee that Granby will do \$4,000 worth of assessment work within the first 12 months.
2. Monthly payments of \$120 per month for the next 12 months to total \$1,400.
3. Monthly payments of \$500 per month for the next 12 months until the total purchase price of \$8,000 is reached at the end of three years.

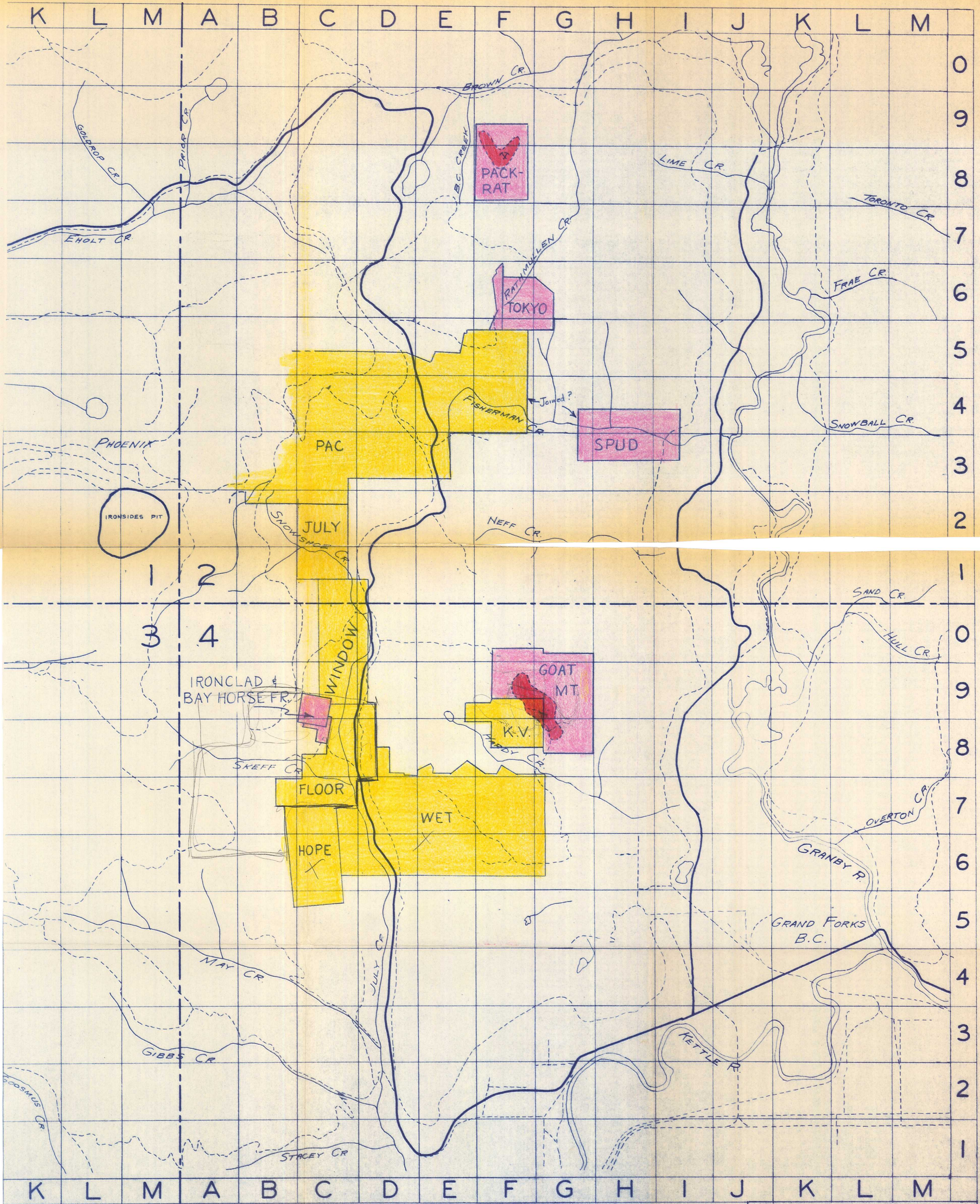
TABULAR COMPARISON of the PROPERTIES

	<u>Goat Mt.</u>	<u>Pack Rat</u>	<u>Tokyo</u>	<u>Spud</u>	<u>Ironclad & Bay Horse Fr.</u>
Location	Adjoins Granby	Isolated	Adjoins Granby	May adjoin Granby	Adjoins Granby
History	Complex	Unknown	Unknown	Interesting	Interesting
Geol. Setting	Fair	Fair	Good	Fair	Fair
Geophysics	Good	Good	Poor	--	--
Proposed Work	\$20,000	\$20,000	\$8,000	\$6,000	\$4,000
Proposed 1st year payment	\$1,800	\$1,800	\$600	\$500	\$600
Proposed Total Price	\$50,000	\$50,000	\$50,000	\$8,000	\$8,000

Total work proposed in the first year would amount to \$58,000.

Total payments to be made in the first year would amount to \$5,300.

This makes a total first year expenditure of \$63,300.



LEGEND

- GRANBY PROPERTY
- PROPERTIES AVAILABLE FOR PURCHASE
- I.P. ANOMALIES

THE GRANBY MINING COMPANY LTD.
PHOENIX COPPER DIV.

PROPERTIES AVAILABLE
OCTOBER 1970

SCALE: 1" = 1/4 MILE DRAWN BY J. Paxton
Oct/70

