

**A GEOLOGICAL RECONNAISSANCE OF THE  
SPECIFIED REGION DUE FOR RENEWAL ON THE  
07<sup>TH</sup> DAY OF NOVEMBER 2007 FILED ON THE  
31ST DAY OF JANUARY 2008 UNDER PENALTY**

**105A 13 = WATSON LAKE MINING DISTRICT  
JASPER 1 –JASPER 8 CLAIMS  
Claim numbers: YB60248 – YB60255  
INCLUSIVE**

**WORK PERFORMED BETWEEN:  
08 NOV. 2006 – 07 NOV. 2007  
OWNER/AUTHOR: STELLA HEARTY  
(100%) OWNERSHIP  
LATITUDE: 60 56 0N  
LONGITUDE: 129 54 0W**

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# **A GEOLOGICAL RECONNAISSANCE OF THE REGIONS OF THE JASPER CLAIMS, HASSELBERG LAKE AREA, 105A – 13**

## **LOCATION**

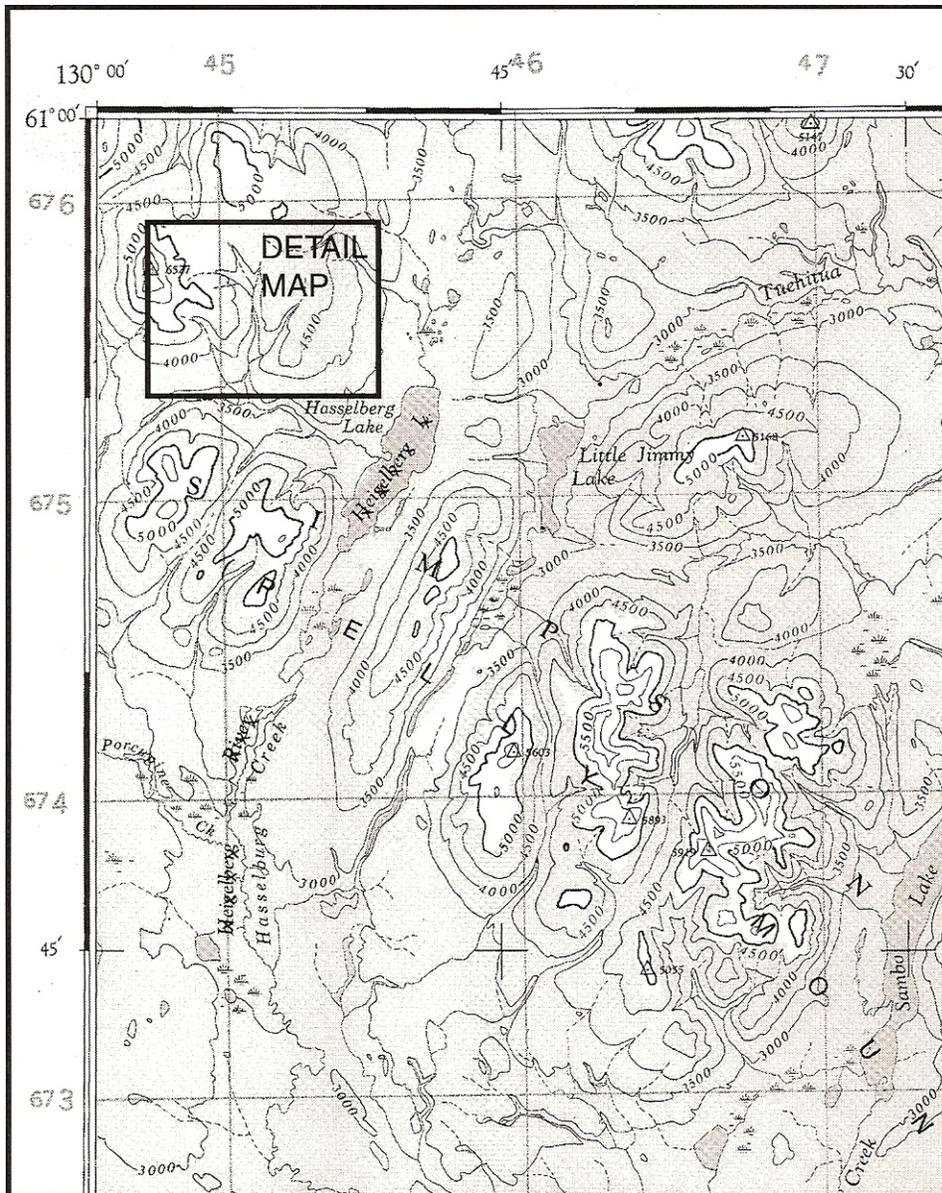
The JASPER claims are located approximately 7 kilometers North West of Hasselberg Lake on map sheet 105A – 13 (figure 1) They are accessible by all – terrain vehicle (Argo 8 x 8) from the road to the Tuchitua River that leaves the Campbell Highway 200 meters past the CanTung (Nahanni Range Road) Junction, toward the Tuchitua Highway camp located at the bridge crossing the Tuchitua River. Alternatively, there is a short airstrip (2500') suitable for small STOL aircraft at the Northeast end of Hasselberg Lake and also the lake itself is excellent for float plane use.

## **INTRODUCTION**

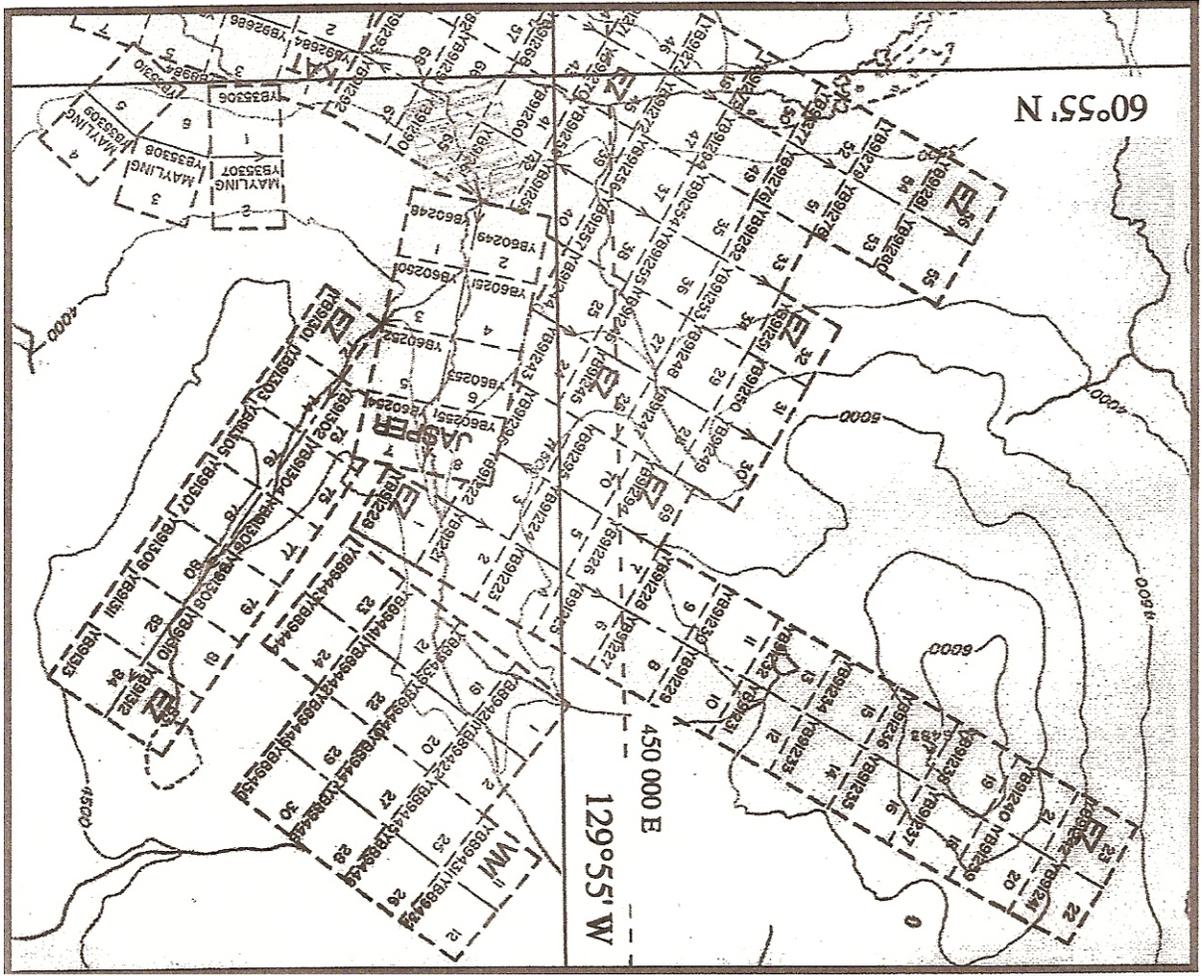
We undertook this seasons prospecting and sampling program to identify concentrated minerals of jade and carving stone, such as soapstone and serpentine. The previous years of work were on mineralization located in this specific area. Grid work for mineral purposes was done at that time along with some GPS, and mapping. Helping us with this process was Tim Liverton (maps 3A, 3B, 3C and 3D were compiled by Mr. Tim Liverton for use in the reports).

As I have indicated on previous reports the area has been and still is a producer of jade (nephrite). The jade produced in this area is mainly in boulder form. It is found in the heavy glacial till covering most of this area. It is and has been found mostly at the 4000' level down to the 3000' levels. The discoveries are mainly on the southern exposure areas of the slopes. We have located smaller boulders of jade (200 # to 1 ton) in the area we are now prospecting.

The area has been prospected in small sections by myself and my husband Ron over the past year in addition to previous years of prospecting. In addition to examining outcropping and floats in the area, we have been conducting a search for jade, soapstone and soft serpentine for carving purposes.









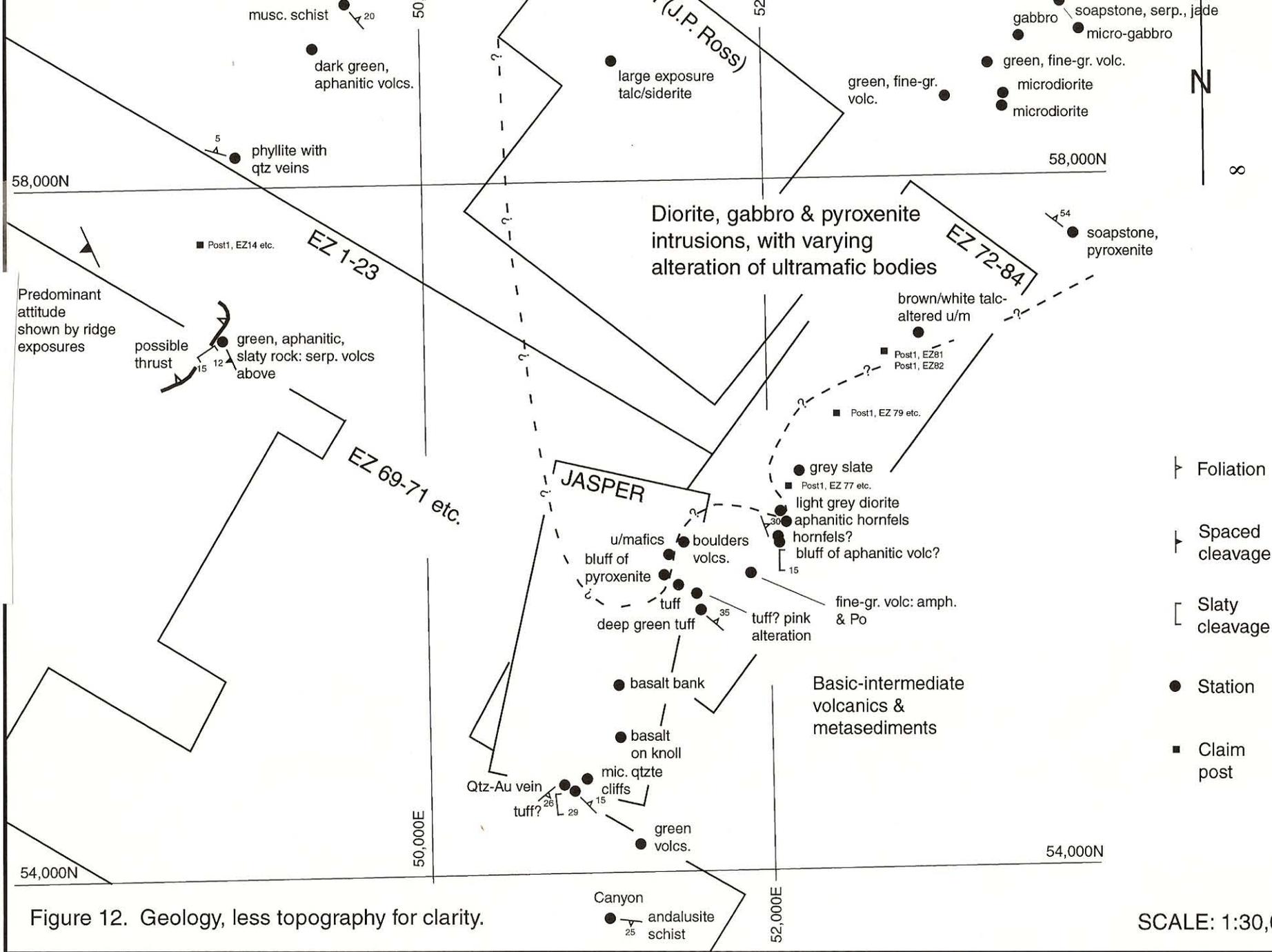


Figure 12. Geology, less topography for clarity.

## **REGIONAL GEOLOGY AND LOCAL MINERALIZATION**

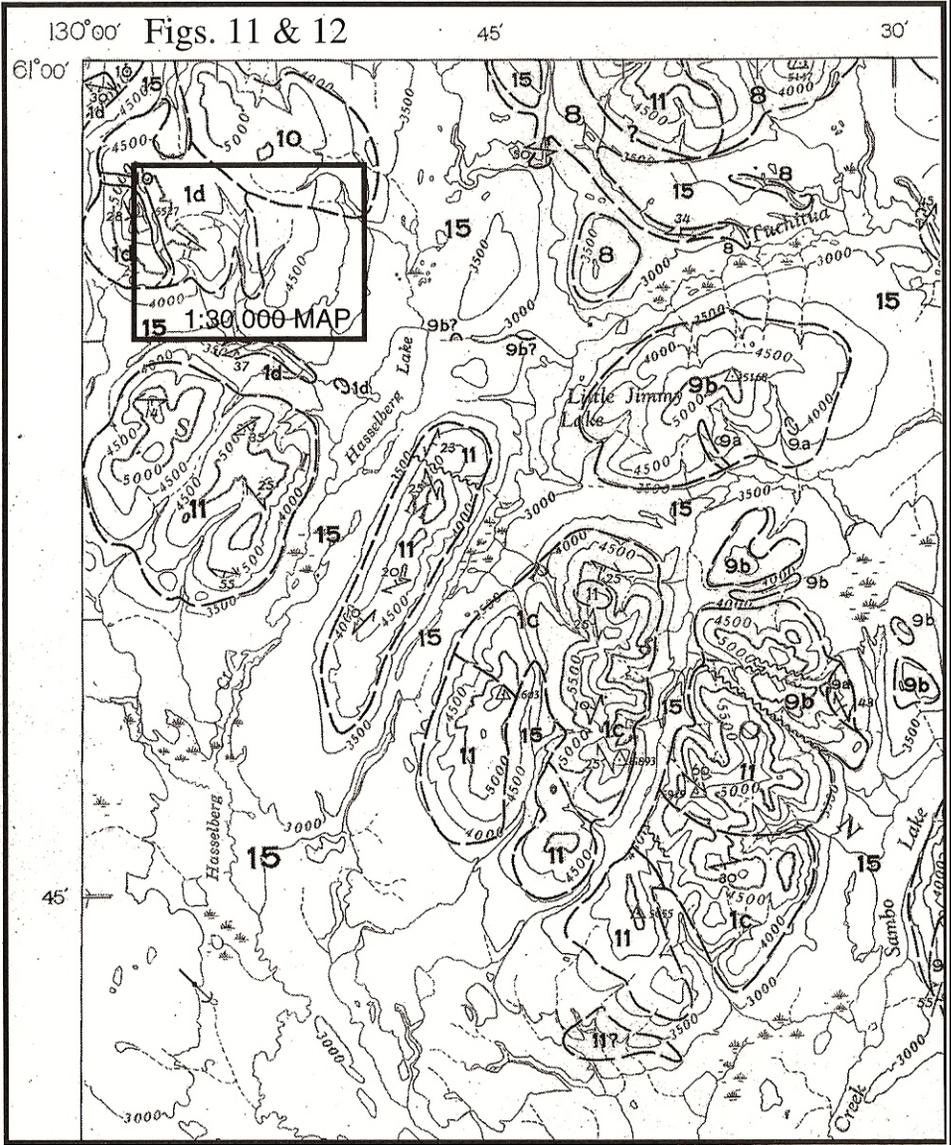
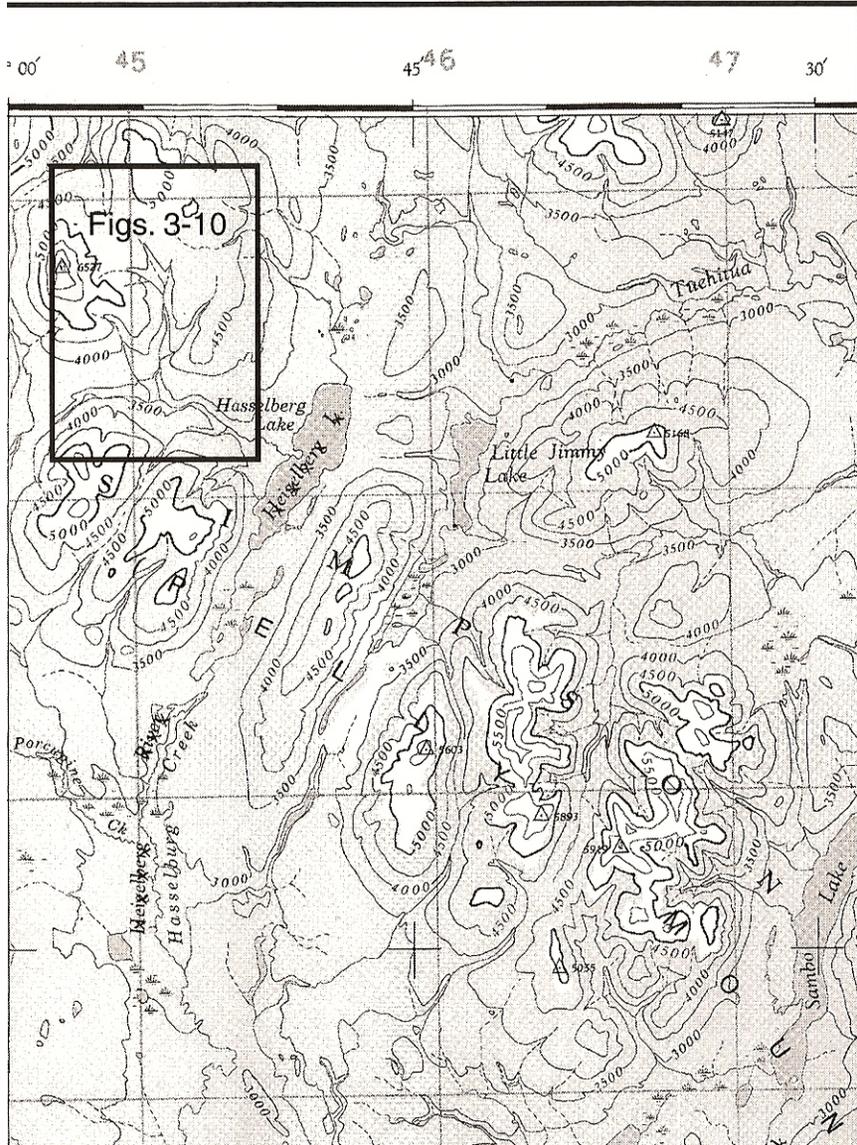
The main published mapping is the Watson Lake G.S.C. 4 miles to one inch map sheet (Gabrielse, 1966) indicates that the north to northeast part of the area is underlain by basic and ultramafic rock types and that in the west by phyllite and siliciclastics (see figure 1). The presence of ultramafics is borne out by a disturbed magnetic signature shown on the GSC 1:50 000 aeromagnetic sheet. However, the magnetic sheet shows that the magnetic anomalies extend southward at least to the main junction of the east creek. This could be the result of two conditions: either the ultra basics extend further south than indicated on the geological map or a considerable amount of magnetite rich float was deposited in the area by the last glacier movement. This seems more feasible if you consider the flight height of the aeromagnetic survey.

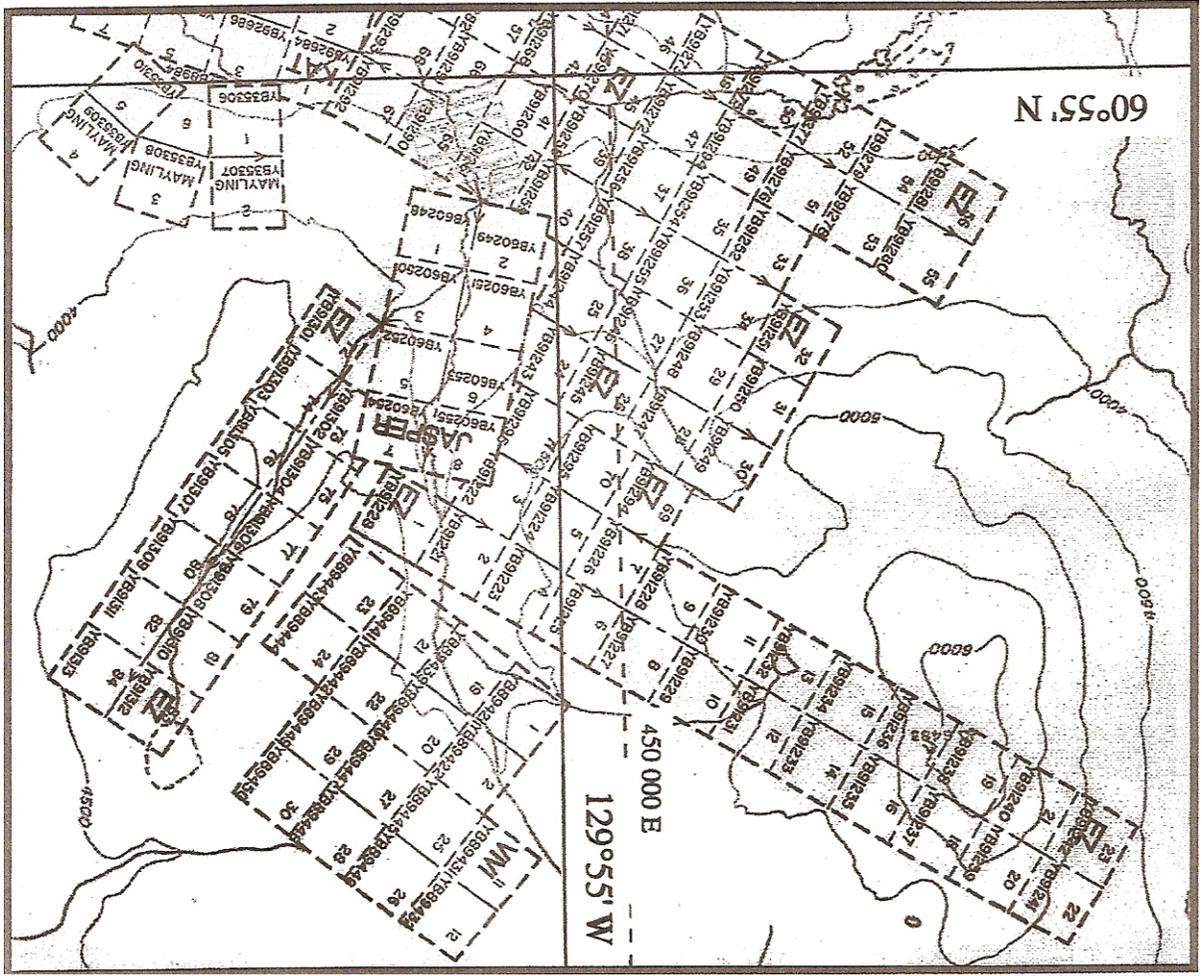
GEOCHEMICAL assay work was done with Tim Liverton over the years and there are many mineral showings in the samples.

With the prospecting carried out by myself and my husband, and the help of Mr. Tim Liverton over the years, we have come to the conclusion that the jade boulders come from the north ridge at a higher level and through prospecting the area we are coming to the conclusion that the main supply of the jade boulders is float related, but this mineral, not water worn, has come from an area close to us. It is noted that the serpentine boulders which exist in this area are connected with jade and have traveled from the same area. The soapstone, of which we have found small boulders, has come from a source on the EZ claims. There are locations of outcropping of serpentine and soapstone at the higher elevations on the EZ claims.

We will be continuing our prospecting of these claims and will move further to the west on specific sites next year.

The following is what we have completed to date for this report.







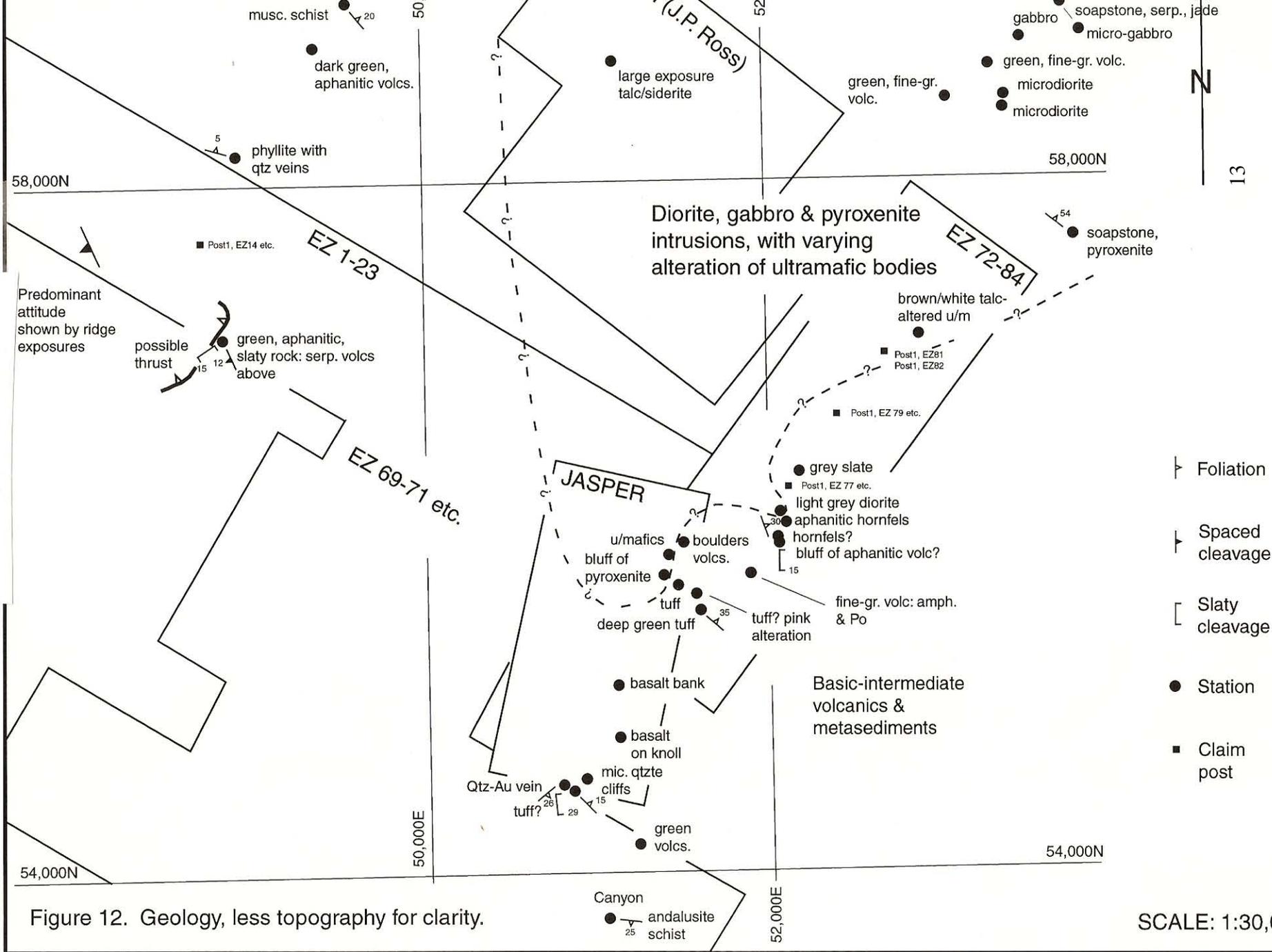
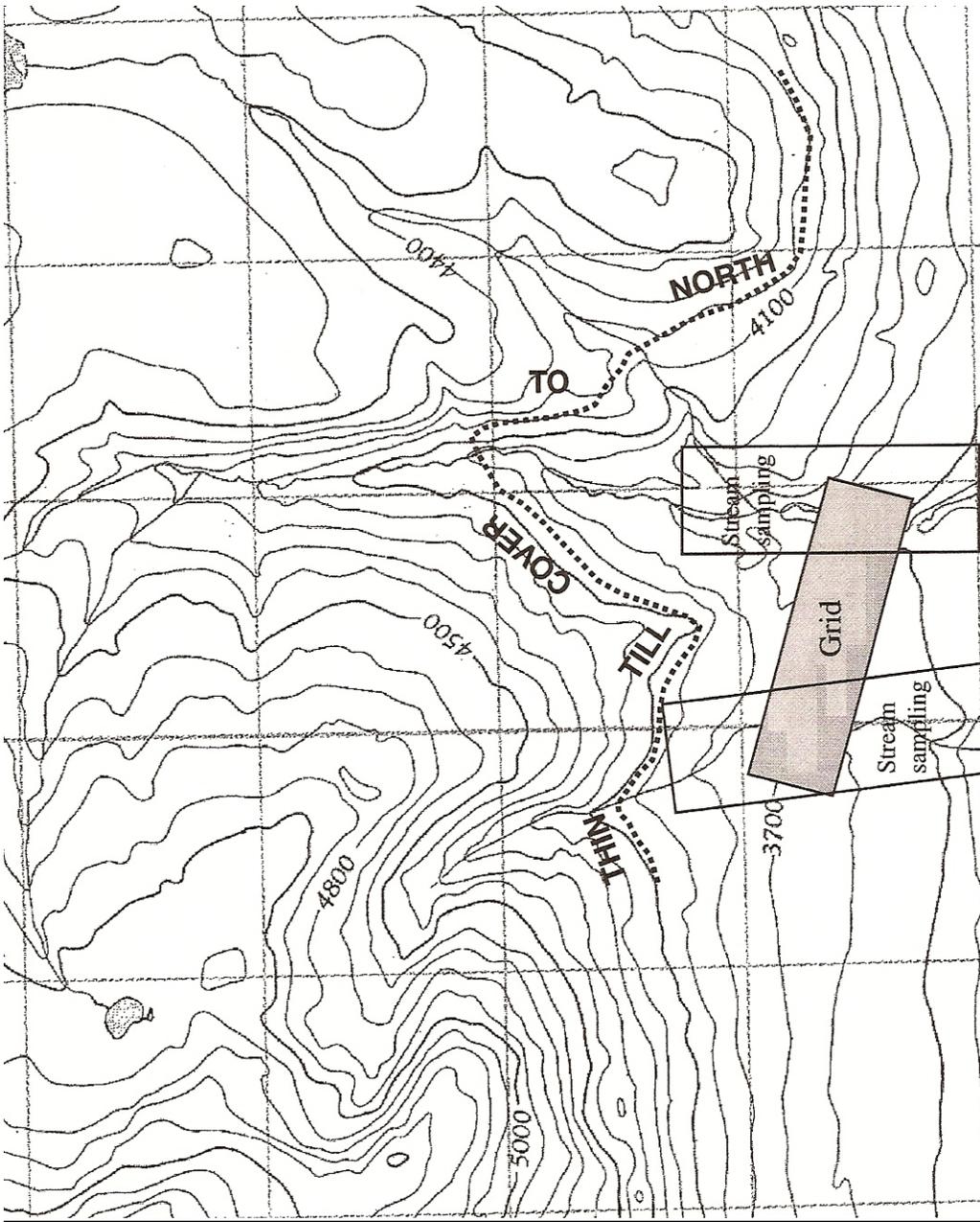


Figure 12. Geology, less topography for clarity.



## APPENDIX 1: GEOLOGICAL NOTES

Abbreviated notes are given here for the various locations with GPS coordinates available (easting first, northing second). All attitudes of foliation are given as strike and dip relative to magnetic north.

51040, 53735 east side of canyon. Andalusite schist, foliation form dip slope 065/25SW.

50780, 54518 aphanitic green-grey ? volcanic. Prominent foliation 050/26SE, spaced cleavage 174/29E.

50828, 54479 micaceous quartzite in east face of canyon. Foliation 135/15NE. Iron-stained, but no sulphides obvious.

50902, 54552 east side of canyon. Cliffs below are micaceous quartzite.

51097, 55086 10 m high bank of basalt boulders: mostly very fine-grained, but shows occasional 2mm plagioclase laths.

51091, 54788 aphanitic ? basalt on knoll.

51213, 54172 green-grey aphanitic volcanic in 10m high bluff.

53794, 57654 exposure, 15 x 10m, of soapstone (anastomosing foliation 127/54NE). Fresh pyroxenite 5m south.

52895, 57090 brown/white spotted talc-altered ultramafic: pyroxenes pseudomorphed.

52692, 56998 Post 1, EZ 81; Post 1, EZ82.

52406, 56640 Post 1, EZ 79 etc.

52183, 56310 suboutcrop of grey slate.

52123, 56217 Post 1, EZ 77 etc.

52067, 56074 W. side of creek: light grey,  $\leq 1$ mm grainsize diorite.

52091, 56009 Opposite side of creek: green-grey aphanitic ? hornfels exposure for 50m south.

52053, 55935 distinctly foliated quartzite or hornfels. Foliation 160/30E.

52060, 55905 aphanitic green ? volcanic.

51883, 55728 green fine-grained volcanic: radiating 0.5mm amphiboles and trace of

pyrrhotite.

51571, 55610 green, aphanitic volcanic with ovoid pink masses to 10 cm (breccia?).

51596, 55518 deep green ? tuff. Foliation 130/35NE.

51459, 55663 tuff continues down west side of ridge.

51376, 55726 bluff of pyroxenite. Ultramafics continue to: 51405, 55844.

51490, 55913 many boulders of volcanics. Contact probably just below (west).

53064, 58463 Deep green, fine-grained volcanic.

53316, 58653 Further exposure of same.

53408, 58479 grey-green, 1.5mm g/s diorite.

53402, 58402 microdiorite, lightly finer-grained.

53504, 58810 SW side of knob. Mottled deep and light green rock,  $\leq 1$ mm grain size.

Probably altered  $\mu$ gabbro.

53561, 58839 similar  $\mu$ gabbro, but 30m on 350°mag the rock shows 4mm pyroxenes.

53748, 59004 fine grained pyroxenite on ridge. 2mm g/s.

53690, 59070 exposure 5x5m containing jade in serpentinite.

51117, 58707 Large outcrop area of white soapstone with irregular 1 cm veins of brown carbonate.

49389, 58813 dark green aphanitic ? volcs.

48931, 58186 mass of white quartz, trend 130°M, in phyllite. Foliation in phyllite 105/5N.

48833, 57128 Base of steep slopes, green, aphanitic slaty rock - may be highly sheared volcanic. Slaty cleavage 056/15SE; spaced cleavage 155/12SW. Float of serpentinised volcanics above.

48717, 57692 Post 1, EZ 14 etc.

49578, 59070 micaceous schist, foliation 140/20NE.

## **ORIGINAL GEOCHEMICAL WORK:**

The original Geochemical work was carried out with the help of Mr. Tim Liverton and are on file at the Mining Recorder's Office in Watson Lake, Yukon Territory. Mapping data is also on file showing the locations of the samples and results of the assays.

## **2006 GEOLOGICAL WORK/GEOLOGICAL NOTES**

I am the registered claim holder and the operator of claims numbering Jasper 1 to Jasper 8. Grant Numbers from YB60248 to YB60255.

During the summer working season of 2006 I have with help carried out and collected data from all of the above noted claims by way of rock sampling, preparing and numbering rock samples, storing said samples in plastic bags, and through visual prospecting. GPS locations will be done over the next season of work as I loaned my GPS to a fellow colleague.

**Commencing on May 30, 2006 up and including June 17, 2006** we collected samples of jade and Soapstone, and serpentine samples were taken to be used for carving purposes. This will be a project to see if the soapstone in our area would be of a quality to be able to supply to the carvers. We did some panning in the creeks and found that it contained magnetite, pyrites, some jade pieces and garnet crystals, (Pyrope garnets; deep dark red in color). These samples were bagged and numbered, they are being kept for visual inspection only and will not be sent out for assay. We continued our prospecting and located boulders (small to large) of jade, soapstone and serpentine.

We collected some of the small ones and took them back to our main camp. I used my small hand carving tools to test the samples for carving. The soft serpentine and soapstone of different textures and colors, were easy to work with, the jade requires diamond tools because of its hardness. These types of tools I do not have in my possession. I will give these samples to a colleague who does work with jade. He will advise me on the quality of the jade for carving purposes. I will also give him pieces of the serpentine, soapstone and possible marble to do carvings with.

**June 22, 2006 to June 28, 2006 inclusive:** On these locations noted above we spent most of our time checking and collecting some Small jade boulders which are still predominant in this area. All samples that we collected were taken to our main camp to be transported out at the end of the season.

**July 001/006 to July 10/006:** We prospected these areas further and collected more samples of jade, soapstone, serpentines, and some marble. This location is known to us (through previous owners) as the area that the jade was deposited in as well as in the other claims toward Hasselberg Lake. We are looking in the future to start a project to excavate the overburden and locate other boulders of jade which we believe is still buried in these areas. Hand drawn maps from the prospector, Richard Bourget, were given to us by him when he first started prospecting this area (as we grub staked him on a few of these occasions). The jade previously removed from this area (by the previous owners) ranged in weight from: 10 ton to 120 ton, being the largest one to be taken from this area. The jade from the area ranges from grade a, grade b to a grade c level. It is very expensive to haul this product from this area as it is a project that has to be done in the winter months. We have located boulders in this area of various sizes. We have not tested these boulders by drilling cores nor have we cut any samples off of them at this time. The buyers are very particular about any holes in the boulders. We will do that at some point in the future with direction from future buyers (if the jade/serpentine/soapstone becomes a feasible product to transport and sell).

Our prospecting and sampling these past months were tunneled toward jade, soapstone and soft serpentine rocks for carving. Also, some samples that may be marble were taken for carving as well. No samples were taken from the Jasper claims for chemical analysis this prospecting year.

**NUMBER OF SAMPLES TAKEN FROM EACH CLAIM:**

<u>Claim name</u>	<u>grant number</u>	<u>number of samples</u>	<u>cost per sample</u>	<u>total:</u>
Jasper 1	YB60248	2	\$465.47	\$ 930.94
Jasper 2	YB60249	5	\$465.47	\$2327.35
Jasper 3	YB60250	2	\$465.47	\$ 930.94
Jasper 4	YB60251	2	\$465.47	\$ 930.94
Jasper 5	YB60252	3	\$465.47	\$1396.41
Jasper 6	YB60253	3	\$465.47	\$1396.41
Jasper 7	YB60254	1	\$465.47	\$ 465.47
Jasper 8	YB60254	3	\$465.47	\$1396.41
<b>total claims</b>	<b>total grant numbers</b>	<b>total samples</b>		<b>total cost</b>
8	8	21		<b>\$9774.87</b>

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### COST STATEMENT EXPENSES FOR 2006

<i>Groceries 35 DAYS man days @ \$35.00/DAY</i>	<i>\$1225.00</i>
<i>Truck rental (over 35 day period)</i>	<i>\$ 450.00</i>
<i>Argo rental @\$150.00/day x 30 days (avg. 10 hr day)</i>	<i>\$4500.00</i>
<i>Prospector wages \$120.00/day x 30 days (avg. 10 hr day)</i>	<i>\$3600.00</i>
<i>Prospector's helper \$100.00/day x 30 days (avg. 10 hr day)</i>	<i>\$3000.00</i>
<i>Argo driver \$50.00/day x 30days (avg. 10 hr day)</i>	<i>\$1500.00</i>
<u><i>TOTAL EXPENSES: (2006)</i></u>	<u><i>\$9775.00</i></u>

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### RECOMMENDATIONS:

This work that has been completed over the past year is only the beginning of what should be an extensive work schedule to be prepared to take place on the Jasper claim area outlined in the above written notes. The claims located across the valley from ours contain jade as well as serpentines. This may be the area from which some of our jade originates from. Future prospecting of this sector at a later date will help to confirm the prime location of the jade.

I will also be undertaking to do the GPS references for the carving stone locations during the next year's season of work.

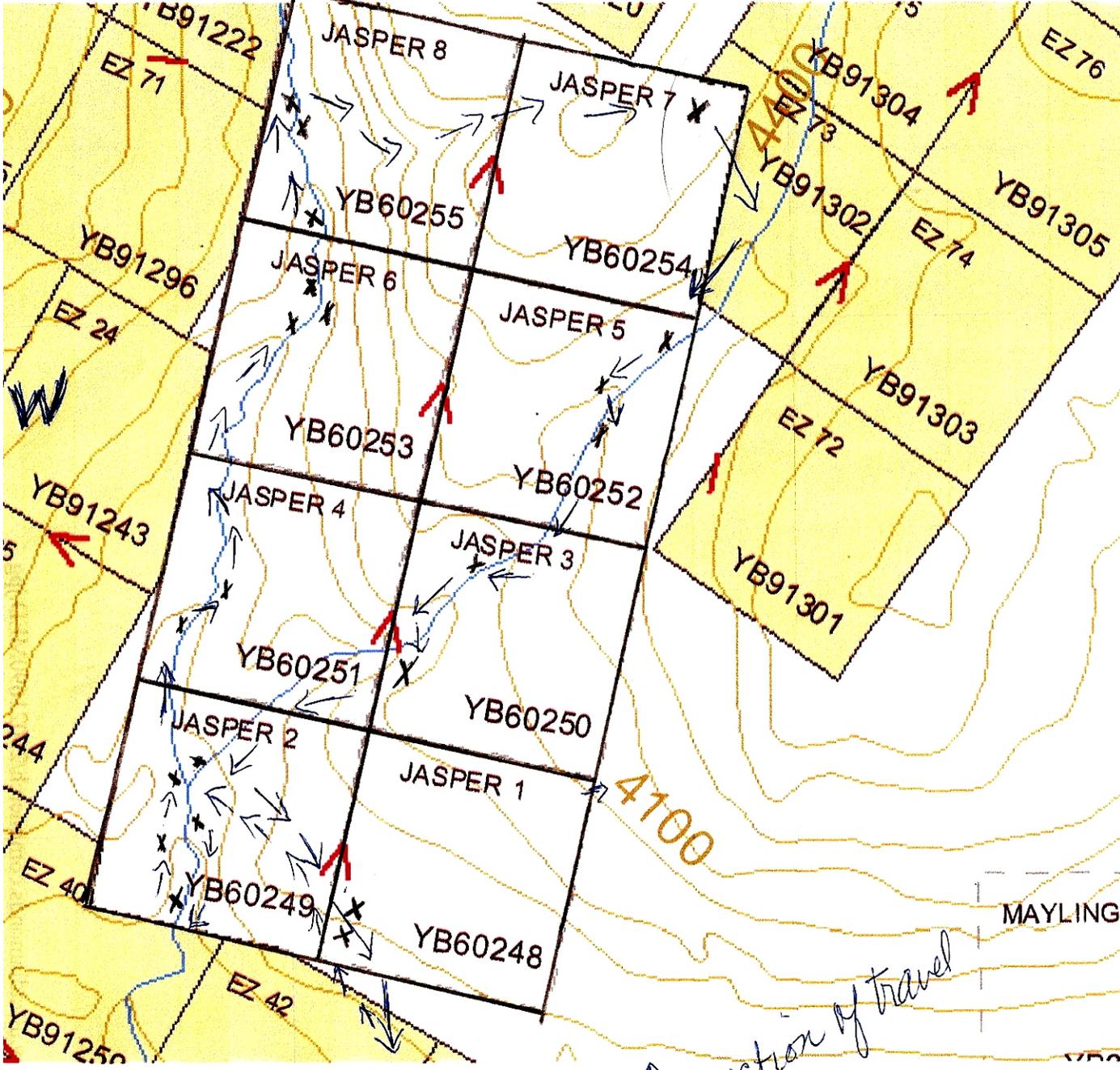
### REFERENCES:

Garbielse, H. 1966. Watson Lake map sheet. Geological Survey of Canada map 19-1066, scale 1:253440.

Murphy, D.C. 2000. Preliminary geological map of part of 'Tuchitua River North' area 105H/4, southeastern Yukon (1:50 000 scale). Open file 2000-16, Indian and Northern Affairs Canada, Exploration and Geological Services division Yukon Region.

60°56'0N  
290°54'0W

'N' Jade, Serpentine, Saa



**COST STATEMENT (2)PROJECTED:**

**Estimates of time needed for this work are:**

Grid preparation and sampling	20 days
Geological mapping of the areas	15 days
Prospector	20 days
Prospector's helper	20 days

**Estimated costs are:**

Subsistence 55 man days at \$35.00	\$1925.00
Vehicle	\$ 500.00
Argo	\$5500.00
Prospector pay 20 days @ 120.00 /day	\$2400.00
Prospector's helper 20 <u>days@100.00/day</u>	\$2000.00

**Total:** **\$12,325.00**

## **STATEMENT OF QUALIFICATIONS**

Stella Hearty

Academic qualifications:

I have been a resident of the Yukon for thirty nine years, and for over fifteen years I have been actively prospecting in the Hasselberg Lake Area. I originally started out searching for and finding Nephrite jade in the form of boulders of all sizes. The smallest from: 10 pounds to the largest over 120 ton.

I took time to read as many books on geology as possible and expanded my search from jade to heavy minerals and gemstones. I am not a geologist, I am just a prospector who has taken training over the years to help me to know and understand the different minerals and basic formations found within the Yukon Territory, especially within the region of 105A 13 where my claims are located. I am always looking for ways to increase my knowledge of the earth and how it is steadily changing, especially with the new discoveries of Diamonds in the Northwest Territory and Emeralds in the Yukon Territory. I continued to look for other minerals of interest during this period as well.

Under the tutorial of Timothy Liverton, BSc in geology, I was able to attend his lectures and course on prospecting, sampling (rock, silt, and heavy minerals), mapping, gps training, identifying minerals, handling of samples, numbering of samples, filling out sample forms and sending for analysis. I attended field classes during this lecture which were located within a 50km range.

Over the years, I was able to apprentice under Mr. Timothy Liverton's guidance. The apprentice work took place on my claims located at Hasselberg Lake. I believe that the instructions I received from Mr. Liverton has given me the ability to do a satisfactory job prospecting my areas. Mr. Tim Liverton is always available when his expertise in his field of work is required.

I also received field instruction on site from Mr. Alex Black and Mr. Alex MacMillan, both prospectors in their own right from the Watson Lake Area.

Stella Hearty  
Prospector/Owner