## Mark Kopinec YMIP# 92104 (M&A Explorations):

- Henderson Creek Minnie Bell Creek Printers Creek Wolverine Creek Top Lake Area: 105D-14

#### ANOMALOUS VALUES CHART

Au	>	50	ppb
Ag	>	1	ppm
Cu	>	200	ppm
Pb	>	80	ppm
Zn	>	200	ppm
Ni	>	100	ppm
As	>	15	ppm

10,000	ppm	=	1%	
1,000	ppb	=	1ppm	
1	ppm	=	1 gm/metric	ton
34.29	ppm	=	1 oz/ton	

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HENDERSON CREEK - HENDERSON DOME: 1150-6 PL

This area was looked into into the possible potential for placer and bench placer claims as marked on the maps.

In examining the ground, one comes to realize the difficulty to test the ground using the inexpensive panning method. One is faced with dense vegetation and overburden to the depths of 40 to 60 feet. Within this footage one would encounter permafrost.

In order to test the ground for its placer potential, one is faced with 3 possible options:

1. Dig a shaft to reach bedrock;

2. Bring in a drill rig to drill a test hole; or

3. Bring in a D9 bulldozer to clear off the overburden to reach bedrock.

All of the above options are not possible for the seasonal prospector. Option 1 would take up the whole prospecting season. Option 2 and 3 are both time consuming and expensive propositions to only test ground out for its placer potential.

Caribou Mining is presently the claim owners of the placer claims on Henderson Creek. They are actively placer mining and retrieving placer gold (nuggets to fine gold). Caribou Mining expressed the difficulty of mining this area. One problem is the great depth of overburden , and secondly, permafrost. Caribou stated that the permafrost was very hard on the equipment and that resulted in expensive bills for equipment parts, especially the ripper on the bulldozers.

Most of the area and creeks are staked, but what is available for staking is virgin ground. To determine if this ground has potential for placer gold would be an expensive proposition for the small time prospector.

A noticeable secondary problem that would come about is getting access to the creek. Since most of the creek is staked, then one would be getting involved with an unrelated middleperson to obtain passage right to the creek without interferring with the other placer miners operation.





#### CONCLUSION

There is a potential for bench placer gold, but one must fight against the substantial depth of overburden, existing permafrost, and access right to the creek. As Caribou Mining mentioned, to mine this area for placer gold one is going to get involved in a costly project.

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#### MINNIE BELL CREEK: 1150-15F

The area of interest is marked on the map provided. This area was looked at for the potential of bench placer.

It seems that a portion of the creek has been cleared of overburden and the ground prepared for sluicing this summer or possibly next season.

Test panning along the creek, as marked in red on the map, resulted in black sand with traces of gold.

Examining the region and the overburden cleared, one is facing the similar situation as Henderson Creek: overburden, permafrost, and access right to the creek without interferring in the placer operations of the existing placer miner.

/ MA-3



#### **PRINTERS CREEK:** 115G-1

This area was looked into because it was known that Ed Carmen, claim owner of the placer claims on Printers Creek, has been mining the creek for over 10 years. The objective was to check if the ground above Carmen's claims had potential for placer.

The area that was prospected is marked on map one. The approximate spots where samples P1 and P2 were taken, as well as the other points where pan testing was done (marked with red dots), are marked on map two.

The overburden that exists is only approximately 4 feet in depth. At some points along Printers Creek the creek runs over bedrock. Most of the spots chosen to test pan resulted in black sand with traces of fine gold. These spots are marked on map two. Noticeable throughout where the creek flows is the signs of oxidization, rusty in color, on many of the boulders and rocks.

Sample P1 and P2 were taken just above claim 11 P26783. Both samples showed anomalous values for gold, 59 ppb to 245 ppb, as can be seen from the assay results attached.

Sample P1 was taken approximately 30 feet Northwest of Post #2 P26783, along the bank of a bend in the creek. The sample was of bank material from where the gold pan material was taken from. The panning did result in magnetite with fine gold. As from the assay result, P1+100 had an anomalous value of 94 ppb, but P1-100 had a decreased value of 59 ppb. The higher reading was a result due to the nugget effect.

The +100 and -100 means greater than and less than 100 grams mesh, which was used to determine the assay results.

Sample P2 was blacksand with fine gold that was taken from the pan testing. P2 was taken approximately 40 feet above the creek from where sample P1 was taken. This sample was taken at another bend in the creek. The P2-100 assay result had a value that was definitely of an anomalous nature, 245 ppb. Both spots where the samples were taken were marked with orange tagging.

Further panning up creek resulted in findings that were similar in nature as below, black sand with traces of fine gold.

A 2 mile lease was staked and the first post adjoined Post







PRINTERS CREEK

18-Jun-92date

M&A Explorations

Assay Certificate

Paget

WO# 13592

Sample #	sample wt.	Au ppb	Ag ppm	Pb ppm	Zn ppm	
P-1+100	20.687	94				
P - 1 -100	205.55	69	0.1	11	57	
P-2+100	24.085	97	چون است. است و می مشاهد است است است از موان بر دون می از می است. موان است است و می موان است است و می موان است و می موان است و می موان است و می موان است.	مربي والفرق و من المالي و من و من و	من مواند بالا الله من من الله عنه الله الله عنه الله الله الله الله الله الله الله ال	
P-2-100	196.64	245	⊲0.1	8	64	

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#2 P26783. The lease was along Printers Creek to its source. The lease was never recorded.

#### CONCLUSION

Assay results and test panning show that the ground investigated has placer potential. Next season should be considered in getting a small suction dredge to further test the ground for placer gold (nuggets, flakes, and/or fine gold). Equipment can be taken up by ATV's following the existing horse trail on the high ground, east of Printers Creek. 1151-3P: WOLVERINE, SUMMIT, SOUTH FORK, AND DOLLY CREEK

In this area, a variety of creeks were looked at for placer gold potential. The spots of interest are marked on the map on the following page. This area is known for its rich placer deposits.

Samples were taken from differrent creeks and are marked on the map. Where samples were taken the creek was test panned. Most of the creeks had much overburden, particularly a clayish-gravel muck, to contend with. Test panning in most of the creeks were not as successfull as hoped to be, with the exception of Wolverine Creek.

Wolverine Creek had some bedrock exposed and it was panned. The result here was magnetite and fine gold. Sample B east was the most anomalous value in gold content and arsenic, 289 ppb and 92 ppm, respectively. The assay results also indicate an interesting value for silver.

Sample D-1 was an oxidized section on a bank of Dolly Creek. The sample was taken to see the hardrock potential for silver, copper, lead, zinc, and gold. The attached assay results do not indicate any interesting values.

One hundred feet North of Dolley Creek, from where a sluice box is situated, there seems to be an indication of an old creek bed. It is believed that this is the old creek flow of Dolley Creek years ago. It is overgrown with trees and bush. There should be a trench dug, with a backhoe, to reach bedrock where the old creek flowed. Once bedrock is reached, then the ground could be tested for its placer gold potential. It is known that nuggets the size of fingernails have been retrieved from the creek.

#### CONCLUSION

Further work has to be done in determining if Wolverine Creek is a placer potential. The assay result does determine this fact. Also further prospecting should be done to look into the interesting value of silver assayed. One should investigate this hardrock potential by prospecting the creek to its source and take a look if any valuable mineralization exists.





115 I - 3P

WO#13789

05-Oct-92 date

Assay Certificate

page 1

Mark Kopinec

Sample #	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
D-1	 12	<0.1	11	3	47	30	2
SF	7	<0.1	6	3	20	23	3
VX	8	<0.1	5	2	18	21	1
B east	289	1.3	10	10	61	92	5
SU1	15	<0.1	12	4	59	35	1

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#### TOP LAKE AREA: 105D-14

This area was looked into for the potential of hardrock base metals. The samples taken are marked on the map. All the spots where the samples were taken from are marked with their sample number/letter on the orange tagging.

Most of the area around Top Lake is covered with trees, buckbrush, and other sorts of vegetation. It is mostly above the timberline and on the rocky mountain sides that the rock formations can be observed. Following the existing road, one could see the rock formations that lie below in the valley and what lies progressively towards the timberline.

#### North of Top Lake

The vicinity of where Top 5 (YB07868) claim was, one comes across a rock formation that consists of greenish to dark greenish minerals. The acid test indicates the presence of calcite, and associated with the calcite is quartz. There is some rusty (limonite) staining throughout the general area.

There seems to be a minor presence of mineralization in the form of pyrite. Samples NT-2 (Top 5) and NT-3 (Top 4) have a magnetic quality throughout the rock. A possibility is there is pyrrhotite, magnetite or a combination of both, in granule size, throughout the rock samples.

Samples NT-1 through to NT-3 were all of the greenish to dark/blackish green mineral color. The dark/blackish green mineral was more often associated in the form of phenocrysts. The phenocryst form, which can be observed at different locations on the rock mountain, gives evidence to the effect that the rock formation is of a porphyry nature.

Because of the greenish to dark greenish color of the mineralization, traces of pyrite, magnetic property, calcite and quartz, and phenocrysts of a dark/blackish nature, one can conclude a skarn formation of a hornfel-greenstone-porphyry nature.

Assay results of the samples NT-1 to NT-3 show a mixed result of interesting values. Silver readings are consistently anomalous in value throughout the three samples. Assay values range from 9.5 ppm to 13.3 ppm. Arsenic (As) values are also of an anomalous nature varying from 210 ppm to 224 ppm, but the only anomalous value for gold seems to be with sample NT-3, 212 ppb. The nickel value varied from 41 ppm to 287 ppm. The anomalous value for nickel was with sample NT-1, 287 ppm.

South of Top Lake

The general vicinity looked at is Top 14, Top 16, and beyond. Past the creek crossing (Top 11) and following the road, one encounters rock outcrops with the greenish colorization and some spots test affirmative for magnetic property. Also observed was the noticeable appearance of the "salt and pepper" rock (diorite).

Sample ST-1 was taken from a rock outcrop that was whitish with pale pink colorization and small specks of dark/blackish green mineral (like miniature phenocrysts). No calcite present, but quartz was. No magnetic quality observed. Conclude that one has a composition of quartz, feldspars (orthoclase), and greenstone.

Sample ST-2 was taken from a rock outcrop that is of a whitish to greenish colorization. The greenish color varied from pale to dark/blackish. The acid test indicates the presence of calcite, as well as quartz. There was no magnetic quality observed. One concludes that the formation is composed of a complex structure of mineralization. It can be said that calcite, quartz, feldspars group, and greenstone do exist in this rock formation.

Assay analysis on samples ST-1 and ST-2 had mixed results. The values were interesting, but lower in value than the NT samples.

Silver continues to have an anomalous value ranging from 6.8 ppm to 8.7 ppm. Arsenic values continue to be anomalous and vary from 176 ppm to 189 ppm. Golds only interesting value lies with sample ST-2, 84 ppb.

Overall conclusion is that this area is of a igneous and metamorphic composition. The two areas mentioned above have gone through some metamorphosis and the minerals have been "cooked" to a great extent.

Because of the mixed assay results that have interesting, as well as anomalous, values, the area needs further investigation. Exploration work should determine the kind of minerilization that exist, especially base metal potential.





### TOP LAKE 105D-14

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WO#13830

22-Oct-92	date	

#### Assay Certificate

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Mark Kopinec M&A Explorations		
Sample #	Au ppb	Ag

Sample #	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ррт	As ppm	Ni ppm
NT-1	<5	13.3	103	35	208	210	287
NT-2	<5	9.5	11	33	132	224	13
NT-3	212	9,9	264	42	118	220	41
ST-1	<5	8.7	32	34	125	176	44
ST-2	84	6.8	115	13	69	189	27

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#### INDEX TO PHOTOGRAPHS

Photos #1 to #3:

- show the terrain and overburden that must be overcome in order to reach bedrock on Henderson Creek. Caribou Mining working on Henderson Creek.

Photo #4:

- shows Printers Creek's valley to the "V" pass where the creek originates from.

Photo #5:

- Top Lake area, 105D-14. Shows where samples ST-1 and ST-2 were approximately taken from. Also shows where photo #6 was taken.

Photo #6:

- shows some of the terrain in the 105D-14 area. A clay-dirt bank.

Photo #7:

- shows where sample ST-1 was approximately taken from.

Photo #8:

- shows where samples NT-1 to NT-3 were approximately taken from. Top Lake near the center of the photograph.

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OCT 9-12/92 1050-14 TOP LAKE



Photo #7

# OCT 9-12/92 1050-14 TOP LAKE

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