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Panterra Minerals Inc.

MUNRO PROSPECT

Report on the 1998 Exploration Program Matheson, Ontario NTS 42A/09

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SUMMARY

The Munro Prospect is located in Munro Township, east of Matheson, Ontario. It consists of 17 unpatented contiguous mining claims covering an area of approximately 272 hectares. In December 1997, Panterra Minerals Inc. optioned the property from 297 3090 Canada Inc. Access is via HWY 101 and the maintained Hedman Mine Road.

The Matheson area is underlain by Porcupine Group sediments flanked by felsic to mafic volcanics of the Kinojevis Group to the south and ultramafic to felsic rocks of the Kidd-Munro, Duff-Coulson and Stoughton-Roquemaure assemblages to the north. Many important shear zones cross the area including the Destor-Porcupine, Contact and Pipestone faults. Gold deposits associated with this fault system were first discovered at the turn of the century, one of the most recent being Pangea's Fenn-Gib deposit in Guibord Township to the southeast. A review of the known gold-bearing zones shows a strong correlation of the gold with intrusive rocks, especially those of felsic composition. The Munro Twp. area also hosts many base metal deposits and showings. The most significant is the Potter Mine located 1.5 km northwest of the property. The Potter Mine is currently being explored by Millstream Mines Ltd. with great success, extending the deposit below the lower levels of the mine (1228 ft level). Sections of up to 75.13 ft of 2.65% Cu, 2.79% Zn, 0.760pt Ag were obtained in the deep drill holes.

The property is underlain by a complex series of pillowed and amygdaloidal basalts, gabbro, spinifex textured ultramafic volcanics and ultramafic intrusives which generally strike southeast. The west-central portion of the property is underlain by the eastern third of a large felsic intrusive plug-like body. Diabase dykes are common, especially in the western half of the property. A fragmental unit was crossed by hole 94MSL-01 drilled in 1994 near the center of the claim group. The unit is composed of basaltic pea-sized fragments within a groundmass of dark color aphanitic material. This unit is very similar to the fragmental sequence host to the Millstream Cu-Zn deposit, to the north-west.

Apart from minor geophysical surveys completed in 1954 and 1965, no significant work was completed on the Munro Property before Glenn J. Mullan staked the 17 claims in 1984. Tundra Gold Mines optioned the property from Glenn J. Mullan and completed a ground geophysical and geological program. In 1994 St-Lucie Explorations optioned the property and drilled a single 1000 foot hole in an attempt to explain an Input anomaly (94MSL-01). Although some sulphides and graphite were observed within a wide fragmental sequence, the total content of conductive material could hardly explain the strong conductor detected by geophysical surveys. Anomalous copper values (up to 0.049% Cu) were returned from the fragmental unit. A 15 hole reverse circulation drilling program was done by WMC International in 1996. Only one of these holes was



collared within the 17 claims of the Munro Prospect. A line-cutting and IP survey was done on the central portion of the property in 1997 by Glenn J. Mullan. Seven different anomalies were recognized, the strongest (IP-03) being coincident with the fragmental unit observed in the 1994 drill hole.

The 1998 exploration program consisted of a 2698 feet diamond drilling program. In light of the encouraging results obtained by Millstream Mines Ltd. on the adjacent Potter Mine Property, the drilling targets selected for the 1998 aimed at discovering a favourable VMS environment. Precise locations were defined by the detailed IP survey completed by Val d'Or SAGAX in 1997 and a review of the data by Dr. Clermont Lavoie of Geola Ltd. Assay results from the four holes drilled did not return any ore grade values. Results range up to 0.51% Cu (98MUN-01) and 0.25% Zn (98MUN-02). Other significant results includes values of up to 0.033% Co (98MUN-01) and values of 0.14% Ni and 0.013% Co from the net-textured peridotite in hole -03. Although not economic, the base metal results are the highest obtained so far on the property and indicate the presence of anomalous base metals within the key horizon (fragmentals). Because the Panterra drill program aimed at testing different potential horizons, the fragmental unit was observed in only two holes (in addition to 94MSL-01).

An exploration program consisting of a 5000 foot drilling program is proposed to follow up on the 1998 campaign. A budget of \$150 000 would be required to complete the proposed program.



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TABLE OF CONTENT

1.0 INTRODUCTION	4
2.0 PROPERTY, LOCATION AND ACCESS	4
3.0 REGIONAL GEOLOGY	6
4.0 LOCAL GEOLOGY	
5.0 PREVIOUS WORK HISTORY	10
6.0 1998 EXPLORATION PROGRAM	12
7.0 DISCUSSION	17
8.0 CONCLUSION	20
9.0 RECOMMENDATIONS	21
10.0 BUDGET	22

REFERENCES

TABLE 1: PREVIOUS WORK HISTORY	11
TABLE 2: DIAMOND DRILLING STATISTICS	13

FIGURE 1: CLAIM MAP AND GENERAL LOCATION	5
FIGURE 2: REGIONAL GEOLOGY, MUNRO TWP. AREA, ONTARIO	7
FIGURE 3: MUNRO PROPERTY GEOLOGY	9

APPENDIX 1: DIAMOND DRILL LOGS

MAP 1: MUNRO PROPERTY COMPILATION, 1"= 300' **BACK POCKET** SECTION 1 TO 4: GEOLOGICAL SECTIONS, 1"= 40' **BACK POCKET**



1.0 INTRODUCTION

The Munro Property is located in Munro Twp, near Matheson Ont. (NTS 42A/09). It includes 17 claims covering 272 acres (Figure 1). It is currently under option to Panterra Minerals Inc. of Vancouver.

Following the optioning of the property by Panterra Minerals Inc., a reconnaissance 4hole drill program was completed in order to explain some of the IP anomalies obtained by the 1996 geophysical surveys. The main focus of the program was to test VMS-type targets although gold mineralization associated with the Center Hill Fault was also considered.

Following is a brief account of the regional and local geology and a review of the historical work done on the current property. The report also provides a detailed description of the holes drilled and a discussion of the results obtained. Based on this information, a series of recommendations are proposed for further work.

2.0 PROPERTY, LOCATION AND ACCESS

The Munro Prospect is located 15 km east of the town of Matheson, Ontario and consists of 17 claims as follows:

L 1049487	1 unit	L 1049496	1 unit
L 1049488	1 unit	L 1049497	1 unit
L 1049489	1 unit	L 1049498	1 unit
L 1049490	1 unit	L 1049499	1 unit
L 1049491	1 unit	L 1049614	1 unit
L 1049492	1 unit	L 1049615	1 unit
L 1049493	1 unit	L 1111551	1 unit
L 1049494	1 unit	L 1111552	1 unit
L 1049495	1 unit		

It lies in Munro Township on NTS Map Sheet 42A/09. The claims are registered with the Office of the Mining Recorder at Kirkland Lake, Ontario under the name of 297 3090 Canada Inc. The property was optioned by Panterra Minerals Inc. in 1997. The latter provided all the funds for the 1998 exploration program which was operated through Anglaumaque Explorations Inc. of Val d'Or, Quebec.





Access to the property from Matheson is via Highway 101 which joins the town of Timmins and Matheson, continuing east to the Quebec provincial boundary. The Hedman Mine Road commences at Highway 101 and crosses a fair portion of Munro Twp. including the Munro Property. Other bush roads from Hedman Mine Road to Blueberry Lake to the east also provide direct access to the property.

3.0 REGIONAL GEOLOGY

The area is located in the western part of the Abitibi Greenstone Belt of the Canadian Shield. More precisely, it is located within the Kidd-Munro Assemblage which is composed of ultramafic, pyroxenitic, and basaltic komatiite, tholeiitic picrite, magnesium rich tholeiite, high-alumina basalt, iron-rich tholeitic andesite, and thin units of high-silica rhyolite (Figure 2). Associated with these metavolcanic sequences are layered, tholeiitic and ultramafic intrusions (e.g. Munro Lake Complex Center Hill Complex and McCool Hill Complex). South of the Kidd-Munro Assemblage are the Porcupine Group sediments followed by the mafic to felsic volcanic rocks of the Kinojevis Group. These form the north limb of a synclinorium centered on the Blake River Group to the southeast. All volcanic and sedimentary rocks in the area strike WNW and dip steeply to the south. The reader is referred to Satterly J. and Armstrong H.S. (1947), Jensen L.S. (1986), Pyke (1982), and Fyon <u>et al.</u> (1990) for a more complete description of the geological environment of the area.

Several important fault zones are present within the Munro Township area. The Destor-Porcupine Fault crosses Kinojevis volcanics south of the Munro Prospect while the Contact Fault affects the boundary between the Porcupine and Stoughton-Roquemaure groups southwest of the property. In addition, the Pipestone and Center Hill faults are located within the Stoughton-Roquemaure Volcanics. The latter crosses the southern portion of the property. All these faults strike southeasterly in Munro Township but merge with one another in Garrison and Harker Townships to the east.

The disposition of the fault zones described above suggests a dextral movement along the fault planes which is concordant with a regional North-South compression. A tensional regime oriented NNE-SSW would therefore be a result of this deformation.

The known gold deposits and showings within the area are structurally related to the fault disposition described above. Among the most important recent discoveries are the Fenn-Gib Deposit of Pangea Goldfields Inc. (1.95 million tonnes at 5.13 g/t Au) located along the Contact Fault and the Glimmer Deposit (1.3 million tonnes at 9.94 g/t Au) along the Destor-Porcupine Fault southwest of the Munro Prospect. In addition to the structural



associations, many of the showings are also related to intermediate or felsic intrusive rocks (New Kelore, Fenn-Gib).

Base metals (Potter Mine and Potterdoal Mine) and asbestos (Munro Mine) also occur in the immediate area. The Potter Mine is a unique type of VMS deposit. Although no felsic volcanic rocks are known to occur anywhere near the deposit, the presence of a northeast trending syn-volcanic fault, stringer sulphide mineralization, chert cap and apparent hydrothermal alteration, the Potter Mine mineralization is all likelyhood a syngenetic feature. All evidence so far indicates that this deposit formed by sub-seafloor cementation and replacement of a pile of fragmental volcanics by hydrothermal exhalations (26/03/98 Millstream Mines Ltd press release). Current drilling by Millstream Mines Ltd. below the Potter Mine has returned values of 75.13 ft of 2.65% Cu, 2.79% Zn, 0.76opt Ag, and 0.08% Co. Further drilling has confirmed the continuity of the deposit and increased the current reserves of 0.485 MT of 1.6% Cu, 1.6% Zn.

4.0 LOCAL GEOLOGY

All outcrop is confined to a small area near the western-most strip of claims representing about 5% of the surface area. The geology of the remainder of the property is interpreted from core, R.C. drill holes and geophysical data (figure 3).

The property is underlain by a complex series of pillowed and amygdaloidal basalts, gabbro, spinifex textured ultramafic volcanics and ultramafic intrusives which generally strike southeast. The west-central portion of the property is underlain by the eastern third of a large felsic plug-like intrusion. Diabase dykes are common, especially in the western half of the property.

A fragmental unit was crossed by hole 94MSL-01 drilled in 1994 near the center of the claim group. The unit is composed of basaltic pea-size fragments within a groundmass of dark color aphanitic material. The matrix contains some graphite along slip planes but is generally quite hard and amorphous. This unit is very similar to the hyaloclastite sequence observed at the Millstream property which hosts the Cu-Zn Deposit. Such a layer of fragmental rocks is an important guide to VMS occurrences, as it induces disruptive turbulence of hydrothermal exhalations allowing initiation of sulfide buildup (Lydon 1988). The main difference between these two fragmental units is that near the Potter Mine the matrix contains abundant sulphides (pyrrhotite mainly) while sulphides are much less abundant on the current claim group. Also of significance is a cherty layer at the top of the Millstream hyaloclastite which was not observed on the Munro Property.



Southeast trending shears and faults are known to cross the property. All of these, including the Center Hill Fault are believed to be associated with the Destor-Porcupine System which affects the general area.

5.0 PREVIOUS WORK HISTORY

The following gives a brief description of the previous work completed on the property to date. Table 1 provides a lists of the previous work in chronological order.

Apart from minor geophysical surveys completed in 1954 and 1965, no significant work was done on the Munro Property prior to the Black-River—Matheson (BRIM) operation by the Ontario Geological Survey (Questar) in the early 1980's. Data from the BRIM survey showed a small cluster of input anomalies near the center of the claim group. This led Glenn J. Mullan to acquire the 17 claims in 1984. The following year an airborne EM (VLF) was completed over the claim group. The survey confirmed the presence of this conductor in the central portion of the group.

Tundra Gold Mines (1989) optioned the property from Glenn J. Mullan and completed a ground geophysical and geological program. The VLF survey defined the location of the known airborne Input anomalies in the central portion of the claim group. Mapping was not able to explain the anomaly due to lack of outcrop in the area. A Max-Min survey was also completed in 1991 by Glenn J. Mullan, identifying a strong isolated anomaly in the center of the property. A large exposure of gabbro in the northwest part of the property was cleared and power stripped to investigate neighboring VLF anomalies at the periphery of the dioritic intrusion.

In 1994 Ste-Lucie Explorations optioned the property and drilled a single 1000 foot hole in an attempt to explain the Input anomaly (94MSL-01). Although some sulphides and graphite were observed within a wide fragmental sequence, the total content of conductive material could hardly explain the strong conductor detected by geophysical surveys. Anomalous copper values (up to 0.049% Cu) were returned from the fragmental unit.

A fifteen hole reverse circulation drilling program was done by WMC International in 1996. Only one of these holes was collared within the 17 claims of the Munro Property.

A line-cutting and IP survey was done on the central portion of the property in 1997 by Glenn J. Mullan. Seven different anomalies were recognized, the strongest (IP-03) being coincident with the fragmental unit observed in the 1994 drill hole.

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MUNRO PROSPECT TABLE 1: PREVIOUS WORK HISTORY

YEAR	COMPANY	WORK DONE
1947	Ontario Department of Mines	Geological mapping of Beatty township by Satterly & Armstrong.
1951	Ontario Department of Mines	Geological mapping of Munro township by Satterly.
1954	Con. Ranwick Uranium	Airborne geophysics.
1965	Union Carbide	Magnetic and Electromagnetic survey.
1984	Ontario Geological Survey	QUESTOR airborne Mag and INPUT survey (BRIM). A cluster of three INPUT anomalies is located on the property.
1985	G.J. Mullan	Airborne magnetic and electromagnetic survey confirming the presence of a conductor in the vicinity of the INPUT anomalies.
1989	Tundra Gold Mines	Geological mapping of property combined with a Magnetic and VLF-electromagnetic survey; no outcrop is found the area of the INPU
1991	G.J. Mullan	Max-Min survey, combined with power stripping of outcrop at the periphery of the dioritic intrusion, next to a VLF anomaly.
1994	Ste-Lucie Explorations	1 ddh (1000 feet) tests the INPUT cluster (94MSL-01), but does not find justification of the conductor. The key fragmental unit is first identified; it returns anomalous values of copper (0.049% Cu). Petrologic examination of the core is also done on the various units encountered.
1996	WMC International	15-hole reverse circulation drilling program. One of these holes is collared in the north part of the property. Bedrock is found to consist of mafic volcanic rock which returns a nickel value of 205 ppm.
1997	G.J. Mullan	Line cutting followed by a limited IP survey over the central portion of the property. This survey identifies seven IP conductors; the strongest (IP-03) is on strike with the fragmental unit intercepted by hole 94MSL-01.

The property was optioned by Panterra Minerals Inc. in December of 1997 which provided the funds for the 1998 drill program.

6.0 1998 EXPLORATION PROGRAM

The 1998 exploration program consisted of a 2698 feet diamond drilling program. In light of the encouraging results obtained by Millstream Mines Ltd. on the adjacent Potter Mine Property, the drilling targets selected for the 1998 aimed at discovering a favourable VMS environment. Precise locations were defined by the detailed IP survey completed by Val d'Or SAGAX in 1997 and a review of the data by Dr. Clermont Lavoie of Geola Ltd.

Four diamond drill holes were collared on the Munro Property from February 23rd to March 6th 1998 (Table 2). Diamond drill logs and assay results of holes 98MUN-01 to 98MUN-04 are given in Appendix 1 at the end of this report. A set of plans including geological sections of the drill holes is found in the back pocket.

98MUN-01:

The first hole was collared on line 18+00E @ 26+00N, plunging 900 feet at 50° along a N205° bearing (1200 feet east of 94MSL-01) to test IP-01 and IP-03. The latter is believed to be caused by the favourable hyaloclastite (fragmental) sequence observed in the 1994 drill hole.

The following gives a brief description of the core observed:

0.0 - 240.0 feet	CASING
240.0 - 321 feet	MAGNETIC ULTRAMAFIC FLOWS Strongly magnetic, massive with well developed spinifex texture throughout the unit. Shows little alteration and no sulphides.
321 - 331 feet	FELSIC TUFF Massive, medium grained felsic tuff. Shows fine grained rounded clasts of quartz and feldspar. Some darker fragments also show rounded shape. No obvious sedimentary textures are noted.

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HOLE No.	LONG	LAT	AZ.	DIP	FROM (ft)	TO (ft)	CUMMUL. (ft)	PLANNED EOH	START	FINISHED	COMMENTS
98MUN-01	18+00E	26+00N	205	-50	ο	900	900	900	25/02/98	27/02/98	IP-01 & -03 with associated resistivity low.
98MUN-02	12+00E	21+00N	205	-50	0	398	1298	400	05/03/98	06/03/98	IP-03, east of hole 94MSL-01
98MUN-03	21+00E	13+50N	205	-50	0	800	2098	800	03/03/98	03/03/98	Test IP-06 & -07 in SE corner of property.
98MUN-04	01+50E	26+0N	205	-50	0	600	2698	600	02/03/98	03/03/98	Test of IP-01.
						1					

331 - 457 feet NON MAGNETIC ULTRAMAFIC FLOWS Non magnetic, massive with well developed spinifex texture throughout the unit. Shows somewhat more chloritic alteration and minor disseminated pyrrhotite. 457 - 530 feet FRAGMENTAL ULTRAMAFIC FLOWS (autoclastic?) Moderately chloritized and fragmental ultramafic flows. Spinifex textures still observed but locally the flows are fragmental within a black groundmass of graphite and/or glass? Stringers of pyrite and pyrrhotite are common throughout (up to 5% total sulphides over narrow widths) 530 - 580 ALTERED ZONE Strongly altered (chlorite, serpentine, talc, +/- carbonate) spinifex textured ultramafic flows. Lighter green color with some stringers and/or veins of asbestos rich serpentine). One vein at 547.5 contains a 2 inch pyrite-chalcopyrite stringer. 580 - 900 MAGNETIC ULTRAMAFIC INTRUSIVE Moderately to strongly magnetic ultramafic intrusive. Quite uniform and only weakly altered. Lack of spinifex texture and local section appearing as gabbroic anorthosites. Laths of mafic minerals (pyroxene?) in a greenish gray matrix of plagioclase occur occasionally. Alteration is observed by the presence of chloritized fractures and associated serpentinization of the intrusive bordering the fracture. No sulphides and 1 to 3% magnetite throughout.

Weakly to moderately anomalous copper and zinc values were obtained from the fragmental unit. The highest zinc value is 0.25% across 5 feet while the highest copper value is 0.51% across 1 foot from the pyrite-chalcopyrite stringer at 547.5 feet. An assay of 0.033% Co was also obtained from that sample.

<u>98MUN-02:</u>

The second hole was collared between holes 94MSL-01 and 98MUN-01 at grid coordinates L12+00E @ 21+00N, plunging 400 feet at 50° along a N205° bearing. The target is the coincident IP-03 and fragmental unit. IP-03 shows a net decrease in resistivity at this location.

The following gives a brief description of the core observed:

0.0 - 180 feet	CASING
180 - 282 feet	FRAGMENTAL Lapilli size to bomb size fragments composed of volcanics, cherts and sulphides (20 to 60%) in a chloritized and weakly graphitic matrix. Some amygdaloidal basalt flows are observed within the sedimentary package. Chlorite alteration increases significantly down hole along with increasing sulphides. Sulphide stringers and wisps also occur within the unit. In order of increasing abundance the 5 to 10% total sulphides consists of pyrrhotite, chalcopyrite and pyrite.
282 - 396 feet	GABBRO Weakly magnetic gabbro. It is medium grained and contains local sections of pyroxenitic gabbro. Local zones of weak sericitization is observed. The top 25 feet of the unit contains 1 to 3% fine grained pyrrhotite as disseminations and stringers.

Weakly to moderately anomalous copper values were obtained from the fragmental unit (120 ppm to 880 ppm). These results are higher than those obtained in hole -01. The mineralized portion of the gabbro did not return any significant results.

<u>98MUN-03:</u>

Hole 98MUN-03 tested IP-06 and -07 near the southeast corner of the property. It was has been collared at grid coordinates L21+00E @ 13+50N, plunging at 50° for 800 feet along a N205° bearing, where the Center Hill Fault is thought to be.

The following gives a brief description of the core observed:

0.0 - 127 feet <u>CASING</u>

127 - 658.5 feet <u>GABBRO</u>

Weakly magnetic gabbro. It is medium grained and contains local sections of pyroxenitic gabbro. Local zones of weak sericitization is observed.



From 187 to 233 feet, the gabbro is strongly silicified and contains up to 20% quartz veinlets. A five foot fault zone (lost core) was crossed at 199 feet. The lower portion of the silicified zone contains up to 5% finely disseminated pyrite.

658.5 - 698 feet

PERIDOTITE

Massive fine to medium grained pyroxene and olivine (up to 90%) with a net-textured groundmass of magnetite - chromite? and minor pyrrhotite. The rounded and equigranular olivine crystals suggests crystallization and crystal settling of the olive and pyroxene in a metal oxide-sulphide rich magma. The total metallic mineral content is up to 20% of the core. Upper contact is net at 40 degrees to the core axis.

IP-06 is explained by the silicified and fault zone which hosts local fine grained pyrite. The IP-07 is easily explained by the net-textured ultramafic intrusive which contains abundant iron-oxides and sulphides.

The peridotite unit returned anomalous nickel and cobalt values of up to 0.16% Ni and 0.015% Co. Chromium values were also anomalous ranging up to 0.57% Cr.

98MUN-04:

Hole -04 aimed at IP-01, northwest of hole 94MSL-01. It has been collared at grid coordinates L1+50E @ 26+00N, plunging 600 feet at 50° along a N205° bearing.

The following gives a brief description of the core observed :

0.0 - 106 feet	CASING
106 - 434 feet	<u>PILLOWED BASALTS</u> Massive non magnetic basalts showing well defined pillowed textures. At the rims and locally within the core of the pillows, up to 1% pyrite and chalcopyrite is observed. Sulphides are in minor amounts but omnipresent throughout the unit. The basalts appear unaltered.



434 - 453 feet	ALTERED ZONE Sheared and strongly sericitized contact between the basalts above and the gabbro below. Sericitization is associated with up to 30% quartz veining, minor hematization and traces of pyrite. The upper contact of the altered zone contains more than 3% finely disseminated pyrite.
435 - 600 feet	MAGNETIC GABBRO Moderately to strongly magnetic gabbro. It is medium to coarse grained and contains local sections of anorthositic gabbro. The upper contact is gradual in that the top 50 feet of the unit is composed of 20 to 50% basalts and 50 to 80% dykes of gabbro and the percentage of gabbro increases down hole.

Hole -04 aimed at IP-01 trending north of and parallel to IP-03 which is associated with the fragmental unit. Due to the lack of fragmentals in hole -04, it is thought that IP-01 is a shoulder anomaly of IP-03 and corresponds to minor disseminated sulphides associated with the flows (basalts in this case). The lack of alteration and key fragmental unit reduces significantly the potential of IP-01 as a massive sulphide target.

The strongly altered zone at the contact of the basalt with the gabbro contains significant amounts of quartz veining and pyrite, but returned no significant assays.

7.0 DISCUSSION

None of the four holes drilled returned ore grade values. Results range up to 0.51% Cu (98MUN-01) and 0.25% Zn (98MUN-02). Other significant results includes values of up to 0.033% Co (98MUN-01) and values of 0.14% Ni and 0.013% Co from the net-textured peridotite in hole -03. Although not economic, the base metal results are the highest obtained so far on the property and indicate the presence of anomalous base metals within the key horizon (fragmentals). A comparison of assay results from the fragmental unit of holes 98MUN-01, -02 and 94MSL-01 clearly shows a trend worthy of notice. From west to east (moving away from Millstream's property, the total copper content within the fragmental decreases from 229 PPM to 73 PPM while the zinc shows an opposite trend from 197 PPM to 243 PPM. Both trends indicate that a vent environment

is more probable towards the west. The data does not show whether the source of these sulphides is the Millstream deposit or another sulfide lens.

Information currently available on the Millstream deposit depicts this ore body as consisting of a sulfide-cemented fragmental volcanic capped by a cherty layer. The ore is pyrrhotite-rich, suggesting a distal ore-body in relation to the vent. The suggested model is that the ore body formed by the trapping of hydrothermal fluids within the fragmental unit, possibly as a result of the relatively impermeable chert layer above it. This would prevent, or at least retard, the formation of a plume (and eventual dilution in sea water) by the ore-forming fluid. Instead, this hot mineral-rich fluid was channeled in the porous fragmental unit. Interaction of the fluid with the fragmental unit allowed sulfide precipitation and replacement, presumably through cooling in a reducing environment. The chaotic nature of the network of primary porosity in the fragmental induced the required diffuse turbulent flow provided by porous anhydrite chimneys in modern exhalative systems such as black smokers.

VMS deposits usually cluster along given stratigraphic horizons (the "favourable horizon" of Sangster 1972) characterized by anomalous metal values; this layer is frequently characterized by fragmental rocks ("Millrock") and chert. A typical cluster occupies a circular area 32 kilometers in diameter and contains on average 12 deposits totaling 94 million tonnes of ore (Sangster 1980). A recent press release by Millstream Mines Ltd. (26/03/98) mentions that the favorable hyaloclastic horizon is still open along strike and downdip, and that all their data so far hints at their current body being somewhat distal to the vent environment. All indications are that more sulfide lenses are in the area and some of them should be expected to be of a more proximal type.

Also of significance are the anomalous copper and cobalt values in the gabbro (compared to any average gabbro) as opposed to the peridotite. The lithogeochemical assays suggest that contrary to general belief, the gabbro is probably not the source of metals in the Millstream VMS deposit as it does not show the expected metal depletion characteristic of a source rock. Given its low copper content, the peridotite is a more likely source rock. Another potential source is the felsic intrusive body south of the fragmental horizon (stratigraphic footwall) at the mutual boundary of Millstream and Panterra.

A recent review of Millstream property data resulted in a much better understanding of the deposit-type, and many of the observations have a significant impact on the exploration strategy which should be applied to the Munro Prospect as listed below.

1- The Fragmental unit on the Millstream Property is capped by a cherty horizon with a thickness of up to 15 feet. All five holes drilled below the Potter Mine crossed this cherty horizon.



- 2- The IP anomalies associated with the horizon on Millstream's ground are very similar in shape and intensity to IP-03 on the Munro Prospect (both resistivity and chargeability.
- 3- The textures observed within Millstream's Fragmental unit are similar to those noted at the Munro Prospect (fragment composition, shape, alteration, presence of graphitic horizon, interlayered flows etc.)
- 4- The Fragmental sequence at Millstream is much thicker (300 feet plus) than what has been found on the Munro Prospect so far.
- 5- The matrix of the Fragmental unit at Millstream is composed of large amounts of sulphides (especially near the copper-zinc bearing massive sulphide zones) with lesser amounts of black amorphous material.

The above observations suggest that further efforts should concentrate on the IP-03 anomaly and its northwest extension after completion of the IP survey. For instance, the presence of strong matrix sulphides (mostly pyrrhotite) and a cherty cap would probably give a strong IP anomaly coupled with a narrow resistivity high (chert) coincident with an isolated magnetic anomaly. Such an anomaly occurs to the northwest of hole 94MSL-01. IP coverage of this magnetic anomaly is part of the upcoming survey. It should be kept in mind that the observations made so far have greatly constrained the target area and will be invaluable in selecting further drill targets once the IP survey is completed. Because the Panterra drill program aimed at testing different potential horizons, the fragmental unit was observed in only two holes (in addition to 94MSL-01).

8.0 CONCLUSION

1- Assay results from the four holes drilled did not return ore grade values. Results range up to 0.51% Cu (98MUN-01) and 0.25% Zn (98MUN-02). Other significant results includes values of up to 0.033% Co (98MUN-01) and values of 0.14% Ni and 0.013% Co from the net-textured peridotite in hole -03. Although not economic, the base metal results are the highest obtained so far on the property and indicate the presence of anomalous base metals within the favorable horizon (fragmentals).

From west to east (moving away from Millstream's property, the total copper content within the fragmental decreases while the zinc shows an opposite trend. Both trends indicate that a vent environment is more probable towards the west.

- 2 The presence of a strongly altered zone at the contact of the basalt and gabbro in hole -04 does contain significant amounts of quartz veining and pyrite. Although the structure is believed to correspond to the Center Hill Fault, no significant assays were obtained.
- 3 Based on observations of the Millstream data and the current drilling further efforts should be to concentrate on the IP-03 anomaly and northwest extension after completion of the IP survey. For instance, the presence of an abundant matrix of sulphides (mostly pyrrhotite) and a cherty cap would probably generate a strong IP response coupled with a narrow resistivity high (chert) coincident with an isolated magnetic anomaly. Such an anomaly occurs northwest of hole 94MSL-01. IP coverage of this magnetic anomaly is part of the upcoming survey.
- 4 A number of additional targets remain to be tested. The Center-Hill Fault, which parallels the Destor-Porcupine, Contact and Pipestone faults, is a significant target for gold mineralization. The intersection of a northeast trending fault connecting the Crœsus Mine with the cluster of input anomalies next to a felsic intrusion in the center of the property is yet another valid gold target. The as yet untested geophysical targets in the southwest and west also remain unexplained, and should not be overlooked.

9.0 RECOMMENDATIONS

1 - The current magnetic data dates back to 1989 and should be digitized and reprocessed. This information is essential in defining the best drill hole location for the phase II drill program.

2 - Further work is definitely recommended northwest of hole 94MSL-01. Diamond drilling should concentrate on the northwest extension of the fragmental unit, the selection of drill targets will be based on the upcoming IP survey. It is anticipated that three to four additional holes will be required along the trend.

3 - Other targets worthy of mention includes the highly altered and mineralized zone associated with the Contact Fault and IP-08 and -09. The Contact Fault did not return any significant result in hole -04 but its northwest extension is believed to cross the felsic intrusive plug in the northwest portion of the property. The upcoming IP survey will cover the area and a short hole would be warranted if a chargeable zone is uncovered. IP-08 and -09 were not drilled in the current program and remain valid targets.

10.0 BUDGET

1 - Magnetic data reprocessing: \$2 000

2- Diamond Drilling: Five 1000 foot holes,

 5000 feet at \$25 per foot
 \$125 000

SUB-TOTAL <u>\$127 000</u>

Report writing and geology \$10 000

Contingencies (10%) **<u>\$13.000</u>**

TOTAL

<u>\$150 000</u>



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23



APPENDIX 1

DIAMOND DRILL LOGS

MUNRO PROJECT LITHOGEOCHEMICAL ASSAYS

Major Oxides

																1
Hole	Sample	From (ft)	To (ft)	SiO2	TiO2	AI2O3	Fe2O3	MnO	MgO	CaO	Na2O	K20	P2O5	LOI	Total	Cr2O3
94MSL-01	12812	347.0	349.0	38.10	0.16	3.34	10.21	0.14	33.54	2.24	0.01	0.05	0.04	10.70	99.04	0.58
	12813	395.3	399.3	43.29	0.77	8.18	15.11	0.09	10.17	6.52	2.57	0.07	0.08	13.13	100.10	0.11
	12814	447.0	452.1	47.61	0.84	10.01	13.02	0.23	11.43	8.77	1.82	0.25	0.11	5.27	99.50	0.10
	12815	495.0	497.0	49.11	1.07	9.33	13.85	0.24	10.93	8.46	0.85	0.30	0.10	5.48	99.80	0.05
98MUN-01	12816	320.5	322.5	53.76	0.54	13.56	7.89	0.15	9.76	6.56	4.55	0.14	0.11	2.74	99.86	0.10
	12817	450.0	452.0	42.71	0.33	6.53	10.94	0.15	25.30	4.76	0.18	0.04	0.02	8.55	99.88	0.37
	12818	525.0	527.0	46.11	0.28	5.93	8.22	0.08	26.09	5.45	0.14	0.01	0.02	7.24	99.93	0.36
98MUN-02	12826	180.0	182.0	47.52	0.93	7.96	15.49	0.20	12.65	9.24	1.74	0.08	0.07	4.14	100.19	0.17
	12827	213.0	215.0	47.10	0.97	7.95	14.84	0.24	13.82	10.08	1.29	0.04	0.07	3.49	100.08	0.19
	12828	266.0	268.0	43.25	1.32	10.49	16.48	0.17	17.93	3.12	0.37	0.06	0.10	6.75	100.10	0.06
98MUN-03	12822	668.0	670.0	37.02	0.22	1.80	16.35	0.22	31.15	1.72	0.15	0.04	0.03	10.66	100.09	0.73
	12823	698.0	700.0	37.21	0.19	1.34	15.21	0.21	32.13	1.92	0.15	0.04	0.01	10.42	99.42	0.59
	12824	738.0	740.0	35.99	0.11	0.90	15.53	0.16	34.28	0.08	0.12	0.02	0.02	11.35	99.32	0.76
	12825	788.0	790.0	36.20	0.24	2.08	15.93	0.28	31.10	2.43	0.13	0.03	0.01	10.93	99.88	0.52
98MUN-04	12820	228.0	230.0	44.19	0.44	7.86	10.90	0.15	21.98	7.62	0.38	0.04	0.04	6.34	100.24	0.30
	12821	358.0	360.0	46.88	0.59	9.90	11.24	0.18	16.57	8.83	1.34	0.09	0.06	3.53	99.43	0.22

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Metallic Elements

Holo	Sampla	Erom (#)	To (#)	Aa	Cu	70.000	Ni nam	Co. 0000	DESCRIPTION
noie	Sample		10(11)	Ag ppm	Cu ppm	Zn ppm	Ni ppm	Co ppm	DEOCRIPTION
94MSL-01	12812	347	349	-0.1	23	38	1661	65	Massive fine grained ultramatic flow, moderately chloritized.
	12813	395.3	399.3	-0.1	492	72	402	64	Fragmental unit, moderately graphitic, <1% po.
1	12814	447	452.1	-0.1	115	305	281	42	Fragmental unit, weakly graphitic, traces of po.
	12815	495	497	-0.1	71	49	87	25	Coarse grained gabbro, traces of pyrite.
98MUN-01	12816	320.5	322.5	-0.1	51	32	106	19	Felsic tuff, weakly sericitized, traces of cpy.
	12817	450	452	-0.1	27	38	1267	70	Green basalt within the fragmental unit, traces of po.
	12818	525	527	0.2	33	56	1525	75	Typical fragmental unit, weakly graphitic.
98MUN-02	12826	180	182	0.1	118	77	369	46	Fresh looking fragmental, traces of sulphides.
1	12827	213	215	0.1	146	69	146	45	Amygdaloidal basalt.
L	12828	266	268	0.1	333	292	148	48	Strongly chloritized fragmental.
98MUN-03	12822	668	670	-0.1	4	33	1388	96	Massive dunite, 10% magnetite-chromite, traces of po.
	12823	698	700	-0.1	3	26	1611	101	As above but less po.
	12824	738	740	-0.1	7	24	1911	112	As above.
	12825	788	790	-0.1	21	48	1460	107	As above.
98MUN-04	12820	228	230	-0.1	63	24	698	42	Green pillowed basalt.
L	12821	358	360	-0.1	88	24	390	32	As above.



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-	COMPANY : PANTERRA MINERALS INC. PROJECT : MUNRO DRILL HOLE : 98HUN-01 TOWNSHIP : MUNRO CLAIM : 1049488	LOT : ZONE : NO. REF. : RANGE : NTS : 42A/09	PRINTED : March 23,1998
	COORDINATES AT COLLAR		
-	GRID #1 GRID #2 LINE : 18+00E LINE : 00+00 STATION : 26+00N STATION : 00+00 ELEVATION : 10000.000 ELEVATION : 0.000	GRID #3 E LATITUDE : N LONGITUDE : ELEVATION :	GRID #4 0.000 LATITUDE : 2600.000 0.000 LONGITUDE : 1800.000 0.000 ELEVATION : 10000.000
-	SAMPLING		DATE
_	BASIC ASSAYS : 4651 - 4681 LITHOLOGY : 12816 - 12819		DATE OF JOURNAL : Survey date : Crementing date :
	<u>PEOPLE</u>		
-	GEOLOGIST : RICHARD ROY Contractor : Forage benoit Relog :		DRILLING STARTED : February 25,1998 DRILLING FINISHED : February 27,1998
	LENGTH COLLAR : 0.00	FINAL : 900.00	
-	<u>CORE</u> STORED : ANGLAUMAQUE OFFICE	SIZE : BQ	CASING LEFT : Yes
-	PURPOSE : TO TEST IP ANOMALY IP-01 AND IP-03 TARGET : IP ANOMALIES ASSOCIATED WITH LOW RESIST REMARKS :	IVITY	
	DIRECTIONAL DATA AZIMUTH : 205° 0'	DIP : -45° 0'	
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FROM (f)	T0 (f)	DESCRIPTION
0.00	240.00	CAS, RRR
		<u>CASING</u> . Casing left in hole.
240.00	321.00	V4, Mas, sMag, sSpx
		MAGNETIC ULTRANAFIC VOLCANICS. Fine grained dark green to black, massive ultramafic volcanics. It is strongly magnetic, shows little alteration and contains no sulphides.
321.00	331.00	T1P,mg,GN,lSer
		FELSIC TUFF. Medium grained felsic tuff. Green gray color, with rounded clasts of quartz, feldspar and chloritized mafics. No obvious sedimentary textures and only minor sericite alteration.
331.00	457.00	V4, Mas, 1Mag, sSpx
		NON MAGNETIC ULTRAMAFIC VOLCANICS. Fine grained dark green to black, massive ultramafic volcanics. It is only weakly magnetic, shows minor chloritization and contains traces of sulphides.
457.00	530.00	S5,BK,sFrg,(V3B,po,py,gp)
		<u>VOLCANIC BRECCIA</u> . Dark gray to black breccia composed of sub-equal greenish gray fragments of volcanic origin in a black fine
		grained matrix. I fracture planes of the matrix shows local graphite but not in important quantities.
		Some sections are lighter gray in color and seem more basaltic. Generally massive, the fragment texture is at least partly primary in origin although some
		No indication of grading. Pyrrhotite with minor pyrite and traces of chalcopyrite occur as fragments, stringers and wisps. Maximum concentration is 5% across less than 10 feet. Alteration possible is silicification, and chloritization. Sulphides mostly seen at the top of the sequence.
530.00	580.00	ZAlt, V4, sSer, sCar, lTlc, mSpz
		ALTERED ULTRAMAFIC VOLCANICS. Light green to, non magnetic zone of highly altered ultramafic volcanics. Alteration consists of pervasive carbonatization and serpentinization and minor talc. Spinifex texture is preserved locally. Some veinlets and veins of carbonate and serpentine locally containing stringers of sulphides. Less than 1% pyrrhotite throughout although local stronger concentrations.
580.00	900.00	I4,sMag,fg-mg,lSrp,Mas
		MAGNETIC ULTRANAFIC INTRUSIVE. Fine to medium grained ultramafic intrusive. It is masive and generally homogeneous. Lack of spinifex textures although some laths are seen (probably pyroxenes) in anorthositic matrix. Alteration consists of weak serpentinization associated with thin fractures. 1 to 3% magnetite throughout and little pyrrhotite.
	900.00	END OF HOLE
PAGE: 2		GEOLOGICAL DESCRIPTION HOLE NO: 98MUN-01

- [FROM (f)	T0 (f)	DESCRIPTION	SAMPLE N.	LENG. (f)	AU PPB	CU PPM	ZN PPM	AG PPM	N I PPM	CO PPM
_	435.00	440.00	Oltramafic flow, traces of pyrrhotite.	4651	5.00	20	50	40	<1		
	440.00	445.00	As above.	4652	5.00	10	40	50	<1		
-	445.00	450.00	Altered basalt, traces of pyrrhotite.	4653	5.00	<5	70	40	<1		
	452.00	457.00	As above, traces of chalcopyrite.	4654	5.00	10	50	120	<1		
-	457.00	460.00	Fragmental unit, 2% pyrite and pyrrhotite, moderately graphitic.	4655	3.00	< 5	70	250	<1		
-	460.00	465.00	As above, 3% pyrrhotite-pyrite stringers.	4656	5.00	30	300	2500	<1		
-	465.00	470.00	As above, pyrrhotite-pyrite as nodules and or fragments?.	4657	5.00	10	110	190	<1		
	470.00	475.00	Fragn ental, weakly graphitic, 1 to 2% pyrrhotite and pyrite.	4658	5.00	<5	30	70	<1		
_	475.00	480.00	As above.	4659	5.00	30	20	40	<1		
	480.00	485.00	As above.	4660	5.00	< 5	40	50	<1		
	485.00	490.00	As above.	4661	5.00	20	70	50	<1		
-	490.00	495.00	As above.	4662	5.00	10	70	60	<1		
	495.00	500.00	As above.	4663	5.00	< 5	40	40	<1		
-	500.00	505.00	As above.	4664	5.00	10	40	50	<1		
	505.00	510.00	As above.	4665	5.00	30	100	80	<1		
-	510.00	515.00	As above.	4666	5.00	10	30	30	<1		
	515.00	520.00	As above.	4667	5.00	10	50	30	1		
_	520.00	525.00	As above.	4668	5.00	10	70	110	<1		-
	527.00	530.00	Moderately graphitic, strongly fragmental, 5% pyrite-pyrrhotite.	4669	3.00	10	90	160	<1		
-	530.00	535.00	Altered flows, traces of pyrite and pyrrhotite.	4670	5.00	10	50	60	<1		
-	535.00	540.00	As above, 5% carbonate veins.	4671	5.00	< 5	40	50	<1		
	540.00	545.00	As above.	4672	5.00	< 5	20	50	<1		
-	545.00	547.00	Altered flow, 50% carbonate-asbestos vein at 30 degrees to the core axis, traces of pyrite.	4673	2.00	< 5	20	40	<1		
-	547.00	548.00	As above, 5% pyrite chalcopyrite as stringer.	4674	1.00	< 50	5100	40	1	2120	330
_	548.00	550.00	Altered flow, traces of veinlets, traces of sulphides.	4675	2.00	< 5	160	50	1		
	PAGE: 3		A	SSAY SAMPLE	RESULTS	#1			HC	DLE NO: 98MC	IN-01

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	550.00	555.00	As above.	4676	5.00	5	70	50	<1		
	555.00	560.00	As above.	4677	5.00	<5	80	70	<1		
	560.00	565.00	As above.	4678	5.00	10	70	60	<1		
<u> </u>	565.00	570.00	As above.	4679	5.00	<5	60	50	<1		
	570.00	575.00	As above.	4680	5.00	<5	270	40	<1		
1	575.00	580.00	As above.	4681	5.00	<5	250	110	1		
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	COMPANY : PANTERRA MINERALS INC. PROJECT : MUNRO DRILL HOLE : 98MUN-02 TOWNSHIP : MUNRO CLAIM : 1049488	NO.	LOT : ZONE : REF. : RANCE : NTS : 42A/09	PR	INTED : March 2	23,1998
-	COORDINATES AT COLLAR					
	GRID #1 GRID #1 LINE : 12+00E LI STATION : 21+00N STATI ELEVATION : 10000.000 ELEVATION	#2 NE : 00+00E ON : 90+00N ON : 0.000	GRID #3 LATITUDE : LONGITUDE : BLEVATION :	0.000 0.000 0.000	GRID #4 LATITUDE : LONGITUDE : ELEVATION :	2100.000 1200.000 10000.000
	SAMPLING BASIC ASSAYS : 4710 - LITHOLOGY : 12823 -			DATE DATE OF JOU SURVEY	IRNAL : DATE : DATE :	
Ĩ	PBOPLE			CONDATING	VIID .	
	GEOLOGIST : RICHARD ROY CONTRACTOR : PORAGE BENOIT RELOG :			DRILLING STA DRILLING FINI	RTED : March 04 SHED : March 05	,1998 ,1998
٦ ٦	LENGTH COLLAR :	0.00 FINAL :	400.00			
L	<u>CORE</u> STORED : ANGLAUMAQUE OFFIC	8	SIZE : BQ	CASING	LEFT : Yes]
	PURPOSE : TO TEST IP ANOMALY IP-03 EAST TARGET : REMARKS :	OF 94MSL-01				
	<u>DIRECTIONAL DATA</u> AZIMUTH : 205° 0'	DIP : -50° 0'				, ,
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	FROM (f)	T0 (f)	DESCRIPTION
	0.00	180.00	CAS, RRR
1			CASING. Casing removed.
	180.00	282.00	S5,BK,sFrg,sChl,(V3B,po,cpy,py,gp)
			VOLCANIC BRECCIA. Dark gray to black breccia composed of sub-equal greenish gray fragments of basalts, cherts and sulphides in a black fine grained graphitic matrix. Fracture planes of the matrix shows local graphite but not in important quantities. Some sections of basalt flows are seen. They show clear amygdaloidal texture. Generally massive, the fragment texture seems more probable to be primary than tectonic. No indication of grading although internal sedimentation in the amygdule suggests tops are uphole. Pyrrhotite with minor pyrite and chalcopyrite occur as fragments, stringers and wisps. Alteration possible is silicification, and chloritization, especially approaching the bottom of the unit. Sulphides seen throughout sequence although chalcopyrite is more common near the gabbro below.
	282.00	398.00	I3B,lMag,mg,lSer,Mas(po)
			<u>GABBRO</u> . Fine to medium grained gabbro. It is masive and generally homogeneous. Alteration consists of weak sericitization associated with thin fractures. The top 25 feet contains 1 to 5% pyrrhotite and traces of chalcopyrite as disseminations and stringers.
1		400.00	END OF HOLE
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	PAGE: 2		GEOLOGICAL DESCRIPTION HOLE NO: 98MUN-02

_[FROM (f)	T0 (f)	DESCRIPTION	SAMPLE N.	LENG. (f)	AU PPB	CU PPM	ZN PPM	AG PPM	NI PPM	CO PPM
_	182.00	186.00	2% pyrrhotite-pyrite clasts in fragments.	4711	4.00	<5	150	180	<1		70
	186.00	188.00	As above.	4712	2.00	< 5	140	160	<1		60
	188.00	192.00	1% pyrite-pyrrhotite clasts.	4713	4.00	<5	140	150	<1		70
	192.00	194.00	Moderately fractured, 10% graphite, 5% pyrrhotite pyrite and chalcopyrite in wisps and stringers.	4714	2.00	10	160	690	(1		80
	194.00	198.00	Traces of sulphides in fragmentals.	4715	4.00	<5	140	100	<1		70
	198.00	203.00	As above.	4716	5.00	< 5	130	170	<1		70
	203.00	208.00	75% amygdaloidal basalt and 25% fragmental traces of sulphides.	4717	5.00	<5	130	200	<1		50
1	208.00	213.00	Amygdaloidal basalt, traces of pyrite.	4718	5.00	20	130	80	(1		50
	215.00	218.00	As above.	4719	3.00	<5	- 130	60	<1		50
	218.00	223.00	As above.	4720	5.00	<5	140	380	<1		60
	223.00	228.00	As above.	4721	5.00	<5	130	80	<1		60
ł	228.00	233.00	As above.	4722	5.00	10	130	80	<1		60
_	233.00	238.00	14 sulphide clasts in fragmentals.	4723	5.00	< 5	170	310	<1		70
1	238.00	243.00	As above.	4724	5.00	<5	160	490	<1		90
٦	243.00	245.50	3% pyrrhotite-pyrite stringers.	4725	2.50	<5	150	440	<1		60
	245.50	248.00	As above, moderately chloritized.	4726	2.50	<5	120	130	<1		50
	248.00	253.00	As above.	4727	5.00	<5	230	100	<1		60
	253.00	258.00	3% pyrite chalcopyrite stringers.	4728	5.00	<5	130	220	<1		60
ł	258.00	262.00	1% pyrite stringers.	4729	4.00	<5	430	160	1		80
Т	262.00	266.00	Strongly chloritized, traces of sulphides.	4730	4.00	< 5	170	620	<1		70
	268.00	269.00	2% chalcopyrite stringers.	4731	1.00	< 5	880	160	1		70
	269.00	272.50	Traces of chalcopyrite.	4732	3.50	< 5	510	130	1		70
	272.50	276.00	As above.	4733	3.50	< 5	170	100	<1		50
1	276.00	278.00	As above.	4734	2.00	< 5	290	110	<1		30
	278.00	282.00	2% pyrrhotite and traces of chalcopyrite in gabbro.	4735	4.00	<5	220	50	<1		30
ł	282.00	287.00	As above.	4736	5.00		140			70	20
	287.00	290.00	As above.	4737	3.00		320			60	40
1	290.00	293.00	As above.	4738	3.00		100			20	40
	PAGE: 3		AS	SAY SAMPLE	RESULTS	#1		l	HC	DLE NO: 98MD	N-02

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ASSAY SAMPLE RESULTS #1

HOLE NO: 98MUN-02

 -	FROM (f)	TO (f)	DESCRIPTION	SAMPLE N.	LENG. (f)	AU PPB	CU PPM	ZN PPM	AG PPM	NI PPM	CO PPM
	293.00	298.00	As above.	4739	5.00		110			20	50
1	298.00	303.00	As above 5% pyrrhotite.	4740	5.00		180			20	50
	303.00	306.00	As above.	4741	3.00		220			20	40
1		400.00	END OF HOLE					i			
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	PAGE: 4	1	1	ISSAY SAMPLE	RESULT	5 #1	•		H	OLE NO: 98M	UN-02

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	COMPANY : PANTERRA MINERALS INC. PROJECT : MUNRO DRILL HOLE : 98MUN-03 TOWNSHIP : MUNRO CLAIM : 1049487	LOT : ZONE : NO. REF. : RANGE : NTS : 42A/09	PRINTED : March 23,1998
	COORDINATES AT COLLAR GRID #1 GRID #2 LINE : 21+00E LINE : 00+00E STATION : 13+50N STATION : 00+00N ELEVATION : 10000.000 ELEVATION : 0.000	GRID #3 LATITUDE : LONGITUDE : ELEVATION :	GRID #4 0.000 LATITUDE : 2100.000 0.000 LONGITUDE : 300.000 0.000 ELEVATION : 10000.000
	SAMPLING BASIC ASSAYS : 4694 - 4710 LITHOLOGY : 12822		DATE DATE OF JOURNAL : SURVEY DATE : CEMENTING DATE :
ر ا	<u>FEOFLE</u> GEOLOGIST : RICHARD ROY CONTRACTOR : FORAGE BENOIT RELOG :		DRILLING STARTED : March 03,1998 DRILLING FINISHED : March 04,1998
ہ ۔۔۔	LENGTH COLLAR : 0.00	FINAL : 800.00	
ł	CORE STORED : ANGLAUMAQUE OFFICE	SIZE : BQ	CASING LEFT : Yes
ן ייייייייייייייייייייייייייייייייייי	PURPOSE : TO TEST IP ANOMALY IP-06 and -07 SOUTHEAST CU TARGET : REMARKS :	ORNER OF PROPERTY.	
	DIRECTIONAL DATA AZIMUTH : 205° 0' DI	P : -50° 0'	
			RICHARD ROY F6547 FELLOW

_	FROM (f)	T0 (f)	DESCRIPTION
j	0.00	127.00	CAS, RRR
-			<u>CASING</u> . Casing removed.
	127.00	658.50	I3A(I3H),mg,lSer,Mas,(ZSil,FLT)
			GABBRO TO GABBROIC ANORTHOSITE. Medium to coarse grained gabbro with local sections of gabbroic anorthosite and pyroxenitic gabbro. It is generally massive and weakly sericitized. Locally silicified aound the 5 feet of lost core (fault) with quartz veining and up to 5% pyrite.
1			187.00 - 233.00 ZSil,m-sSil,10Vqc,fgpy
 			<u>SILICIFIED ZONE</u> . Moderately to strongly silicified zone with up to 20% quartz veining and traces to 5% very fine grained pyrite. Hematite alteration observed on each side of the 5 feet of fault (lost core).
			199.00 - 204.00 LC
1			LOST CORB.
	658.50	800.00	I4M, 1Srp, BK, sMag, CA40, mag, po
			MASSIVE PERIDOTITE-DUNITE. Fine grained dark green to black, massive ultramafic intrusive. It is strongly magnetic. Upper contact is net at 40 degrees to the core axis. Well developed net-textured magnetite and chromite? and minor pyrrhotite in an olivine-pyroxene cumulate. Contains up to 20% metallic oxides and sulphides.
- 			The olivines are very weakly serpentinized and appear fresh. The gray colored metallic minerals (magnetite and chromite?) show two different habits. It is composed of a sugary textured core of one mineral surrounded by a rim of finer and duller looking mineral. Both seem to have a gray streak and both are relaitvely hard (5 - 6). Intermixed occurs minor pyrrhotite but sometimes the groundmass is entirely composed of pyrrhotite within a diameter of 1 inch. These complete replacement are rare (1%).
Ц		800.00	END OF HOLE
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_[PAGE: 2	; ;	GEOLOGICAL DESCRIPTION HOLE NO: 98MUN-03

	FROM (f)	T0 (f)	DESCRIPTION	SAMPLE N.	LENG. (f)	AU PPB	CU PPM	ZN PPM	AG PPM	NI PPM	CO PPM
	183.00	187.00	Weakly silicified gabbro, traces of pyrite.	4694	4.00	<5					
	187.00	191.00	Moderately silicified gabbro, traces of pyrite.	4695	4.00	<5					
	191.00	193.00	As above.	4696	2.00	<5					
•	193.00	197.00	As above.	4697	4.00	< 5					
	197.00	199.00	Strongly hematized and weakly sheared, traces of pyrite.	4698	2.00	<5					
	204.00	208.00	Moderately silicified gabbro, traces of pyrite.	4699	4.00	<5					
	208.00	213.00	As above.	4700	5.00	<5					
	213.00	218.00	As above.	4701	5.00	<5					
	218.00	223.00	As above.	4702	5.00	<5					
	223.00	228.00	As above.	4703	5.00	10					
	228.00	230.50	Strongly silicified gabbro, 5% very fine grained pyrite.	4704	2.50	10					
	230.50	233.00	Moderately silicified gabbro, traces og pyrite.	4705	2.50	<5					
	658.50	663.00	Oltramafic intrusive 10% net textured magnetite and chromite and 1% pyrrhotite.	4706	4.50		10			1360	140
	663.00	668.00	As above.	4707	5.00		<10			1500	150
	670.00	673.00	As above.	4708	3.00		10			1450	140
	673.00	678.00	As above.	4709	5.00		10	:		1530	140
	678.00	683.00	As above.	4710	5.00		10			1620	140
		800.00	END OF HOLE								
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L	PAGE: 3	<u> </u>	<u> </u>	SSAY SAMPLE	RESULT	l 5 #1	L	l	H	DLE NO: 98M	I DN-03
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	COMPANY : PANibaan MINEARLS INC. PROJECT : MUNRO DRILL HOLE : 98HUN-04 TOWNSHIP : MUNRO CLAIM : 1049487	NO.	LOT : ZONE : REF. : RANGE : NTS : 42A/09	PRINTED : March 2	3,1998
-	COORDINATES AT COLLAR				
_	GRID #1 GRID #2 LINE : 01+50E LINE STATION : 26+00N STATION ELEVATION : 10000.000 ELEVATION	: 00+00E : 00+00N : 0.000	GRID #3 LATITUDE : Longitude : Blevation :	GRID #4 0.000 LATITUDE : 0.000 LONGITUDE : 0.000 ELEVATION :	2600.000 150.000 10000.000
ſ	SAMPLING			DATE	
-	BASIC ASSAYS : 4682 - 4693 Lithology : 12820 - 12821			DATE OF JOURNAL : SURVEY DATE :	
	PEOPLE	······································		- CEMENTING DATE :	
	GEOLOGIST : RICHARD ROY Contractor : Forage benoit RELOG :			DRILLING STARTED : March 02 DRILLING FINISHED : March 03	,1998 ,1998
	LENGTH COLLAR :	0.00 FINAL :	600.00		
	CORE STORED : ANGLAUMAQUE OFFICE		SIZE : BQ	CASING LEFT : Yes	
	PURPOSE : TO TEST IP ANOMALY IP-01 TARGET : REMARKS :				
-	DIRECTIONAL DATA AZIMUTH : 205° 0'	DIP : -45° 0'			
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				ALL ASSI	CIATION OF
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				G RICH	ARD ROY F6547
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-[FROM (f)	TO (f)	DESCRIPTION	
_[0.00	106.00	CAS, RRR	
			<u>CASING</u> . Casing removed.	
_	106.00	434.00	V3B,Mas,lMag,fg,Pil	
			<u>PILLOWED BASALTS</u> . Fine grained green to black, massive basalts showing well developed pillows locally. The rims and core are locally mineralized with traces of pyrite and chalcopyrite.	
	434.00	453.00	ZAlt,V3B-I3B?,fg,sSer,sSil,30Vqc,py	
			ALTERED VOLCANICS. Sheared and strongly sericitized contact between the basalts and gabbro below. Sericitization is associated with up to 30% quartz veining, minor hematization and traces of pyrite. The upper contact of the altered zone contains 3% fine grained pyrite.	
	453.00	600. 00	I3B,mg-cg,mMag,Mas	
			MAGNETIC GABBRO.	
_			gabbro. The upper contact is gradual in that it is composed of decreasing basalts and increasing gabbro dykes down hole until basalts become rare.	
		600.00	END OF HOLE	
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_[PAGE: 2		GEOLOGICAL DESCRIPTION HOLE NO: 98MUN-04]

	FROM (f)	TO (f)	DESCRIPTION	SAMPLE N.	LENG. (f)	AU PPB	CU PPM	Z N P P M	AG PPM	NI PPM	CO PPM
	278.00	283.00	Pillowed basalt, 1 to 2% pyrite and chalcopyrite.	4682	5.00	<5	90	40	(1		
1	283.00	285.50	As above, 3% pyrite and chalcopyrite.	4683	2.50	<5	170	30	1		
	285.50	290.50	As above, 1% pyrite and chalcopyrite.	4684	5.00	<5	60	30	<1		
	304.00	308.00	1% disseminated pyrite in basalts.	4685	4.00	<5	70	50	<1		
	429.00	434.00	Chloritized basalt, traces of pyrite.	4686	5.00	<5	10	40	<1		
	434.00	437.50	Strongly sericitized basalt, 3% pyrite and 30% quartz veining.	4687	3.50	10	70	50	<1		
	437.50	439.00	Strongly sericitized basalt, traces of pyrite.	4688	1.50	5	50	60	<1		
1	439.00	443.00	As above.	4689	4.00	< 5	40	40	<1		
	443.00	445.50	As above.	4690	2.50	<5	50	50	1		
1	445.50	448.00	As above, moderately sericitized.	4691	2.50	5	40	40	1		
_	448.00	453.00	As above, weakly sericitized.	4692	5.00	5	60	40	1		
	453.00	458.00	Massive gabbro, traces of sulphides.	4693	5.00	5	40	30	<1		
1		600.00	END OF HOLE							-	
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L	PAGE: 3		Å	I SSAY SAMPLE	RESULTS	#1			H))LE NO: 98 MI	JN-04

🐨 Ontario 🖁	nistry of withern Development d Mines	Declaration of Performed on	Assessment Wo Mining Land	ork	Transaction W986 Assessment	Number (office use)
•		Mining Act, Subsection	on 65(2) and 66(3), R.S.C	. 1990		June Pressert
42A09SE2007 2.18552 MT	JNRO	900	ibsection 65(2) and 66(3) sesment work and corres thern Development and) of the Mir pond with I Mines, 3rd	ning Act. Unc the mining la Floor, 933	let section 8 of the Mining Act, nd holder. Questions about this Ramsey Lake Road, Sudbury,
Instructions: - For work per - Please type	formed on Crowi or print in ink.	n Lands before rec o	o rding a claim, use f	form 024	0.	
1. Recorded holder(s) (A	Attach a list if neo	cessary)	C	Client Numb	per 2 A	
2973090	Canada I	Ne		relephone	Number	- 20
Address 152 chemin d	ela Mu	<u>il école</u>	F	B(9 Fax Numbe	824-1	1003
Vald'Or, C	Ruebec	J9P4N		Client Num	629- ber	
Name				Telephone	Number	
Address				Fax Numb	er	
		RECEIV	ED .	aroups fo	or this dec	aration.
2. Type of work perform	ned: Check (*) a		Nésical: drilling stripp	bing,		Rehabilitation
Geotechnical: prosp assays and work unc	ecting, surveys, der section 18 (re	egs) $N' 44Gy$	enching and associa	ted assa	ys	iffice Lise
Work Type	G	EOSCIENCE ASSE	SSMENT	Commo	C	
Diamond	Drilling			Total \$ V	/alue of	
		<u>ر</u>		Work Cla	aimed defense	16, 833
Dates Work From 09	0 2 9B	To Day	Month Year			0.
Global Positioning System Data (if a	vailable) Townshi M or G-	ip/Area Mur Plan Number	010	Mining [Resider	Division The Geologis	order take
				District	<u>Min</u>	uland a and
Please remember to: - o - p - c - p - ii	btain a work perr rovide proper no omplete and atta provide a map sho nclude two copies	nit from the Ministr tice to surface right ich a Statement of (owing contiguous n s of your technical (y of Natural Resource s holders before star Costs, form 0212; hining lands that are l report.	es as req ting work linked for	iuired; ;; · assigning	work;
3. Person or compan	ies who prepar	ed the technical re	port (Attach a list if	necessa Telepho	ry) one Number	0/00/1021
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Address 152 AL.	min Hel	3 Minler	de		(8)	9 824 1003
Name VIIIO	- 0b	5. 596	HN7	, releph		
Address	The		RECEIVED	Fax Nu	umber	
Name			LARDER LAKE	Telept	none Number	
Address		Ņ	INING 010- 1998	Fax N	umber	
			JUN 2 170 4	?		
4. Certification by F	Recorded Holde	r or Agent Key , do he	ہ و رور reby certify that I hav	ve person	al knowle	dge of the facts set forth in
this Declaration of Ass completion and, to the	essment Work have best of my know	aving caused the w ledge, the annexed	ork to be performed of report is true.	or witnes	sed the sa	me during or aller its
Signature of Recorded H	older or Agent	Kan	Jel 1			June 01/98
Agent's Address	Har D.	1 10000	Jelephone Nu	Laper - C	1980	(705) 567-6873
03/97)	Kin	KlandLa	ke Ontario	P2N	IZL	
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	be and	distributed. Work	can only be assig	ned to claims that	are contiguous (adjo allevous link musii R	ining) to the mining acompeny this for m
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	A. Instruction for cut	N beck oredits th	at are not approv	d		
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			Date	e Approved		Total Value of Credit Approve

0241 (03/97)	4 	RECEIVED LARDER LAKE MINING DIVISION
	÷.	JUN 2 1998 9:50 CP.

Deemed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Rec	corder (Signature)



Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)	
W9880.00362	
PNA: MUNTO Prosp	ect

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Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 6 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and the mining land holder. Starsey Lake Road, Sudbury, Ontario, PSE 685.

Work Type	Units of Wor Depending on the type of work of hours/days worked, metres	rik Net the number of drilling, kilo-	Cost Per Unit of work	Total Cost
amond Drillin's	metres of grid line, number of			\$ 57, 108.43
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MININ'S DIVIEIO				
JUN - 2 1990	A.	Total Value of	Assessment Work	\$76,832.61
4.5		• • • •		()
Calculations of Filing Discoul	us.	ad at 100% of the	above Total Value o	f Assessment Work.
 Work filed within two years If work is filed alter two years 	is and up to five years i	after performance, to your claims, use	it can only be claim the calculation belo	ed at 50% of the folat ow:
Value of Assessment Work.	SMENT WORK	× 0.50 =	Total \$	value of worked claimed.
		•		

- Work older than 5 years is not eligible for credit. - A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a - A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs: reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Hgent (recorded holder, agent, or state company position with signing authority) to make this certification. June 01,1998 Blanker

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

August 28, 1998

2973090 CANADA INC. 152, CHEMIN DE LA MINE ECOLE VAL D'OR, QUEBEC J9P-4N7



933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9846 Fax: (705) 670-5881

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.18552

Status W9880.00362 Deemed Approval

Subject: Transaction Number(s):

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at benetest@epo.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

110

ORIGINAL SIGNED BY Blair Kite Supervisor, Geoscience Assessment Office Mining Lands Section

Correspondence ID: 12715 Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.18552						
Date Corresponden	ce Sent: August :	28, 1998	Assessor:Steve Bene	eteau		
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date		
W9880.00362	1049487	MUNRO	Deemed Approval	August 27, 1998		
Section: 16 Drilling PDRILL						
Correspondence to	:		Recorded Holder(s)	and/or Agent(s):		
Resident Geologist			Larry J. Stoliker			
Kirkland Lake, ON			KIRKLAND LAKE, O	NTARIO, CANADA		
Assessment Files Lib	orary		2973090 CANADA IN	NC.		
Sudbury, ON			VAL D'OR, QUEBEC			

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DATE OF ISSUE AUG 2 8 1998 OFFICE - SUDBURY

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY 'S NOT GUARANTEED. THOSE WISHING TO STAKE MIN-ING CLAIMS SHOULD CON-SULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOP-MENT AND MINES, FOR AD-DITIONAL INFORMATION ON THE STATUE OF THE LANDS SHOWN HEREON.

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