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1990 Eby Township OPAP Report

December 11, 1990

Results and Recommendations  
in  
The Eby Township Property, District of Timiskaming  
for  
Fernand Rivard (OPAP# OP-90-121)

SUMMARY

This report documenting the work completed on the Eby Township claim group held by Fernand Rivard has been prepared by S.J. Carmichael, B.Sc., FGAC at the request of Mr. Rivard. It covers the exploration work completed during the 1990 season and provides recommendations for additional work. This work was completed with the aid of an OPAP grant number OP-90-121, part of which was applied to a claim group located in Otto Township, District of Timiskaming. The author of this report is familiar with the Eby property, having visited a number of the claims and has logged the drill holes completed during the 1990 program. Previous work on the claims indicates that the property is underlain by a complex sequence of intermediate/felsic to mafic/ultramafic volcanics with intercalated clastic and chemical sediments. A number of documented gold and base metal showings are present on the property and a program of selected stripping, sampling and geological mapping of the showings is recommended prior to any additional diamond drilling.

WORK SUMMARY

The 1990 exploration program consisted of the drilling of two holes for a total of 1016.5 feet. The first hole, located on claim L-891900 tested a wide syenitic body intruded into ultramafic (komatiite) volcanics. The second hole, located on claim L-738546, tested a thick sedimentary package which included cherts and graphitic mudstone. All drilling was done between May and August of 1990.

DRILLING RESULTS

Drill hole E-90-1 was collared 2 feet east and 12 feet south of the #4 post on claim L-891900 with a dip of -55 degrees and an azimuth of 005 degrees. A dark red mafic syenite with feldspar porphyry phases was cored from 56.0 to 456.0 feet. A summary log follows:

0.00 - 17.00 feet	Casing
17.00 - 56.00 feet	Ultramafic Volcanics (komatiite)
56.00 - 456.00 feet	Syenite
456.00 - 504.00 feet	Ultramafic Volcanics (komatiite)

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504.00 feet

End of Hole

The intrusive was generally massive throughout with minor sections that were fractured with quartz veins. All assays were low from both the sludge and the split core. Anomalous values were cored from 62.8' to 65.0' (129 ppb Au) and from 94.0' to 97.0' (314 ppb Au). Both of these sections are associated with bleaching of the syenite, perhaps related to shearing. The first 30' of core within the komatiites gave a sludge assay of 1,100 ppm Cu.

Drill hole E-90-2 was collared 118 meters north and 213 meters west of the #2 post on claim L-738546 with a dip of -50 degrees and an azimuth of 322 degrees. Intercalated wackes, siltstones, cherts and graphitic mudstone were intersected throughout the entire hole. A summary log follows:

0.00 - 6.0 ft.	Casing
6.00 - 66.0 ft.	Intermediate Tuff or Wacke
66.0 - 112.0 ft.	Sandstone/Wacke
112.0 - 125.2 ft.	Siltstone
125.2 - 142.0 ft.	Sandstone/Wacke
142.0 - 170.5 ft.	Chert
170.5 - 287.0 ft.	Graphitic Sediment
287.0 - 339.5 ft.	Siltstone
339.5 - 351.0 ft.	Iron Formation
351.0 - 389.0 ft.	Siltstone
389.0 - 512.5 ft.	Carbonaceous Mudstone
512.5 feet	End of Hole

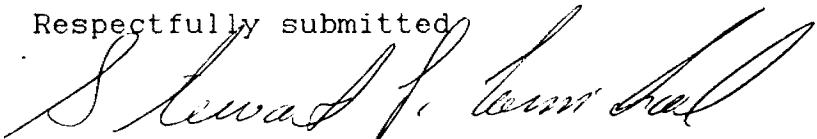
Mineralization was weak throughout this hole with pyrite mineralization confined to cherty and graphitic sections. No anomalous gold, silver, copper, lead or zinc assays were cored in either the split core or the sludges.

RECOMMENDATIONS

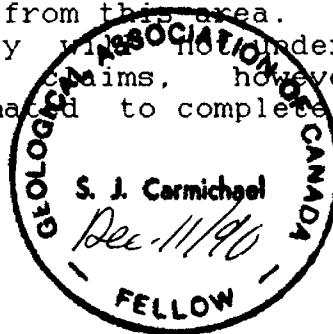
Future work on the Eby claims should include geological mapping and sampling of existing stripped areas and additional stripping on the south section of claim L-891905 where a drill hole by M. Fishkin (c. 1969) intersected chalcopyrite and pyrite mineralization. An area of equal interest is on claim L-891909 where shallow shafts and trenches were made by M. Ahola (c.1956). Gold values up to 0.2 oz/ton were reported from this area.

Mr. Rivard has indicated that he probably will undertake additional exploration work on these claims, however a provisional budget of \$2,000.00 is estimated to complete the above stripping and sampling program.

Respectfully submitted



Stewart J. Carmichael B.Sc., FGAC



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on  
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SUMMARY

This report documenting the work completed on the Otto Township claim group held by Fernand Rivard has been prepared by S.J. Carmichael, B.Sc., FGAC at the request of Mr. Rivard. It covers the exploration work completed during the 1990 season and provides recommendations for additional work. This work was completed with the aid of an OPAP grant number OP-90-121 which also covers an additional claim group located in Eby Township, District of Timiskaming. The exploration work completed on the Eby claims will be covered in a separate report. The author of this report is familiar with the Otto property and logged the drill hole which was completed on the property during September of this year. Recommendations for the 1990 program were outlined in a report by this author dated January 20, 1990 under OPAP designation OP-89-037. Mr. Rivard chose to complete only a portion on the program outlined in the January report and a future program based on this report is recommended.

WORK SUMMARY

The 1990 exploration program on the Otto property consisted of the drilling of a 431 foot drill hole located on claim number L-982694. This hole was located and drilled in attempt to verify a weakly mineralized zone intersected by Chavigny Gold Mines Ltd. in 1948. This hole (limited information is available on this Hole) cored a major fault with a corresponding gold in sludge assay of 0.02 oz/ton over 7.5 feet. Although Rivard was unable to locate the collar from the Chavigny hole, the 1990 Rivard hole was collared very close to the supposed location of the Chavigny hole. Due to the proximity of the Blanche River, the Rivard hole was drilled at -75 degrees which limited the stratigraphic coverage obtained.

DRILLING RESULTS

The Rivard drill hole (OT-90-1) was collared 53 meters south and 45 meters west of the #4 post on claim L-982694 with an azimuth of 330 degrees and a -75 degree dip. It intersected a sequence of mafic volcanics, probably of Mg-rich tholeiitic chemistry including massive flows with minor flow top breccia. A narrow (3.0 feet) unit of massive nodular pyrite was intersected which may be of sedimentary origin. A summary of the log follows:

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0.0 - 3.0 feet	Casing
3.0 - 219.0 feet	Massive Basalt
219.0 - 221.5 feet	Flow Top Breccia
221.5 - 291.0 feet	Intercalated Massive Basalt and Flow Top Breccia
291.0 - 294.0 feet	Massive Pyrite
294.0 - 431.0 feet	Intercalated Massive Basalt and Flow Top Breccia
431.0 feet	End of Hole

A minor fault or shear was cored at 156.0 feet. The entire hole showed signs of minor to moderate deformation as indicated by quartz +/- calcite stringers and veins with sections of weak to moderate carbonatization. Mineralization was sporadic and confined to zones of carbonatization. With the exception of the massive pyrite section, mineralization consisted of disseminated pyrite up to 5% over widths less than 5 feet. No other sulfide mineralization was noted.

Assaying (split core) from the hole returned negligible gold assays; the best being 114 ppb (0.003 oz/ton) over 4.5 feet from 112.0-116.5 feet. This section of basalt was moderately carbonatized with 1.0 feet of 5% disseminated pyrite. The sludge assays also returned insignificant gold assays as well as limited Ag, Cu, Pb and Zn assays from the sludge.

### RECOMMENDATIONS

The drill hole completed by Mr. Rivard did not intersect any significant assays and further drilling of this section of the property is not warranted. The property has yet to be fully explored and the 0.107 oz/ton sludge assay over 13.0 feet from Rivard's 1989 drill hole OT-89-1 (claim L-982690) remains enigmatic. Poor core recovery from this section did not allow a reasonable core sample and future work should be centred over this area of the property. Chavigny Gold Mines completed two drill holes in the vicinity of the 1989 Rivard hole with reported assays of up to 0.04 oz/ton over 0.5 feet. It is therefore recommended that a control grid be cut (north-south) over claims L-982690 and L-982692 and the two claims be covered by geological mapping ground magnetometer and EM survey (VLF). It is possible that the mineralized zone intersected in the 1989 drill hole may have a geophysical signature. Mr. Rivard has negotiated the use of a larger diameter drill rig which would aid in core recovery. Additional drilling is recommended along strike of the 1989 drill hole. The location of the future drilling may best be ascertained by the geophysical and geological surveys. Because Mr. Rivard utilizes his own drill rig, it is difficult to assign a cost to the drilling. The ground surveys are estimated to cost \$3,154.00 with an additional \$4,000.00 allocated for diamond drilling.

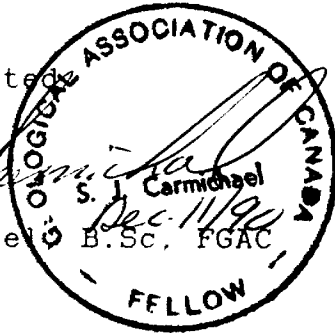
Program Cost Estimate

Line Cutting, 4.0 km at \$250.00/km.....	\$1,000.00
Magnetometer Survey, 3.6 km at \$125.00/km.....	450.00
VLF Survey, 3.6 km at \$140.00/km.....	504.00
Geological Mapping, 6 days at \$200.00/day.....	1,200.00
Diamond Drilling (approximate cost for one hole).....	4,000.00
Total	<hr/> \$7,154.00

Respectfully Submitted



Stewart J. Carmichael



B.Sc., FGAC