



42A02NW0030 2.7404 FALLON

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A
GEOLOGICAL SURVEY
 FOR ASSESSMENT WORK CREDIT
 ON THE
 MEUNIER CLAIMS
 IN
 FALLON TOWNSHIP, ONTARIO
 PORCUPINE MINING DIVISION

*RECEIVED
 JUL 14 1984
 MINING DIVISION*

By

R.P. Bowen, P.E.

1984



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MAPS

Back Pocket

Meunier Claims (North)
 Meunier Claims (South)

QUALIFICATIONS OF THE WRITER

EDUCATION:

B.S. Geological Engineering, Michigan Technological University, 1970.
B.S. Engineering Administration, Michigan Technological University, 1971.
Diploma Geological Science, McGill University, 1972.
M.Sc. (Applied) Minerals Exploration, McGill University, 1973.

EXPERIENCE:

Summers 1969 - 1973: Ontario Geological Survey.
January 1974 - December 1975: Exploration Engineer, Tenneco Mining Inc., Lathrop Wells, Nevada.
March 1976 - August 1978: Geological Engineer, Rosario Resources Corp., Toronto, Ontario and Tucson, Arizona.
August 1978 - April 1980: Law School and private consulting including teaching at Wayne State University, Detroit, Michigan.
April 1980 - April 1981: Geologist, Ontario Geological Survey, Toronto, Ontario
May 1981 to Sept. 1983: Project Geologist, Newmont Exploration of Canada Ltd., Timmins, Ontario.
Sept. 1983 to present: Senior Exploration Geologist and Manager of the Timmins Field Office, Newmont Exploration of Canada Ltd., Timmins, Ontario.

PROFESSIONAL AFFILIATIONS

Society of Mining Engineers of the American Institute of Mining, Metallurgical and Petroleum Engineers.
Canadian Institute of Mining and Metallurgy.
Prospectors and Developers Association.
American Society of Photogrammetry.
Society of Economic Geologists.
Association of Professional Engineers of the Province of Ontario.



R.P. Bowen, P.Eng.

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ABSTRACT

This report covers the results of a geological survey on 184 mining claims held by Mr. David J. Meunier in Fallon Township, Porcupine Mining Division, Ontario.

Mafic to felsic metavolcanic flows and pyroclastics of Archean Age have been intruded by felsic and mafic plutonic rocks along zones of structural weakness. Metamorphism is greenschist to lower amphibolite facies. Cobalt Group sedimentary rocks unconformably overlie these Archean rocks in the southwestern portion of the claim group.

Mineralization to date has been sparse, but several conductors have been picked up by VLF EM methods and may be mineralized flow tops or other interflow units and these should be further investigated.

INTRODUCTION

HISTORY

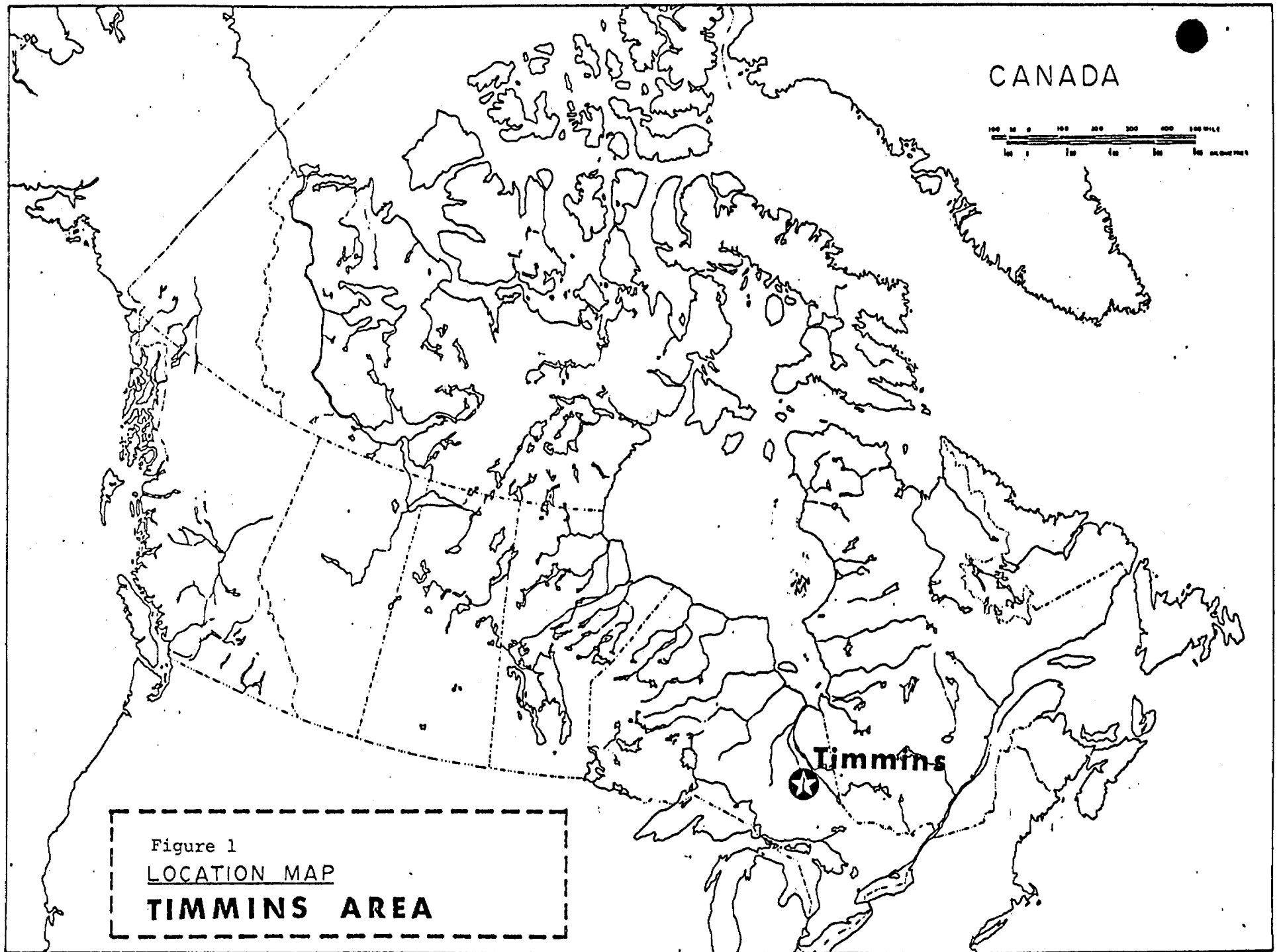
The purpose of this report is to describe the work done on the Meunier Claims in Fullon Township, Ontario. This report is one in a series of geology and geophysical reports on some 196 claims staked by Mr. David Meunier of South Porcupine. This report is to be filed for assessment work credit.

Mr. Meunier has been active in this area for several years exploring both for base and precious metals and has staked numerous blocks of claims, many of which have been optioned to major mining companies for detailed exploration programs.

This area lies south of, and makes up the southern boundary of the Shaw Dome. Stratigraphy of the Timmins camp was proposed by Ferguson et al (1968) and extended to the surrounding area by Pyke (1982). It is these stratigraphic relationships that the author adheres to in this report.

Since 1909 mines in Timmins have produced in the neighborhood of 60,000,000 ounces of gold. Numerous gold and basemetal mines have been discovered and extensive prospecting has occurred during the

intervening years. The fact that at least four (4) new mines in the area are scheduled to go into production in 1984 or 1985 certainly makes the area a good prospecting bet.



LOCATION AND ACCESS

The claims covered in this report are in Fallon Township, Porcupine Mining Division, District of Timiskaming, Ontario. Fallon Township is in NTS area 42A/2 which is roughly 80° 55' west longitude and 48° 15' north latitude. This is UTM grid zone 17, 499600 east by 5344800 north. Figure 1 shows the general location of Timmins while Figure 2 shows the relative location of Fallon Township.

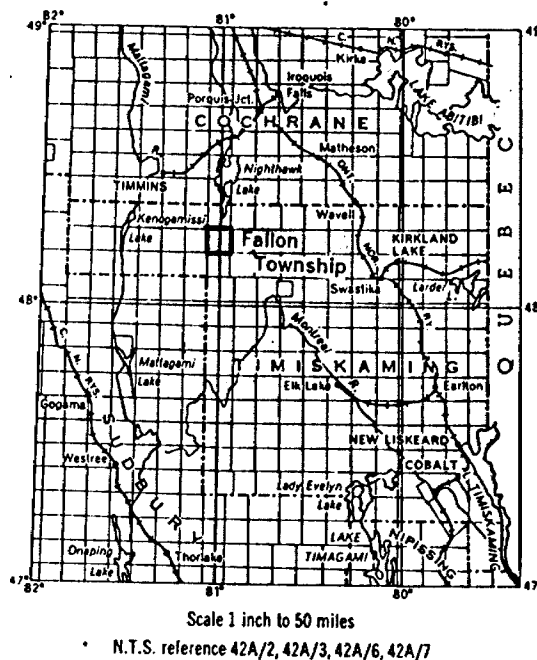


Figure 2 - General location of Fallon Township

Access to the property may be gained by taking the Lansmuir Road south from South Porcupine through Whitney, Shaw and Eldorado Townships into Lansmuir Township. Just east the road into the Carshaw Mine a logging road branches south into Fallon Township. This road provides access to the Night Hawk Timber Company (Strinser interests) logging camp with subsidiary roads to the southern group of claims.

The claims covered in this report can most easily be reached by a new road being driven east by the Strinser interests from the main south trending logging road mentioned above. This road will cross the Night Hawk River eventually.

The Night Hawk River may be navigated during certain times of the year and this method of travel gives access to the eastern claims from Carman Bay of Night Hawk Lake.

RECORDED HOLDER

David Meunier, Prospector's License M-17157, of 403
Dome St., South Porcupine, Ontario is the recorded holder
of these claims.

SUBMITTING PARTY

R.P. Bowen, P.E., of P.O. Box 5010 PMS, South
Porcupine is the submitting party of this report for Mr.
Meunier.

CLAIMS SURVEYED AND DATES OF SURVEY

The immediately following pages list the claims covered by this survey. Claims P. 663009 through P. 663018 inclusive and claims P. 663295 and P. 683355 are excluded as they were covered under an earlier survey. Figure 3 shows the relative location of the Meunier claim block in Fallon Township.

Linecuttings took place during the spring and summer of 1983 and late summer 1984 on the four newly staked claims P. 803940 through P. 803943.

The geological survey was conducted during the summer of 1983 and summer of 1984. Report writing was ongoing during the various phases of the geological mapping.

MEUNIER CLAIMS IN FALLON TOWNSHIP

No.	Claim No.	Anniversary Date
1.	P. 653259	12 September 1982
2.	P. 653260	12 September 1982
3.	P. 653261	12 September 1982
4.	P. 653262	12 September 1982
5.	P. 641742	27 September 1982
6.	P. 641743	27 September 1982
7.	P. 653909	27 September 1982
8.	P. 653909	27 September 1982
9.	P. 641730	20 September 1982
10.	P. 641731	20 September 1982
11.	P. 641732	20 September 1982
12.	P. 641733	20 September 1982
13.	P. 641734	20 September 1982
14.	P. 654193	28 September 1982
15.	P. 654191	28 September 1982
16.	P. 654192	28 September 1982
17.	P. 654193	28 September 1982
18.	P. 654194	28 September 1982
19.	P. 654195	28 September 1982
20.	P. 654196	28 September 1982
21.	P. 654197	28 September 1982
22.	P. 654198	28 September 1982
23.	P. 660009	25 October 1982
24.	P. 660010	25 October 1982
25.	P. 660011	25 October 1982
26.	P. 660012	25 October 1982
27.	P. 660013	25 October 1982
28.	P. 660014	25 October 1982
29.	P. 660015	25 October 1982
30.	P. 660016	25 October 1982
31.	P. 660017	25 October 1982
32.	P. 660018	25 October 1982
33.	P. 660019	25 October 1982
34.	P. 660020	25 October 1982
35.	P. 663907	12 November 1982
36.	P. 663908	12 November 1982
37.	P. 663909	12 November 1982
38.	P. 663910	12 November 1982
39.	P. 663911	12 November 1982
40.	P. 663912	12 November 1982
41.	P. 663913	12 November 1982
42.	P. 663914	12 November 1982
43.	P. 663915	12 November 1982
44.	P. 663916	12 November 1982
45.	P. 683356	26 November 1982
46.	P. 683357	26 November 1982
47.	P. 683358	26 November 1982
48.	P. 683359	26 November 1982
49.	P. 683360	26 November 1982
50.	P. 683361	26 November 1982
51.	P. 683362	26 November 1982
52.	P. 758257	13 May 1983
53.	P. 758258	13 May 1983

54.	P.	758259	13	Mar	1983
55.	P.	758260	13	Mar	1983
56.	P.	758261	13	Mar	1983
57.	P.	758262	13	Mar	1983
58.	P.	758263	13	Mar	1983
59.	P.	758264	13	Mar	1983
60.	P.	758265	13	Mar	1983
61.	P.	758266	13	Mar	1983
62.	P.	758267	13	Mar	1983
63.	P.	758268	13	Mar	1983
64.	P.	758269	13	Mar	1983
65.	P.	758270	13	Mar	1983
66.	P.	758271	13	Mar	1983
67.	P.	758272	13	Mar	1983
68.	P.	758273	13	Mar	1983
69.	P.	758274	13	Mar	1983
70.	P.	758275	13	Mar	1983
71.	P.	758276	13	Mar	1983
72.	P.	758402	17	Mar	1983
73.	P.	758403	17	Mar	1983
74.	P.	758404	17	Mar	1983
75.	P.	758405	17	Mar	1983
76.	P.	758406	17	Mar	1983
77.	P.	758407	17	Mar	1983
78.	P.	758408	17	Mar	1983
79.	P.	758409	17	Mar	1983
80.	P.	758410	17	Mar	1983
81.	P.	758411	17	Mar	1983
82.	P.	758412	17	Mar	1983
83.	P.	758413	17	Mar	1983
84.	P.	758414	17	Mar	1983
85.	P.	758415	17	Mar	1983
86.	P.	758416	17	Mar	1983
87.	P.	758417	17	Mar	1983
88.	P.	758418	17	Mar	1983
89.	P.	758419	17	Mar	1983
90.	P.	758420	17	Mar	1983
91.	P.	758421	17	Mar	1983
92.	P.	758422	17	Mar	1983
93.	P.	758423	17	Mar	1983
94.	P.	758424	17	Mar	1983
95.	P.	758425	17	Mar	1983
96.	P.	758426	17	Mar	1983
97.	P.	758427	17	Mar	1983
98.	P.	758428	17	Mar	1983
99.	P.	758429	17	Mar	1983
100.	P.	758430	17	Mar	1983
101.	P.	758431	17	Mar	1983
102.	P.	758432	17	Mar	1983
103.	P.	758433	17	Mar	1983
104.	P.	758434	17	Mar	1983
105.	P.	758435	17	Mar	1983
106.	P.	758436	17	Mar	1983
107.	P.	758437	17	Mar	1983
108.	P.	758438	17	Mar	1983
109.	P.	758439	17	Mar	1983
110.	P.	758440	17	Mar	1983
111.	P.	749821	14	September	1983
112.	P.	749822	14	September	1983
113.	P.	749823	14	September	1983

114.	P.	749824	14	September	1983
115.	P.	749825	14	September	1983
116.	P.	749826	14	September	1983
117.	P.	749827	14	September	1983
118.	P.	749828	14	September	1983
119.	P.	749829	14	September	1983
120.	P.	749830	14	September	1983
121.	P.	750016	14	September	1983
122.	P.	750017	14	September	1983
123.	P.	750018	14	September	1983
124.	P.	750019	14	September	1983
125.	P.	750020	14	September	1983
126.	P.	752187	14	September	1983
127.	P.	752188	14	September	1983
128.	P.	663467	26	November	1982
129.	P.	663468	26	November	1982
130.	P.	663469	26	November	1982
131.	P.	663470	26	November	1982
132.	P.	663471	26	November	1982
133.	P.	663472	26	November	1982
134.	P.	663473	26	November	1982
135.	P.	663474	26	November	1982

136.	P.	725197	28	June	1983
137.	P.	725198	28	June	1983
138.	P.	725199	28	June	1983
139.	P.	725200	28	June	1983
140.	P.	725202	28	June	1983
141.	P.	725203	28	June	1983
142.	P.	725204	28	June	1983
143.	P.	725205	28	June	1983
144.	P.	725206	28	June	1983
145.	P.	725207	28	June	1983
146.	P.	725208	28	June	1983
147.	P.	725209	28	June	1983
148.	P.	725210	28	June	1983
149.	P.	725211	28	June	1983
150.	P.	725212	28	June	1983
151.	P.	725213	28	June	1983
152.	P.	725214	28	June	1983
153.	P.	725215	28	June	1983
154.	P.	725216	28	June	1983
155.	P.	725217	28	June	1983
156.	P.	725218	28	June	1983
157.	P.	725219	28	June	1983
158.	P.	725220	28	June	1983
159.	P.	725221	28	June	1983
160.	P.	725232	28	June	1983
161.	P.	725233	28	June	1983
162.	P.	725234	28	June	1983
163.	P.	725235	28	June	1983
164.	P.	725236	28	June	1983
165.	P.	725237	28	June	1983
166.	P.	725238	28	June	1983
167.	P.	725239	28	June	1983
168.	P.	725240	28	June	1983
169.	P.	725241	28	June	1983
170.	P.	725242	28	June	1983
171.	P.	725243	28	June	1983
172.	P.	725244	28	June	1983
173.	P.	725245	28	June	1983
174.	P.	725246	28	June	1983
175.	P.	725247	28	June	1983
176.	P.	725248	28	June	1983
177.	P.	725249	28	June	1983
178.	P.	725250	28	June	1983
179.	P.	725251	28	June	1983
180.	P.	725252	28	June	1983
181.	P.	725253	28	June	1983
182.	P.	725254	28	June	1983
183.	P.	725255	28	June	1983
184.	P.	725256	28	June	1983
185.	P.	714952	17	May	1983
186.	P.	714956	28	June	1983
187.	P.	714957	28	June	1983
188.	P.	764414	17	May	1983
189.	P.	764415	17	May	1983
190.	P.	764416	17	May	1983
191.	P.	764417	17	May	1983
192.	P.	758817	17	May	1983
193.	P.	758818	17	May	1983
194.	P.	758819	17	May	1983
195.	P.	758820	17	May	1983
196.	P.	758821	17	May	1983

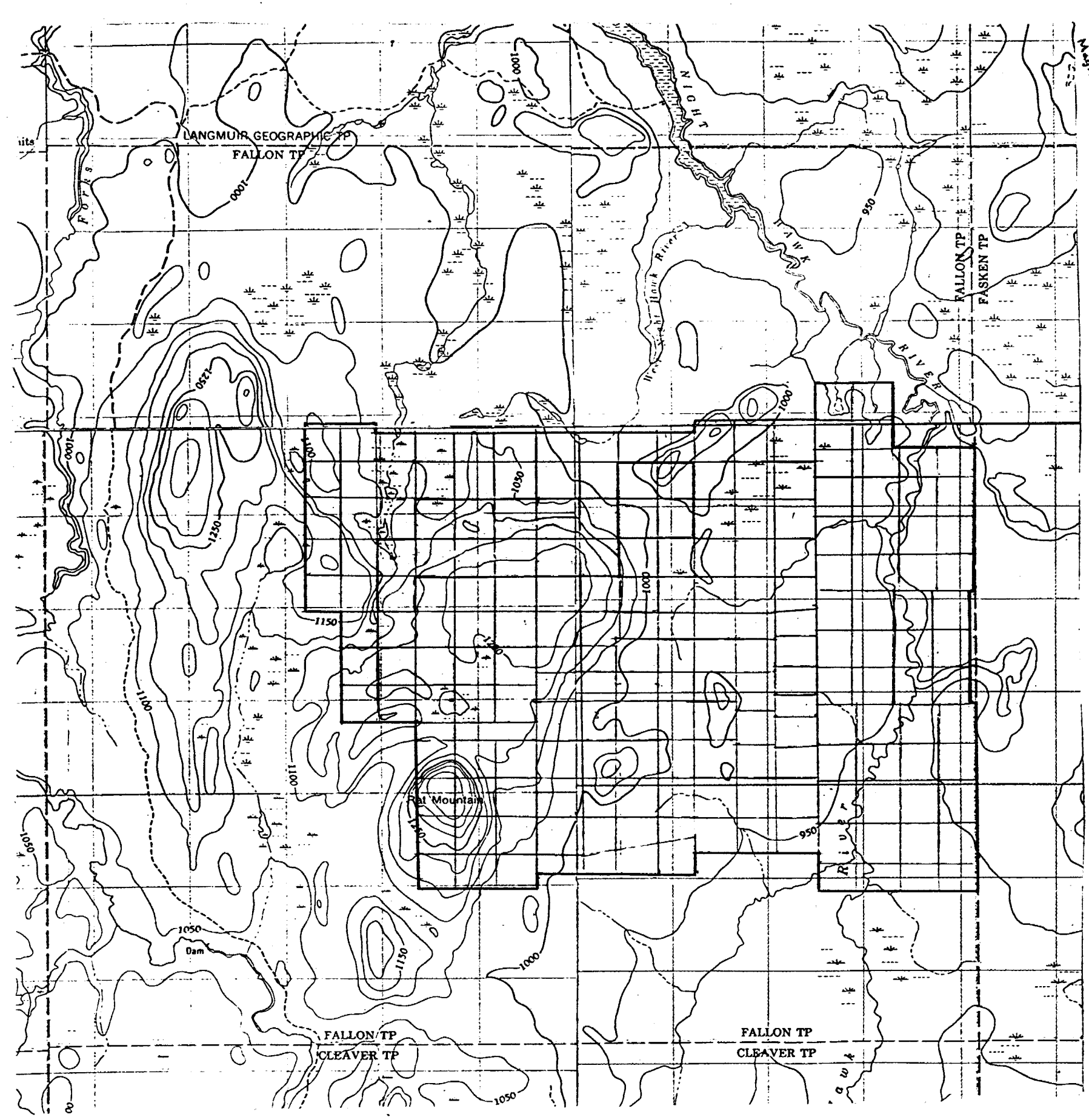
ADDITIONAL MEUNIER CLAIMS IN FALLON TOWNSHIP

No.	Claim No.	Anniversary Date
197.	P. 803940	24 May 1984
198.	P. 803941	24 May 1984
199.	P. 803942	24 May 1984
200.	P. 803943	24 May 1984

PHYSIOGRAPHY

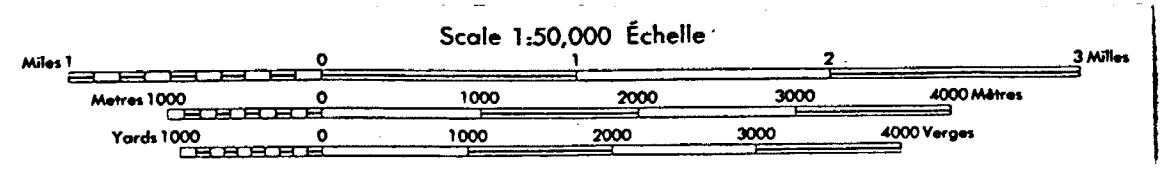
Rat Mountain rises 1400 feet above sea level. This gives a maximum relief of 450 feet in the claim area. Generally speaking the relief does not exceed 10 to 70 feet throughout the area. Figure 3 is a topographic map of Fallon Township and the Meunier claim block.

Pleistocene and Recent alluvium mantle most of the area. Drainage is to the north with creeks and streams flowing north into the Night Hawk River which finds its way through Night Hawk and Frederick House Lakes into the Abitibi River and on to James Bay.



- Meunier Claims covered in this report
- Total extent of Meunier Claim Block

Figure 3 - Topographic map of Fallon Township



NATURAL RESOURCES

At the present time timber operations are the only natural resource exploitation in this area. Most of the timber is spruce with some poplar also being harvested. Birch is cut for firewood by local residents. The swampy areas have alder and cedar trees growing on them, but, the alders are of no commercial value and the cedar is not being cut due to low demand for posts and loss.

WILDLIFE

Bear and moose are the only big game, but, they are relatively plentiful judging by the number of hunters encountered and the sign observed while on traverse. Smaller game noted was beaver, otter, spruce grouse, rabbits and smaller fur-bearing animals such as muskrat, mink and weasel along the river. Numerous songbirds, blue heron and birds of prey were noted.

ACKNOWLEDGEMENTS

Helpful discussions were had between the author and Mr. Meunier on the lay of the land, possible showings and interesting geology.

Linecuttings was done by Gabriel Sutherland, Jim Townes, Paul Spence, O. Scott, Varley Shecavio-Blacksmith and Reg Neposh.

The author mapped most of the claims covered in this report and was assisted on several traverses by Mr. Meunier. Darwin Piroshco mapped most of the claims in the southeast portion of the claim block.

The base map was prepared by tracing a 1/4 inch to 1 mile Data Series map with a 0000 pen and sending that tracing to Parason Industrial Photographic Reproductions Ltd., 1160 Ellsmer Road, Scarborough, Ontario to be blown up to 1:5000 scale. The grid was located on 1/4 to 1 mile vertical airphotographs and transcribed to the enlarged map.

PREVIOUS WORK

Burwash (1896) appears to have accompanied Niven's Ontario Land Survey when the western boundary of Fallon Township was surveyed. Goodwin (1911) mapped this line and his map makes reference to some sedimentary rocks and possibly some metavolcanics. Hopkins (1924) produced a map of a traverse across Fallon Township. Numerous other government authors have produced reports of surrounding townships.

The first government worker to detail map and report on Fallon Township specifically was Pyke (1972).

Numerous prospecting trenches are found throughout the area. Pyke (1972) describes some work on showings prior to 1968. The salena occurrence between mile posts 2 and 3 on the boundary of Fallon and Lansmuir Townships contains roughly 2% disseminated pyrite and 0.5% salena. Assays of 0.11 oz/ton Au and 3.21 oz/ton Ag were reported by Pyke (1972).

Previous assessment work in the area has been performed by a number of companies over the years since 1968 and is briefly described below.

INTERNATIONAL KENVILLE GOLD MINES LIMITED

International Kenville Gold Mines Limited conducted ground magnetometer and electromagnetic surveys over a 32 claim group in the northeastern part of Fallon Township in 1965. A follow-up diamond drill program of 5 holes to test one magnetic and one electromagnetic anomaly came up with minor pyrite and chalcocite with no notable assays.

MAGOMA MINES LIMITED

A 12 claim block in Lansmuir (1 claim) and in the northwestern corner of Fallon Township was surveyed in 1965 using ground magnetometer and electromagnetic methods. This work did not produce any targets deemed worthy of testing.

MERCIER EXPLORATIONS INC.

This company staked 8 claims straddling the Fallon-Lansmuir Township boundary near the 2 mile post and conducted VLF electromagnetic and magnetic surveys over the property in 1983. No evidence of a follow-up program has been noted to date.

MEUNIER CLAIMS - TECK OPTION

During 1980 and 1981 Teck Explorations Ltd. on behalf of Cominco Ltd., Hudson Bay Explorations and Development Ltd. and Lenx (Canada) Explorations Ltd. optioned claims from Mr. David Meunier covering the metasedimentary sequence south and west of the present claim block and a series of claims stretching to the south into Cleaver and Hinks Townships all over the metasedimentary sequence of Middle Precambrian Age. Mr. Meunier's option consisted of 250 claims and the operating party staked an additional 94 claims.

The purpose of this exploration program was to explore for paleoplacer gold.

The exploration program for 1980 consisted of:

1. Linecuttings (30 km) east-west lines.
2. A refraction seismic orientation survey along the Fallon-Cleaver Township line.
3. A magnetometer survey along the east-west lines (29.55 km).
4. Geologic mapping at 1:10,000 scale with sampling and scintillometer reconnaissance.
5. Three diamond drill holes totalling 6440 meters, all in Fallon Township.

The exploration program for 1981 consisted of:

1. Five diamond drill holes totalling 1,001 meters: Drill holes 4 and 4A were drilled in Cleaver Township, 7 in Hinks and 5 and 6 were drilled in Fallon Township. All holes were 80 size drilled vertically and assays of the

Huronian section was by either neutron activation or DC plasma emission methods.

The results of this program failed to establish fluvial process deposition of the sedimentary rock sequence, hence paleoplacer sand deposits are not to be expected in this area or in this rock sequence.

NORANDA EXPLORATION COMPANY LIMITED

Noranda controls four claims tied on the east end of the claims covered in this report. These claims cover the margin of the Fallon Stock, a porphyritic monzonite intruding mafic metavolcanic flows.

A grid was cut over the claims and a fluxgate magnetometer survey and a HLEM Max Min survey at 444 and 1777 Hz was conducted over the grid in 1982.

NORANDA EXPLORATION COMPANY LIMITED

Noranda held a group of 16 claims in Fallon Township contiguous with 10 claims in Cleaver Township with the easternmost claim at the 5 mile post on the boundary between the two townships.

Thirty four and one half miles of grid line was cut and a ground magnetometer and HLEM Max Min survey at frequencies of 444 and 1777 Hz was conducted over the grid in 1981.

NORANDA EXPLORATION COMPANY LIMITED

During 1981 Noranda cut 16.2 miles of grid over 19 contiguous claims in the northeastern portion of Fallon Township. A ground magnetometer and HLEM Max Min survey at frequencies of 444 and 1777 Hz was conducted over the grid.

MEUNIER CLAIMS

A group of twelve (12) claims staked by Mr. Meunier in 1982 were the subject of an earlier geological report. This report was filed for assessment work credit in order to hold those claims which form part of the claim group which is the subject of this report.

The rocks were essentially a series of Archean mafic meta-volcanic flows (Fe tholeiites and calc-alkalic) intruded by a porphyritic monzonite stock and dikes. These older rocks were cut by diabase dikes. This whole series of igneous rocks was overlain by Middle Precambrian (Huronian Supergroup) sedimentary mudstones, sandstones and conglomerates. No significant mineralization was encountered on these claims.

GENERAL GEOLOGY

All underlying rock units that are covered by the Meunier claim block are of Archean age except the Cobalt metasedimentary units and a Middle Precambrian diabase dike.

The Archean rocks are a series of mafic to intermediate metavolcanic flows, either massive or pillowed, rarely pyroclastic. A series of intermediate to felsic metavolcanic rocks are sandwiched between the mafic flows. These may be altered and some are layered appearing to be waterlain tuffs. The flows dip steeply to the north with tops appearing in that direction as well. The metavolcanic flows are intruded by the porphyritic monzonite Fallon Stock. Several smaller bodies of similar mineralogy and appearance were noted while mapping. The larger stock appears to influence strike as well as producing a pronounced concentric foliation. Early Precambrian diabase dikes cut all the metavolcanic and intrusive rock units.

The Cobalt Group metasedimentary rocks unconformably overlie the Archean rocks.

A Middle Precambrian northeastern trending diabase dike apparently cuts all rock units. Mapping by Pyke (1973) found this age dike outside the present map area cutting the Cobalt Group rocks.

Figure 4 illustrates the general geology of Fallon and Fasken Townships.

Regional metamorphism is greenschist facies. The contact metamorphic aureole surrounding the Fallon Stock is

not as well pronounced as Pyke (1973) indicates, however, the effect is noted well away from the intrusive.

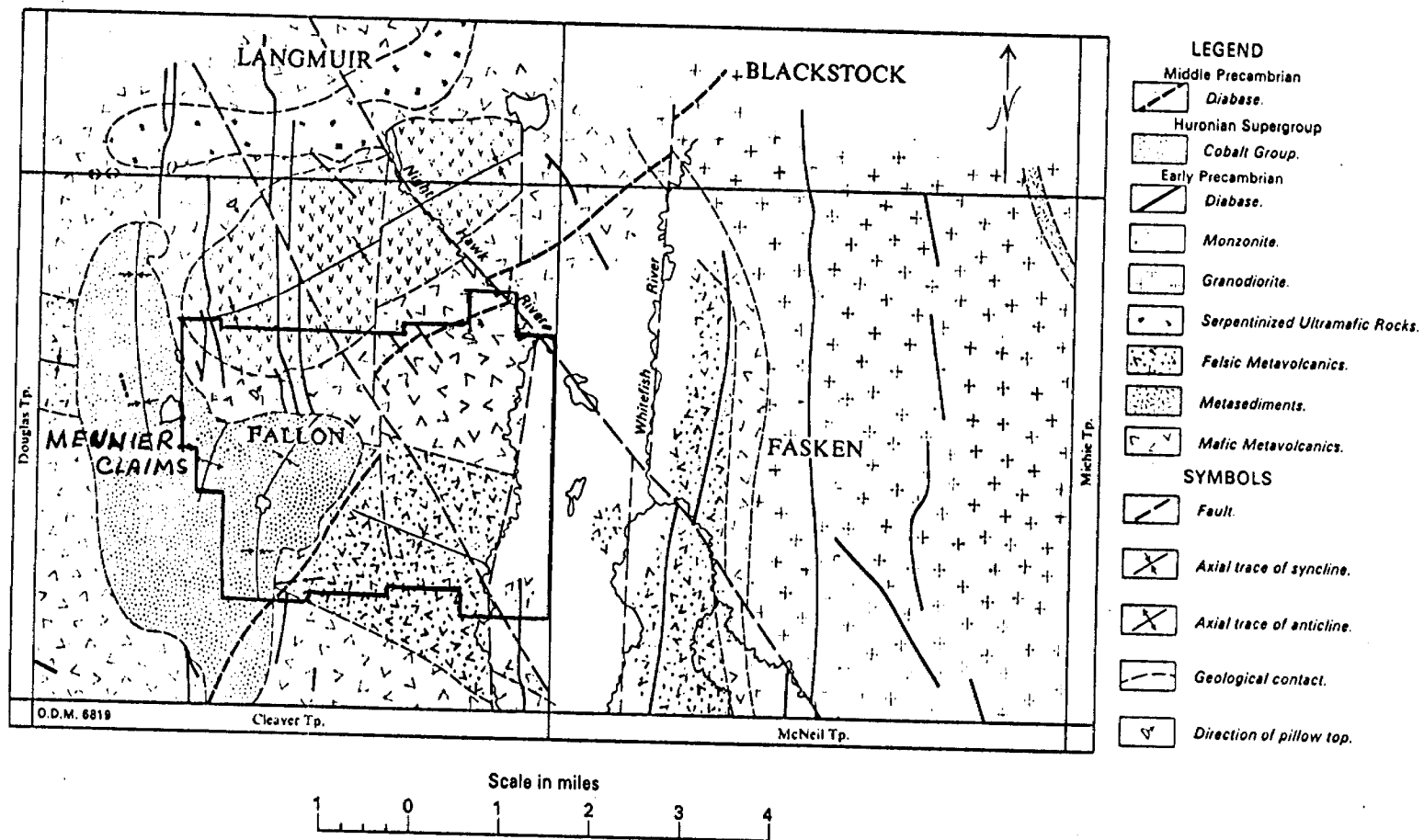


Figure 4-Sketch map illustrating the general geology of Fallon and Fasken Townships. After Pyke (1973)

EARLY PRECAMBRIAN (ARCHEAN)
KOMATIITIC METAVOLCANIC ROCKS

While no komatiitic rocks were found in outcrop on this property there were numerous komatiitic boulders in several locations. It is quite likely these rocks were carried south by the glacier from where they outcrop along the north rim of the Fallon Stock, see the map by Pyke (1982). The boulders are generally dark blueish black on the fresh surface and turn moderate brown on weathering indicating carbonization. They are heavy and often magnetic depending on the degree of alteration. Some boulders are greenish indicating fuchsite and contain up to 7-10% disseminated pyrite as < 1mm cubes.

The boulders tend to be concentrated around the base of the height of land caused by the Cobalt Group sedimentary rocks that overlie the Archean series of metavolcanics. The Cobalt Group were apparently more resistive and were not worn down by glacial action. Magnetic trends do not indicate the presence of komatiitic rocks under drift covered areas on this property.

TABLE 1

Table of Lithologic Units

CENOZOIC

QUATERNARY

Recent

Swamp and stream deposits

Pleistocene

Till, clay, sand and gravel

Unconformity

PRECAMBRIAN

MIDDLE PRECAMBRIAN

HURONIAN SUPERGROUP

Cobalt Group

Gowanda Formation

Mudstone, sandstone and conglomerate

Unconformity

EARLY PRECAMBRIAN (ARCHEAN)

MAFIC INTRUSIVE ROCKS

Dabase

Intrusive Contact

FELSIC INTRUSIVE ROCKS

Porphyritic monzonite

Intrusive Contact

METAVOLCANIC AND METASEDIMENTARY ROCKS

CHEMICAL AND CLASTIC METASEDIMENTARY ROCKS

None found

FELSIC METAVOLCANIC ROCKS

Sodic rhyolite, dacite, tuffaceous and massive

INTERMEDIATE METAVOLCANIC ROCKS

Dacite, andesite and calc-alkaline basalt

MAFIC METAVOLCANIC ROCKS

Massive and pillowed iron tholeiitic lava and
pyroclastic rocks

KOMATIITIC METAVOLCANIC ROCKS

None found

MAFIC METAVOLCANIC ROCKS

Only a few boulders of pillowed magnesium tholeiitic basalt have been noted.

Iron tholeiitic basalts appear to be the dominate rock type underlying the claim group. These rocks are aphanitic, dark greenish black with 1 to 3% pyrite and magnetite and they weather greenish gray. They may be massive or pillowed. Some portions are porphyritic with phenocrysts of plagioclase to 1 mm. This could be caused by thicker flows taking longer to cool after extrusion. The pillowed units commonly have pillows 30 to 50 cm in elongate section and 10 to 20 cm in vertical section. Gas vesicles are not uncommon with amygdules rare. Selvages are rusty brown and 1 to 2 cm wide.

Pyroclastic and tuffaceous units are rare. The pyroclastics are lapilli to breccia in size and are likely flow top breccias rather explosion breccias or hyaloclastites.

Where the metavolcanics are proximal to the Fallon Stock, epidote and K-feldspar alteration is common. This alteration may lead to confusion between tholeiitic and calc-alkalic basalts unless careful observations and/or chemical analyses are made. Some of the alteration gives a layered appearance with orangish gray zones interbedded with the darker green zones. This feature establishes the zone of contact metamorphism.

Relationships between the massive, pillowed and pyroclastic units could not be determined.

INTERMEDIATE METAVOLCANIC ROCKS

Intermediate metavolcanic rocks are dacite to andesite in composition and are light grey, massive, finely crystalline with sparse plagioclase phenocrysts 1 to 2 mm in size.

Some pyroclastic breccias were noted on the the south-central claims. They weather grey and contain 5 to 50% extremely stretched and chloritized fragments and locally contain plagioclase phenocrysts up to 20%. Stretching may occur up to a ratio of 20 to 1 and the long direction is parallel to the foliation, usually about 120° .

Some carbonate alteration is present locally as is K-feldspar alteration.

FELSIC METAVOLCANIC ROCKS

Felsic units are not well exposed. Most are narrow and could be interpreted as dikes. They are siliceous and very hard. They are not as grey as the intermediate rocks and are more buff in color. They are usually tuffaceous to pyroclastic and are not noted as massive flows.

Foliation is quite pronounced perhaps because of their brittle nature.

Pyke (1973) describes some units have a high soda to pot-ash ratio in conjunction to a high silica content as being a soda rhyolite. No whole rock analyses were made in this survey to prove or disprove this contention. The rock unit located where Pyke (1973) described it (northeast Fallon near the diabase dike) is orange in color and weathers a light orange. It is very hard indicating a high silica content. Also near the large dike just mentioned interlayering of mafic and felsic units is well developed. The contacts do not appear to be mineralized. The VLF EM conductors near the location concerned are short and do not appear to be related to contacts between differing rock types.

METASEDIMENTARY ROCKS

No thick sequence of clastic or chemical metasedimentary rocks of Archean Age were encountered on the claim group. Some interflow sedimentary units or well layered waterlain tuffs were noted in the southwestern portion of the property. These were classified as volcanoclastic because of small plagioclase phenocrysts and chloritic bands.

Some conductors were noted during a VLF EM survey and they could be caused by graphitic interflow units not exposed in outcrop or buried mineralized flow tops. Stripping these areas or drilling them could explain the anomalies and determine the true nature of these units.

FELSIC INTRUSIVE ROCKS

The main felsic intrusive rocks on the Meunier claims are porphyritic monzonite related to the Fallon Stock. There are some syenitic phases, however, these are minor. Aside from the main stock there are several small plugs and numerous dikes of similar composition. Some granodioritic dikes were also noted and the author is unsure how or if they are related to the monzonitic portions.

The porphyry is a medium to coarse grained rock composed of light pink to greenish white plagioclase phenocrysts 3 to 5 mm in length which make up 10 to 20% of the rock. Potassic feldspar is usually <1 mm and comprises 20% of the rock. Fine grained plagioclase accounts for another 20% and mafic minerals, hornblende, opaques and accessories comprise the final 15 to 20% of the rock. This observation is based on thin section studies by the author and corroborates Pyke's (1973) findings. The color is light pinkish orange weathering to grayish orange.

Dikes are from 1 to 5 meters wide and show sharp contacts with the volcanic rocks and may have thin chill margins up to 5 cm wide.

MAFIC INTRUSIVE ROCKS

The only mafic intrusive rocks are the early north and Middle Precambrian northeast trending diabase dikes transecting the claim group. They are medium to coarse grained, dark greyish black and weather to moderate brown. Only the Middle Precambrian northeast trending dikes are known to cut the Cobalt Group. This type of diabase on fresh surface is dark grey along chilled margins and light grey often with a pinkish cast in coarser grained portions. The rock weathers to dark orangish brown.

The older north and northwest trending diabase dikes are dark greyish black on fresh surfaces weathering to dark grey to orangish brown. Some are porphyritic with saussurtized plagioclase crystals between 0.5 to 4 cm in length. The larger phenocrysts may comprise 15 to 20% of the rock in observed showings. Pyke (1973) reports up to 40% with a total plagioclase content of 51.7% calcic andesine.

MIDDLE PRECAMBRIAN
HURONIAN SUPERGROUP
COBALT GROUP
GOWGANDA FORMATION

This formation is a series of relatively flat-lying mudstones, sandstones and conglomerates unconformably overlying the Archean metavolcanic and intrusive rocks.

The mudstones are argillaceous, fissile, dark grey and weather buff. The sandstones are arkose and greywacke and are grey weathering orange to greyish red. Some graded bedding is noted. Conglomerate (boulder and pebble) appear to be interformational and granitic clasts up to 40% are noted along with mafic 20% and felsic 10% metavolcanics and older sedimentary rocks 10%. The matrix is greywacke and comprises about 20% of the rock. The conglomerate is generally clast supported.

CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT

Generally speaking a good deal of the northern part of the claim block is covered by muskeg swamp. Muskeg is 1 to 1.5 meters thick covering varved clay to bedrock. Some glacial till may cover the bedrock. The higher ground is covered by sand and gravel deposits with minor varved clay. Any till will be just above bedrock. Thickness of overburden ranges from 5 to 50 meters. Overburden tends to slope gently to the south from some of the more prominent topographical features (crag-and-tail).

METAMORPHISM

Metamorphic grade is greenschist facies with some rocks being metamorphosed to lower amphibolite facies. Carbonate and epidote alteration is common with potassic alteration less common. Quartz veining is common although associated sulfide mineralization is usually lacking. Pyke (1982) defined a contact metamorphic aureole around the Fallon Stock. There is evidence of alteration in that more epidote, carbonate and potassic alteration is noted nearer the stock, however, the line of influence is largely subjective.

STRUCTURAL GEOLOGY

FOLDS

Pillow tops are indistinct, but, at least one was reliable enough to indicate tops face north. Studying the regional geology indicates that the Fallon Stock intruded along the trough of a syncline.

FAULTS

While there are indications of minor displacement of the metavolcanics and the Fallon Stock from shearing and on the regional map, little field evidence for faulting is available apart from shearing and quartz veining. Topographical features seem to be the best indicator of displacement. Diabase dikes could have intruded along faults or other zones of weakness.

The larger streams and rivers likely flow along faults.

STRATIGRAPHY

Pyke (1978) and (1982) established the stratigraphic relationships for the Timmins Area. These same criteria may be applied to this area.

The metavolcanic rocks underlying the claim group appear to be of the Middle to Upper Metavolcanic Formations of the Tisdale Group. These are characterized by iron tholeiites overlain by calc-alkaline pyroclastic rocks.

Komatiitic rocks are rare, but, they are known to occur in these units. Figure 5 shows the regional stratigraphic relationships.

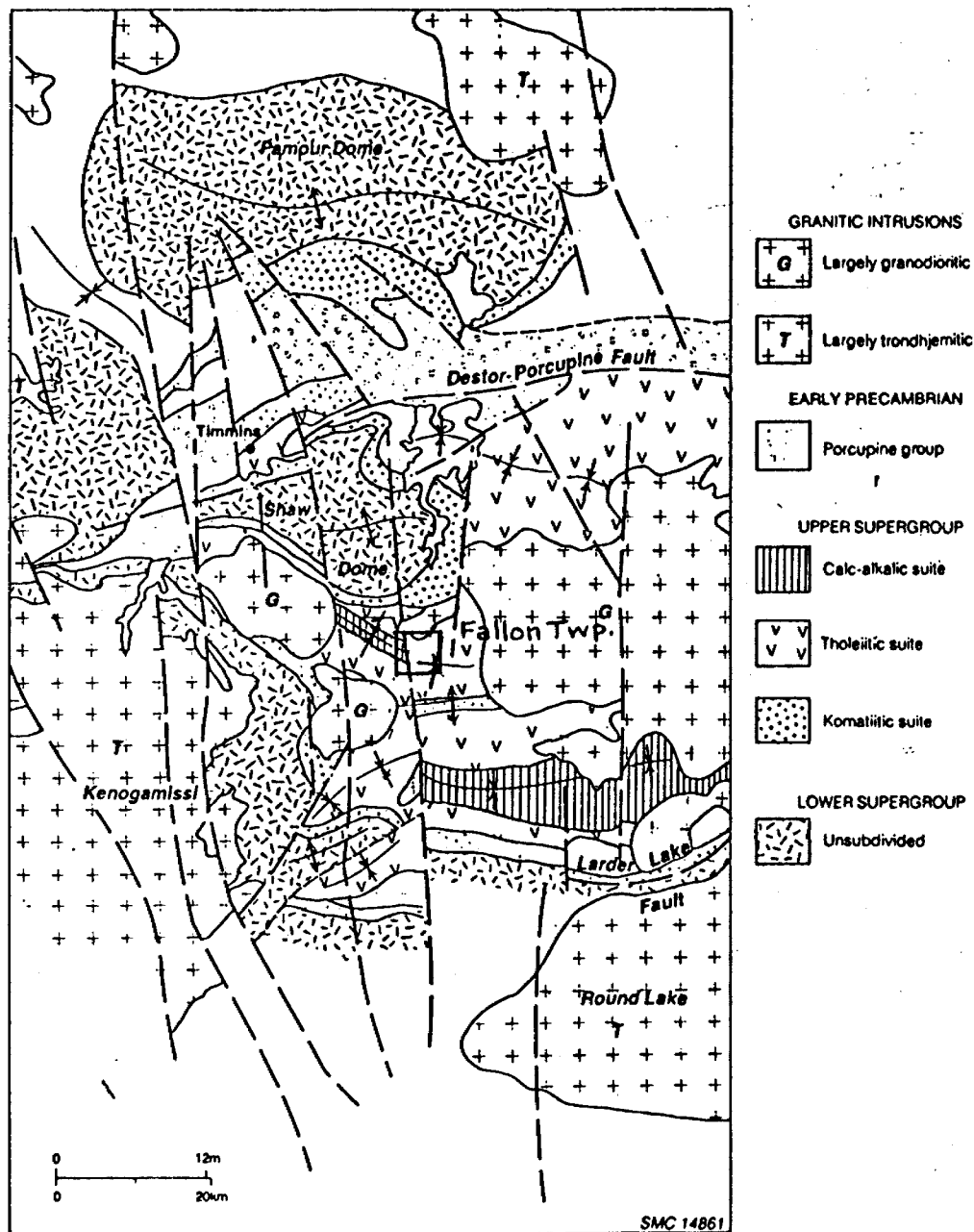


Figure 5 - Regional stratigraphy of the Timmins-Matachewan area. Pyke (1982)

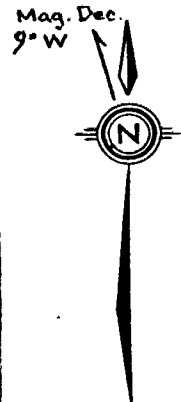
GEOPHYSICS

Figure 6 is a map of the regional aeromagnetics. The Fallon Stock appears as magnetic high indicating concentrations of magnetic minerals. The metavolcanic sequence has a lower magnetic response and the low magnetic response of the Cobalt Group further masks any magnetic response the metavolcanic units may create. Even the north trending diabase dikes are difficult to follow.

Figure 7 is a Bouguer Gravity map of the region and shows Fallon Township on the edge of a gravity low caused by the Shaw Dome to the north and a gravity high caused by komatiitic and iron tholeiitic rocks to the south.

Further detailed ground magnetic and electromagnetic surveys have been conducted over the property to further sort out stratigraphic units. These surveys were of some help, most notably in tracing the limit of the Fallon Stock (magnetics) and where mineralized flow tops (VLF EM) were possibly present. These surveys were filed for assessment.

A preliminary airborne magnetic, electromagnetic and resistivity Digem II survey was conducted over the property and help sort out gross units and structures. This survey was filed for assessment work credit.




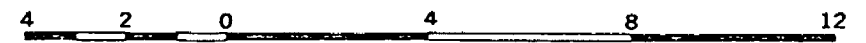
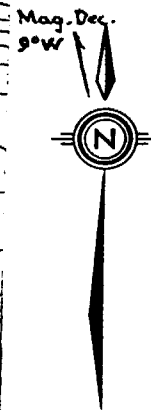

 Meunier Claims

Figure 6
MAP 7085 G

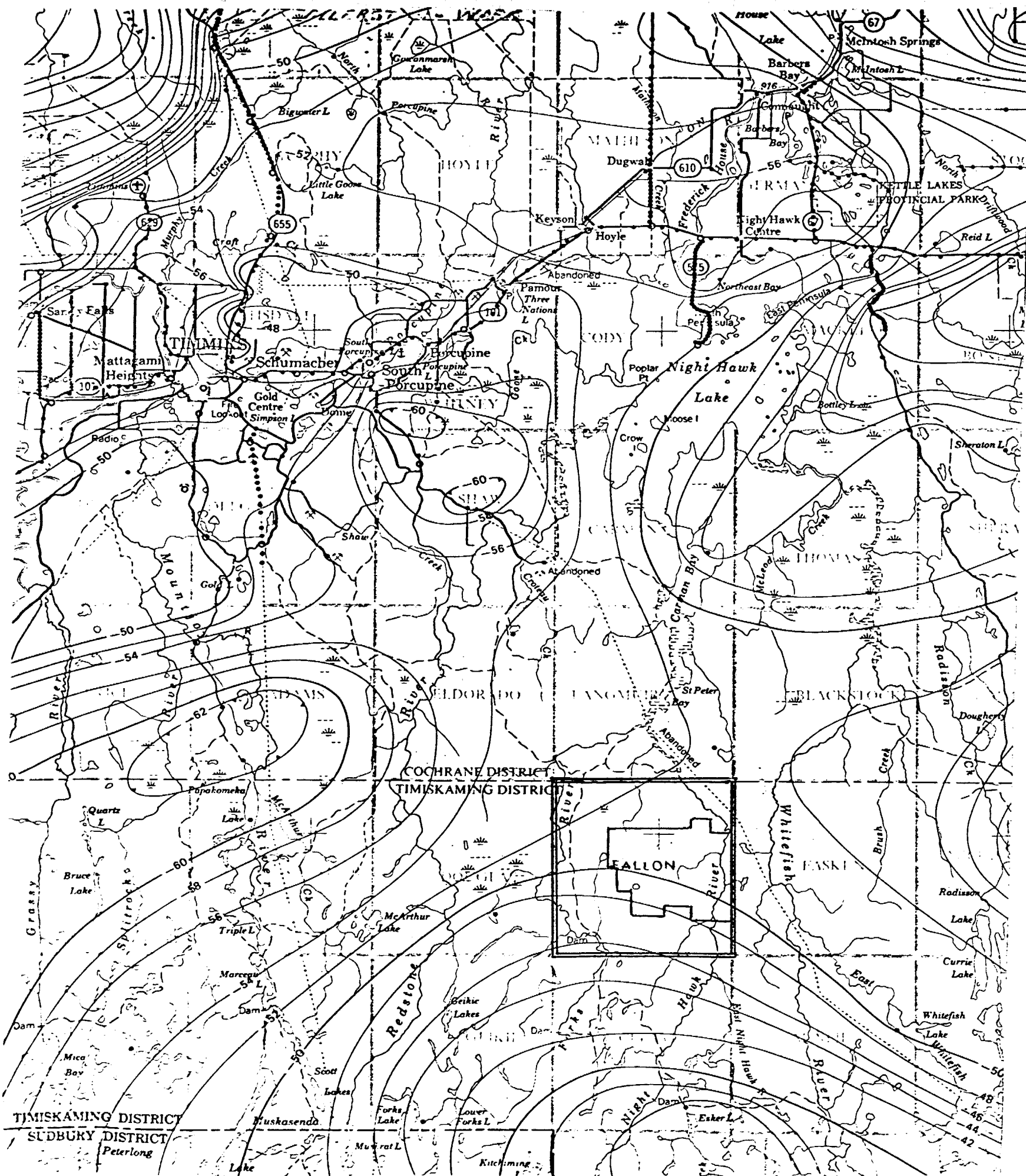
TIMMINS
COCHRANE TIMISKAMING & SUDBURY DISTRICTS
ONTARIO

Scale: One Inch to Four Miles = $\frac{1}{253,440}$
Miles

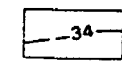




Meunier Claims



SYMBOLS



Contours of equal Bouguer anomalies at intervals of 2 milligals.



Gravity station.



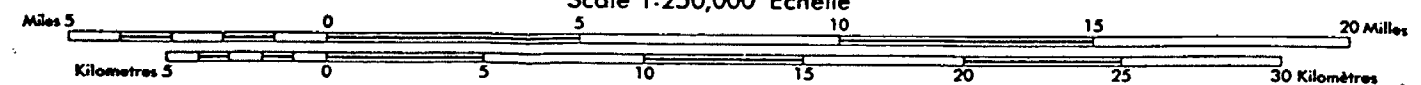
Control station.

For other conventional signs refer to 1:250,00 National Topographic System.

Figure 7

Map 2321
Bouguer Gravity
TIMMINS-MATHESON

Scale 1:250,000 Échelle



ECONOMIC GEOLOGY

This area is part of an area that has received scant attention in the past for either gold or base metals.

Sulfides have not been discovered in abundance to date, however, the masking effect of the overburden does present a problem. The presence of the Fallon Stock could be a source of mineralizing solutions, hence, looking for structural and/or stratigraphic traps for mineralization would be a logical approach.

This survey has not found any fine grained sedimentary or exhalative units that may have acted as traps for mineralizing solutions.

Most quartz veins have been small and have not returned significant assays. Thick clay sequences would prevent effective use of geochemical techniques as an exploration tool. Overburden drilling might be considered as a support tool to stripping.

CONCLUSIONS AND RECOMMENDATIONS

Some induced polarization lines where depth of overburden is not too great over conductors would help pin down some targets if disseminated sulfides are present in quantity. Further IP work around the contact of the Fallon Stock and east as west of the large diabase dike in the northeast sector of the claim block could provide some interesting targets. Further overburden stripping both south and north of Base Line No. 1 around the porphyry plugs and shear zones would be a relatively inexpensive way of gaining further information prior to diamond drilling. The conductor east of the Cobalt Group sedimentary sequence could be drilled if stripping is not feasible. Sampling of the old pits and showings have not returned any significant assays to date.

Overburden drilling might be used where drift cover is deep as a method of tracing possible gold mineralization providing good basalt till sheets are present.

Lithogeochemistry would aid in sorting out stratigraphic units and alteration zones. Bedrock samples obtained from overburden drilling could be analysed providing assistance in the interpretation of drift covered areas.

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


























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















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SYMBOLS

-  Esker.
-  Outwash fan.
-  Sand or gravel feature. Label the specific feature. Use to delineate eskers at large scales.
-  Raised or ancient shoreline. Shown in colour mostly on Pleistocene series.
-  Small bedrock outcrop.
-  Area of bedrock outcrop.
-  Bedding, horizontal.
-  Bedding, top unknown; (Inclined, vertical).
-  Bedding, top indicated by arrow; (Inclined, vertical, overturned).
-  Bedding, top (arrow) from grain gradation; (Inclined, vertical, overturned).
-  Bedding, top (arrow) from cross bedding; (Inclined, vertical, overturned).
-  Bedding, top (arrow) from relationship of cleavage and bedding; (inclined overturned).
-  Lava flow; top (arrow) from pillows shape and packing.
-  Schistosity; (horizontal, inclined, vertical).
-  Foliation; (horizontal, inclined, vertical).
-  Gneissosity, (horizontal, inclined, vertical).
-  Banding; (horizontal, inclined, vertical).
-  Jointing; (horizontal, inclined, vertical).
-  Lineation with plunge.
-  Geological boundary, observed.
-  Geological boundary, position interpreted.
-  Geological boundary, deduced from geophysics.
-  Lineament or fault.
-  Fault; (observed, assumed). Spot indicates down throw side, arrows indicate horizontal movement.
-  Name major shear zones. If absolutely no room, abbreviate shear to s.z. and explain in symbol list, but try to avoid.
-  Drag folds with plunge.
-  Anticline, syncline, with plunge.
-  Glacial striae.

-  Drill hole; (vertical, inclined).
-  Drill hole; (projected vertically, projected up dip). Overburden shown.
-  Drill hole; (projected vertically, projected up dip). Overburden shown.
-  Shaft; depth in feet.
-  Test pit.
-  Trench
Trenches Exploration trenching.
-  Adit
-  Quarry.
-  Gravel pit.
-  Open cut, quarry etc. Label precisely.
-  Mine dump. Label.
-  Hummocky topography.
-  Swamp.
-  Motor road.
-  Other road.
-  Trail, portage, winter road.

LEGEND

CENOZOIC

QUATERNARY

Pleistocene, Recent

Clay, sand, gravel, till

Unconformity

PRECAMBRIAN

MIDDLE PRECAMBRIAN

Mafic Intrusive Rocks

7

7a Diabase

Intrusive Contact

Huronian Supergroup

Cobalt Group

Gowganda Formation

6

6a Mudstone, argillite

6b Sandstone, arkose, wacke

6c Conglomerate

Unconformity

EARLY PRECAMBRIAN

Mafic Intrusive Rocks

5

5a Diabase

Intrusive Contact

Felsic Intrusive Rocks

4

4a Porphyritic monzonite

4b Granodiorite

Intrusive Contact

Felsic Metavolcanic Rocks

3

3a Very fine - nonporphyritic tuffs and flows

Intermediate Metavolcanic Rocks

2

2a Massive flows - Tholiitic andesite - Calc-alkalic basalt

2b Plagioclase porphyritic

2c Pyroclastic breccia - porphyritic

2d Pyroclastic breccia - nonporphyritic

2e K-feldspar porphyritic

Mafic Metavolcanic Rocks

1

1a Massive iron tholiitic basalt

1b Pillowed iron tholiitic basalt

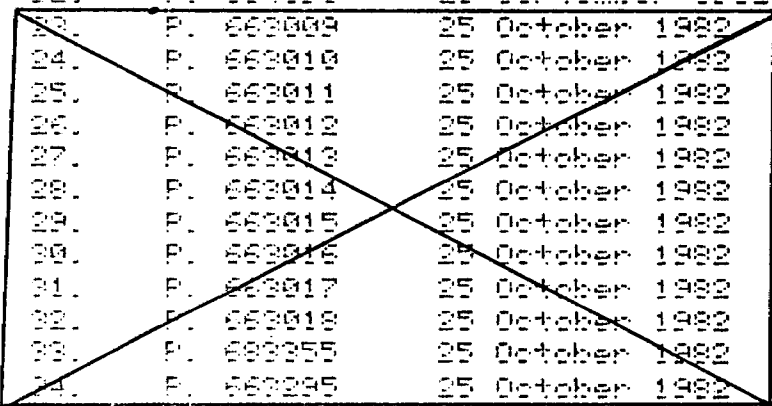
1c Brecciated basalt

1d Porphyritic basalt

1e Massive coarse grained basalt (gabbro)

MEUNIER CLAIMS IN FALLON TOWNSHIP

No.	Claim No.	Anniversary Date
1.	P. 653259	12 September 1992
2.	P. 653260	12 September 1992
3.	P. 653261	12 September 1992
4.	P. 653262	12 September 1992
5.	P. 641742	27 September 1992
6.	P. 641743	27 September 1992
7.	P. 653263	27 September 1992
8.	P. 653264	27 September 1992
9.	P. 641723	20 September 1992
10.	P. 641731	20 September 1992
11.	P. 641732	20 September 1992
12.	P. 641733	20 September 1992
13.	P. 641734	20 September 1992
14.	P. 654193	20 September 1992
15.	P. 654191	20 September 1992
16.	P. 654192	20 September 1992
17.	P. 654193	20 September 1992
18.	P. 654194	20 September 1992
19.	P. 654195	20 September 1992
20.	P. 654196	20 September 1992
21.	P. 654197	20 September 1992
22.	P. 654198	20 September 1992
23.	P. 663209	25 October 1992
24.	P. 663210	25 October 1992
25.	P. 663211	25 October 1992
26.	P. 663212	25 October 1992
27.	P. 663213	25 October 1992
28.	P. 663214	25 October 1992
29.	P. 663215	25 October 1992
30.	P. 663216	25 October 1992
31.	P. 663217	25 October 1992
32.	P. 663218	25 October 1992
33.	P. 663255	25 October 1992
34.	P. 663295	25 October 1992
35.	P. 663297	12 November 1992
36.	P. 663298	12 November 1992
37.	P. 663299	12 November 1992
38.	P. 663210	12 November 1992
39.	P. 663211	12 November 1992
40.	P. 663212	12 November 1992
41.	P. 663213	12 November 1992
42.	P. 663214	12 November 1992
43.	P. 663215	12 November 1992
44.	P. 663216	12 November 1992
45.	P. 663256	26 November 1992
46.	P. 663257	26 November 1992
47.	P. 663258	26 November 1992
48.	P. 663259	26 November 1992
49.	P. 663260	26 November 1992
50.	P. 663271	12 November 1992
51.	P. 663272	12 November 1992
52.	P. 663297	12 May 1993
53.	P. 663298	12 May 1993



Filed under a previous survey

54.	P.	7500259	10	May	1900
55.	P.	7500260	10	May	1900
56.	P.	7500261	10	May	1900
57.	P.	7500262	10	May	1900
58.	P.	7500263	10	May	1900
59.	P.	7500264	10	May	1900
60.	P.	7500265	10	May	1900
61.	P.	7500266	10	May	1900
62.	P.	7500267	10	May	1900
63.	P.	7500268	10	May	1900
64.	P.	7500269	10	May	1900
65.	P.	7500270	10	May	1900
66.	P.	7500271	10	May	1900
67.	P.	7500272	10	May	1900
68.	P.	7500273	10	May	1900
69.	P.	7500274	10	May	1900
70.	P.	7500275	10	May	1900
71.	P.	7500276	10	May	1900
72.	P.	750400	17	May	1900
73.	P.	750403	17	May	1900
74.	P.	750404	17	May	1900
75.	P.	750405	17	May	1900
76.	P.	750406	17	May	1900
77.	P.	750407	17	May	1900
78.	P.	750408	17	May	1900
79.	P.	750409	17	May	1900
80.	P.	750410	17	May	1900
81.	P.	750411	17	May	1900
82.	P.	750412	17	May	1900
83.	P.	750413	17	May	1900
84.	P.	750414	17	May	1900
85.	P.	750415	17	May	1900
86.	P.	750416	17	May	1900
87.	P.	750417	17	May	1900
88.	P.	750418	17	May	1900
89.	P.	750419	17	May	1900
90.	P.	750420	17	May	1900
91.	P.	750421	17	May	1900
92.	P.	750422	17	May	1900
93.	P.	750423	17	May	1900
94.	P.	750424	17	May	1900
95.	P.	750425	17	May	1900
96.	P.	750426	17	May	1900
97.	P.	750427	17	May	1900
98.	P.	750428	17	May	1900
99.	P.	750429	17	May	1900
100.	P.	750430	17	May	1900
101.	P.	750431	17	May	1900
102.	P.	750432	17	May	1900
103.	P.	750433	17	May	1900
104.	P.	750434	17	May	1900
105.	P.	750435	17	May	1900
106.	P.	750436	17	May	1900
107.	P.	750437	17	May	1900
108.	P.	750438	17	May	1900
109.	P.	750439	17	May	1900
110.	P.	750440	17	May	1900
111.	P.	749921	14	September	1900
112.	P.	749922	14	September	1900
113.	P.	749923	14	September	1900

136.	P.	725197	20	June	1983
137.	P.	725198	20	June	1983
138.	P.	725199	20	June	1983
139.	P.	725200	20	June	1983
140.	P.	725202	20	June	1983
141.	P.	725203	20	June	1983
142.	P.	725204	20	June	1983
143.	P.	725205	20	June	1983
144.	P.	725206	20	June	1983
145.	P.	725207	20	June	1983
146.	P.	725208	20	June	1983
147.	P.	725209	20	June	1983
148.	P.	725210	20	June	1983
149.	P.	725211	20	June	1983
150.	P.	725212	20	June	1983
151.	P.	725213	20	June	1983
152.	P.	725214	20	June	1983
153.	P.	725215	20	June	1983
154.	P.	725216	20	June	1983
155.	P.	725217	20	June	1983
156.	P.	725218	20	June	1983
157.	P.	725219	20	June	1983
158.	P.	725220	20	June	1983
159.	P.	725221	20	June	1983
160.	P.	725222	20	June	1983
161.	P.	725223	20	June	1983
162.	P.	725224	20	June	1983
163.	P.	725225	20	June	1983
164.	P.	725226	20	June	1983
165.	P.	725227	20	June	1983
166.	P.	725228	20	June	1983
167.	P.	725229	20	June	1983
168.	P.	725240	20	June	1983
169.	P.	725241	20	June	1983
170.	P.	725242	20	June	1983
171.	P.	725243	20	June	1983
172.	P.	725244	20	June	1983
173.	P.	725245	20	June	1983
174.	P.	725246	20	June	1983
175.	P.	725247	20	June	1983
176.	P.	725248	20	June	1983
177.	P.	725249	20	June	1983
178.	P.	725250	20	June	1983
179.	P.	725251	20	June	1983
180.	P.	725252	20	June	1983
181.	P.	725253	20	June	1983
182.	P.	725254	20	June	1983
183.	P.	725255	20	June	1983
184.	P.	725256	20	June	1983
185.	P.	714952	17	May	1983
186.	P.	714955	20	June	1983
187.	P.	714957	20	June	1983
188.	P.	764414	17	May	1983
189.	P.	764415	17	May	1983
190.	P.	764416	17	May	1983
191.	P.	764417	17	May	1983
192.	P.	758817	17	May	1983
193.	P.	758818	17	May	1983
194.	P.	758819	17	May	1983
195.	P.	758820	17	May	1983
196.	P.	758821	17	May	1983

114.	P.	749924	14	September	1993
115.	P.	749925	14	September	1993
116.	P.	749926	14	September	1993
117.	P.	749927	14	September	1993
118.	P.	749928	14	September	1993
119.	P.	749929	14	September	1993
120.	P.	749930	14	September	1993
121.	P.	750016	14	September	1993
122.	P.	750017	14	September	1993
123.	P.	750018	14	September	1993
124.	P.	750019	14	September	1993
125.	P.	750020	14	September	1993
126.	P.	752187	14	September	1993
127.	P.	752188	14	September	1993
128.	P.	663467	26	November	1992
129.	P.	663468	26	November	1992
130.	P.	663469	26	November	1992
131.	P.	663470	26	November	1992
132.	P.	663471	26	November	1992
133.	P.	663472	26	November	1992
134.	P.	663473	26	November	1992
135.	P.	663474	26	November	1992

Mining Lands Section

File No 27404

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL
 GEOLOGICAL
 GEOCHEMICAL
 EXPENDITURE

MINING LANDS COMMENTS:

AD
h.D. lpa.

RECEIVED
MAY 01 1985
MINING LANDS SECTION

3 Hunt
Signature of Assessor

84-10-16
Date



Ontario

Ministry of Natural Resources

Technical Assessment Work Credits

File 2.7404

Date 1984 11 26

Mining Recorder's Report of Work No. 371/84

Recorded Holder: DAVID MEUNIER
Township or Area: FALLON TOWNSHIP

Table with 2 columns: Type of survey and number of Assessment days credit per claim, Mining Claims Assessed. Includes rows for Geophysical, Geological, and Geochemical surveys.

Special credits under section 77 (16) for the following mining claims. Lists claim numbers and corresponding credit days (15, 10, 5 days).

No credits have been allowed for the following mining claims. Includes checkboxes for 'not sufficiently covered by the survey' and 'insufficient technical data filed'.

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(16)—60;

1984 12 20

Your File: 371/84
Our File: 2.7404

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated November 26, 1984.
Geological Survey on Mining Claims P 641730
et al in the Fallon Township.

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-6918

S. Hurst:sc

cc: David Meunier
403 Dome
South Porcupine, Ontario
PON 1K0

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geologist
Timmins, Ontario



Ontario

Ministry of
Natural
Resources

Dec 11/84

1984 11 26

Your File: 371/84
Our File: 2.7404

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

R.S. S. Hurst:mc
Encls.

cc: David Meunier
403 Dome
South Porcupine, Ontario
PON 1K0

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1984 11 26

2.7404/371/84

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

2.7404
2.1395
120/85

Your Lic. 12-1395
2.7404

- Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Mining Act

Type of Survey(s) Geological & Geophysical		Township or Area Fallon, Twp.	
Claim Holder(s) David J. Meunier - Gabriel Sutherland		Prospector's Licence No. M-17157 ✓	
Address 403 Dome St., South Porcupine, ON PON 1H0			
Survey Company R.P. Bowen		Date of Survey (from & to) Day Mo. Yr. Day Mo. Yr. 01 05 84 09 084	Total Miles of line Cut 4
Name and Address of Author (of Geo-Technical report) R.P. Bowen, P.O. Box 5010, PMS, South Porcupine, ON PON 1K0			

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For each additional survey: using the same grid: Enter 20 days (for each)	- Magnetometer	20
	- Radiometric	
	- Other	
	Geological	40
Man Days	Geophysical	Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	
Airborne Credits	Other	
	Geological	
	Geochemical	
	Electromagnetic	
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P.	803940				
	803941				
	803942				
	803943				

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date **1 APR 1985** Recorded Holder or Agent (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded **320** Date Recorded **Apr 2/85**

Date Approved as Recorded **10.6.3** Branch Director *[Signature]*

Total number of mining claims covered by this report of work. **4**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
R.P. Bowen

Date Certified **1 APR 1985** Certified By (Signature) *[Signature]*



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Linecutting - Geological
Township or Area Fallon Township
Claim Holder(s) David Meunier

Survey Company R.P. Bowen
Author of Report R.P. Bowen
Address of Author P.O. Box 5010 PMS, S. PORCUPINE
Covering Dates of Survey May 1983 - July 1984
(linecutting to office)
Total Miles of Line Cut 109.37

MINING CLAIMS TRAVERSED	
List numerically	
P. (prefix)	653259 (number)
	653260
	653261
	653262
	641742
	641743
	653908
	653909
	641730
	641731
	641732
	641733
	641734
	661936
	654191
	654192
	654193
	654194
	654195
	654196
	654197
	654198
TOTAL CLAIMS _____	

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical -Electromagnetic _____ -Magnetometer _____ -Radiometric _____ -Other _____
ENTER 20 days for each additional survey using same grid.	Geological <u>40</u> Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)
DATE: SEP 1984 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 20057

<u>Previous Surveys</u>			
File No.	Type	Date	Claim Holder

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

**INDUCED POLARIZATION
RESISTIVITY**

Instrument _____

Method Time Domain Frequency Domain

Parameters -- On time _____ Frequency _____

-- Off time _____ Range _____

-- Delay time _____

-- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

MINING CLAIMS TRAVERSED
List numerically

P. (prefix)	(number)
663009	
663010	
663011	
663012	
663013	
663014	
663015	
663016	
663017	
663018	
683355	
663005	
663907	
663908	
663909	
663910	
663911	
663912	
663913	
663914	
663915	
663916	

If space insufficient, attach list

TOTAL CLAIMS _____

MINING CLAIMS TRAVERSED
List numerically

P. (prefix)	(number)
683356	
683357	
683358	
683359	
683360	
683361	
683362	
758257	
758258	
758259	
758260	
758261	
758262	
758263	
758264	
758265	
758266	
758267	
758268	
758269	
758270	
758271	

If space insufficient, attach list

TOTAL CLAIMS _____

MINING CLAIMS TRAVERSED
List numerically

P. (prefix)	(number)
	758272
	758273
	758274
	758275
	758276
	758402
	758403
	758404
	758405
	758406
	758407
	758408
	758409
	758410
	758411
	758412
	758413
	758414
	758415
	758416
	758417
	758418

If space insufficient, attach list

TOTAL CLAIMS _____

MINING CLAIMS TRAVERSED
List numerically

P. (prefix)	(number)
	758419
	758420
	758421
	758422
	758423
	758424
	758425
	758426
	758427
	758428
	758429
	758430
	758431
	758432
	758433
	758434
	758435
	758436
	758437
	758438
	758439
	758440

If space insufficient, attach list

TOTAL CLAIMS _____

MINING CLAIMS TRAVERSED
List numerically

P.	749821
(prefix)	(number)
	749822
	749823
	749824
	749825
	749826
	749827
	749828
	749829
	749830
	750016
	750017
	750018
	750019
	750020
	752187
	752188
	663467
	663468
	663469
	663470
	663471

If space insufficient, attach list

TOTAL CLAIMS _____

MINING CLAIMS TRAVERSED
List numerically

P.	663472
(prefix)	(number)
	663473
	663474
	725197
	725198
	725199
	725200
	725202
	725203
	725204
	725205
	725206
	725207
	725208
	725209
	725210
	725211
	725212
	725213
	725214
	725215
	725216

If space insufficient, attach list

TOTAL CLAIMS _____

MINING CLAIMS TRAVERSED
List numerically

P. (prefix)	(number)
	725217
	725218
	725219
	725220
	725221
	725232
	725233
	725234
	725235
	725236
	725237
	725238
	725239
	725240
	725241
	725242
	725243
	725244
	725245
	725246
	725247
	725248

If space insufficient, attach list

TOTAL CLAIMS _____

MINING CLAIMS TRAVERSED
List numerically

P. (prefix)	(number)
	725249
	725250
	725251
	725252
	725253
	725254
	725255
	725256
	714952
	714956
	714957
	764414
	764415
	764416
	764417
	758817
	758818
	758819
	758820
	758821
	803940
	803941

If space insufficient, attach list

TOTAL CLAIMS _____

MINING CLAIMS TRAVERSED
List numerically

P.	803942
(prefix)	(number) 803943

If space insufficient, attach list

TOTAL CLAIMS 184

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
----------	----------

If space insufficient, attach list

TOTAL CLAIMS _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

LEGEND

CENOZOIC

QUATERNARY

Pleistocene, Recent

Clay, sand, gravel, till

Unconformity

PRECAMBRIAN

MIDDLE PRECAMBRIAN

Mafic Intrusive Rocks



7a Diabase

Intrusive Contact

Huronian Supergroup

Cobalt Group

Gowganda Formation



6a Mudstone, argillite

6b Sandstone, arkose, wacke

6c Conglomerate

Unconformity

EARLY PRECAMBRIAN

Mafic Intrusive Rocks



5a Diabase

Intrusive Contact

Felsic Intrusive Rocks



4a Porphyritic monzonite

4b Granodiorite

Intrusive Contact

Felsic Metavolcanic Rocks



3a Very fine - nonporphyritic tuffs and flows

Intermediate Metavolcanic Rocks



2a Massive flows - Tholiitic andesite - Calc-alkalic basalt

2b Plagioclase porphyritic

2c Pyroclastic breccia - porphyritic

2d Pyroclastic breccia - nonporphyritic

2e K-feldspar porphyritic

Mafic Metavolcanic Rocks



1a Massive iron tholiitic basalt

1b Pillowed iron tholiitic basalt

1c Brecciated basalt

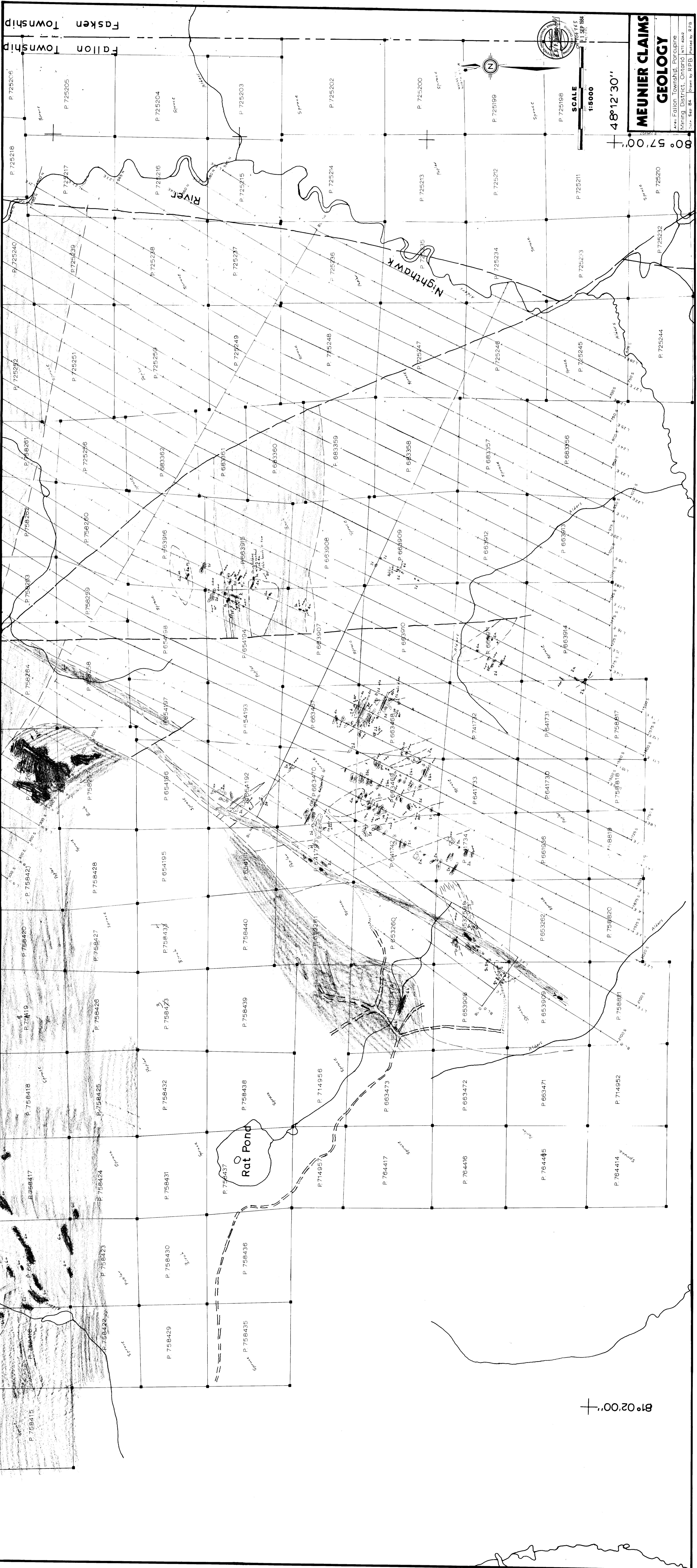
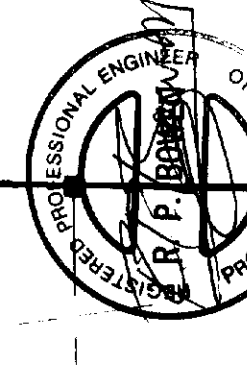
1d Porphyritic basalt

1e Massive coarse grained basalt (gabbro)

MEUNIER CLAIMS
GEOLOGY
 Area: Fallon Township, Porcupine Mining District, Ontario N7S 4W2
 Date: Sep 84. Drawn by RPB. Printed by R718

48°12'30"

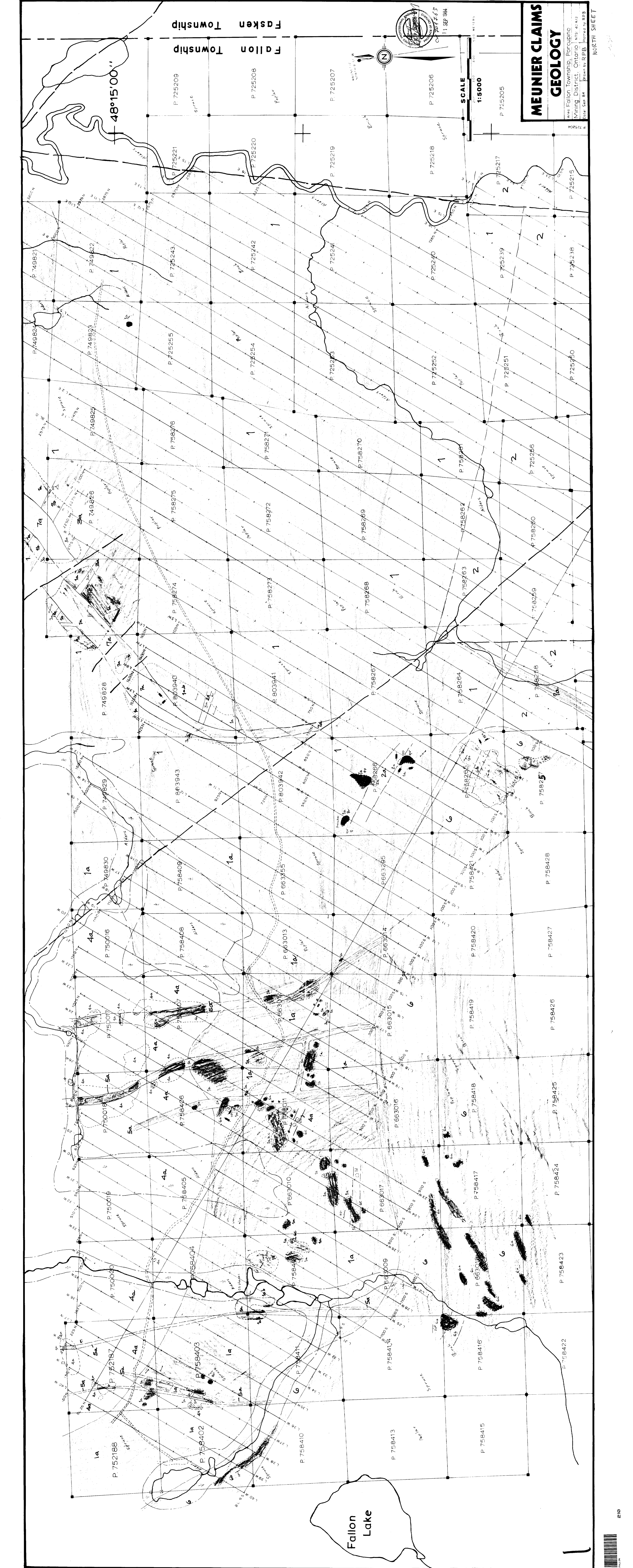
SCALE 1:5000



81°02'00"

Fallon Township

Fasken Township



MEUNIER CLAIMS
GEOLOGY
 Area Fallon Township, Porcupine
 Mining District, Ontario NTS 46-42
 File 508 84. Drawn by RFPB. Issued by RB8

NORTH SHEET

Fallon
Lake

48°15'00"

Fallon Township
 Fasken Township

SCALE
 1:5000

11 SEP 1984

