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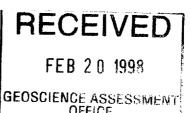
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REPORT ON PROSPECTING ACTIVITIES

OP 97-117 PROJECT AREA NO.2

CLAIM NO. S1118147

HUTTON TWP



By Gordon Salo January 16 1998.

Lalon Sal

Report on Prospecting Activities

OP 97-117

Project Area No. 2

Date: January 16, 1998

Name: Gordon Salo

<u>Individuals who successfully applied and received assistance for this project:</u>

No other persons were OPAP recipients.

Location and Access:

The Vermillion River area, to the East and South of the Small Village of Milnet, specifically at the common corner intersection of Hutton, Parkin, Wisner and Norman Townships. A twenty claim unit group running in a North - South direction of the four abutting subdivided townships, all within the Sudbury Mining Division.

Claim map sheets G - 4066, G 2915, G 4121, G 4092.

N. T. S. Map sheet, Sudbury 41-1 scale 1:250,000.

N. T. S. Map sheet, Milnet 41 - 1/15 scale 1:50,000.

Latitude 46 48' 0"

Longitude 80 56' 52"

The area is easily accessible by travelling North on paved Regional Road # 84 from the town of Capreol for a distance of 12 kilometres to Cache Lake. You are now on the eastern side and centre of the claim group and the project area. Regional Road # 84 cuts directly through the majority of the claims. A great number of hunting, exploration trails and bush roads branch out from Regional Road # 84 in all directions, which are all well used and visible.

Changes to the Proposed Project:

No changes were made to my prospecting project.

Geology of Project:

The gold placer deposits and deposit general geology on my claim group can be best described by the following quoted statements made by a number of qualified individuals who have visited or worked the property in the past.

"At one or two places, some two or three hundred yards from the river, I found a colour or two in nearly every pan. This was just below Ross Lake. Lying about half a mile East of Ross Lake is another small lake, the ridge between being all gravel and carrying gold. There was little variation in the value of the gravel from the surface to the depth reached

(8' to 12'). It would average from 15 to 30 colours to the pan. One pan from this place contained 105 colours. This deposit extends some distance in a Northerly and Southerly direction." (Bureau of Mines Report, Arthur H. Gracey. 1898 Pg. 257).

"On Ross Lake near Gordon's camp, the gravel terraces are much wider here than the river below, though rocky hills bound the valley here also. Just East of the camp against a hill of granitoid gneiss with angular and contoured inclusions of grey schist there are two gravel terraces, one rising about 35 feet and another 57 feet above Ross Lake and a little to the South on the lower terrace there is a small lake. Gravel from pits here is said to be rich, as we found as many as 40 colours to the pan." (Bureau of Mines Report, A.P. Coleman, **1900** Pg. 153).

"The geological formations of the area may be classified as Precambrian, Pleistocene, and recent. Bedrock formations were not differentiated during the field work. Since the time the present day Vermillion River watershed was fully established, there has been little modification of the Pleistocene deposits. Only a few feet of Pleistocene gravels appear to have been removed along the rapids, and peaty muds have been deposited on the lake bottoms. The pleistocene deposits of the Capreol-Milnet area include those deposited by the agencies of ice, water, and wind, and combination of these agencies. They may be classified as follows: Glacio-eolian: Dune sands and silts, Loess. Glacio-Lacustrine: Lake bottom silts and clays, shoreline sands and gravels, deltaic deposit. Glacio-fluvial: The great bulk of boulders, gravels, sands, and silts deposited as: (a) eskers and crevasse fillings, (b) kame terraces, (c) outwash. Glacial: bouldery, gravelly, and sandy till deposited as: (a) end moraine, (b) lateral moraine, (c) ground moraine. On visits to the area in 1945 and 1946 as well as the summer of 1948, the writer did much "panning" in the pleistocene deposits. Gold can be panned along the main channel ways for many miles as well as in some of the tributary courses. The gold is mostly of the fine "shot" variety, only occasionally large enough to be heard when dropped on a piece of paper. It appears to be readily saved by sluicing over wire or metal riffles. The best pannings were obtained along a quarter- mile stretch of the channel way immediately East of (Regional Road # 84) at the North end of Ross Lake." (Ontario Department of Mines. P.R. 1949-2 by V. K. Priest). See Appendix Map.

"The gold is free of "shot" size. Nuggets are rare, but pieces of up to 50 milligrams have been found. The gold occurs as bright yellow fragments near the surface and as slightly coarse, rusty coloured fragments at deeper horizons. The gold may originate from preglacial placer concentrations which were not entirely dissipated by glacial action, or from placer concentrations in torrential glacial streams from gold picked up in the Porcupine and Shining Tree areas." (Concor-Chibuogamu Mines Limited, R.J. Cook, 1959. Assessment files).

"Samples recently taken by the writer at intervals of approximately 3/4 of a mile-on the surface depth not exceeding 3 feet give, (Assays at \$35.00 per ounce) No.1 \$0.35/ton, No.2 \$2.10/ton, No.3 \$2.45/ton, No.4 \$7.00/ton."(D.A. MacKay, Eng. Geologist, C. E. Hydrology, A.A.A.S **1972** Assessment files Report, pg.4)

"While considering the possibility of concentration power of the glacio-fluvial streams, the source of the placer might have been concentration due to redistribution of Pre-Pleistocene placers or concentration and re-distribution of gold sparsely distributed in glacial till." (M. Roy. Geo, B. S. C. Sandex Developments. Page 20. Assessment files 1975).

"Geologically inferred reserve within 19 claim group is about 7 million cubic yards of potential pay gravel averaging up to \$2.00 per cubic yard." (Dr. Sethuraman, Sandex Developments. Pg.22. Assessment files 1975.)

"On both sides of the Vermillion River, large beds of gravel carry placer gold in varying quantities. The area is largely drift covered: overburden includes stratified clays, sands, peat, and moss. The gold is quite fine, the largest grains weighing 5 milligrams." (Pg. 64 O.G.S., MDC, 18. J. B. Gordon, H. L. Lovell, Jan de Grijs, R. F. Davie authors. 1979)

"The general stratigraphy is thin alluvium, reworked glacial outwash, overlying glacial outwash, overlying bedrock. The bedrock surface is rolling with bare knobs interspersed amidst the outwash. The alluvium tends to occupy old channel flats. The gravels contain a wide number of Lithic types, and are sub-rounded to sub-angular typical of glacial drift. Bedding in the deeper gravels an the presence of kettle holes are also typical of outwash gravels. The Vermilion River is flowing on glacial outwash. Overflow-banks formed during floods have a thick blanket of silt and the very fine gold scales are commonly concentrated in this environment, apparently trapped by the fence of entwined vegetation rootlets. This flood-silt gold is in scales and fine dust, not nuggets pounded together, and as such it is typical of glacial drift gold. The upper four feet, especially in the true alluvial flats can not be ruled out as having small pockets. Most of this gold will be of scale and dust sizes." (H. A. Lee, P.H.D., P. ENG. Kerr Addison Mines Limited. Assessment files report, pages 4, 5, 41. 1980)

"All channel deposits are cut through pre-existing glacial till of unknown thickness. Two main depositional sequences exist, where glacial outwash (relatively violent water flows) is interbedded with finer deposits within the same channel courses. The finer grained

sequences display typical stable channel depositional structures, such as cross bedding and reverse grading. Fine to medium grained sand sequences, composed mostly of well to moderately spherical and moderately to poorly rounded quartz, feldspar and volcanic clasts, are interbedded within but laterally continuous silt and clay layers. These are inductive of slight variations in channel energies and/ or sediment provenance. Channel fining-upwards on a large scale was not observed, indicating either erosion of the upper channel sequences by subsequent channelling or till emplacement, or an abrupt termination of water flow within the observed channel courses. The mapped channel sequences formed just prior to a final glacial advance that deposited the thin till cover over much of the map area. A paleo-soil at the base of this till, in places, is evidence of a fair hiatus. It is suspected, therefore, that more channel sequences could exist at shallow burial depths. Certain topographical features, in relation to bedrock outcrop positions, indicate possible targets for an exploratory overburden drilling program' (R.P.Gagne, B.Sc. Hon. Geol. Orevco Inc. Assessment files report, pg 2, Sept 29, 1987)

"It may be possible that the localized occurrences of finely divided gold within certain till horizons, represent what may be termed a geoelectrochemical anomaly based on the upward movement of metallic ions from some underlying source, if conductive, could be considered as a natural galvanic cell, which can result in electrochemical dispersion of metallic ions, including gold, into favourable horizions of glacial till. If such a model of deposition does exist, then the highest current density should be found in the uppermost conductive till horizon, resulting in higher gold deposition via adsorption onto clays, pollen etc. Further concentration might possibly be caused by geomicrobial action due to the presence of B. Cereus bacteria, which acts as a scavenger of gold. The heavy metals, (Cu, Zn, Pb,) anomaly appears to lend credence to the presence of underlying mineralization. In a documented case in Norway, native copper has been found as the cementing matrix in glacial till. This copper was derived from a bedrock source by electrochemical dispersion. A good electrical conductor, such as sulphide mineralization, will take on the character of a dipole electrode, becoming an (+) at depth and a cathode(-) at the surface. This system, mineralization/ country rock/ groundwater, can be considered as a galvanic cell where natural electric currents flow, carried by electrons within the mineralization and by ions in the electrolyte formed by the groundwater. Positive current direction will be downward in the mineralized structure, and upwards in the surroundings. Since overburden has better electrical conductivity than bedrock, the ionic current will flow more or less vertically in the country rock and horizontally in the overburden, just above the subcrop of the hanging wall of the deposit. Ions will move along the current paths and if during their migration they meet retaining agents like Fe-Mn hydroxides, or humus, they may be obsorbed and interchanged for more mobile ions

which in turn are released to the electrolyte. Gold in solution, could be precipitated into overlying till horizons by this process." (O.T.Maki, Assessment files report, pages 3-4, January 9 1992.)

Work Done:

A high detail close spaced "B" horizon soil sampling project was completed over a north south running transverse line within the project area. 100 samples were collected at 5 metre intervals over a total line length of 1/2 kilometre. The samples were excavated from depths of .25 to .5 metres. One thousand three hundred eighty five and a quarter pounds (1385.25) of "B" horizon were collected in quarter filled 20 litre plastic pails. These pails were thoroughly washed and rinsed clean before being used in the sampling program. The samples were transported to and processed at our shop facilities located on Lake Panache, Sudbury, Ontario.

Sample weights averaged 13.85 lbs. Each was classified by a series of sieves underwater. First, through a 3/8" screen, a 1/8" screen and finally through a 1/20" screen. The resulting <1/20" material was carefully panned using a 14" riffled gold catcher green plastic pan. Approximately 4 or 5 lbs. of material were panned at a time. All sample material was panned three times to ensure the highest possible recovery of gold particles. The panned tailings were then run through a micron gold separator sluice for further recovery of the finest concentrates, which may have been lost in the panning procedure. The concentrate, or black sands usually consisted of about 1/8 teaspoon of material or less per sample. Each samples black sand concentrates were carefully fanned out along the perimeter bottom of the gold pan and subjected to a stereo microscope examination. All gold particles observed were counted, the totals were divided by their field sample weights to arrive at a Au. Particle content per lb. Of "B" horizon material. The resulting data was recorded and mapped within this report.

Three bulk samples of 585, 510.75 and 460.5 pounds of "B" horizon material was excavated from 1996 sample sites number 10, 32 and 138 in order to confirm high gold values obtained in previous sampling. This sample material was also subjected to the same processing procedures and examination as the above 100 samples.

Results and Recommendations:

1385.25 lbs. of "B" horizon composed of 100 soil samples were recovered and processed down to a black sand concentrate. From this material 276 Au. Particles were observed with a stereoscopic microscope. The gold content over the entire sampling traverse averaged .199242 particles per lb. of "B" horizon. The black sand concentrate of the 585 lb. "B" horizon bulk sample collected from 1996 site #10 contained a total of 11,066 Au. Particles, giving the bulk sample a value of 18.916 Au. Particles per lb. of "B" horizon. The 510.75 lb "B" horizon bulk sample collected from 1996 site #32 contained a total of 8214 Au. Particles, giving the bulk sample a value of 16.083 Au. Particles per lb. of "B" horizon. The 460.5 lb. "B" horizon bulk sample collected from 1996 site #138 contained a total of 7905 Au. Particles, giving the bulk sample a value of 17.167 Au. Particles per lb. of "B" horizon. Overall the particle sizes ranged from a flake measuring approximately 1 millimeter x 1.25 millimetres to fine-flour gold observable only with a microscope. About 40% of the particles would fall into the microscopic category and 60% into the fine and visible group, with less than 1% over 40 mesh size. Personal communication with placer prospectors in British Columbia, Alberta, Alaska, and California have informed me that Fine Gold 20 to 40 mesh will run 10,000 to 12,000 particles to the ounce and Flour Gold -40 mesh runs from 40, 000 to 100,000 particles or more to the ounce. I would suggest that approximately 500,000 to 1,000,000 particles would make up an ounce from the area of my sampling program. That would not take into account larger gold particles that were lost to screening and processing the sample material with the very fine 1/20 inch screen, this would reduce the numbers required to make up and ounce of gold substantially.

Of the 103 samples collected, forty two contained no gold particles, fifty eight averaged less than 1 particle per lb. of material, and only the three bulk sample sites contained an average of well over one gold particles per lb. It was interesting to note that of the 27461 Au. Particles, not one of them showed any evidence of their host source such as inclusions or attachment to any quartz carbonite vein, felsic, or mafic materials. The Au. particles were a characteristic bright yellow gold colour owing to their purity. None of them seem to have any polished surfaces from extended periods of hydraulic or glacial action and only the thinnest of particles, approximately 1 or 2% of the total had slightly folded or curled edges. During the screening and panning of the samples, the material was examined under 1000 watt halogen lighting to check for possible nuggets or anomalous, out of place looking pebbles, and small stones. No nuggets or gold bearing pebbles were to be found or any anomalous concentration of angular or sub-angular quartz fragments as found in previous sampling locations. No out croppings of bedrock were located during the prospecting project. From the results of this project it can be

determined that the sampled area is mineralized to a some what lesser degree with varying amounts of placer gold as compared with sampling locations on the east side of regional road #84. Enough Au. to support a commercial operation remains unknown, a sizable deposit of reasonable grade would have to be outlined. Smaller sized placers may have some value as being developed as a recreational and/or micro-mining enterprise. It has been suggested that this mineralized horizon may not even be a placer type deposit, but may simply represent an indicator, pointing to an underlying, gold bearing bedrock source. The highest gold content area would presently be the east bank along the northsouth running swamp channel. It has been suggested that this may represent a mineralized splay of the Vermilion fault system. I would recommend further "B" horizon sampling over a larger area, to be followed up by close spaced sampling over higher than average Au. content areas. Backhoe trenches to determine depths of mineralization and siphon dredge sampling of all drainage and swamp channel bottoms at regular intervals. This project area has never been diamond drilled, therefore the only way to confirm if the gold bearing overburden represents a hidden bedrock source would be to drill it. Positive drill results would prove very interesting and definitely attract interest in this area.

Project Area No.2 Prospecting Daily Log Claim S1118147

Date Work Performed Total Days

October 4, 1997	Washed clean sampling buckets.1 helper	2
October 11, 1997	Soil sample collection # 1-37. 2 helpers	3
October 12, 1997	Soil sample collection # 38-64. 2 helpers	3
October 18, 1997	Soil sample collection # 65-100. 2 helpers	3
October 25, 1997	Soil sample collection bulk #96-10, 2helpers	3
November 1, 1997	Soil sample collection bulk #96-32. 2 helpers	3
November 9, 1997	Soil sample collection bulk #96-138. 2 helpers	3
November 15, 1997	Sample processing at shop. 2 helpers	3
· ·		_
November 16, 1997	Sample processing at shop. 2 helpers	3
November 22, 1997	Sample processing at shop. 2 helpers	3
November 23, 1997	Sample processing at shop. 1 helper	2
November 29, 1997	Sample processing at shop. 1 helper	2
December 6, 1997	Sample processing at shop. 1 helper	2
December 7, 1997	Sample processing at shop. 1 helper	2
December 8, 1997	Sample processing at shop. 1 helper	2
December 13, 1997	Sample processing at shop. 1 helper	2
December 14, 1997	Sample processing at shop. 1 helper	2
December 20, 1997	Sample processing at shop. 1 helper	2
December 21, 1997	Sample processing at shop. 1 helper	2
December 28, 1997	Sample processing at shop. 1 helper	2
January 4, 1998	Sample processing at shop. 1 helper	2

Days for Gord: 21 Helper Days: 30 Total Work Days: 51

Location of Prospecting Activities:

Location of Samples Collected:

Description of Samples Collected:

*See results and recommendations section of this report.

^{*}See attached maps.

^{*}See attached maps.

Sample Data Claim Number S1118147 Hutton Twp.

Stereo microscopic gold particle count per lb. of "B" horizon soil and gravel samples @ 14x magnification, 3/4" field of view. Samples were pre processed to a black sand heavies concentrate for microscopic count and examination.

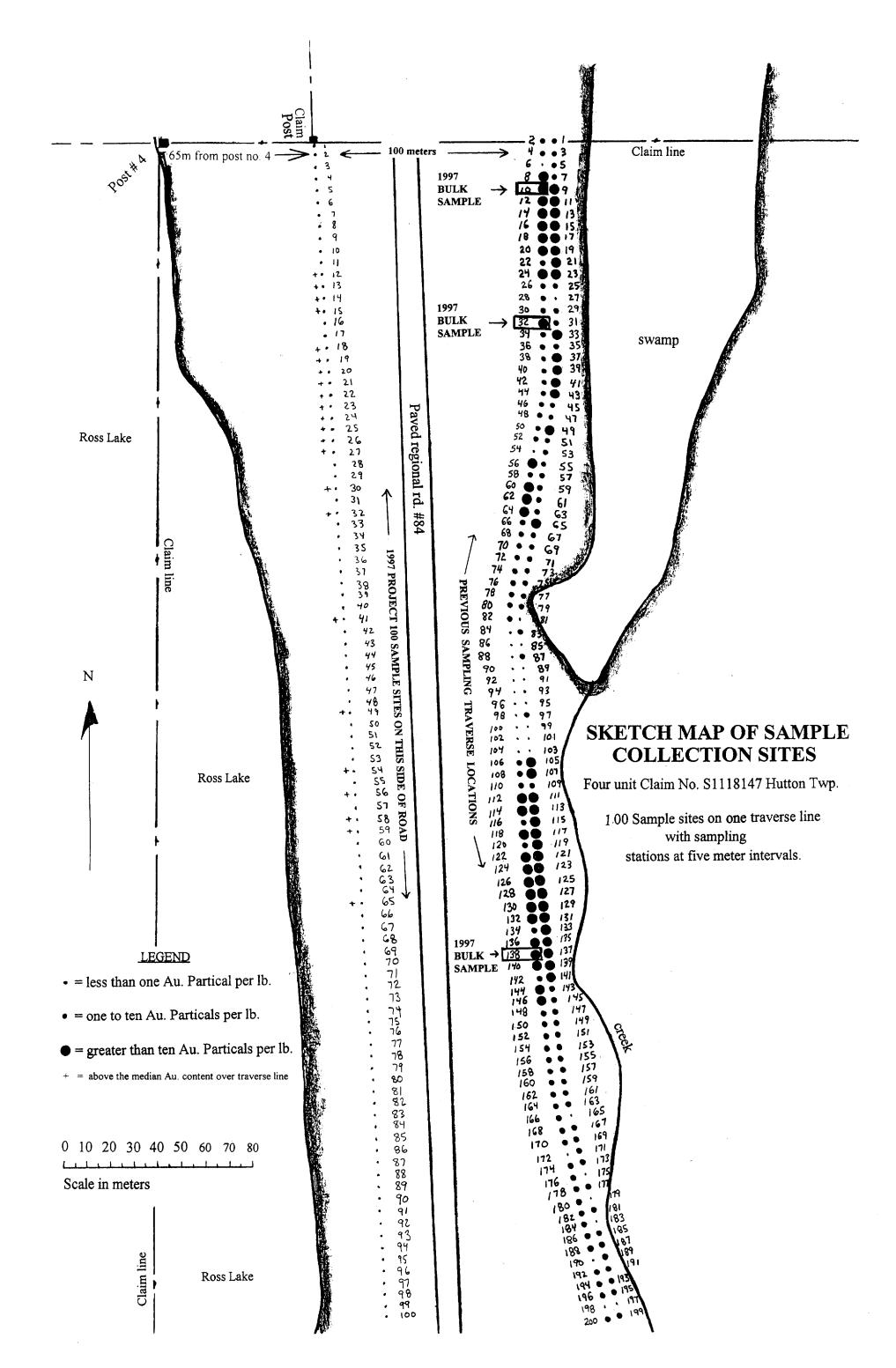
Sample Number	# Of Au. Particles In Sample	Sample Weight In lbs.	Au. Particles Per lb.
1.	0	14.5	0
2.	0	11	0
3.	0	13	0
4.	0	12	0
5.	0	15	0
6.	0	22	0
7.	0	18.75	0
8.	0	15.5	0
9.	0	19	0
10.	0	14.5	0
11.	0	17.5	0
12.	7	13	.538
13.	4	20	.200
14.	12	16	.750
15.	4	13	.308
16.	1	15	.067
17.	1	21	.048
18.	4	19	.210

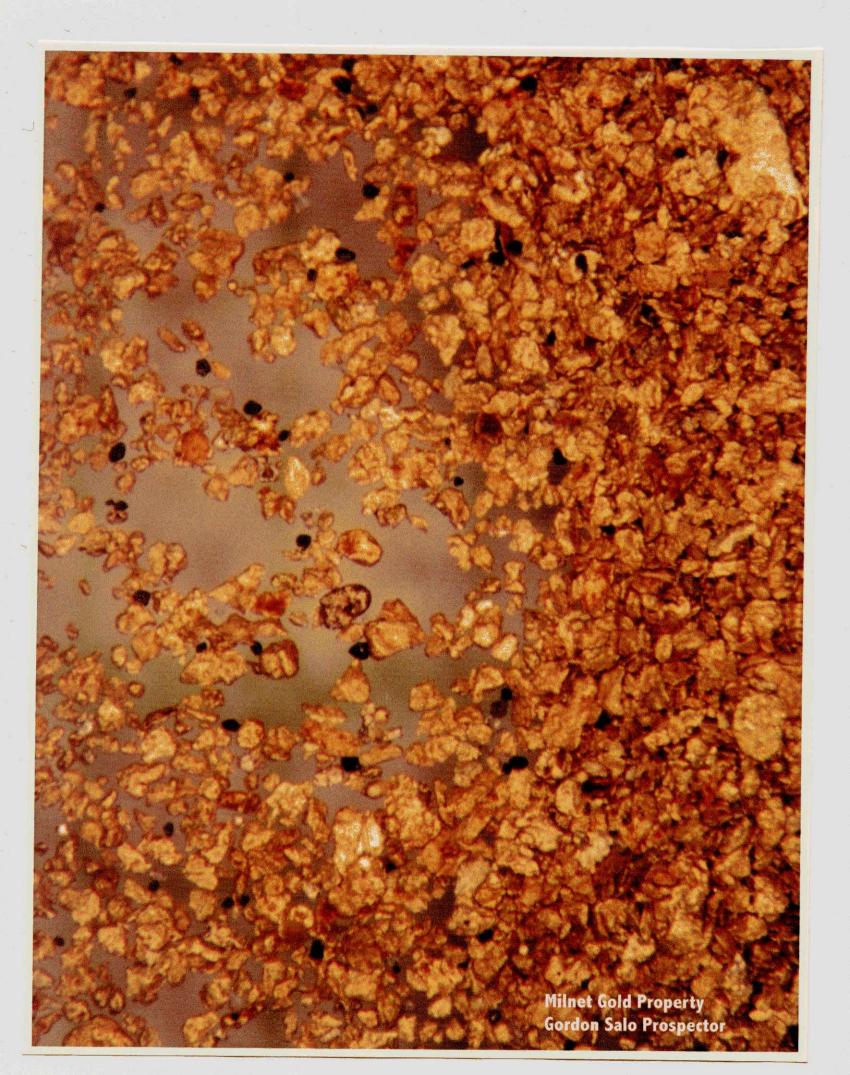
10	Λ	12	200
19.	4	13	.308
20.	8	12	.667
21.	3	11	.273
22.	6	15.5	.387
23.	12	14.5	.828
24.	8	14.5	.551
25.	11	17.5	.629
26.	6	13.5	.444
27.	10	12	.833
28.	1	11.5	.087
29.	1	13	.077
30.	5	12	.417
31.	1	15	.067
32.	4	18.5	.216
33.	1	11	.091
34.	0	14.5	0
35.	0	15.5	0
36.	2	16.5	.121
37.	0	14.5	0
38.	1	18	.056
39.	1	18	.056
40.	2	13	.154
41.	3	15.5	.194
42.	2	11	.182
43.	0	15.5	0
44.	2	16.5	.121
45.	1	12.75	.078

46.	1	14.5	.669	
47.	0	13	0	
48.	0	16.5	0	
49.	3	15.5	.194	
50.	1	12	.083	
51.	1	14.5	.069	
52.	0	13.5	0	
53.	0	13	0	
54.	3	14.5	.207	
55.	0	13.5	0	
56.	4	13.5	.297	
57.	2	15	.133	
58.	4	13	.308	
59.	3	13	.231	
60.	1	12	.083	
61.	2	14.5	.138	
62.	1	13	.077	
63.	2	15	.133	
64.	0	13	0	
65.	3	13	.231	
66.	1	12	.083	
67.	1	11	.091	
68.	0	10	0	
69.	0	11.75	0	
70.	1	13	.077	
71.	0	14.5	0	
72.	0	12.75	0	-

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96. 1 13 .077 97. 0 12 0	94.	0	9.5	0	
97. 0 12 0	95.	0	11	0	
	96.	1	13	.077	
98. 0 11 0	97.	0	12	0	
	98.	0	11	0	
99. 2 13 .154	99.	2	13	.154	

100.	1	12	.083	
BULK SAMP THREE SAM				
1996#10	11,066	585	18.916	
1996#32	8,214	510.75	16.083	
1996#138	7,905	460.5	17.167	



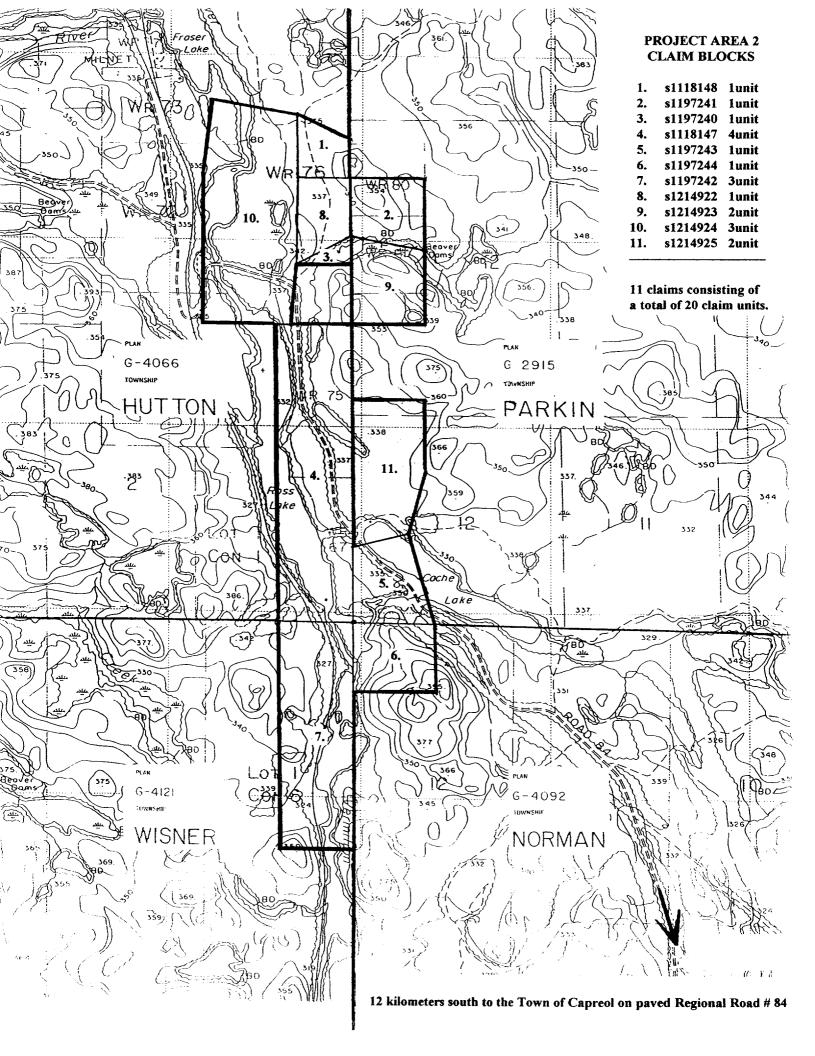


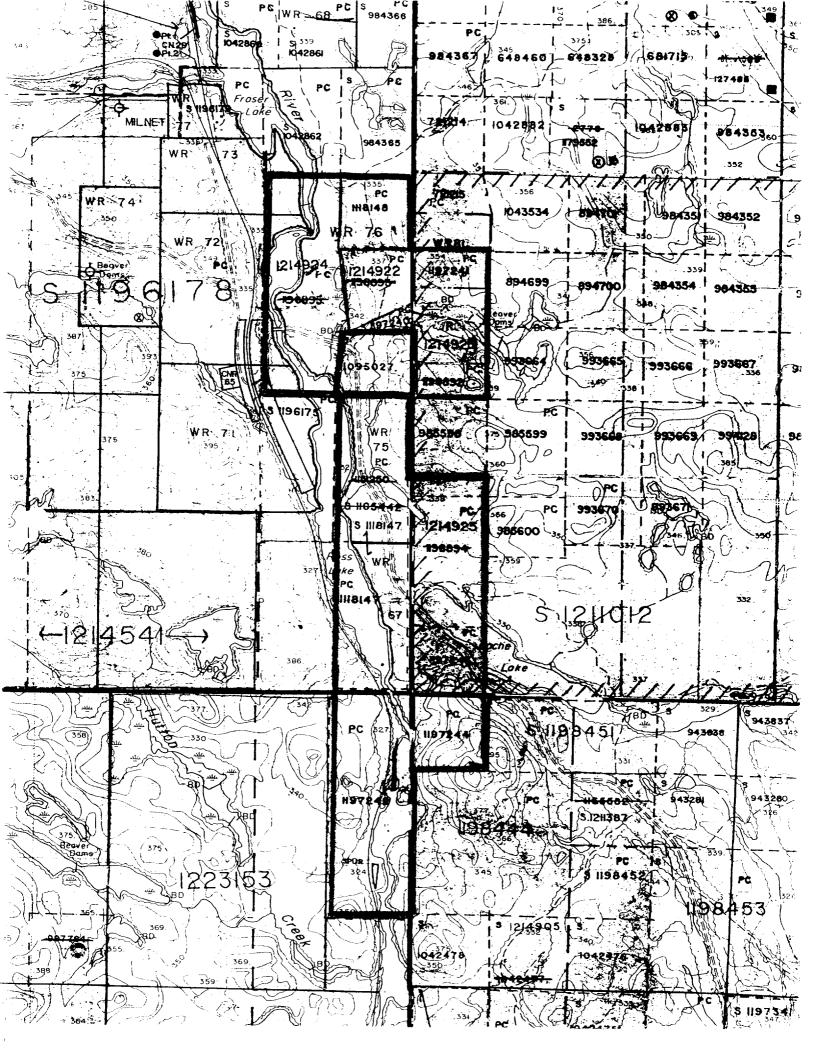
APPENDIX	

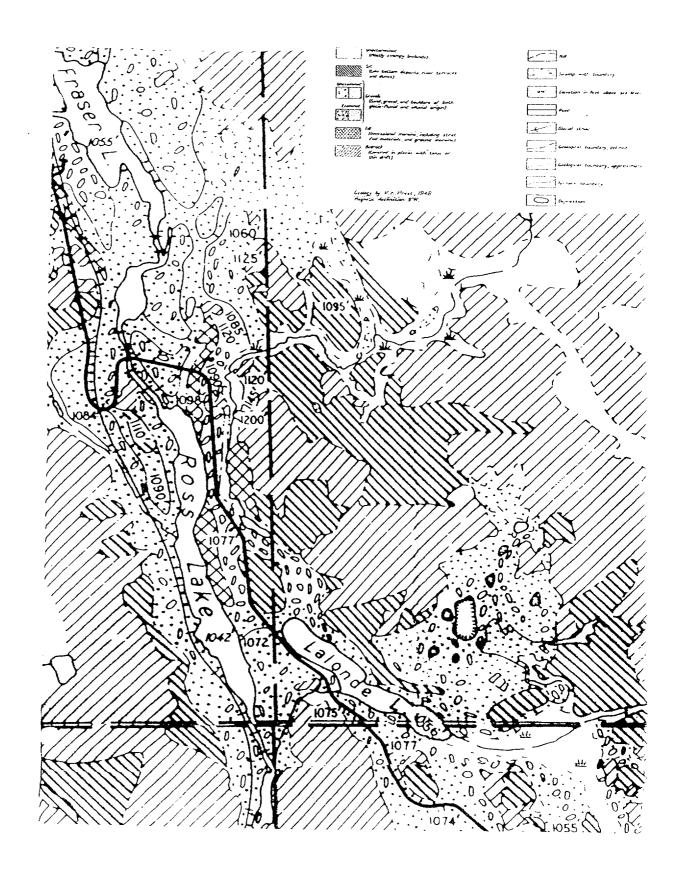
Project Areas

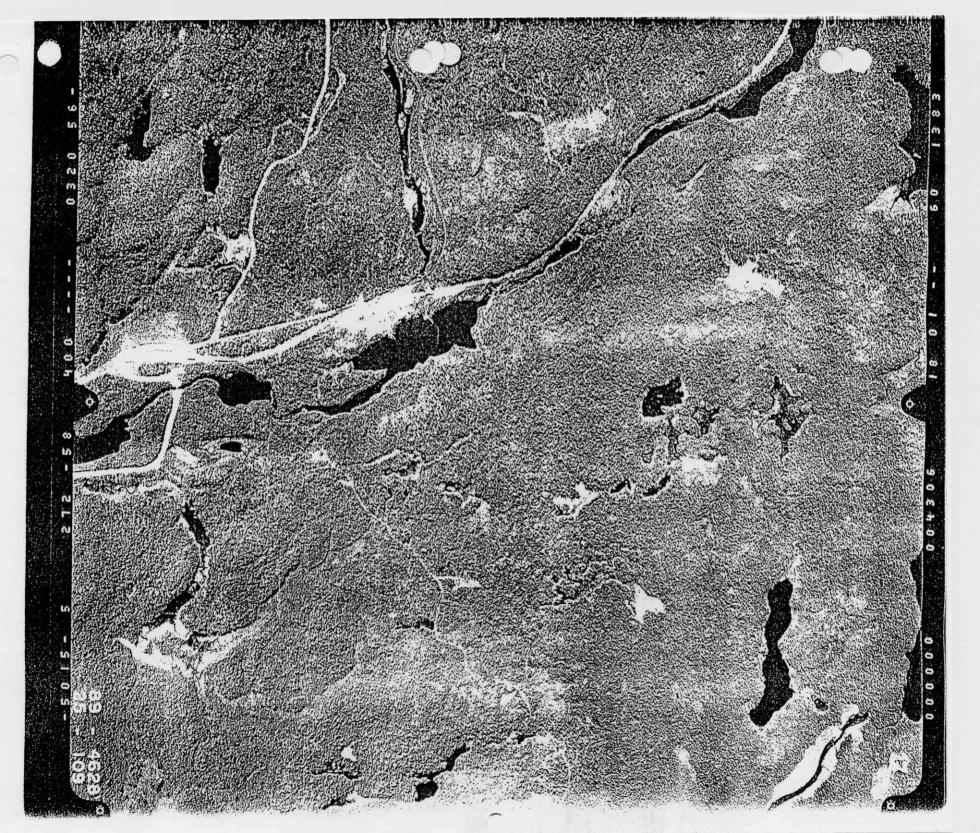
Key map

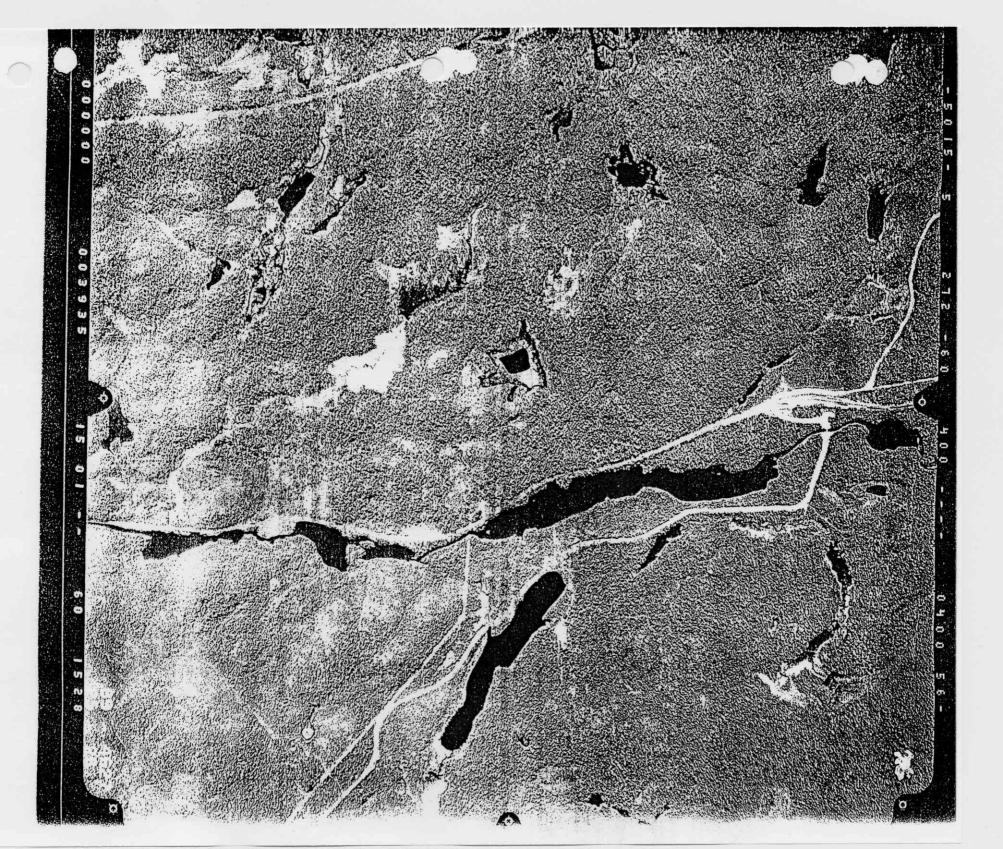












ONTARIO DEPARTMENT OF MINES

PRELIMINARY GEOLOGICAL MAP No. P. 399

HUTTON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1 inch to 1/4 mile

N.T.S. Reference: 41I/14, 41L/15 G.S.C. Aeromagnetic Maps: 1519G 1512G

. LEGEND FOR HUTTON AND PARKIN TOWNSHIPS

CENOZOIC PLEISTOCENE AND RECENT Sand, gravel, clay

Unconformity

PRECAMBRIAN

LATE MAFIC INTRUSIVE ROCKS
15 0livine diabase

Intrusive Contact

NICKEL IRRUPTIVE

14 *14 Quartz diorite (Parkin Offset)

Intrusive Contact

INTRUSIVE ROCKS

#13a Quartz diabase

#13b Diorite

Intrusive Contact

HURONIAN METASEDIMENTS

UNCLASSIFIED HURONIAN
12 12a Quartzite

10

6

COBALT GROUP
Lorrain Formation
*11 Quartzite 11

Gowganda Formation
10a Green quartzite
10b White quartzite
10c Conglowerate

BRUCE GROUP
Serpent Formation
9 Quartzite 9

Espanola Formation
Sa Limestone and marble
*8b Siltstone 8

Bruce Formation 7

7a Conglomerate
7b Quartzite
7c Metapelite
7d Argillite

Mississagi Formation Middle Mississagi 6a 'Quartzite 6b Radioactive quartzite Lower Mississagi

*Sa Quartzite *Sb Radioactive quartz-pebble conglomerate Unconformity; Faulted Contact

PRE-HURONIAN ROCKS

EARLY MAFIC INTRUSIVE ROCKS

3 Trap
3 Hetagabbro
3 Metadiabase

Intrusive Contact

2 Pink granite
2b Gneissic pink granite
2c Grey granite
2d Gneissic grey granite
2d Gneissic grey granite
2e Granite gneiss and migmatites
2f Porphyritic granite
Intrusive Contact

METAVOLCANICS

IF

la Massive mafic metavolcanics
la Massive mafic metavolcanics
lb Pillow lavas
lc Poorly banded mafic to intermediate metavolcanics
dell banded intermediate metavolcanics
le Felsic metavolcanics
lf felsic tuffs and pyroclastic rocks

Iron Formation

4 4 4

Breccia

Not present in Hutton township.

CEOLOGICAL AND MINING SYMBOLS FOR P. 399 and P. 400

×	Glacial	striae.	
---	---------	---------	--

Gneissosity, (horizontal, inclined, vertical).

Small bedrock outcrop. Area of bedrock outcrop.

Foliation; (horizontal, inclined, vertical).

Bedding, top unknown; (inclined, Geological boundary, observed.

Bedding, top (arrow) from cross bedding; (inclined, vertical, overturned).

Geological boundary, position interpreted.

Schistosity; (horizontal, inclined, vertical).

Fault; (observed, assumed).
Spot indicated down throw
side, arrows indicate
horizontal movement.

OH Drill hole; (vertical, inclined)

MINERAL OCCURRENCES REFERENCE

S Sulphide Mineralization U Uranium

LIST OF PROPERTIES AND MINERAL OCCURRENCES
(am of Dec. 31, 1966).

SOURCES OF INFORMATION

Geology by H. D. Neyn and assistants, 1965 and 1966.

Hap No. 41e, Moose Mountain-Wanapitei area, Ontario Dept. Mines,
by L. F. Kindle, 1932.

Geological Maps by National Steel Corp. of Canada, Ltd.

Geol. Rept. No. 1, Uranium and thorium deposits at the base of the
Huronian System in the District of Sudbury, Ontario Dept. Mines,
by J. E. Thomson, 1960).

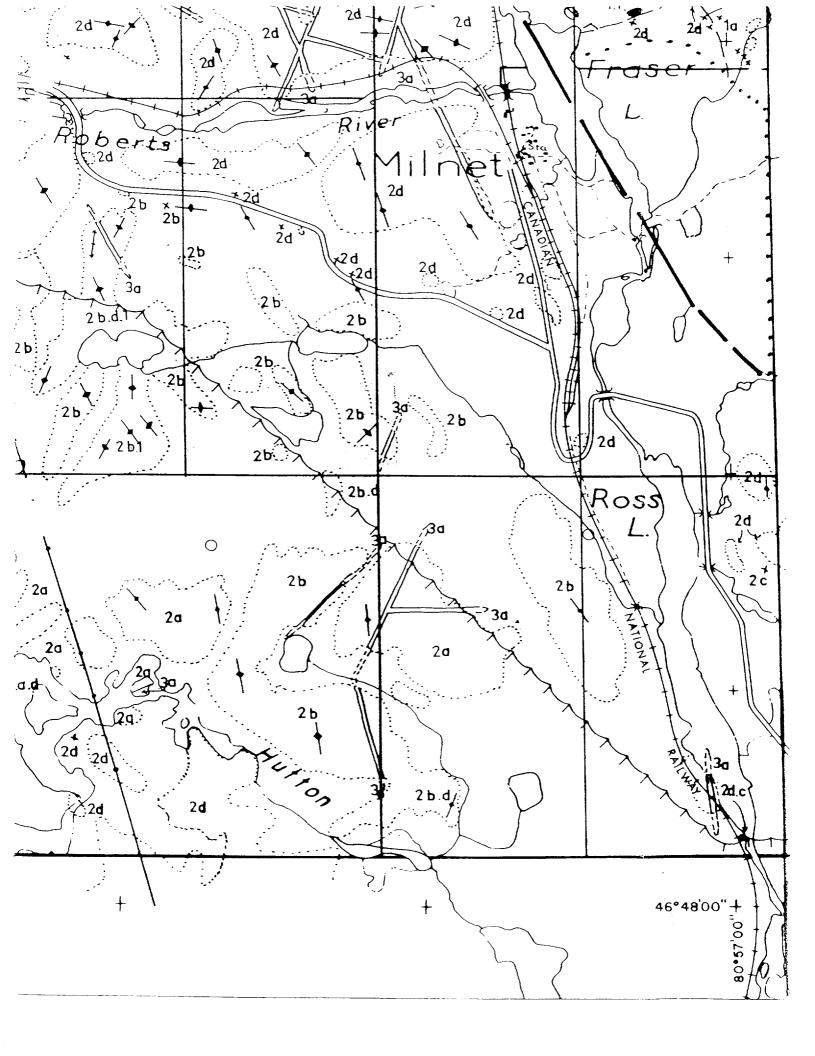
Assessment work on file at the Resident Geologist's Office, Sudbury.

Basemap from maps of the Forest Resources Inventory, Ontario

Dept. Landa and Forests.

Geology not tied to survey lines.

Issued 1967.



ONTARIO DEPARTMENT OF MINES

PRELIMINARY GEOLOGICAL MAP No. P. 400

PARKIN TOWNSHIP

DISTRICT OF SUBBURY

Scale 1 inch to 1/4 mile

K.T.S. Reference: 411/15 G.S.C. Aeromagnetic Map: 15126

LEGEND FOR MUTTON AND PARKIN TOWNSHIPS

OZOIC
PLEISTOCENE AND RECENT
- Sand, gravel, clay
- Unconformity CENUZUIC

PRECAMBRIAN LATE MAFIC INTRUSIVE ROCKS

15 Olivine diabase
Intrusive Contact NICKEL TRRUPTIVE 14 Quartz diorite (Parkin Offset) Intrusive Contact INTRUSIVE ROCKS

13a Quartz diabase 13b Diorite Intrusive Contact

HURONIAN METASEDIMENTS
UNCLASSIFIED MURONIAN
12 12a Quartzite

15

COBALT GROUP
Lorrain Formation
11 Quartzite 11

Gowganda Formation
10a Green quartzite
10b White quartzite
*10c Conglomerate 10

BRUCE GROUP
Serpent Formation
9 Quartzite ė Espanola Formation

• ha Limestone and marble bb Siltstone

Bruce formation
7a Conglomerate
7b Quartzite
*7c Hetapelite
*7d Argillite

Mississagi Formation Middle Mississagi Oa Quartzite *6b Radioactive quartzite Lower Mississagi 0

5 Sa Quartzite
Sb Radioactive quartz-pebble conglomerate
Unconformity; Faulted Contact

FIC ROCKS

2a Pink granite

2b Gneissic pink granite

2c Grey granite

2d Gneissic grey granite

2e Granite gneiss and migmatites

2f Porphyritic granite

Intrusive Contact GRANITIC ROCKS 2 METAVOLCANICS

la Massive mafic metavolcanics

*lb Fillow lavas

lc Poorly banded mafic to intermediate metavolcanics

ld Well banded intermediate metavolcanics

le Felsic metavolcanics

lf Felsic tuffs and pyroclastic rocks 1 II Iron Formation Δ Δ Breccia * Not present in Parkin township

GEOLOGICAL AND MINING SYMBOLS FOR P. 399 and P. 400

Glacial striae. Gneissosity, (horizontal, inclined, vertical). Small bedrock outcrop. Foliation; (horizontal, inclined, vertical). Area of bedrock outcrop. Bedding, top unknown; (inclined, vertical). Geological boundary, observed. Geological boundary, position interpreted. Bedding, top (arrow) from cross bedding; (inclined, vertical, overturned). Fault; (observed, assumed).
Spot indicated down throw side, arrows indicate horizontal movement. Schistosity; (horizontal, inclined, vertical).

O'C Drill hole; (vertical, inclined).

MINERAL OCCURRENCES REFERENCE

S Sulphide Mineralization U Uranium

LIST OF PROPERTIES AND MINERAL OCCURRENCES (as of Dec. 31, 1966)

Milnet Mines Ltd. (past-producing mine 1952-54) Ni, Cu
 Sulphide showing; lot 12, conc. II
 Sulphide showing; lot 12, conc. III (formerly known as FAB Metal property)
 Assembly Mines, Ltd.

SOURCES OF INFORMATION

Geology by H. D. Meyn and assistants, 1966.

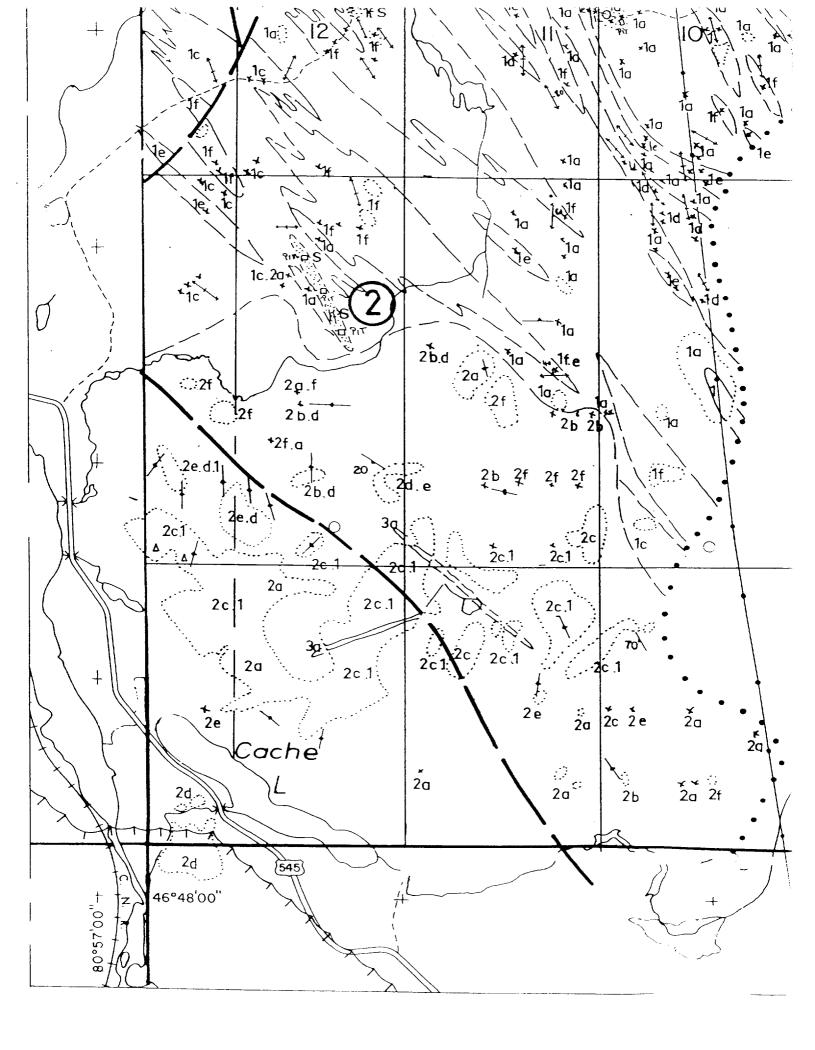
Map No. 4le, Moose Mountain-Wanapitei Area, Ontario Dept. Mines, by L. F. Kindle, 1932.

Geol. Rept. No. 1, Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury, Ontario Dept. Mines, by J. F. Thomson, 1960.

Assessment work on file at the Resident Geologist's Office, Sudbury. Basemap from maps of the Forest Resources Inventory, Ontario Dept. Lands and Forests.

Geology is not tied to survey lines.

Issued 1967.





Naturat

Ministry of Hon. James A. C. Auld

Dr. J. K. Reynolds Resources Deputy Minister

Ontario Geological Survey Map 5001

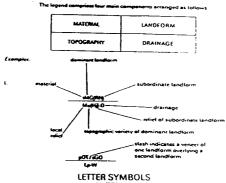
Northern Ontario Engineering Geology Terrain Study

Data Base Map

CAPREOL



ENGINEERING TERRAIN LEGEND



MATERIAL

LANDFORMS

ALLUVIAL AP Alluvial plans

COLLUVIAL

FOLIAN

MORAINAL

ME End morain MG Ground mo MH Hummocky

GLACIOFLUVIAL

GD for contact delta esker delta, tame delta, delta moraine GE Esker, esker complex, or-vasse filling GK Kame, kame field, kame terrace, kame moraine GD-Outwesh plain, valley train

GLACIOLACUSTRINE

LB Reised (abando

ORGANIC OT Organic terrain REDROCK

ED Sand dunes

RL Bedrock plateau RN Bedrock knob RP Bedrock plain RR Bedrock ridge / R Bedrock below a drift veneer

CS Slope failure CT Talus pile CW Slopewash and debris creep sheet; minor falus

TOPOGRAPHY

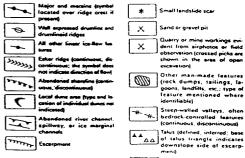
VARIETY

DRAINAGE

SURFACE CONDITION

h Suspected high water table

GRAPHIC SYMBOLS



NOTES (SEE BACK FOR EXPLANATORY NOTES)

Line joining the same terrain units

NOTE 1:

This map is intended to be an inventory of regional engineering terrain conditions, its purpose is to provide a guide for regimening and resource planning functions. The boundaries of the terrain voice shawn on the map are apportunized only, consistent wint a 1:100,000 scale. Sire specific investigations are required in order to obtain detailed information for a particular area. The map use should refer to the accompanying report for a fulfer description of terrain in the study area, methods used and a technical discussion of

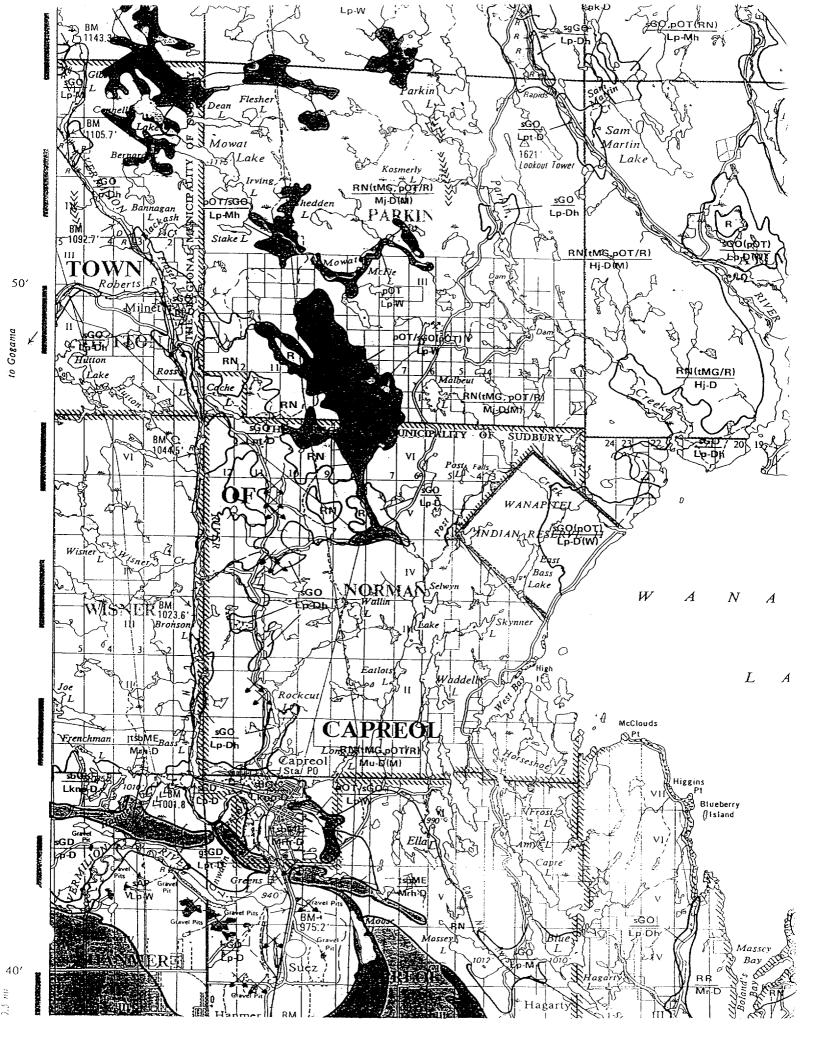
NOTE 2:

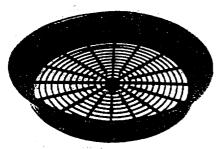
Colour is

mbols shown in the legend necessarily appear on this map

Garmer, J. F.

1978: I Northern Omaria Engineering Geology Terrain Study, Data Base Map. Capraol Onterio Geological Survey, Map 5001, Scale 1, 100, 000 Published 1978





Gold Pan Sieves

New lightweight sieves of durable plastic, guaranteed against breakage. Model GSP-1 fits over our medium (A-45-14) or inside large (A-45-16) plastic pans. Model GSP-2 fits shoots over our small plastic pan (A-45-10). Both sieves screen our waste gravels above 1/4" and can out panning time in half. Catalso be used with any type gold pan of same approx. Sice at our plastic pans.



Classifying Sieves

A must for any level of prospecting Classifier screens classify material before running through sluice boxes or gold pans. This will save time and improve recovery. Screens stack and fit on the top of most 5-gallon buckets. This quality classifying sieve is constructed of tough high-impact elastic and a stainless steel screen. Available in five sizes.

CS-4.4 mesh (%) CS-30.30 mesh CS-8.8 mesh (%) CS-50.50 mesh CS-12.12 mesh.



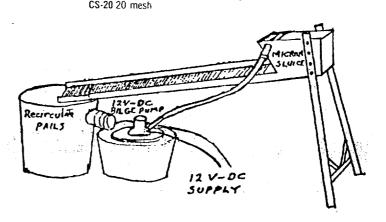
New Super 3-Stage Gold Pan

Three times as fast as a conventional gold pan. The pan has three separate surfaces that perform a specialized task. FIRST—the coarse riffled area is used to "rough out" the majority of the material. SECOND—the textured area is used to pan any remaining black sands. THRD—finally the smooth surface until only gold remains. Green in color and measures. 14" in diameter.



Gold Bottle Sniffer

A handy tool for extracting gold and values from a gold pan with suction. Squeeze bottle and release to draw gold into specimen bottles.



MICRON
GOLD
SEPARATOR

A flour gold separator that really works. Tests run on Saskatchewan River flour gold (all -20 mesh), with the majority being under 100 mesh, have given test results up to $99\frac{1}{2}$ % recovered gold from heavy black sand. Amazing - Yes. This unit will separate gold that is virtually impossible to hand pan.

This light aluminum, highly portable unit comes with fold down legs and is driven by a 12V DC 500 GPH bilge pump with 2 recirculatory pails to operate as a closed circuit (draws very little power - less than 1 amp). Or hook it up to your home water system or in the field to a Keene Engineering pump with the side garden hose fitting. A 12V DC 2 Amp battery trickle charger will run it. The sluice efficiency is based on:

a. The sharp, fine ribs in the sluice provide the proper turbulence vortex to trap the micron gold.

b. The rib mat generates a positive charge to hold the negatively charged gold in a water ph of 4 to 8. Now you know the secret.

This is 1990's technology in action.

The micron separator will only handle -20 mesh concentrate effectively so it must be pre-screened.



FEATURES & ACCESSORIES

MAGNIFICATION * 3.3x - 100.8x depending on eyepiece and objective lens used.

FIELD OF VIEW * 39mm - 2.4mm

WORKING DISTANCE * 95mm.

BODY * 45" inclined binocular tubes for comfortable viewing.

Somm to 72mm interpupillary adjustment.
 Reck and Pinion focusing arrangement.

OBJECTIVES * Built-in 0.6x, 1x, 2x, 4x and 7x

2x auxiliary objective available (but excluded in the standard set) to double the power up to 201.6x

EYEPIECES * Standard with a pair of 14x eyepieces, and an 8x eyepiece

mounted with a crosshair reticle.
Purchase includes either of the following sets of valuable

additional eyepieces at customers choice:

1. A pair of 6x and a pair of 8x eyepieces;

2. A pair of wide field 8x eyepieces.

* A pair of eye guards

LENSES * High quality Achromatic Lenses

STAND

Large metal stand attachable to a diascopic base.
 14.5° pole adjustable to accommodate samples of bigger sizes.
 A black/white stage plate and a transparent glass stage plate, both 100mm diameter, with a pair of removable stage clips.
 A substage reflector with a mirror surface on one side and a white diffusive surface on the other for observing transparent.

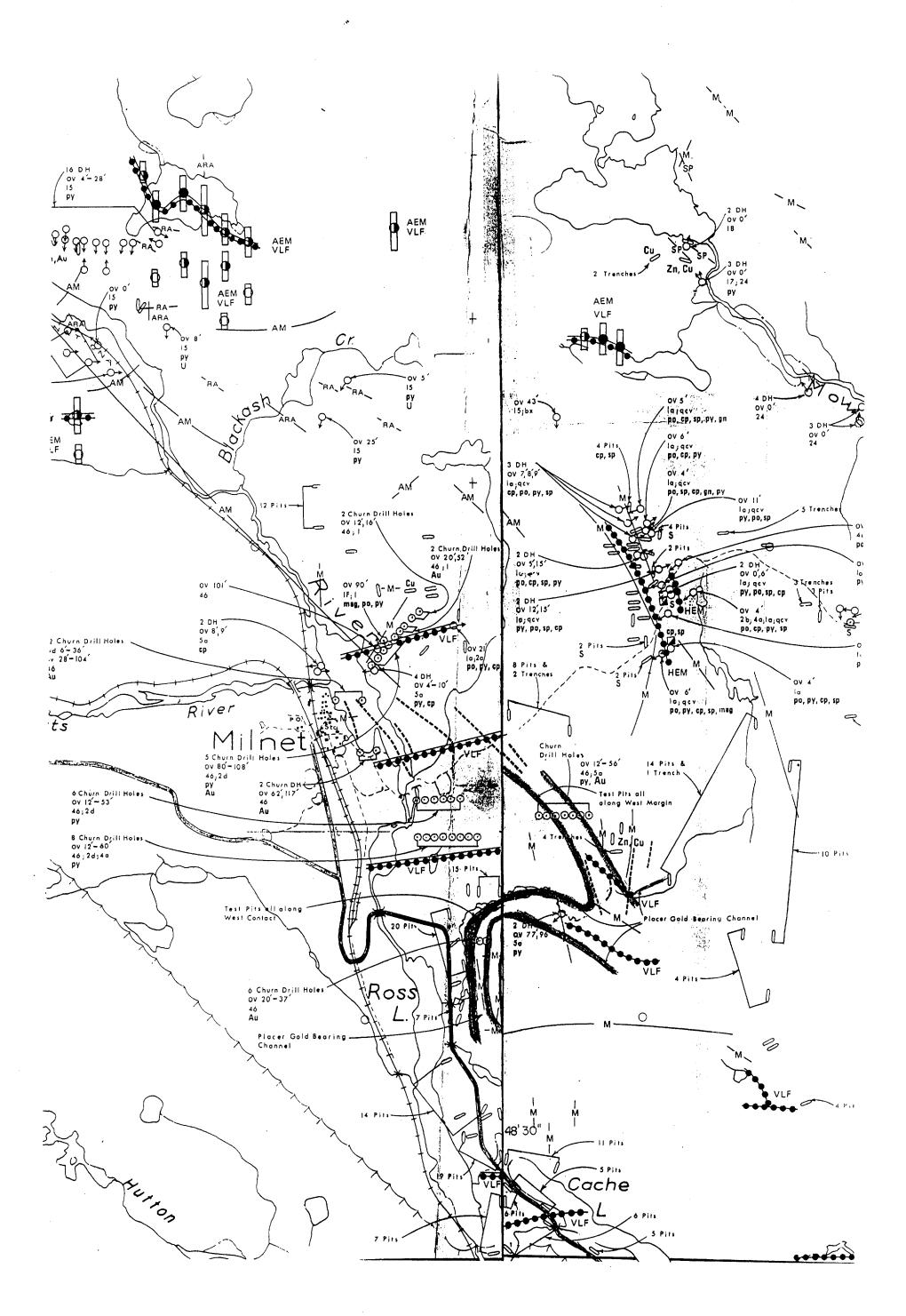
or translucent specimens * A pair of armrests.

 6vac/20w illuminator delivers sufficient illumination for observation in oblique or transmitted light.
 Light intensity adjustable
 With a light condenser and a light filter ILLUMINATION

* 3 incandescent lamps to go together

RETICLES * 1 crosshair already mounted in the 8x eyepiece, and 1 grid reticle

PACKING * 1 unit, 20 tbs. and 1.5 cb.ft. per carton



Names And Addresses Of Prospector Helpers

John Lewis Bill Richardson Billy R. Fowler Michael Charland

Al Lewis Shawn Lewis 848 John Street, Lively Ont. P3Y1M8 6780 Hwy. 17 Box 857 Coniston, Ont.

435 Haig Street, Sudbury Ont. 3 Adam Street, Lively Ont.

2nd fl. 229 Riverside Drive, Sudbury Ont. Apt. 2, 280 Bond Street, Sudbury Ont.



Agent's Address
P.D. BOX 36

Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9870 - DOOS 4
Assessment Files Research Imaging

705-866-1684

Personal information collected on this form is obtained under the authority Mining Act, the information is a public record. This information will be used Questions about this collection should be directed to the Chief Minir 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.



203 HUTTON 900

Instructions: - For work performed - Please type or print	in ink.	a claim, use for [024010]11]12]1[2]2[2]3[3]5
		2.18203
Name		Client Number
GORDON SALO		191069
P.O. BOX 36 ST	N. 'B"	705-866-1437
SUDBURY ONT	. P3E4N3	705-866-1684
Name		Client Number
Address		Telephone Number
		Fax Number
2. Type of work performed: Check	k (>) and report on only ONE of t	he following groups for this declaration.
Geotechnical: prospecting, surve	eys, Physical: drilling 18 (regs)	g, stripping,
Nork Type	ONLY COEDER ATION	Office Use
B" HORIZON SOIL SAMP PROCESSING, HICROSC	pride, preferation	Commodity
COUNTING, STUDY, Philos	prophy, Report Aeperation	Total \$ Value of Work Claimed 84 02
Dates Work Performed From + cc+ 194 Day Month Year	77 To 4 JAN 98	NTS Reference
Global Positioning System Data (if available)	Township/Area Hutton Township	Mining Division Suglement
<u>.</u>	M or G-Plan Number G-4066	Resident Geologist District
- complete and a - provide a map	notice to surface rights holders be attach a Statement of Costs, form (showing contiguous mining lands t pies of your technical report.	fore starting work; 0212;
3. Person or companies who prepare	ared the technical report (Attach	a list if necessary)
GORDON SALO		Telephone Number 705 - 866 - 1437
P.O. BOX 36 STN."	B" SUDBURY, OUT.	705 - 866-1684
lame		Telephone Number
ddress		Fax Number
lame	RECEIVED	Telephone Number
ddress	3/120: 550 00 1000	Fax Number
	7 SO FEB 2 0 1998	
. Certification by Recorded Holde	GEOSCIENCE ASSESSMENT OFFICE r or Agent	
GORDON SA	LO , do hereby certify tha	it I have personal knowledge of the facts set
(Print Name) orth in this Declaration of Assessmen or after its completion and, to the bes		be performed or witnessed the same during port is true.
ignature of Recorded Holder or Agent	7la 20-	Date Feb 17, 1998.

STN. B SUDBURY, ONT. 705-866-1437

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link e eries must accompany this form. Bank. Value of work Mining Claim Number. Or if Value of work Value of work Value of work Number of Claim to be distributed performed on this applied to this assigned to other Units. For other work was done on other eligible claim or other mining claims. at a future date. mining land, list claim. mining land, show in this hectares. mining land 3 column the location number Indicated on the claim map. \$2,825 \$26, 825 N/A \$24,000 TB 7827 16 ha өg 0 1234567 12 0 \$24,000 0 eg \$4,892 0 \$ 4,000 2 \$ 8, 892 1234568 eg 8402. 8. 1118147 1.600. 8394 1 1118148 105. 2 106. 1197240 1 3 1214922 400. • 4 3 1214924 1 200, 5 1197244 400, 6 5 1197241 505. 7 5 1197243 8 400. 5 2 1214923 600. 9 1214925 2 878. -10 5 11 97242 1,200. 11 12 13 14 15 8. 8402. 8394. 8394. Column Totals GORDON SA (Print Full Name) SALO __, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done. Signature of Recorded Holder or Agent Authorized in Writing Feb 17, 1998. low how

6.	Instruction	s for cutting back credits that are not approved.
So	me of the cr	edits claimed in this declaration may be cut back. Please check (-) in the boxes below to sh
yoı	wish to price	pritize the deletion of credits:
		1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
		2. Credits are to be cut back starting with the claims listed last, working backwards; or
		3. Credits are to be cut back equally over all claims listed in this declaration; or
	\square	4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):
	. *	#9.7,3,1.

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only				
Received Stamp	RECEIVED	Deemed Approved Date	Date Notification Sent	
	FEB 20 1998 🔆	Date Approved	Total Value of Credit Approved	
	GEOSCIENCE ASSESSMENT OFFICE	Approved for Recording by Mining R	ecorder (Signature)	

Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Number (office use PROVINCIAL RECORDING OFFICE - SUDBURY

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96 Under section 8 of the Mining Act, the information is a public record. This information will be used to review the subsection with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder. Ministry pt Northard Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 685.

CLAIM NO. 5 1118147 2.	18203	
Work Type Depending on the type of work, list the not hours/days worked, metres of drilling, metres of grid line, number of samples,	kilo-	Total Cost
"B" Horizon Soil Sampling 18 days	150.00	2700,00
Sample preparation - processing 31 days	150.00	4650.00
Report preparation. god 3/2 days	150,00	525.00
Associated Costs (e.g. supplies, mobilization and demobilization	on).	
Flaging tape		5,00
Magic marker		5,50
Measuring thread	,	2,50
Stereo Scopic Microscope 14da	245 7.00	98,00
Transportation Costs		
Vehicle mileage 1230 Km	, 30	369,00
Food and Lodging Costs	50.**	50,00
RECEIVED		
	lue of Assessment Work	8402.00
Calculations of Filing DISCOUNTS! OFFICE		

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.

2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK

 \times 0.50 =

Total \$ value of worked claimed.

Note:

- 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 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.

Certificati	on	verif	ying	costs:
_		_		

___, do hereby certify, that the amounts shown are as accurate as may

reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on

the accompanying Declaration of Work form as

I am authorized

RECORDED HOLDER
(recorded holder, agent, or state company position with signing authority)

to make this certification.

·			
Signature	. (\ 1)) Date	
91	UU	/ - \	- 1000
No	arok mk	· Feb	1 1.1778

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

May 7, 1998

GORDON RICHARD SALO BOX 36, STATION B SUDBURY, Ontario P3E-4N3



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

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

Dear Sir or Madam:

Submission Number: 2.18203

Status

Subject: Transaction Number(s):

W9870.00024 Deemed Approval

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.

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,

ORIGINAL SIGNED BY

Blair Kite

Supervisor, Geoscience Assessment Office

Mining Lands Section

Work Report Assessment Results

Submission Number:

2.18203

Date Correspondence Sent: May 07, 1998

Assessor:Steve Beneteau

Transaction Number

First Claim

Number

Township(s) / Area(s)

Status

Approval Date

W9870.00024

1118147

HUTTON

Deemed Approval

April 29, 1998

Section:

18 Other MICRO

17 Assays ASSAY

Correspondence to:

Resident Geologist

Sudbury, ON

Assessment Files Library

Sudbury, ON

Recorded Holder(s) and/or Agent(s):

GORDON RICHARD SALO

SUDBURY, Ontario