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**REPORT ON MAPPING AND LITHOGEOCHEMICAL
SAMPLING PROGRAM
FOUR CORNERS PROPERTY
CAMBIOR INC.
BY
M.V.W.WHITE & ASSOCIATES LTD**

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• September 10, 1991

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SUMMARY

Mapping and lithogeochemical sampling commenced on the property July 5, 1991. To date a total of 35 days were spent mapping on the property. 145 lithogeochemical samples of representative rock types, including several carbonate zones and some gold bearing (?) quartz-carbonate shears were collected.

Geological maps were prepared at 1:10,000 and 1:5000 scale and comprise, outcrop geology, claim information, airborne and ground EM conductors from previous work, diamond drill locations from previous work etc. A 1:10,000 compilation of the First vertical derivative of government airborne magnetic data and selected information from the geological map was also prepared.

The geology comprises mostly massive rhyolite flows and voluminous quantities of Northwest-Southeast trending (120-130 degrees) pyroclastic flows, breccias and tuffs. The felsic package is the product of repeated episodes of Archean subaqueous caldera volcanism.

Local carbonate, sericite, chlorite and silica alteration are prevalent.

Genetically related mafic-intermediate intrusives occupy the eastern part of the property and probably represent part of a resurgent caldera dome.

Structurally the property is quite complex. Faults follow the main regional dyke directions and are strongly evident as offsets in the magnetic trends. Early structures that controlled volcanism are believed to follow these trends.

The main fold axes are represented by a strong East-West (95 degrees) to Northwest-Southeast (115-120 degrees) foliation. Stratigraphy for the most part dips steeply south.

At this time results of lithogeochemical sampling are not available. Final rock type classification and alteration interpretation remains pending. Classification at this time is limited to Chevron data for the central part of the property.

Outcrop textures combined with Chevron chemical data indicate a siliceous rhyolite dome with local K₂O enrichment in the central part of the property. The remainder of the felsic volcanics sampled appear rhyolitic but low in silica.

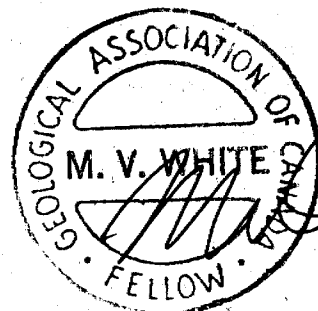
Economically mineralized zones have not so far been discovered however, the potential for a massive Copper-Zinc sulphide orebody remains excellent.

Diamond drilling by Granges, Conwest and Chevron intersected anomalous copper and zinc values in felsic tuffs/breccias in the North-West and North central parts of the property. However, drilling was done oblique to stratigraphy to intersect conductors parallel to the North-South dyke trends. The most interesting metal values are associated with a tuffaceous zone and hydrothermal breccia overlying massive felsic quartz-feldspar porphyry, a typical volcanogenic sulphide environment.

Drill core from only one drill hole has been found. An attempt should be made to find the 1988, Granges core, as this would provide additional geological information prior to further exploration drilling.

Outcrop in the Northeast corner of the property should also be mapped to provide additional geological and geochemical data.

An initial exploration program of linecutting, overburden drilling, and 2000 metres of diamond drilling accompanied by down-hole geophysics is recommended to test the above sulphide trend. This program will cost approximately \$375,000.





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TABLE OF CONTENTS

	PAGE
Summary	
Introduction.....	1
Location and Access.....	2
Previous Work.....	2
Regional Geology.....	5
Property Geology.....	7
Felsic Lava.....	7
Proclastic Flows/Tuffs.....	7
Intermediate Intrusives.....	8
Diabase.....	8
Alteration.....	8
Structural Geology.....	8
Lithogeochemistry.....	9
Geophysics.....	9
Economic Geology.....	9
Exploration Model.....	10
Recommendations.....	10
Estimated Budget.....	11

References..... 12
Certificates of Qualifications..... 13

Appendix 1
Sample Identification

List of Figures

Figure 1 Property Location 3
Figure 2 Claim Location..... 4
Figure 3 Distribution of Siliceous Rhyolites and Exploration Model.6

List of Maps

Geological Compilation 1:10,000

Geological Compilation

Turnbull 2 1:5,000

Turnbull 3 1:5,000

Carscallen 9 1:5,000

Claims Location

Turnbull 2 1:5,000

Turnbull 3 1:5,000

Carscallen 9 1:5,000

INTRODUCTION

At the request of Michel Gilbert of Cambior Inc. of Val D'Or, Quebec, White and Associates mapped and sampled the Four Corners property in Turnbull and Carscallen Townships, east of Timmins, Ontario and prepared this report.

Mapping commenced on the property on July 5, 1991. Approximately 35 days were spent on the property. Mapping was done by M. White and R. Sproule. R. Norman assisted with the mapping and sampling for 9 days. Two days were spent using an ATV trying to access outcrop in the Northeast part of the property. This attempt was unsuccessful due to poor terrain conditions.

Apart from the upper Northeast corner most of the outcrop on the property was mapped and sampled. Outcrops were located from previous work in the area and tied into previously cut lines and to claim lines.

The 1985 Chevron grid was found adequate for mapping however, considerable time was spent locating old pickets. A hip chain was used to measure from known picket locations. Outside the area of the old Chevron grid a (ProNav GPS 100) satellite positioning device was used to locate larger outcrops. These were tied into outcrop locations mapped by previous workers (Esso, etc.)

Maps have been prepared from field information and all available data from the assessment files, at 1:5000 and 1:10,000 scale.

Dykes and structures have, for the most part, been interpreted from the regional aeromagnetic data.

This report is based on mapping, interpretation of previous geological work and interpretation of government aeromagnetic data, Thematic Mapper satellite data and available airborne and ground EM data.

LOCATION AND ACCESS

The property comprises 1640 acres in 101 claims located in Turnbull and Carscallen Townships. Location and claim numbers are indicated on Fig. 2. The property lies 20 km west of the city of Timmins (Fig: 2)

Access is available by a gravel logging road that runs north from highway 101 and traverses the centre of the property.

A forestry skidder trail that traverses up to 2 claims north of the gravel road is the only other access. Trails outlined of earlier maps and Topo sheets no longer exist.

PREVIOUS WORK

Mapping and prospecting commenced in the general property areas as early as 1912 (ODM Reports 1912, 1927).

In 1952, Kennco Exploration performed mapping and sampling within the property area. Low gold and copper values were reported.

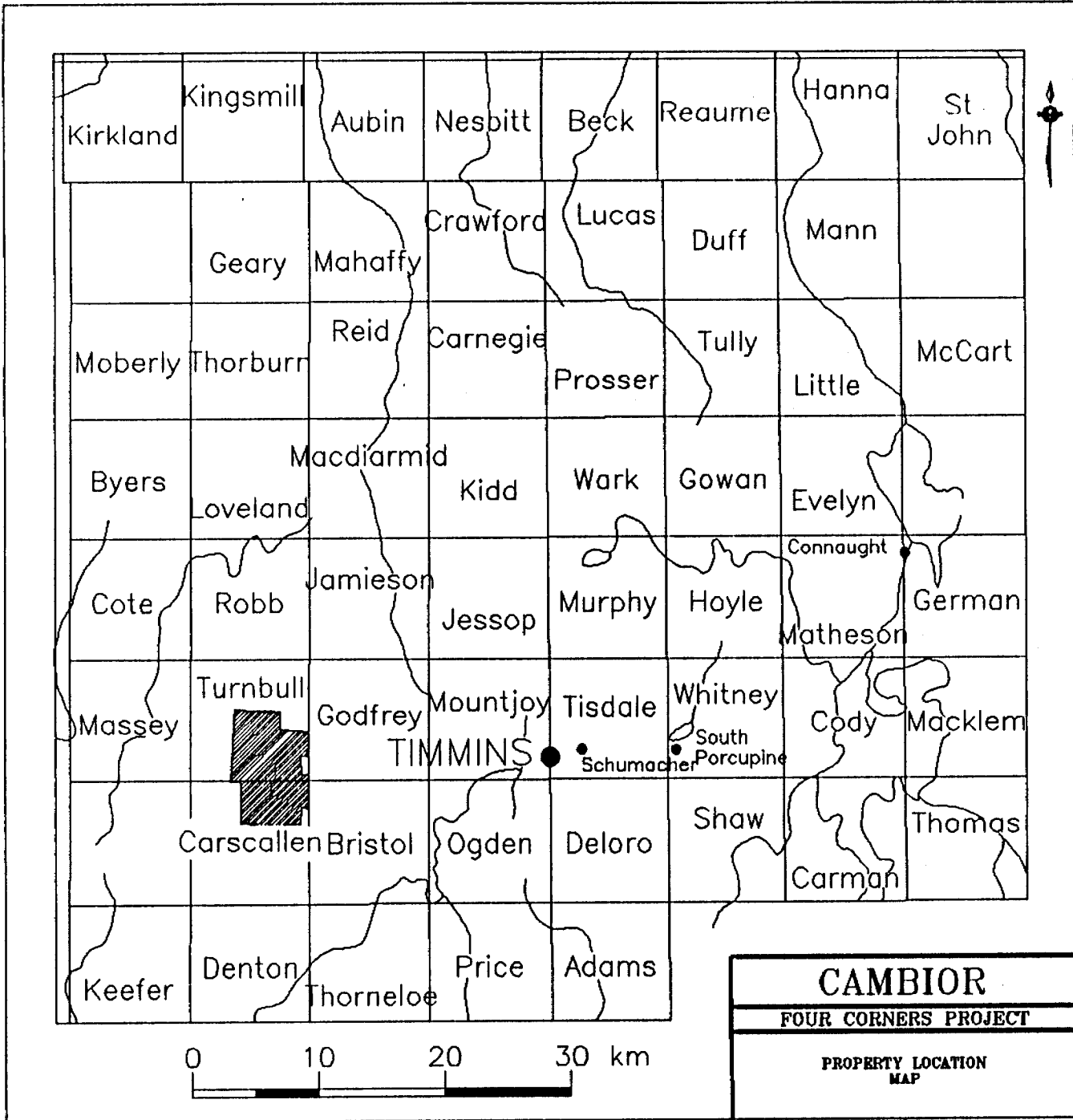
In 1962 Alsof Mines Ltd. mapped the property. Gold values ranging from 0.36 to 0.5 oz/ton Au in narrow quartz veins were reported.

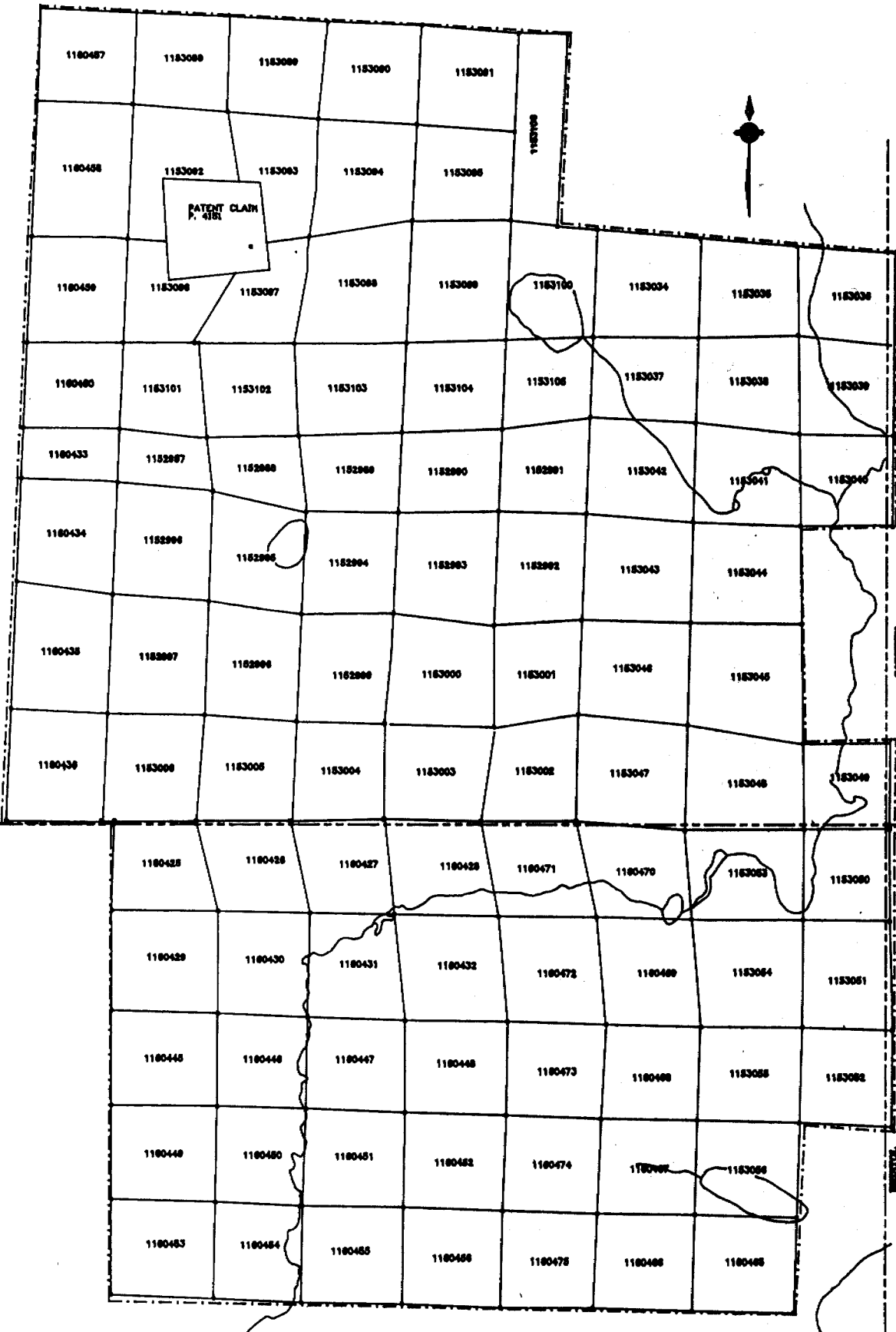
In 1965 Larchmont Mines performed mapping and geophysical surveys within the property area. Two holes were drilled immediately east of the Northeast corner of Carscallen Township with low Au values reported.

Between 1974 and 1976 Conwest performed exploration for massive sulphide within the property area. Airborne anomalies at the North west boundary of the claim block and in the North central part of the property were tested by 4 diamond drill holes. All holes intersected sulphide mineralization. Hole #3 intersected 79 feet of anomalous Cu (250-3300ppm). Hole #4 intersected 4 feet of 1300ppm Cu.

In 1984-1985 Chevron Canada Resources acquired an interest in a group of claims covering part of the property area.

Chevron commissioned a 2 direction Airborne Mag and EM survey, followed by linecutting, geological mapping, litho geochem survey, a limited soil geochem survey and drilling of 2 DDH.





CAMBIOR

FOUR CORNERS PROJECT

CLAIMS LOCATION
MAP

The diamond drilling was done in the vicinity of Conwest's hole #5, and intersected massive and disseminated sulphides, exceeding 1% Cu-Zn.

In 1986 Esso Resources optioned a group of claims in Northeast Carscallen Township. The work undertaken by Esso consisted of linecutting, geological mapping, ground Mag, VLF and diamond drilling. No significant assays were reported.

In 1988 Granges Exploration Ltd. optioned a group of 37 claims in Southwest Turnbull Township. Two small grids were cut on the property and horizontal loop EM survey and diamond drilling were subsequently carried out.

A total of 6 diamond drill holes were completed. Two were collared on an old gold showing, with no results, and the remainder were spotted in the vicinity of Chevron's 2 diamond drill holes. Anomalous copper and gold values were reported.

REGIONAL GEOLOGY

Apart from the Timmins gold camp, outcrop areas and within the immediate are of massive sulphide deposits the geology of the Timmins area is very poorly known. Government geology maps are outdated and even though core from thousands of drill holes is stored in the Timmins Core Library this information has not been compiled.

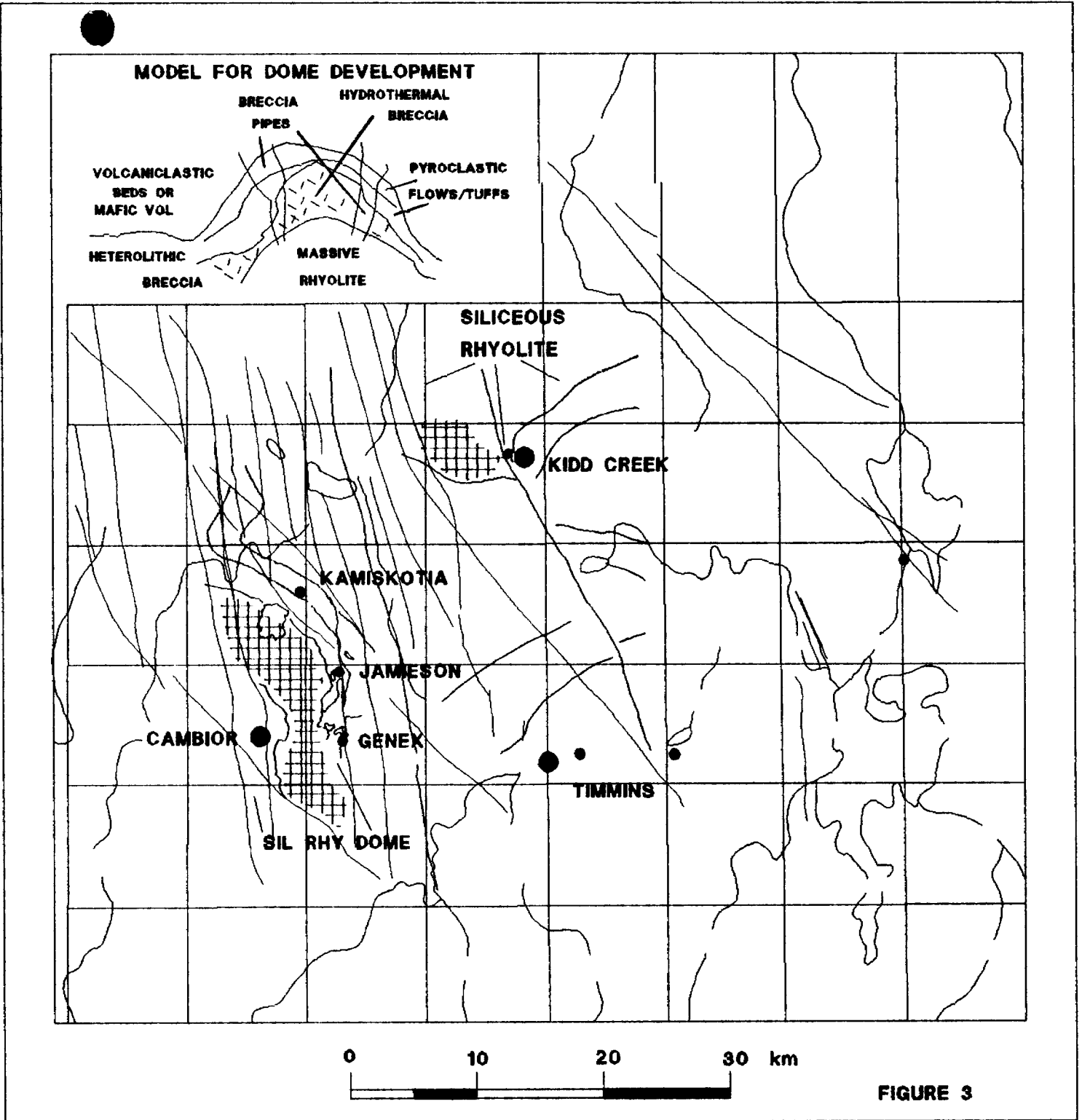
Generally ultramafic and basaltic volcanics underlie the area. These are inturn overlain by massive and pyroclastic rhyolites that again are overlain by basalts and volcanoclastic sediments.

The volcanics are the products of rift related volcanism (bimodal mafic, ultramafic and rhyolitic volcanics) and caldera volcanism (extensive pyroclastic-ignimbrite sequences).

Structurally the area is extremely complex. Major North-South structures in places offset the strigraphy by up to several kilometres. Compilation of magnetic and EM data suggests complex folding along generally East-West fold axes.

Massive sulphide deposits in the area occur associated with siliceous rhyolite domes and pyroclastic breccias. The distribution of known siliceous felsic volcanics is illustrated in Fig.3 (based on WR litho geochemistry). The writer believes positioning of the felsics to be controlled by an Archean rifting and submarine caldera or failed caldera development. Intersections of rifting and crosscutting faults controlled the emplacement of rhyolite domes and subsequent massive sulphide deposition.

Mineralization was accompanied by intense hydrothermal alteration resulting in silica (80-90%), potash (5-13%) enrichment and local chlorite alteration (chlorite pipes).



PROPERTY GEOLOGY

The property is underlain by predominantly caldera related felsic volcanics comprising massive lava flows, fragmental pyroclastic flows and tuffs and less common agglomeritic breccias. Massive mafic to intermediate (diorite and quartz diorite) intrude the felsic volcanics and late gabbro and/or diabase dykes cross cut the property in Northwest-Southeast and North-South directions.

Felsic volcanic sequences appear to be repetitive but this may be structurally related.

Stratigraphy generally trends at approximately 120 degrees and dips steeply south. Massive rhyolites and coarse breccias represent proximal source areas. These appear most common in the southern part of the property.

Felsic Lavas

These rocks are generally massive fine grained grey to white felsic rocks, locally flow banded. Locally they are autobrecciated. Quartz phenocrysts or quartz and feldspar phenocrysts are common.

Rocks are mostly of rhyolitic composition.

Massive lava flows are distinguished from pyroclastic flows by the general lack of lithic fragments though recognition of distinguishing textures is difficult to determine on the weathered outcrop surface, unless the matrix is more altered than the fragments.

Pyroclastic Flows/Tuffs

Pyroclastic flows vary from fine grained quartz feldspar rocks with occasional lithic inclusions to pyroclastic breccias with abundant lithic fragments from 1 cm to 10 cm in size. Tuffaceous interbeds are common. Lithic fragments may be of variable composition and are generally angular to rounded and elongate parallel to the regional foliation.

Locally coarse breccias with angular blocks up to one metre in size suggest proximity to volcanic vents.

Intermediate Intrusions

Depending on the degree of chlorite alteration these rocks vary from dark green to greenish white. Rocks are generally medium grained. Locally carbonate (calcite-ankerite) alteration is common. Quartz eyes attest to the more intermediate composition of the rocks. Composition range from diorite to quartz diorite.

Diabase

Two ages of diabase are present crossing the property an earlier Northwest-Southeast trending phase and a late North-South trending phase. Regional magnetic trends reflect the dyke locations. Dykes tend to reflect the predominant structural trends.

Alteration

Visible alteration comprises chlorite, carbonate, sericite and local areas of silicification. Felsic lava and pyroclastic flows are variably altered. Sericite alteration is locally pervasive giving the rocks a greenish yellow tinge.

Chlorite-ankerite alteration is also locally pervasive especially in the matrix of some fragmental flows and within the intermediate intrusives. The fragmental nature of pyroclastic felsic rocks is more easily recognized as less altered siliceous fragments stand out in the altered matrix.

Intense chlorite alteration also occurs in the vicinity of a Cu, Zn massive sulphide stringer zone intersected in the north central part of the property by earlier Granges and Chevron drilling.

STRUCTURAL GEOLOGY

Stratigraphy generally trends Northwest-Southeast (120-130 degrees) and dips steeply South (70-80 degrees). A subparallel regional foliation (95-120 degrees) reflects the predominant structural (fold axis) trend.

Crosscutting structures trend parallel to regional dyke directions. Both structures and dyke directions are reflected by the magnetics.

LITHOGEOCHEMISTRY

At this time results of the Cambior lithochemical sampling have not been received. Some revision of hydrothermal alteration and rock classification can be expected from this data.

Geochemical analyses from the central part of the property are available from the Chevron work. This data indicates a siliceous volcanic dome in the central part of the property area with local potash enrichment. Local potash enrichment also occurs in the Northwest central part of the property.

Further comment on this subject is reserved until all the data can be analysed.

GEOPHYSICS

1:10,000 scale geology and magnetic maps illustrate compilation of available geophysical data. Airborne and ground EM predominantly trends North-South at margins of diabase dykes. This may reflect remobilization of sulphides within the stratigraphy by dyke intrusion.

ECONOMIC GEOLOGY

To date no economic mineralization has been found on the property. However, anomalous gold and base metal values and rock types that typically host volcanogenic sulphides indicate the potential of the property.

Known gold values occur in the intermediate intrusives and are related to narrow quartz veinlets, local shearing and carbonate alteration. Potential major structures have never been tested.

Volcanic base metal mineralization has been detected in previous drilling by Conwest, Chevron and Granges. The most obvious massive sulphide potential occurs in the northern part of the property trending along strike (120 degrees) from a mineralized (Cu-Zn) silicified tuff-breccia horizon and chloritic massive sulphide stringer zone. Silicified tuffs and breccias with anomalous base metal values overly a massive quartz-feldspar porphyry; a typical volcanogenic sulphide environment. Previous drilling on the property has been generally East-West testing conductors that trend parallel to

North-South dykes. Potential stratiform targets have therefore been inadequately tested.

EXPLORATION MODEL

Volcanogenic sulphides can be expected to have formed from hydrothermal activity accompanying the emplacement of massive rhyolite domes. Hydrothermal alteration is reflected in intense silica and potash enrichment. Felsic rocks show compositions up to 90% SiO₂ and 13% K₂O. Local chloritic alteration is also characteristic.

Dome development would be expected to occur at intersecting structures, particularly with early rift zones.

Known siliceous rhyolite horizons and a general expected volcanogenic model are illustrated in Fig. 3. These trends probably outline zones of rifting and subsequent submarine caldera formation and will likely control any economic massive sulphide deposits.

RECOMMENDATIONS

The most immediate target is the potential massive sulphide that extends across the north central part of the property. The area previously tested is dissected by several diabase dykes represented by a magnetic high and also intersected by drilling. Core from only one of the previous drill holes has been located in the Timmins Core Library. An attempt should be made to try and locate 1988 Granges drill core as this could enhance the geological picture in the area prior to additional drilling.

At least 2000 metres of drilling is recommended to test the volcanic stratigraphy for geology and massive sulphide mineralization. Pulse EM should be considered to test drill holes for proximity to massive sulphides.

Overburden drilling may be considered to get a better handle on the geology and locate possible mineral trains in the glacial till. Overburden drilling may better locate areas for diamond drilling.

Sufficient linecutting should be considered to locate drill holes and to map outcrop in the Northeast part of the property.

An initial program costing \$375,000 is outlined below.

ESTIMATED BUDGET

Linecutting 50 km @ \$400.00/km	\$ 8,000.00
Overburden Drilling 50 holes @ \$3,000.00 average 30 m depth	\$50,000.00
Diamond Drilling 2000 metres @ \$70.00/m	\$140,000.00
Geologist 2 months @ \$6,000.00/month	\$ 12,000.00
Supervision 2 months @ \$4,000.00/month	\$ 8,000.00
Lithogeochem Assays 200 samples @ \$30.00/each WR, Au, Cu, Zn	\$ 6,000.00
Downhole Geophysics	\$ 10,000.00
Drafting and Report	\$ 5,000.00
Miscellaneous supplies	\$ 2,000.00
	<hr/>
	\$341,000.00
Administration- Contingency 10%	\$ 34,000.00
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	\$375,000.00

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Area

Ministry of Northern Development & Mines, Timmins Office Assessment
Files:


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- T 825 1964 Alsof Mines Ltd. Geology report by A.C.A.Howe
- T 1053 1965 Larchmont Mines Limited report by R. Bradshaw
- T 1658 1974-1976 Conwest report by C.C.Lord
- T 2904 1984-1985 Chevron Canada Resources report by
S.Fumerton
- T 3047 1986 ESSO Resources Ltd. report by J.Macpherson
- T 3223 1989 Granges Inc report by staff

CERTIFICATE OF QUALIFICATION

I, Richard M. Sproule, of the city of Timmins, in the Province of Ontario, do declare that:

1. I am a consulting geologist presently associated with M.V.White & Associates Ltd.
2. I am a graduate of Dalhousie University having received a B.Sc. in 1979.
3. I have been working as a geologist full and part time since 1975 and am a fellow of the Geological Association of Canada
4. I was present and assisted in the mapping of property discussed in this report.
5. I have no interest either directly or indirectly in the property described in this report or the securities of Cambior Inc.

September 10, 1991


Richard M. Sproule

CERTIFICATE

I certify that:

- (a) My name is Michael V.W. White with office address at 637 Algonquin Blvd. E., Timmins, Ontario, P4N 7N2.
- (b) I am a graduate of McMaster University, Hamilton, Ontario with a BSc in geology and chemistry and McGill University, Montreal, Quebec with an MSc in petrology and economic geology. I am a fellow of the Geological Association of Canada. I have been practising my profession continuously for twenty four years.
- (c) I am the writer of this report dated September 10, 1991.
- (d) I have no interest, direct or indirect, in this property or in Cambior Inc., for whom this report is written, nor do I expect to receive any interest at a future date.

Timmins, Ontario
September 10, 1991



Michael V.W. White
Geologist

APPENDIX I

SAMPLE IDENTIFICATION

SAMPLE IDENTIFICATION AND DESCRIPTION

Assay Sample Number	Grab Sample Number	Rock Description
A 45651	1	Dark green medium grained Diabase? containing 20% qtz & 20% fspar.
A 45652	2	Pale - medium green porphyritic Intermediate to felsic volcanic
A 45653	3	Pale grey green, sheared felsic volcanic with Minor hematite, Ankerite; carb altered
A 45654	4	Medium green felsic volcanic
A 45655	5	Medium grey/green felsic volcanic
A 45656	6	Pale green banded rhyolite
A 45657	7	Grey massive cherty rhyolite
A 45658	8	Pale green felsic fragmental with ankerite & qtz. vienlets 3-5mm wide
A 45659	9	Pale grey green spherulitic volcanic
A 45660	10	Pale green-buff rhyolite/weakly banded
A 45661	11	Pale grey-green fragmental felsic volcanic with minor ankerite
A 45662	12	Dark green medioum grained intrusive Diorite?
A 45663	13	Medium-dark green chlorite schist? with Py. ankerite & carb 1-2% med. -fine grained
A 45664	14	Pale grey green massive rhyolite
A 45665	15	Medium green massive rhyolite
A 45666	16	Dark grey green massive rhyolite
A 45667	17	" " " " "
A 45668	18	Pale grey green fragmental felsic volcanic with <1%Py & 2%= carb & ankerite
A 45669	19	Medium green fine grained fragmental felsic volcanic
A 45670	20	Dark green medium grained intrusive Quartz Diorite?
A 45671	21	Diabase
A 45672	22	Light pink/green fragmental felsic volcanic
A 45673	23	Dark green, medium to fine grained mafic-intermediate intrusive 15% carb Diorite?
A 45674	24	Buff fragmental felsic volcanic <1% Py.
A 45675	25	Dark green mafic-intermediate volcanic with 5-7% qtz eyes
A 45676	26	Tan fragmental felsic volcanic; fragments are f.g. <3mm avg.
A 45677	27	Light pink/tan fragmental felsic volcanic
A 45678	28	Medium to dark green intermediate-mafic volcanic

SAMPLE IDENTIFICATION AND DESCRIPTION

Assay Sample Number	Grab Sample Number	Rock Description
A 45679	29	Medium grey green felsic volcanic with <1% fine grained Py.; highly sheared
A 45680	30	Light grey massive rhyolite
A 45681	30A	Medium grey green sheared felsic volcanic
A 45682	30B	Medium grey felsic volcanic (feldspar porphyry?) w/inclusions of grn & white minerals, chloritic
A 45683	31	Medium grey green qtz. diorite w/ carb and 1-2% Py.
A 45684	32	Pale grey felsic fragmental; frags avg. 1cm.
A 45685	33	Medium grey green sheared felsic volcanic w/1% qtz eyes (tuff)
A 45686	34	Dark green qtz. diorite
A 45687	35	Medium grey massive felsic volcanic w/ <1% Py.
A 45688	35b	Pale grey sheared felsic volcanic
A 45689	36	Medium grey felsic volcanic, mildly sheared w/ <1% Py. and carb.
A 45690	37	Diorite? diabasic textured
A 45691	38	Medium grey massive felsic volcanic
A 45692	39	Medium grey, moderately sheared felsic volcanic w/ trace Py.
A 45693	40	Medium grey mildly sheared felsic volcanic (tuff) w/ 5-10% qtz eyes
A 45694	41	Medium grey green fragmental felsic fragmental; frags very fine grained avg. <5mm; minor carb
A 45695	42	Medium grey green fragmental felsic volcanic with a carb & chlorite matrix
A 45696	43	Dark green diorite? minor carb
A 45697	44	Medium grey green fragmental felsic volcanic w/ carb & chlorite matrix; frags. avg. 4cm+ similar composition
A 45698	45	Medium-dark green intermediate to felsic volcanic
A 45699	46	Quartz Diorite with carb and trace Py.
A 45700	47	Quartz Diorite with carb and trace Py.
A 45851	48	Quartz Diorite
A 45852	49	Medium green fresh Qtz Diorite? tr. Py.
A 45853	50	Medium green silicified Qtz Diorite? tr. Py.
A 45854	51	Medium green fresh Diorite

SAMPLE IDENTIFICATION AND DESCRIPTION

Assay Sample Number	Grab Sample Number	Rock Description
A 45855	52	Dark green/black diabase with chlorite Py. and carb; minor shearing
A 45856	53	Medium green diabase + Qtz carb, & Py.; moderately sheared
A 45857	54	Medium green massive rhyolite
A 45858	55	Medium green rhyolite tr-2% Py. Qtz viens + carb
A 45859	56	Rhyolite with trace carb & Py.; sheared
A 45860	57	Dark green Qtz diorite w/chlorite
A 45861	58	Medium-dark green Qtz diorite
A 45862	59	Medium green strongly sheared carb altered int-felsic volcanic or Qtz diorite?; trace Py.
A 45863	60	Felsic tuff carb altered with tr. Py.
A 45864	61	Felsic tuff? with Qtz carb alteration and minor pyrite
A 45865	62	Medium-dark green Qtz Diorite w/ tr Py. and carb
A 45866	63	Medium grey felsic tuff sugary Qtz. w/carb
A 45867	64	Medium to dark green Qtz Diorite?; hematite stained w/tr. Py.
A 45868	65	Dark green chloritic Qtz diorite
A 45869	66	Medium grey green felsic fragmental
A 45870	67	Medium grey rhyolitic tuff w/ tr. Py.
A 45871	68	Medium grey felsic fragmental
A 45872	69	Medium grey green quartz eye tuff
A 45873	70	Pale grey-tan Qtz eye tuff w/ carb and trace Py.
A 45874	71	Pale grey-tan Qtz eye tuff w/carb and tr. Py.
A 45875	72	Pale grey/green felsic fragmental sheared with sericite
A 45876	73	Pale grey green rhyolitic tuff with tr. Py.
A 45877	74	Dark grey green banded rhyolite
A 45878	75	Dark grey green rhyolitic tuff w/Qtz eyes and tr. carb
A 45879	76	Pale grey rhyolitic tuff w/Qtz eyes and tr. Py.
A 45880	77	Pale green grey felsic tuff w/carb & tr. Py.
A 45881	78	Dark gray green sheared cherty rhyolite
A 45882	79	Medium grey green-tan felsic tuff w/carb
A 45883	80	Pale green/tan-brown rhyolite +/- carb and hematite staining
A 45884	81	Pale green/tan banded rhyolite

SAMPLE IDENTIFICATION AND DESCRIPTION

Assay Sample Number	Grab Sample Number	Rock Description
A 45885	82	Medium grey green banded rhyolite
A 45886	83	Medium grey green massive rhyolite w/ weak carb alteration
A 45887	84	Green massive rhyolite with tr. carb in fractures
A 45888	85	Pale green-tan felsic fragmental (rhyolitic) car in matrix
A 45889	86	Medium grey green Quartz feldspar porphyry
A 45890	87	Dark green Quartz feldspar porphyry
A 45891	88	Pale grey green quartz porphyry
A 45892	89	Dark green medium grained gabbro (diorite?)
A 45893	90	Medium green quartz feldspar porphyry w/ tr. carb & Py.
A 45894	91	Medium grey green Quartz feldspar porphyry w/ tr. Py.
A 45895	92	Medium Grey green Quartz feldspar porphyry
A 45896	93	Medium green feldspar porphyry
A 45897	94	Pale grey green felsic fragmental
A 45898	95	Tan-light grey felsic fragmental
A 45899	96	Medium grey green felsic fragmental
A 45900	97	Medium grey green Quartz feldspar porphyry
A 45901	98	Dark green-black diabase
A 45902	99	Medium grey green fine grained Quartz feldspar porphyry
A 45903	100	Medium green/brown Quartz porphyry w/tr. carb & Py.
A 45904	101	Medium green Quartz feldspar porphyry
A 45905	102	lost sample
A 45906	103	Light grey Quartz porphyry w/ carb.
A 45907	104	Medium green Quartz feldspar porphyry
A 45908	105	Dark green Feldspar porphyry w/ tr.Py.
A 45909	106	Dark green Quartz diorite? w/tr. chlorite
A 45910	107	Medium-dark green porphyritic (feldspar) Qtz. diorite
A 45911	108	Medium green Quartz porphyry
A 45912	109	Dark grey green Quartz feldspar porphyry w/ tr. Py & carb.
A 45913	110	Medium grey sheared felsic tuff w/ small quartz eyes
A 45914	111	Medium grey Quartz porphyry
A 45915	112	Medium grey/green felsic tuff w/ quartz eyes and tr. carb.
A 45916	113	Grey/green Quartz porphyry fine grained

SAMPLE IDENTIFICATION AND DESCRIPTION

Assay Sample Number	Grab Sample Number	Rock Description
A 45917	114	Quartz feldspar porphyry
A 45918	115	" " "
A 45919	116	" " "
A 45920	117	" " "
A 45921	118	Medium grey green fine grained Quartz feldspar porphyry
A 45922	119	Medium grey tuffaceous felsic fragmental w/ tr. cpy, Py Zn?, and carb
A 45923	120	Medium grey felsic tuff
A 45924	121	Medium grey felsic tuff w/ <1% very fine grained Py.
A 45925	122	Medium grey green Quartz feldspar porphyry w/ tr. Py and carb
A 45926	123	Medium grey green felsic tuff w/ carb & tr. Py.
A 45927	124	Dark-medium green/grey felsic Quartz eye tuff w/carb
A 45928	125	Medium grey green Quartz feldspar porphyry w/ carb (tuffaceous)
A 45929	126	Medium green Quartz eye tuff (felsic) w/ sericite & tr. Py. & carb.
A 45930	127	Medium green Quartz feldspar porphyry tuff
A 45931	128	Pale grey green Quartz eye tuff w/ tr. Py. & hematite on fractures
A 45932	129	Dark-medium green felsic tuff w/ tr. carb
A 45933	130	Medium-pale green felsic Quartz eye tuff w/ carb
A 45934	131	Medium grey/brown felsic Quartz eye tuff (rhyolitic)
A 45935	132	Light grey very fine grained (rhyolitic) tuff w/ quartz eye and carb
A 45936	133	Medium grey green Rhyolitic tuff w/ carb
A 45937	134	Medium grey felsic tuff w/ carb
A 45938	135	Buff-pale grey felsic tuff w/qtz eyes & tr. carb.
A 45939	136	Medium green felsic tuff (rhyolitic) w/ tr. Py.
A 45940	137	Light grey felsic tuff w/ carb
A 45941	138	" " " " " "
A 45942	139	lost sample
A 45943	140	Pale grey green tuffaceous rhyolite w/ tr. carb

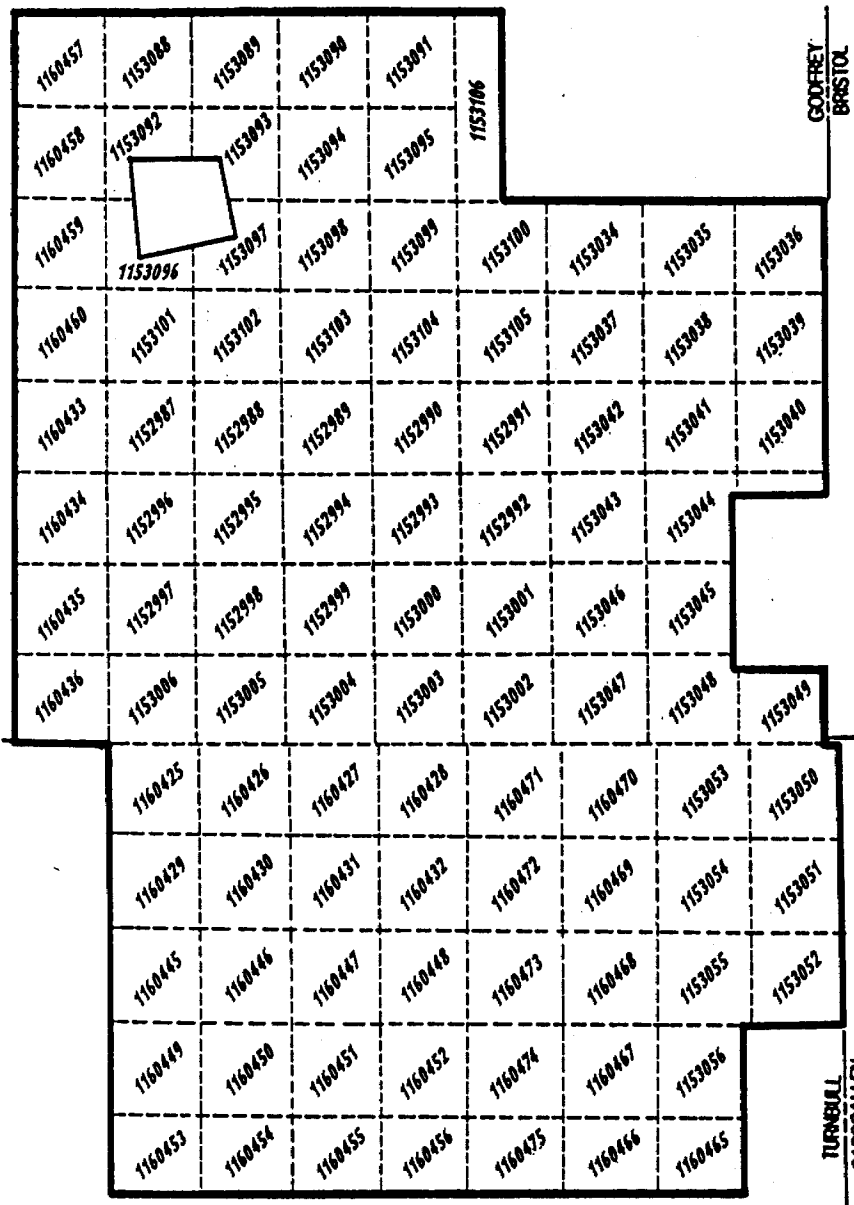
SAMPLE IDENTIFICATION AND DESCRIPTION

Assay Sample Number	Grab Sample Number	Rock Description
A 45944	141	Pale grey green tuffaceous rhyolite w/ tr. carb
A 45945	142	Grey green massive rhyolite
A 45946	143	Buff-pale green felsic tuff with minor carb and tr. sericite
A 45947	144	lost sample
A 45948	145	Pale grey green tuffaceous rhyolite w/carb



GENERAL
EAGLE

OUR CORNERS
BAMBOR INC.

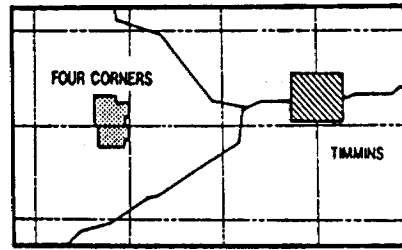


ASTRONOMIQUE

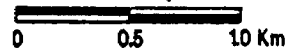
TURNBULL
CARSCALLLEN

GODFREY
BRISTOL

TURNBULL
CARSCALLLEN



FOUR CORNERS Project claims map



DATE DE L'IMPRESSION: 23-SEP-91

APPORT: C91-60874.0 (COMPLET)

PROJET: 225

PAGE 1B

UMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au PPR	As PPM	Sb PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM	Hg PPB	CO2 PCT	Ba PPM
2 108001		<5	1.5	<0.2	258	<2	54	2	0.2	<5	0.09	489
2 108002		<5	<1.0	<0.2	31	<2	54	3	<0.1	<5	0.04	138
2 108003		<5	1.8	<0.2	72	<2	71	2	<0.1	<5	0.11	879
2 108004		<5	12.0	<0.2	31	<2	67	2	0.2	<5	0.04	116
2 108005		<5	<1.0	<0.2	230	<2	58	2	0.1	<5	0.12	55
2 108006		<5	11.0	<0.2	2	<2	66	2	<0.1	<5	0.20	100
2 108007		<5	<1.0	<0.2	17	<2	67	2	0.2	<5	0.13	78
2 108008		<5	<1.0	<0.2	99	<2	40	3	0.2	<5	<0.01	272
2 108009		<5	<1.0	<0.2	59	<2	49	3	<0.1	<5	0.03	125
2 108010		<5	<1.0	<0.2	256	<2	67	3	0.2	<5	0.16	283
2 108011		<5	<1.0	<0.2	118	<2	59	4	0.3	<5	<0.01	203
2 108012		<5	<1.0	<0.2	44	<2	59	2	<0.1	<5	0.10	301
2 108013		<5	<1.0	<0.2	33	<2	65	2	<0.1	<5	0.25	182
2 108014		<5	<1.0	<0.2	50	3	57	2	0.2	<5	0.03	124
2 108015		<5	2.8	<0.2	334	<2	62	4	0.3	<5	0.35	50
2 108016		37	172.0	<0.2	3802	<2	341	29	3.2	<5	0.52	24
2 108017		<5	<1.0	<0.2	117	<2	47	3	<0.1	<5	0.45	21
2 108018		7	<1.0	<0.2	18	<2	73	2	0.2	<5	1.96	22
2 108019		9	4.6	<0.2	8	<2	57	3	<0.1	<5	2.75	231
2 108020		<5	<1.0	<0.2	3	<2	55	2	<0.1	<5	1.38	17
2 108021		<5	<1.0	<0.2	4	<2	57	2	<0.1	<5	2.41	65
2 108022		<5	<1.0	<0.2	3	<2	50	2	0.3	<5	1.11	34

2.14402

CHIMITEC LEE
700 Rue N... mblay
Ste-Foy, Qué... 31N 4H7
(418) 683-1777
FAX: (418) 683-7791

CHIMITEC LEE

RAPPORT D'ANALYSE
GÉOCHIMIQUE

DATE DE L'IMPRESSION: 23-SEP-91

RAPPORT: C91-60874.0 (COMPLET)

PROJET: 225

PAGE 1A

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	SiO2 PCT	TiO2 PCT	AL2O3 PCT	Fe2O3A PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT
D2 108001		48.83	1.09	14.56	14.30	0.16	6.54	9.48	2.76	1.12	<0.01	2.30	101.15
D2 108002		69.68	0.78	11.75	6.40	0.07	2.57	2.75	4.61	<0.01	0.11	1.34	100.07
D2 108003		46.76	1.10	13.74	15.56	0.21	8.86	9.59	1.81	1.47	<0.01	2.38	101.48
D2 108004		51.43	1.80	16.78	11.38	0.17	4.96	8.39	4.38	<0.01	0.24	1.74	101.28
D2 108005		48.02	1.65	14.79	14.12	0.19	6.22	10.20	3.65	<0.01	0.23	1.86	100.92
D2 108006		48.54	1.54	12.48	13.08	0.21	8.01	8.22	3.02	0.04	0.09	1.79	97.03
D2 108007		48.66	1.49	11.60	14.35	0.22	9.96	8.49	2.84	<0.01	0.07	2.12	99.80
D2 108008		56.15	0.70	14.57	12.47	0.07	3.44	5.32	3.89	0.34	0.11	2.50	99.55
D2 108009		58.46	0.73	15.32	10.88	0.07	3.56	4.29	4.30	0.05	0.14	2.44	100.23
D2 108010		51.55	0.73	14.02	18.47	0.06	2.69	4.15	3.32	0.35	0.04	3.88	99.24
D2 108011		54.15	0.70	13.66	18.84	0.05	2.51	3.95	3.40	0.19	0.02	3.63	101.11
D2 108012		59.88	0.79	15.32	10.36	0.05	2.46	4.67	3.71	0.44	0.09	2.03	99.80
D2 108013		60.42	0.81	15.58	10.04	0.07	3.16	4.73	3.83	0.29	0.12	2.32	101.36
D2 108014		59.89	0.82	15.10	10.39	0.06	2.77	3.01	5.44	0.03	0.13	2.21	99.85
D2 108015		58.40	0.75	14.97	11.47	0.06	2.42	3.15	5.84	<0.01	0.06	2.18	99.31
D2 108016		43.31	1.00	17.81	17.99	0.19	7.65	5.39	2.09	<0.01	<0.01	4.38	99.82
D2 108017		61.01	0.78	16.03	7.17	0.08	2.57	4.72	4.93	<0.01	0.13	1.48	98.89
D2 108018		59.08	0.76	14.68	8.61	0.09	2.57	3.78	5.72	<0.01	0.13	2.76	98.18
D2 108019		58.41	0.75	15.40	5.77	0.07	3.12	4.31	5.46	0.60	0.16	3.24	97.30
D2 108020		59.91	0.79	15.79	4.98	0.07	2.76	4.32	6.20	<0.01	0.15	2.52	97.49
D2 108021		60.16	0.82	15.43	4.06	0.06	2.42	4.10	6.69	0.09	0.18	3.31	97.31
D2 108022		60.63	0.85	15.95	4.53	0.07	3.16	3.14	6.85	<0.01	0.20	2.34	97.72

DATE DE L'IMPRESSION: 23-SEP-91

RAPPORT: C91-60874.0 (COMPLET)

PROJET: 225

PAGE 1B

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au PPB	As PPM	Sb PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM	Hg PPB	CO2 PCT	Ba PPM
2 108001		<5	1.5	<0.2	258	<2	54	2	0.2	<5	0.09	489
2 108002		<5	<1.0	<0.2	31	<2	54	3	<0.1	<5	0.04	138
2 108003		<5	1.8	<0.2	72	<2	71	2	<0.1	<5	0.11	879
2 108004		<5	12.0	<0.2	31	<2	67	2	0.2	<5	0.04	116
2 108005		<5	<1.0	<0.2	230	<2	58	2	0.1	<5	0.12	55
2 108006		<5	11.0	<0.2	2	<2	66	2	<0.1	<5	0.20	100
2 108007		<5	<1.0	<0.2	17	<2	67	2	0.2	<5	0.13	78
2 108008		<5	<1.0	<0.2	99	<2	40	3	0.2	<5	<0.01	272
2 108009		<5	<1.0	<0.2	59	<2	49	3	<0.1	<5	0.03	125
2 108010		<5	<1.0	<0.2	256	<2	67	3	0.2	<5	0.16	283
2 108011		<5	<1.0	<0.2	118	<2	59	4	0.3	<5	<0.01	203
2 108012		<5	<1.0	<0.2	44	<2	59	2	<0.1	<5	0.10	301
2 108013		<5	<1.0	<0.2	33	<2	65	2	<0.1	<5	0.25	182
2 108014		<5	<1.0	<0.2	50	3	57	2	0.2	<5	0.03	124
2 108015		<5	2.8	<0.2	334	<2	62	4	0.3	<5	0.35	50
2 108016		37	172.0	<0.2	3802	<2	341	29	3.2	<5	0.52	24
2 108017		<5	<1.0	<0.2	117	<2	47	3	<0.1	<5	0.45	21
2 108018		7	<1.0	<0.2	18	<2	73	2	0.2	<5	1.96	22
2 108019		9	4.6	<0.2	8	<2	57	3	<0.1	<5	2.75	231
2 108020		<5	<1.0	<0.2	3	<2	55	2	<0.1	<5	1.38	17
2 108021		<5	<1.0	<0.2	4	<2	57	2	<0.1	<5	2.41	65
2 108022		<5	<1.0	<0.2	3	<2	50	2	0.3	<5	1.11	34

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DATE DE L'IMPRESSION: 23-SEP-91

RAPPORT: C91-60874.0 (COMPLET)

PROJET: 225

PAGE 1A

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	SiO2 PCT	TiO2 PCT	AL2O3 PCT	Fe2O3A PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT
02 108001		48.83	1.09	14.56	14.30	0.16	6.54	9.48	2.76	1.12	<0.01	2.30	101.15
02 108002		69.68	0.78	11.75	6.40	0.07	2.57	2.75	4.61	<0.01	0.11	1.34	100.07
02 108003		46.76	1.10	13.74	15.56	0.21	8.86	9.59	1.81	1.47	<0.01	2.38	101.48
02 108004		51.43	1.80	16.78	11.38	0.17	4.96	8.39	4.38	<0.01	0.24	1.74	101.28
02 108005		48.02	1.65	14.79	14.12	0.19	6.22	10.20	3.65	<0.01	0.23	1.86	100.92
02 108006		48.54	1.54	12.48	13.08	0.21	8.01	8.22	3.02	0.04	0.09	1.79	97.03
02 108007		48.66	1.49	11.60	14.35	0.22	9.96	8.49	2.84	<0.01	0.07	2.12	99.80
02 108008		56.15	0.70	14.57	12.47	0.07	3.44	5.32	3.89	0.34	0.11	2.50	99.55
02 108009		58.46	0.73	15.32	10.88	0.07	3.56	4.29	4.30	0.05	0.14	2.44	100.23
02 108010		51.55	0.73	14.02	18.47	0.06	2.69	4.15	3.32	0.35	0.04	3.88	99.24
02 108011		54.15	0.70	13.66	18.84	0.05	2.51	3.95	3.40	0.19	0.02	3.63	101.11
02 108012		59.88	0.79	15.32	10.36	0.05	2.46	4.67	3.71	0.44	0.09	2.03	99.80
02 108013		60.42	0.81	15.58	10.04	0.07	3.16	4.73	3.83	0.29	0.12	2.32	101.36
02 108014		59.89	0.82	15.10	10.39	0.06	2.77	3.01	5.44	0.03	0.13	2.21	99.85
02 108015		58.40	0.75	14.97	11.47	0.06	2.42	3.15	5.84	<0.01	0.06	2.18	99.31
02 108016		43.31	1.00	17.81	17.99	0.19	7.65	5.39	2.09	<0.01	<0.01	4.38	99.82
02 108017		61.01	0.78	16.03	7.17	0.08	2.57	4.72	4.93	<0.01	0.13	1.48	98.89
02 108018		59.08	0.76	14.68	8.61	0.09	2.57	3.78	5.72	<0.01	0.13	2.76	98.18
02 108019		58.41	0.75	15.40	5.77	0.07	3.12	4.31	5.46	0.60	0.16	3.24	97.30
02 108020		59.91	0.79	15.79	4.98	0.07	2.76	4.32	6.20	<0.01	0.15	2.52	97.49
02 108021		60.16	0.82	15.43	4.06	0.06	2.42	4.10	6.69	0.09	0.18	3.31	97.31
02 108022		60.63	0.85	15.95	4.53	0.07	3.16	3.14	6.85	<0.01	0.20	2.34	97.72

Les renseignements personnels contenus dans la présente formule sont recueillis : toute question sur la collecte de ces renseignements au chef provincial des terrains 4^e étage, Sudbury (Ontario) P3E 6A5; téléphone : (705) 870-7284.



900

- Directives :
- Dactylographier ou écrire en lettres moulées.
 - Se reporter à la Loi sur les mines et aux règlements d'évaluation ou consulter le registrateur de claims.
 - Remplir une formule pour chaque groupe de travaux.
 - Joindre à la présente formule deux exemplaires des rapports techniques et des cartes.
 - Joindre à la présente formule une esquisse indiquant les claims ayant fait l'objet des travaux.

Titulaire(s) enregistré(s) CAMBIOR INC. C.P. 9999		N° de client 114783
Adresse 1076, 3^e Avenue Est Val d'Or (Québec) Canada J9P 6M1		N° de téléphone (819) 637-2161
Division des mines Timmins (Ontario)	Canton/secteur Turnbull et Carscallen	N° de plan M ou G
Dates d'exécution des travaux du : 5 Juillet 1991		au : 10 Septembre 1991

Travaux exécutés (cocher un seul groupe de travaux)

Groupe de travaux	Genre
Levé géotechnique	Cartographie <i>Geology</i>
Travaux physiques, y compris forage	
Réhabilitation	
Autres travaux autorisés	
Essais	Echantillonnage <i>Arrière 1991</i>
Valeur transférée de la réserve	

RECORDED
OCT 28 1991
Receipt _____

RECEIVED
DEPT. OF MINES

Total des travaux d'évaluation réclamé sur le relevé des frais ci-annexé 40 400,00 \$

Nota : Le ministre peut rejeter une partie ou la totalité des travaux d'évaluation présentés pour obtenir des crédits d'évaluation si le titulaire enregistré ne peut vérifier les dépenses réclamées sur le relevé des frais dans les trente jours suivant une demande de vérification.

Les personnes et la compagnie d'arpentage qui ont exécuté les travaux (donner le nom et l'adresse de l'auteur du rapport)

Nom	Adresse
M.V.W. White & Associates Ltd	637 Algonquin boulevard East
	P.O. Box 1430
	Timmins (Ontario)
	P4N 7N2

(Joindre une annexe au besoin)

Certification d'intérêt bénéficiaire * Voir la note n° 1 au verso

Je certifie qu'au moment où les travaux ont été exécutés, les claims dont il est question dans le présent rapport étaient enregistrés au nom de leur titulaire actuel ou détenus à titre bénéficiaire par l'actuel titulaire enregistré.	Date 21 oct 91	Titulaire enregistré ou représentant (Signature) <i>Serge Lehouiller</i>
--	--------------------------	---

Certification du rapport sur les travaux exécutés

Je certifie que j'ai une connaissance directe des faits exposés dans le présent rapport, pour avoir exécuté les travaux ou en avoir constaté l'exécution avant ou après leur achèvement. Je certifie aussi que le rapport ci-annexé est exact.

Nom et adresse du certificateur Serge Lehouiller B.G. 205 Destor (Québec) J9X 5A3		
N° de téléphone (819) 637-2161	Date 18 Octobre 1991	Certifié par (signature) <i>Serge Lehouiller</i>

Réservé au ministère

Valeur totale des crédits enregistrés 40,400	Date d'enregistrement OCT. 28/91	Registrateur de claim <i>S. White</i>	Cashel REURCOPINE MINING DIVISION RECEIVED MAIL OCT 28 1991 <i>3:20 pm</i>
	Date de l'approbation prévue JAN. 26/91	Date d'approbation 	
	Date d'envoi de l'avis de modification 		



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des mines

Statement of Costs
for Assessment Credit

État des coûts aux fins
du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction

W9160.00246

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	28040,00	
	Field Supervision Supervision sur le terrain		28040,00
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type <i>Geochem</i> Echantillons	1121,92	
			1121,92
Supplies Used Fournitures utilisées	Type <i>Computer</i> Ordinateur	955,00	
	Dessins & reproduction	3786,19	
	Matériel de terrain	210,72	
	Taxation	2375,01	7326,92
Equipment Rental Location de matériel	Type Camion et gaz	247,00	indirect
	<i>Transport</i> Transport	900,80	indirect
			1147,80
	Total Direct Costs Total des coûts directs		37636,64

2. Indirect Costs/Coûts indirects

Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Hélicoptère	625,00	
	2 voyages/ Cambior inc.	355,00	
	Supervision/ administration	1300,00	
			2280,00
Food and Lodging Nourriture et hébergement		483,36	483,36
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			2763,36
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excedant pas 20 % des coûts directs)			7527,33
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			40400,00
Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			34227,33

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MAIL
OCT 28 1991
3:20 pm

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
x 0.50 =	

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
x 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as _____ I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de technicien senior je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature: Serge Lavoie Date: 21 oct. 1991



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mining Lands Branch
Geoscience Approvals Section
159 Cedar Street, 4th Floor
Sudbury, Ontario
P3E 6A5

Toll Free: 1-800-465-3880
Telephone: (705) 670-7264
Fax: (705) 670-7262

Our File: 2.14402
Your File: W9160-00246

Mining Recorder
Ministry of Northern Development
and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

March 16, 1992

Dear Sir:

**SUBJECT: APPROVAL OF ASSESSMENT WORK SUBMITTED ON MINING CLAIMS
P 1152987 ET AL TURNBULL & CARSCALLEN TWP.**

The deficiencies within your report of work (W9160-00246) have been rectified.

The Assessment Work Credits for the Geological Survey, section 12 and Assays section 17, Mining Act Regulations, submitted on the above work report have been approved as of March 9, 1992.

The enclosed assessment credit form supersedes the one filed as part of the Notice of Deficiency dated January 23, 1992.

Please indicate this approval on your records.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

ATAA/jl

Enclosures:

cc: Assessment Files Office
Toronto, Ontario

Resident Geologist
Timmins, Ontario

STATEMENT OF COST

DIRECT COST

Labour		\$ 28,040.00
G. S. T		<u>\$ 1,962.80</u>
	Total	\$ 30,002.80
Contractor/Consultant fee:		
Report-drafting and plots		\$ 2,835.50
G. S. T.		<u>\$ 198.48</u>
	Sub Total	\$ 3,033.98
Assays		<u>\$ 1,121.92</u>
	Total	\$ 4,155.90
Supplies		
Gas	\$	25.00
Phone calls, faxes etc.	\$	65.50
Photo copies	\$	36.00
Folders	\$	14.40
HP Paintjet	\$	45.00
Insert maps	\$	<u>90.00</u>
	Sub Total	\$ 275.90
G. S. T.	\$	19.31
Field supplies	\$	<u>210.72</u>
	Total	\$ 505.93

Equipment Rentals

Computer time	\$	955.00
Imaging time	\$	<u>140.00</u>
	Sub Total	\$ 1,095.00
G. S. T.	\$	<u>76.65</u>
	TOTAL	\$ 1,171.65

Total of Direct Costs \$35,836.28

INDIRECT COST

Transportation	
Mileage	\$ 900.80
Truck Rental	\$ 107.00
ATV	<u>\$ 115.00</u>
	Sub Total
	\$ 1,122.80
G. S. T.	<u>\$ 78.59</u>
	Sub Total
	\$ 1,201.39
Cambior Trips	<u>\$ 355.00</u>
	Total
	\$ 1,556.39
Supervision	
	\$ 1,300.00
Food and Lodging	\$ 483.36

Total of Indirect Cost \$3,339.75
20% of direct Cost \$7,170.21

TOTAL EXPENSES \$ 39,177.00 (rounded off)

ASSESSMENT WORK CREDIT

FILE NUMBER: 2.14402

DATE: March 16, 1992

RECORDER' S REPORT NUMBER: W9180-00246

RECORDED HOLDER: Cambior Inc.

CLIENT NUMBER: 114783

TOWNSHIP OR AREA: Turnbull & Carscallen Townships.

1) Assessment Credit for Geology Survey over 101 mining claims.

Total Assessment Credit claimed: \$40,400.00

Level of Assessment Credit to be Approved on March 9, 1992 is \$ 39,177.00

CLAIM NO.	VALUE OF ASSESSMENT WORK DONE ON CLAIM	VALUE APPLIED TO THIS CLAIM	VALUE ASSIGNED FROM CLAIM
P 1152987	\$ 653.00	\$ 388.00	\$ 265.00
P 1152988	\$ 653.00	\$ 388.00	\$ 265.00
P 1152989	\$ 653.00	\$ 388.00	\$ 265.00
P 1152990	\$ 653.00	\$ 388.00	\$ 265.00
P 1152991	\$ 0.00	\$ 388.00	\$ 0.00
P 1152992	\$ 653.00	\$ 388.00	\$ 265.00
P 1152993	\$ 653.00	\$ 388.00	\$ 265.00
P 1152994	\$ 653.00	\$ 388.00	\$ 265.00
P 1152995	\$ 653.00	\$ 388.00	\$ 265.00
P 1152996	\$ 653.00	\$ 388.00	\$ 265.00
P 1152997	\$ 0.00	\$ 388.00	\$ 0.00
P 1152998	\$ 653.00	\$ 388.00	\$ 265.00
P 1152999	\$ 653.00	\$ 388.00	\$ 265.00
P 1153000	\$ 653.00	\$ 388.00	\$ 265.00
P 1153001	\$ 653.00	\$ 388.00	\$ 265.00

Camboir Inc.
March 16, 1992

P 1153002	\$ 653.00	\$ 388.00	\$ 265.00
P 1153003	\$ 653.00	\$ 388.00	\$ 265.00
P 1153004	\$ 653.00	\$ 388.00	\$ 265.00
P 1153005	\$ 653.00	\$ 388.00	\$ 265.00
P 1153006	\$ 0.00	\$ 388.00	\$ 0.00
P 1153034	\$ 653.00	\$ 388.00	\$ 265.00
P 1153035	\$ 0.00	\$ 388.00	\$ 0.00
P 1153036	\$ 0.00	\$ 388.00	\$ 0.00
P 1153037	\$ 653.00	\$ 388.00	\$ 265.00
P 1153038	\$ 0.00	\$ 388.00	\$ 0.00
P 1153039	\$ 0.00	\$ 388.00	\$ 0.00
P 1153040	\$ 0.00	\$ 388.00	\$ 0.00
P 1153041	\$ 0.00	\$ 388.00	\$ 0.00
P 1153042	\$ 653.00	\$ 388.00	\$ 265.00
P 1153043	\$ 653.00	\$ 388.00	\$ 265.00
P 1153044	\$ 0.00	\$ 388.00	\$ 0.00
P 1153045	\$ 0.00	\$ 388.00	\$ 0.00
P 1153046	\$ 653.00	\$ 388.00	\$ 265.00
P 1153047	\$ 653.00	\$ 388.00	\$ 265.00
P 1153048	\$ 653.00	\$ 388.00	\$ 265.00
P 1153049	\$ 653.00	\$ 388.00	\$ 265.00
P 1153050	\$ 653.00	\$ 388.00	\$ 265.00
P 1153051	\$ 653.00	\$ 388.00	\$ 265.00
P 1153052	\$ 0.00	\$ 388.00	\$ 0.00
P 1153053	\$ 653.00	\$ 388.00	\$ 265.00
P 1153054	\$ 653.00	\$ 388.00	\$ 265.00
P 1153055	\$ 653.00	\$ 388.00	\$ 265.00
P 1153056	\$ 653.00	\$ 388.00	\$ 265.00
P 1153088	\$ 0.00	\$ 388.00	\$ 0.00
P 1153089	\$ 0.00	\$ 388.00	\$ 0.00
P 1153090	\$ 0.00	\$ 388.00	\$ 0.00
P 1153091	\$ 0.00	\$ 388.00	\$ 0.00
P 1153092	\$ 0.00	\$ 388.00	\$ 0.00
P 1153093	\$ 0.00	\$ 388.00	\$ 0.00
P 1153094	\$ 653.00	\$ 388.00	\$ 265.00
P 1153095	\$ 653.00	\$ 388.00	\$ 265.00
P 1153096	\$ 653.00	\$ 388.00	\$ 265.00
P 1153097	\$ 653.00	\$ 388.00	\$ 265.00
P 1153098	\$ 653.00	\$ 388.00	\$ 265.00
P 1153099	\$ 653.00	\$ 388.00	\$ 265.00
P 1153100	\$ 0.00	\$ 388.00	\$ 0.00
P 1153101	\$ 653.00	\$ 388.00	\$ 265.00

March 16, 1992
Camboir Inc.

P 1153102	\$ 653.00	\$ 388.00	\$ 265.00
P 1153103	\$ 653.00	\$ 388.00	\$ 265.00
P 1153104	\$ 653.00	\$ 388.00	\$ 265.00
P 1153105	\$ 653.00	\$ 388.00	\$ 265.00
P 1153106	\$ 0.00	\$ 388.00	\$ 0.00
P 1160425	\$ 0.00	\$ 388.00	\$ 0.00
P 1160426	\$ 653.00	\$ 388.00	\$ 265.00
P 1160427	\$ 653.00	\$ 388.00	\$ 265.00
P 1160428	\$ 653.00	\$ 388.00	\$ 265.00
P 1160429	\$ 0.00	\$ 388.00	\$ 0.00
P 1160430	\$ 0.00	\$ 388.00	\$ 0.00
P 1160431	\$ 653.00	\$ 388.00	\$ 265.00
P 1160432	\$ 653.00	\$ 388.00	\$ 265.00
P 1160433	\$ 0.00	\$ 388.00	\$ 0.00
P 1160434	\$ 0.00	\$ 388.00	\$ 0.00
P 1160435	\$ 0.00	\$ 388.00	\$ 0.00
P 1160436	\$ 0.00	\$ 388.00	\$ 0.00
P 1160445	\$ 0.00	\$ 388.00	\$ 0.00
P 1160446	\$ 0.00	\$ 388.00	\$ 0.00
P 1160447	\$ 653.00	\$ 388.00	\$ 265.00
P 1160448	\$ 653.00	\$ 388.00	\$ 265.00
P 1160449	\$ 0.00	\$ 388.00	\$ 0.00
P 1160450	\$ 0.00	\$ 388.00	\$ 0.00
P 1160451	\$ 653.00	\$ 388.00	\$ 265.00
P 1160452	\$ 653.00	\$ 388.00	\$ 265.00
P 1160453	\$ 0.00	\$ 388.00	\$ 0.00
P 1160454	\$ 0.00	\$ 388.00	\$ 0.00
P 1160455	\$ 653.00	\$ 388.00	\$ 265.00
P 1160456	\$ 0.00	\$ 388.00	\$ 0.00
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P 1160458	\$ 0.00	\$ 388.00	\$ 0.00
P 1160459	\$ 653.00	\$ 388.00	\$ 265.00
P 1160460	\$ 0.00	\$ 388.00	\$ 0.00
P 1160465	\$ 653.00	\$ 387.00	\$ 266.00
P 1160466	\$ 0.00	\$ 387.00	\$ 0.00
P 1160467	\$ 0.00	\$ 387.00	\$ 0.00
P 1160468	\$ 0.00	\$ 387.00	\$ 0.00
P 1160469	\$ 653.00	\$ 387.00	\$ 266.00
P 1160470	\$ 653.00	\$ 387.00	\$ 266.00
P 1160471	\$ 653.00	\$ 387.00	\$ 266.00
P 1160472	\$ 652.00	\$ 387.00	\$ 266.00
P 1160473	\$ 652.00	\$ 387.00	\$ 266.00
P 1160474	\$ 652.00	\$ 387.00	\$ 266.00
P 1160475	\$ 0.00	\$ 387.00	\$ 0.00

101 CLAIMS \$ 39177.00

\$ 39177.00

\$ 15907.00

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

F- THIS TWP SUBJECT TO FOREST ACTIVITY IN 1991/92.
FURTHER INFORMATION AVAILABLE ON FILE.

NOTES

THIS TOWNSHIP LIES WITHIN THE MUNICIPALITY
OF THE CITY OF TIMMINS

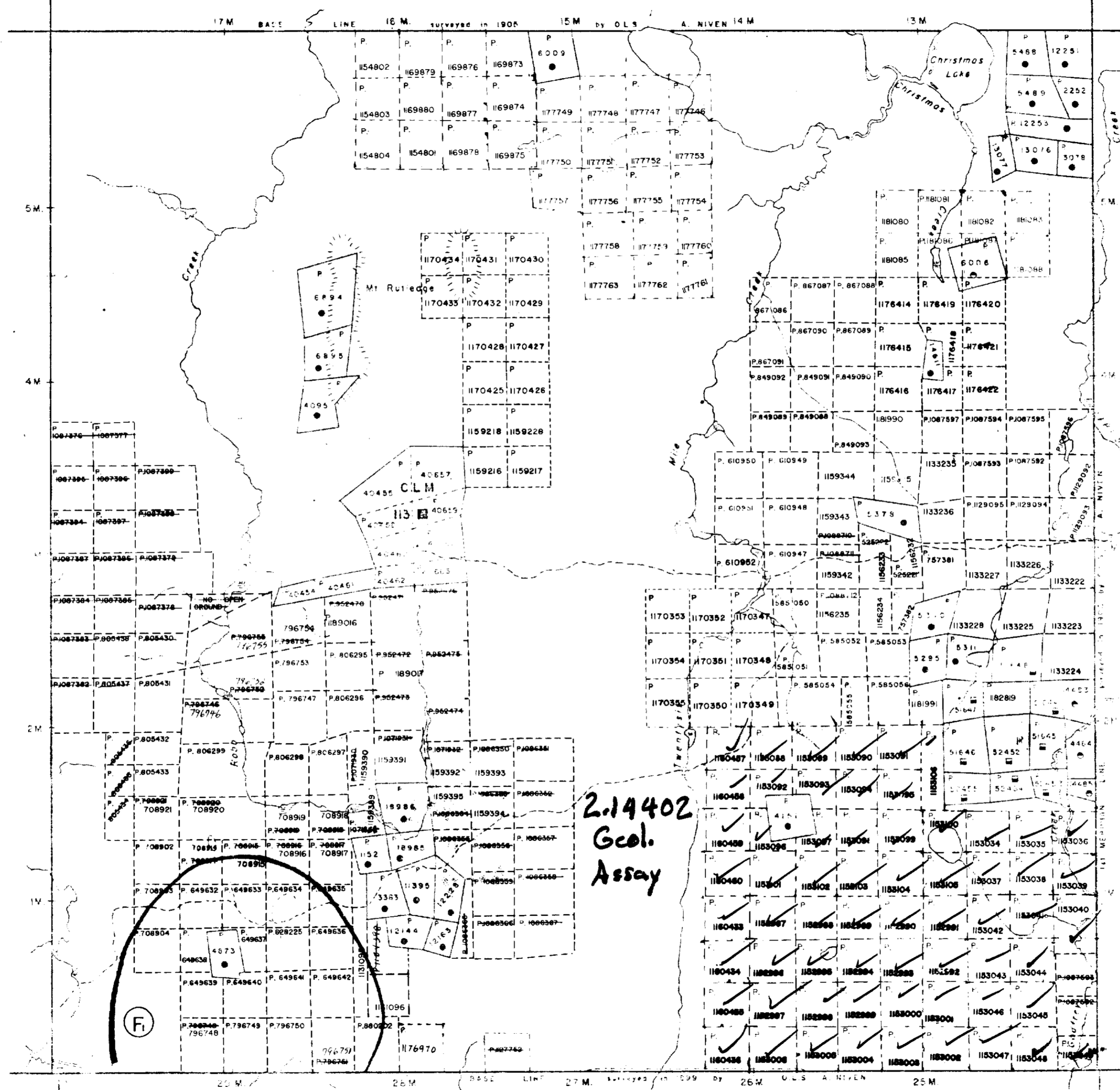
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF



42A05NE0100 2.14402 TURNBULL

200

Robb TP



Massey T.P.

Corry T.P.

2.14402
Geol.
Assay

Carscadden T.P.

LEGEND

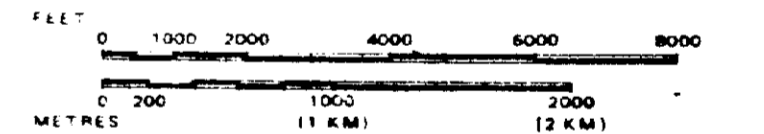
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◼
" MINING RIGHTS ONLY	◻
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊘
SAND & GRAVEL	⊚

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 300, SEC. 63, SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS



2.14402

TOWNSHIP

TURNBULL

M.N.R. ADMINISTRATIVE

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE



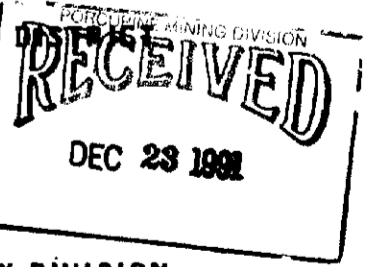
Ministry of Land
Natural Resources Management
Branch

Date MARCH, 1985

ACTIVATED JANUARY 30, 1990

Number

G-3250



REFERENCES

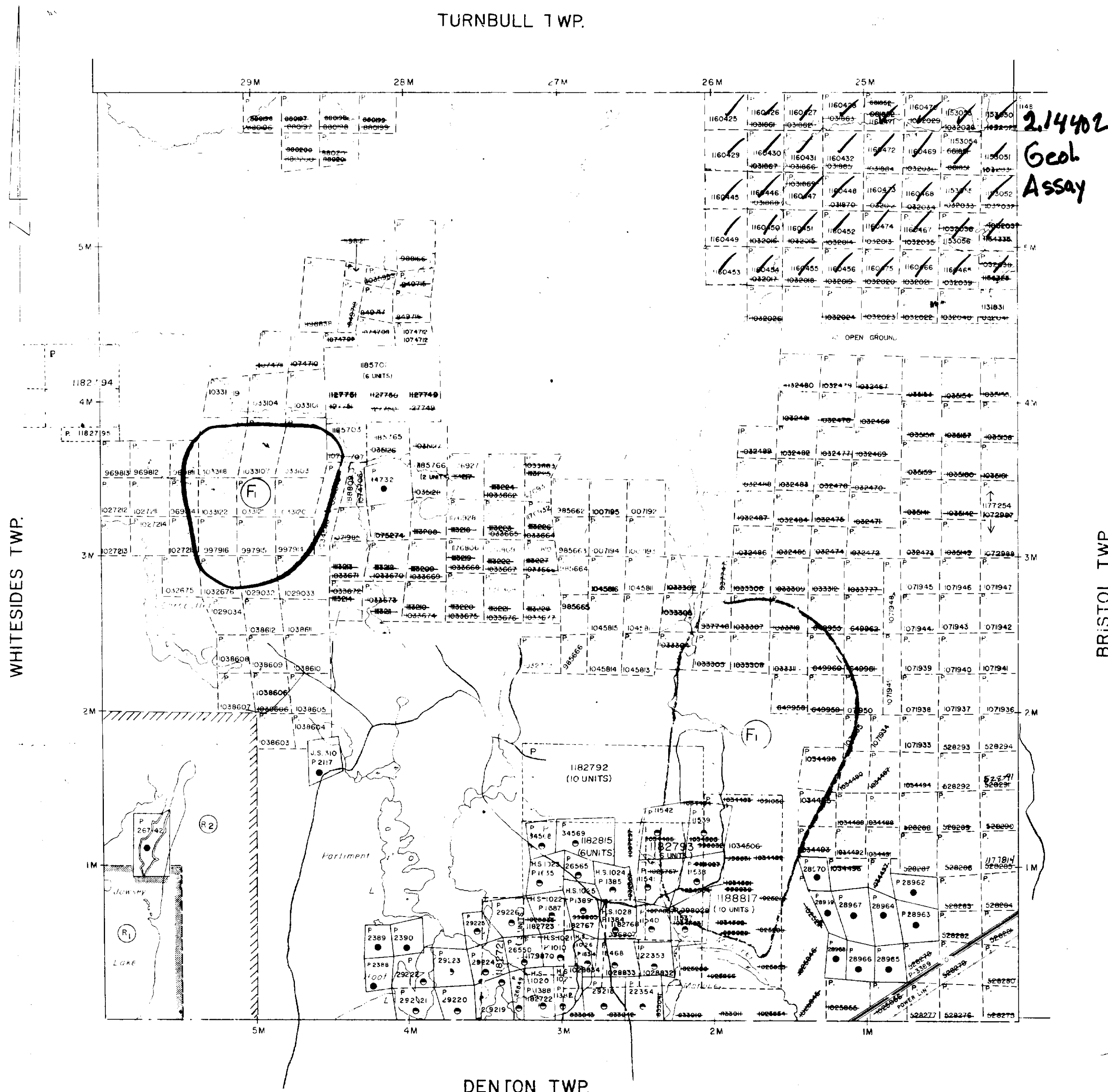
AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(R1) SEC. 42 (R.S.O. 60)		FEB. 3/66	M. & S.	171506
(R2) DANA AND JOESY LAKES PARK RES.	S.P.O.			71506
SEC. 36/80		NOV. 18/83	M.R.O.	

F - THIS TWP SUBJECT TO FOREST ACTIVITY 1991/92
FURTHER INFORMATION AVAILABLE ON FILE.

TURNBULL TWP.



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP, RANGE LINES, ETC.
- LOTS, MINING CLAIMS PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKIE
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◼
" MINING RIGHTS ONLY	◻
LICENCE OF OCCUPATION	▽
ORDER IN COUNCIL	OC
RESERVATION	○
CANCELLED	⊖
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970 CHA. 380, SEC. 63 SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS

2.14402

RECEIVED

DEC 24 1994

TOWNSHIP

CARSCALLEN

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

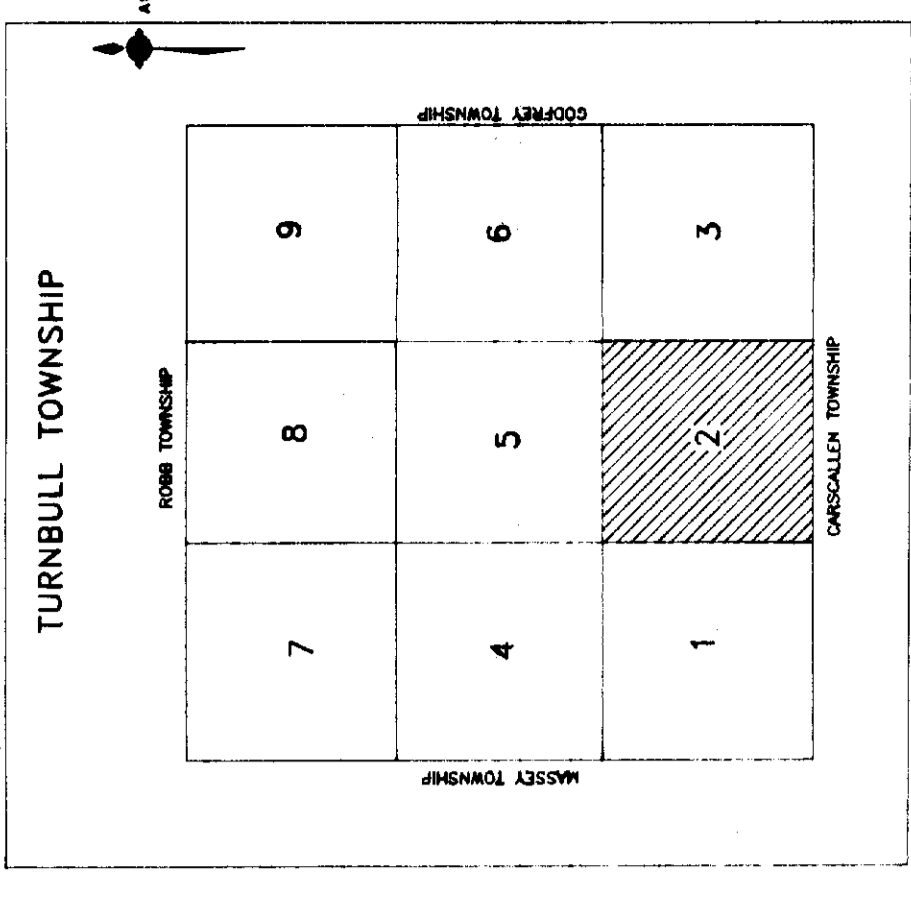
LAND TITLES / REGISTRY DIVISION

COCHRANE

Ministry of Natural Resources
Land Management Branch
Ontario

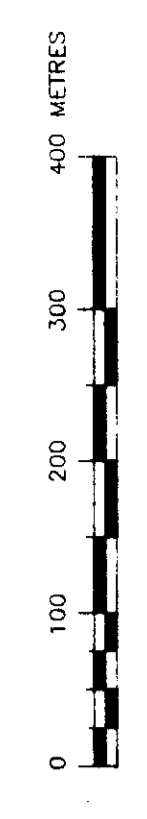
Date SEPTEMBER, 1994
Number G-3040





SYMBOLS

- ROAD
- TRAILS
- OUTCROP LOCATION
- TRENCH
- CLAIM POST LOCATED/ASSUMED



CAMBIOR
 FOUR CORNERS PROJECT
 TURNBULL 2
 CLAIMS LOCATION

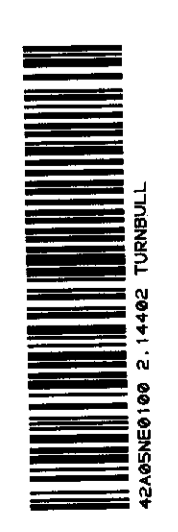
Drawn: P.A.S.
 Date: July, 1991
 Province: Ontario
 Scale: 1:5000
 Revised: August, 1991
 NS: 42 A/2
 Unrevised: Turn-2

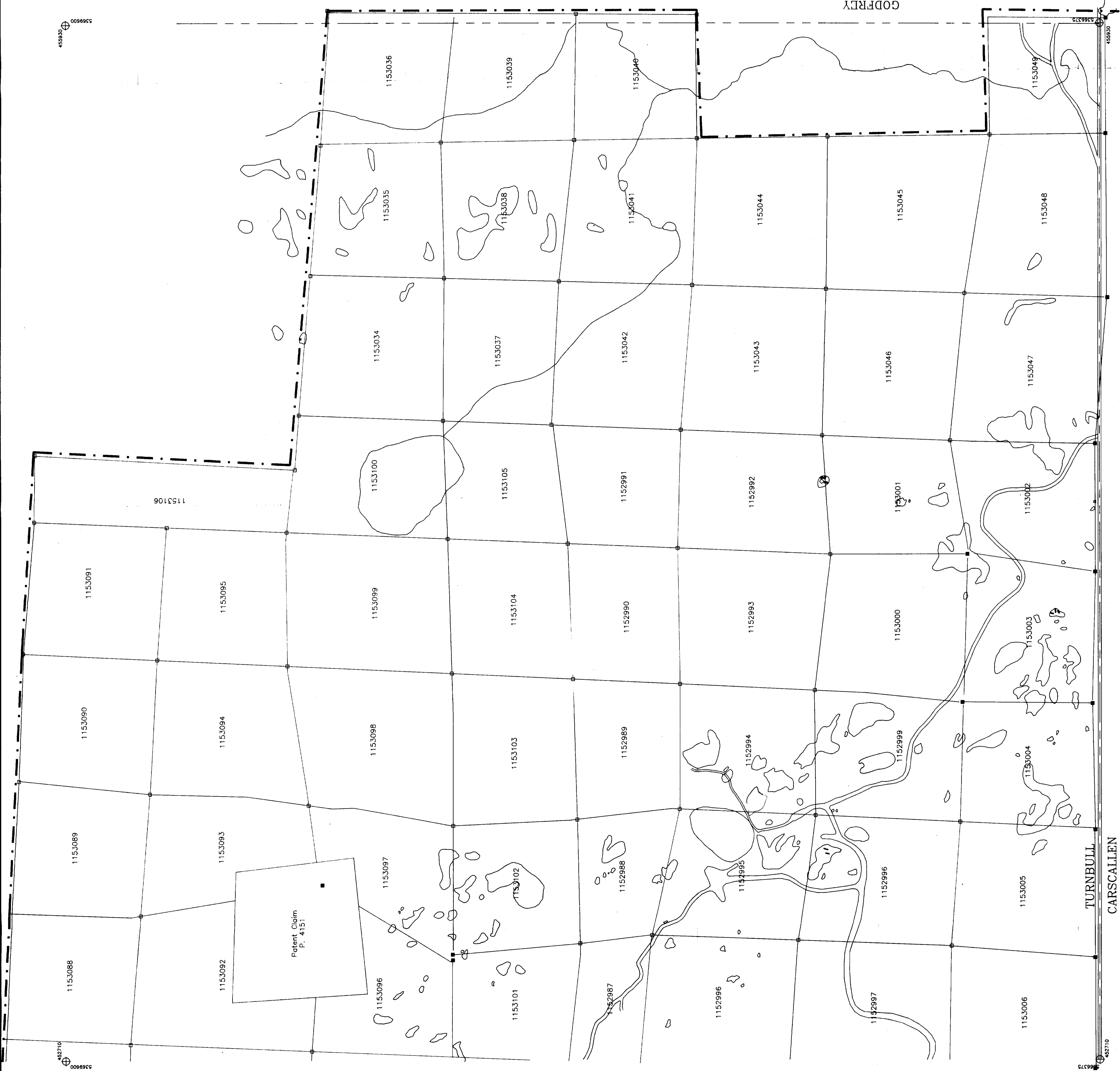
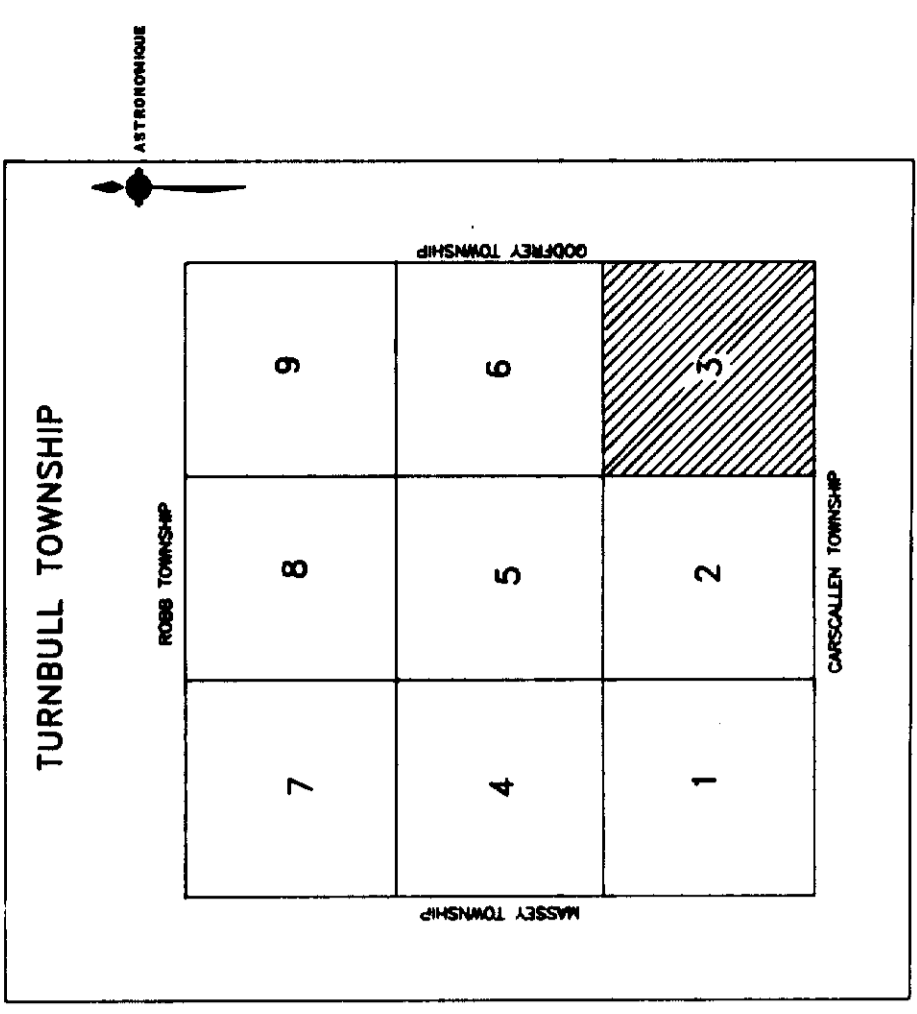
M.V.W. WHITE & ASSOCIATES LTD.
 TIMMINS, ONTARIO



TURNBULL

CARSCALLEN





SYMBOLS

- ROAD
- TRAILS
- OUTCROP LOCATION
- TRENCH
- CLAIM POST LOCATED/ASSUMED



CAMBIOR
FOUR CORNERS PROJECT
TURNBULL 3
CLAIMS LOCATION

Scale: 1:5000
Date: July, 1991
Revision: August, 1991
Project: Turnbull 3
Sheet: 43 of 43
Drawn: [Name]
Checked: [Name]

M. V. W. WHITE & ASSOCIATES LTD.
TIMMINS, ONTARIO



LEGEND

Geology

- 30' LIMBIC
- 31' FELTIC, INTERMEDIATE ROCKS
- 32' QUARTZ, LIGHT
- 33' MASSIVE, INTERMEDIATE ROCKS, QUARTZ
- 34' TUFF
- 35' ANDREWSITE
- 36' FELTIC, VOLCANIC R. KC, ANDREWSITE
- 37' INTERMEDIATE, VOLCANIC ROCKS
- 38' ANDREWSITE, VOLCANIC ROCKS
- 39' ULTRAMAFIC, VOLCANIC ROCKS

- 40' BIRMYN
- 41' MELISA
- 42' MASSENA
- 43' FELTIC, QUARTZIFEROUS
- 44' Regular Bedding
- 45' Fine-laminary
- 46' FAULT ZONE

- 47' Pits
- 48' Chert/Pyrite
- 49' Spentite

AIRBORNE - CHEVRON ASSESSMENT (DIGHEM)

- * RANGE (MINUS UNRECORDED)
- 1. 1st RANGE (< 5 MHz)
- 2. 2nd RANGE (5 - 9 MHz)
- 3. 3rd RANGE (10 - 19 MHz)
- 4. 4th RANGE (20 - 49 MHz)
- 5. 5th RANGE (50 - 99 MHz)
- 6. 6th RANGE (> 99 MHz)

SYMBOLS

- ROAD
- TRAIL
- EMPAVING TRENCH HOLE
- SAMPLE LOCATION
- TRENCH
- CLAM FOOT
- LOCKER/ARE/WED
- PIT/CRACK



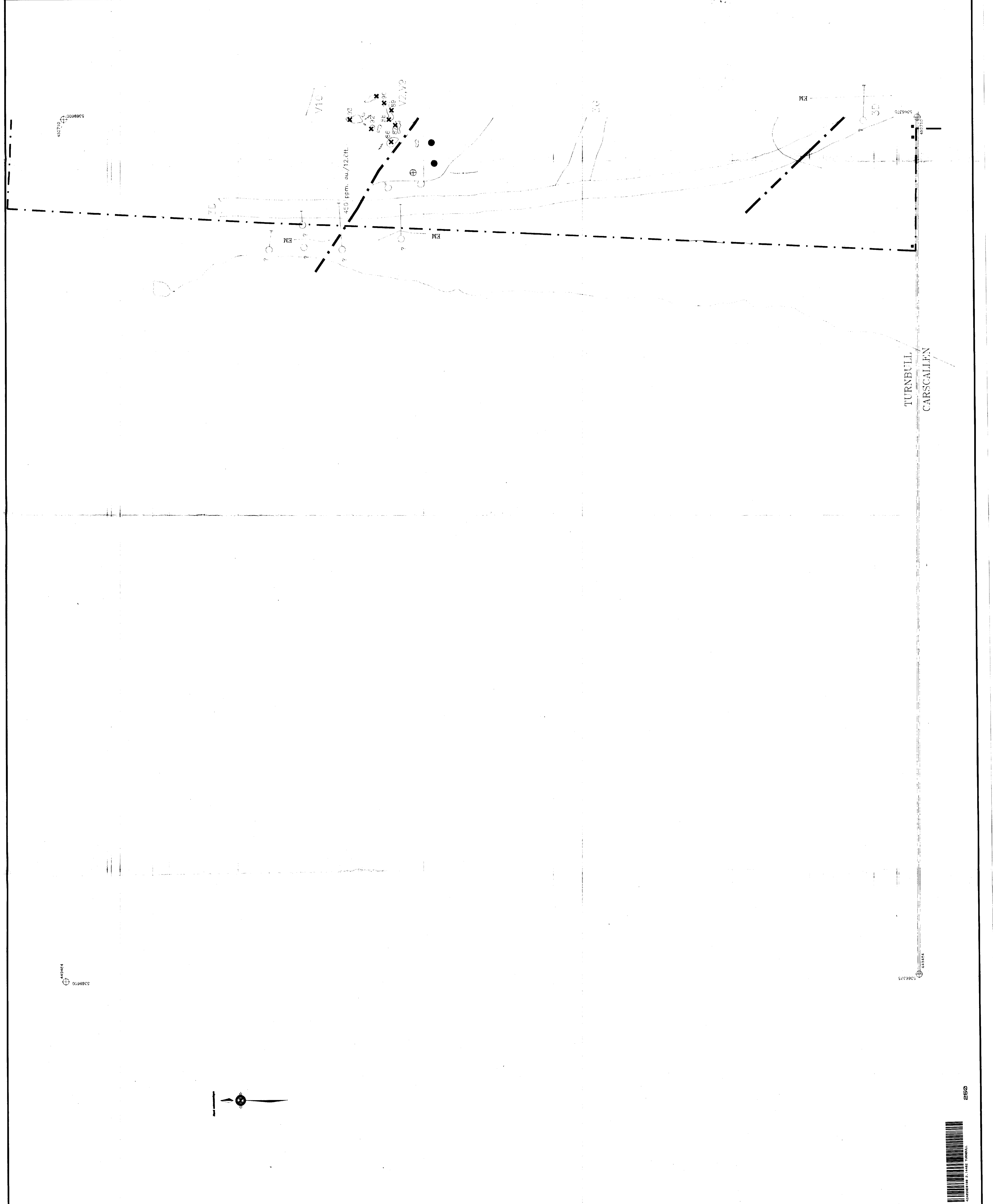
CAMBIOR

FOUR CORNERS PROJECT

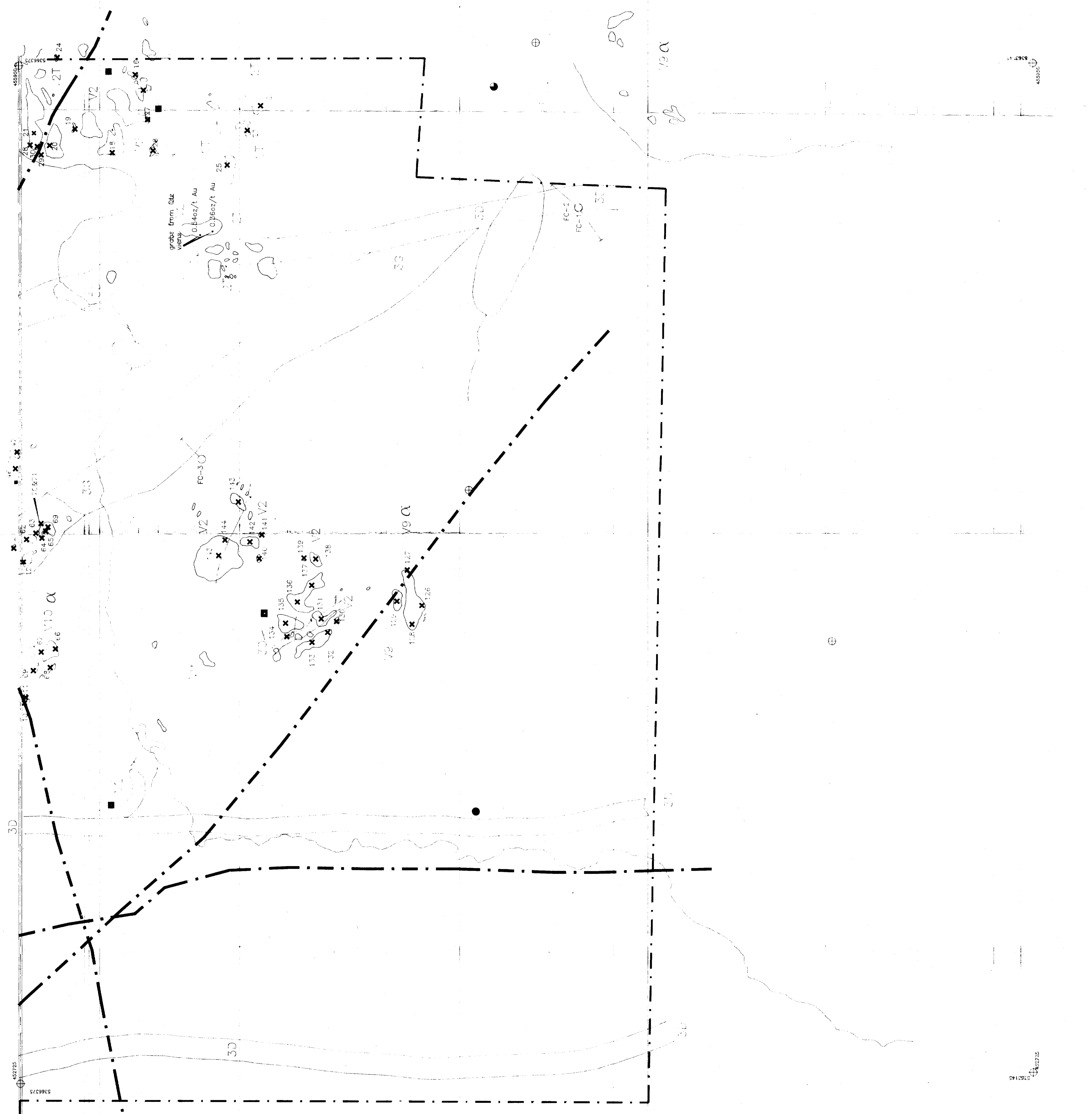
TURNBULL 2

GEOLOGICAL COMPILATION

Drawn: M.V.W. R.M.S. Revised: APR., 1991
 Date: July, 1991 R/S: 42, A/P
 Project: Cambior Scale: 1:5000
 M.V.W. WHITE & Associates Ltd. Turnbull-2
 TIMMINI, ONTARIO



TURNBULL
CARSCALLEN



LEGEND

Geology

- 15 GABBRO
- 16 FELSIC METAVOLCANIC ROCKS
- 17 GRANITE DIORITE
- 18 MAFIC METAVOLCANIC ROCKS
- 19 TUFF
- 20 ARGILLANITE
- 21 FELSIC METAVOLCANIC ROCKS/AMPHIBOLITE
- 22 INTERMEDIATE-ALCALINE ROCKS
- 23 MAFIC METAVOLCANIC ROCKS
- 24 ULTRAMAFIC METAVOLCANIC ROCKS

- 1 FERRUGINOUS
- 2 BRECCIA
- 3 MASSIVE
- 4 FELSIC COMPLEXION
- 5 Breccia
- 6 Flow breccia
- 7 FLOW TUBE

- py Pyrite
- cp Chalcopyrite
- sp Sphalerite

- AIRBORNE - CHEVRON ASSESSMENT (DIGHEM)**
- 1 1st RANGE (MAGNETIC INDETERMINATE)
 - 2 2nd RANGE (1 - 5 MMS)
 - 3 3rd RANGE (6 - 9 MMS)
 - 4 4th RANGE (10 - 19 MMS)
 - 5 5th RANGE (20 - 49 MMS)
 - 6 6th RANGE (50 - 99 MMS)
 - 7 7th RANGE (> 99 MMS)

SYMBOLS

- ROAD
- TRAIL
- DIMAGNETIC ERELL HOLE
- SAMPLE LOCATION
- TRENCH
- CAMP PLOT
- LOCATED/ASSUMED
- OUTCROP



CAMBIOR
FOUR CORNERS PROJECT
CARSCALLEN 9
GEOLOGICAL COMPILED

Drawn: M. J. P. S. L. C. Revised: SEPT. 1991
 Date: July, 1991 Project: CARSCALLEN 9
 Province: Ontario NTS: 42 A/3
 Scale: 1:5000 UTM: 18QD-9

M. V. W. WHITE & ASSOCIATES LTD.
 TIMMINES, ONTARIO



LEGEND

Geology

MAJOR ROCK DIVISIONS

- 3D DIABASE
- 1 FELSIC INTRUSIVE ROCKS
- 2T QUARTZ DIORITE
- 3G MAFIC INTRUSIVE ROCKS/GABBRO
- V9 TUFF
- V10 AGGLOMERATE
- V2 FELSIC VOLCANIC ROCKS/RHYOLITE
- V4 INTERMEDIATE VOLCANIC ROCKS
- V7 MAFIC VOLCANIC ROCKS
- V13 ULTRAMAFIC VOLCANIC ROCKS

- PORPHYRY
- △ BRECCIA
- MASSIVE
- α FELSIC COMPOSITION
- - - Foliation
- - - Bedding
- - - Flow bonding
- - - FAULT ZONE

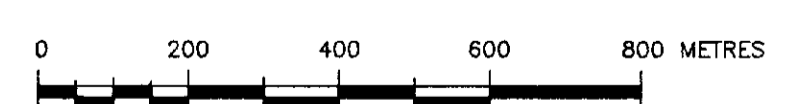
- py Pyrite
- cpy Chalcocopyrite
- sph Sphalerite

AIRBORNE - CHEVRON ASSESSMENT (DIGHEM)

- * 0 RANGE (MHOS INDETERMINATE)
- 1 st RANGE (< 5 MHOS)
- ⊕ 2 nd RANGE (5 - 9 MHOS)
- ⊕ 3 rd RANGE (10 - 19 MHOS)
- ⊕ 4 th RANGE (20 - 49 MHOS)
- ⊕ 5 th RANGE (50 - 99 MHOS)
- 6 th RANGE (> 99 MHOS)

SYMBOLS

- ROAD
- TRAILS
- DIAMOND DRILL HOLE
- SAMPLE LOCATION
- TRENCH
- CLAIM POST LOCATED/ASSUMED
- OUTCROP
- MAPPED & SAMPLED



CAMBIOR
FOUR CORNERS PROJECT

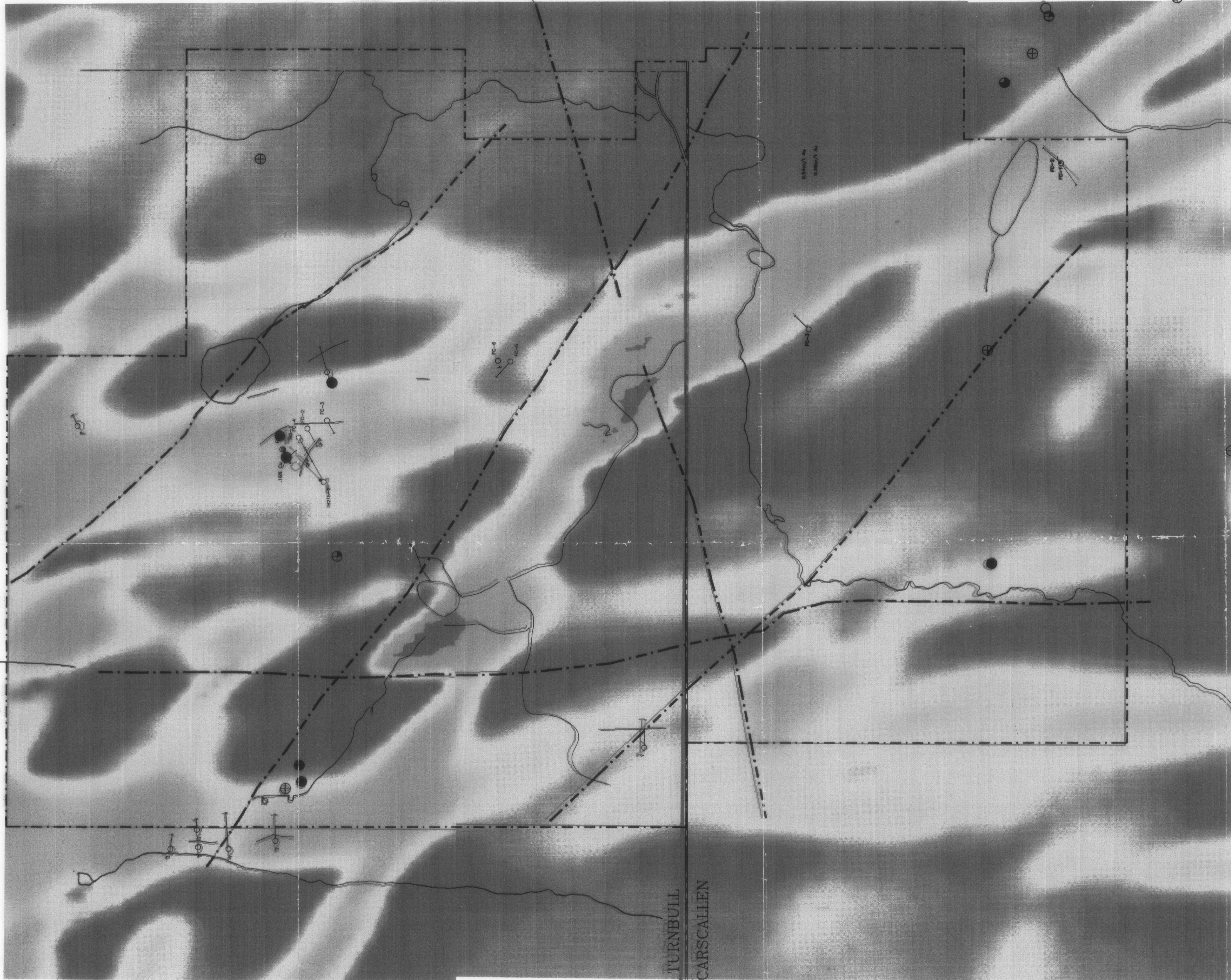
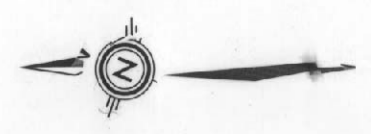
Geological Compilation

2-14462

Drawn: M.V.W.RMS
Date: July, 1991
Province: Ontario
Scale: 1:10,000

Revised: SEPT., 1991
NTS: 42 A/5
Drawing: 4-corn
M.V.W. WHITE & Associates Ltd.
TIMMINS, ONTARIO



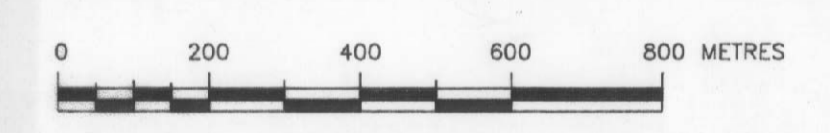


AIRBORNE - CHEVRON ASSESSMENT (DIGHEM)

- * 0 RANGE (MHOS INDETERMINATE)
- 1st RANGE (< 5 MHOS)
- ⊕ 2nd RANGE (5 - 9 MHOS)
- ⊗ 3rd RANGE (10 - 19 MHOS)
- ⊙ 4th RANGE (20 - 49 MHOS)
- 5th RANGE (50 - 99 MHOS)
- 6th RANGE (> 99 MHOS)

SYMBOLS

- ROAD
- TRAILS
- DIAMOND DRILL HOLE
- SAMPLE LOCATION
- TRENCH
- CLAIM POST LOCATED/ASSUMED



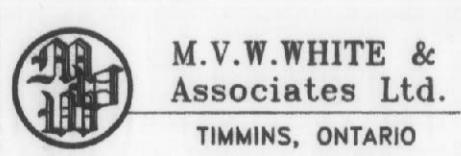
CAMBIOR

FOUR CORNERS PROJECT

Geological Compilation
& Sample Location Map

2.14402

Drawn:	R.M.S.
Date:	July, 1991
Revised:	Sept., 1989
Province:	Ontario
NTS:	42 A/5
Scale:	1:10,000
Drawing:	4-corn



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