31C14SW8620 2.15148 GRIMSTHORPE

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N.T.S. 31C/11

REPORT OF
ELECTROMAGNETIC AND MAGNETIC SURVEYS
BLACK RIVER PROPERTY,
GRIMSTHORPE TOWNSHIP, ONTARIO

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2.9638

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SUMMARY

The Black River property is located in Grimsthorpe Township, 32 km northeast of the town of Madoc, Ontario. Although the Madoc-Bancroft region has shown quite an extensive history of mineral exploration, there is no record of prospecting activities within the area of the Black River property.

The property is underlain by Middle to Late Proterozoic mafic metavolcanic and metasedimentary rocks of the Grenville Structural Province. General trend of these rocks across the property is NW-SE.

During the fall of 1991 a number of gold discoveries were made along the Black River and along a swamp filled extensional lineament to the river. Quartz veins up to 0.5 m wide occur in locally sheared and/or silicified areas of a metasedimentary unit consisting of beds of a quartz-feldspar-biotite rich rock, greywacke, argillites, and graphitic schists. This metasedimentary unit has been traced at various intervals for a distance of over 5 kilometres. Some of the gold showings have been traced for distances greater than 700 metres along this trend.

An electromagnetic survey and a magnetic survey have coincidental conductors and anomalies with some of the known gold occurrences. The surveys have located other targets along the 5 km trend which may be potential host environments for gold mineralization.

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010C

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I. INTRODUCTION

SCOPE

This report summarizes the results of magnetics and electromagnetic surveys performed on Black River property, Grimsthorpe Township, Ontario. Results of these surveys are appended to this report.

LOCATION AND ACCESS

The Black River property is located in Grimsthorpe Township. The property is approximately 30 km northeast of Madoc, Ontario. Access can be made by following Highway 62 north from Madoc to the village of Gilmour. 4 km east of Gilmour is the turn for the Skootamatta Lake Access Road. The property begins at the intersection of the Skootamatta Lake Access Road and the Lingham Lake Access Road (Figure 1).

The property is covered by N.T.S. sheet 31C/11.

PROPERTY AND STATUS

The property consists of twelve contiguous unpatented mining claims consisting of twenty six units of 20 hectacre size (figure 2). The claim numbers are SO1150984 to SO1150986 inclusive, SO1156635, SO1156636, SO1156650, SO1156653, SO1156654, SO1194942, SO1194943, SO1194973, SO1194974.

All claims are held by Mr. R.J. Dillman of London, Ontario.

LOGISTICS

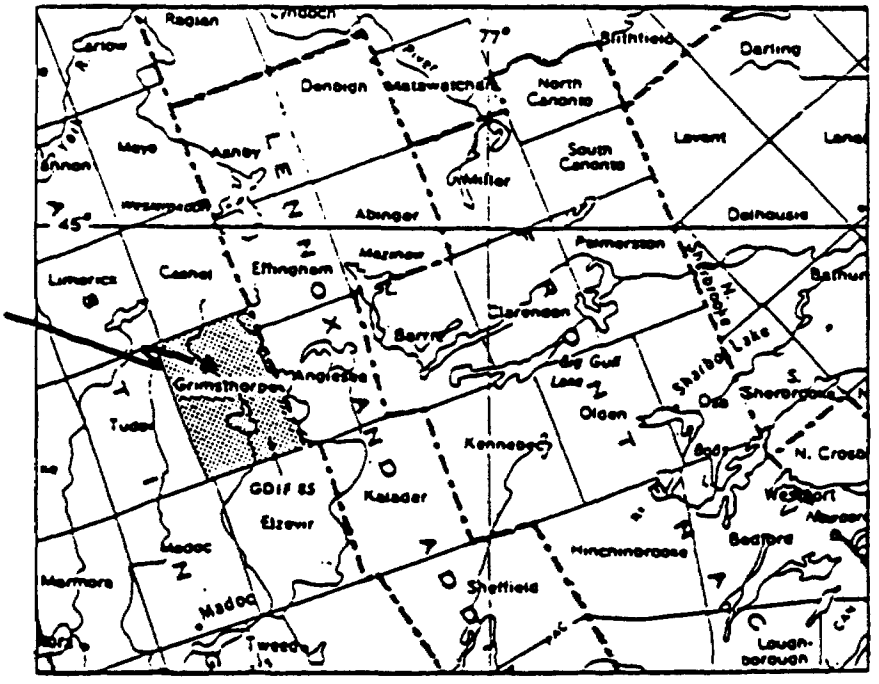
Between the dates of: October 11 to October 24, 1991, February 22 to February 26, 1992, and periodically between, October 6 to November 6, 1992, magnetic and electromagnetic surveys have been done over the area covered by the grid. The total distance traversed and time taken for the magnetic survey is 21km in 11 days and for the electromagnetic survey is 17.9km in 22 days. All readings were taken on compassed and flagged lines that have been chained every 25m for accuracy. Line spacing is 100m but in southern areas of the grid 50m spacing was used over the gold showings. Results of the surveys have been plotted on 1:2,500 scale maps that are appended to this report.

Both surveys have been preformed by Mr. R.J. Dillman of London, Ontario.

TOPOGRAPHY AND LAND-USE

Airphotos of the property reveal many small ponds and streams, the largest of which is the Black River. These

Property Location



1 inch=16 miles

PROJECT LOCATION

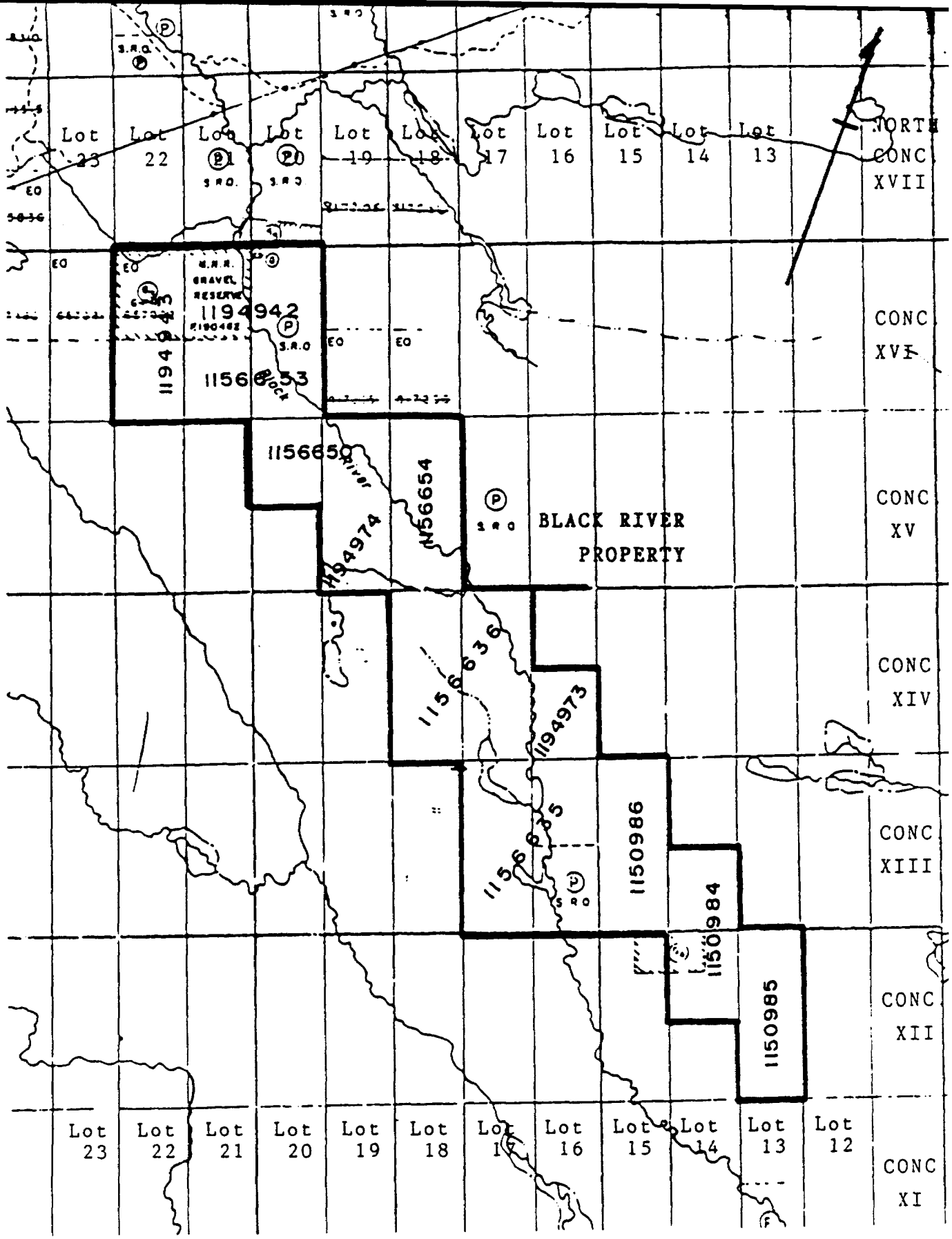


FIGURE 2

BLACK RIVER CLAIM GROUP
GRIMSTHORPE TOWNSHIP, ONTARIO
PLAN: M97

features are confined to topographical lineaments. The largest and most continual set of lineaments prefer a N-NW orientation. These lineaments are offset in places by a weaker set on a NE orientation.

The highest elevations on the property are found east of the Black River. This area is dominated by large outcrops of mafic metavolcanics and shallow overburden consisting of localized till. Outcrop exposure is approximately 75% in this area.

West of the Black River the land is much flatter and outcrop exposure decreases to approximately 10%. Outcrops are confined to the highest elevations and along the sides of depressions. Large areas of land are till covered and most depressions contain swamp or bog.

Most of the overburden on the property is glacial derived. Tills dominate west of the river. They consist of different sized, angular material made up of locally sourced mafic metavolcanic rock and regional sourced, rounded granite boulders. In some isolated areas the tills consist of well-sorted sand and gravel. Striations measured on outcrop surfaces suggest glacial advancement was from N.4 degrees E.

Vegetation on the property is variable. Hardwoods such as birch, maple, and oak grow in the higher elevations. White pine, spruce, and balsam occur in flatter areas. Lower areas have jack-pine, balsam, and alders.

Recently, there has been very limited logging activities conducted west of the Lingham Lake Access Road. Other industrial land-use includes sand and gravel extraction in the north section of the property. Recreational land-use only appears to be hunting and for this purpose a number of small cabins are located within the property boundary.

PREVIOUS EXPLORATION ACTIVITIES

Grimsthorpe Township has a sketchy history of mineral exploration. Except for the 1991 survey no evidence has been found to suggest that the claim group has every been prospected. There is also no report of work filed with the Ministry of Natural Resources for the area of the property.

Mineral exploration, mainly for gold, has been concentrated in the western and northwestern regions of the township. During 1909 to 1914, gold was produced from the Gilmour Mine in lot 30, concession 19. This mine has the only record of production in Grimsthorpe Township.

Talc was discovered in 1910 in lots 8, 9, and 10, concession 5.

Regional geology was first mapped by Meen and Harding (1942). They reported talc occurrences in lot 13, conc. 4. They also reported numerous sulphide occurrences in meta-sedimentary schists in the Lingham Lake area.

In 1954, Stratmat Limited carried out a ground electro-magnetic survey over the talc occurrences in lot 13, conc. 4.

In 1955, drilling was preformed on the claim group referred to as the McMurray Group. A total of 793 feet were drilled to test an arsenic occurrence in lot 33, concession 11.

After 1955, the Gilmour Mine and the area in proximity to the mine appear to be the only area of interest for mineral exploration. Currently this area is held by Homestake Minerals.

In 1990, much of Grimsthorpe Township and neighboring Anglesea Township were mapped by R.M. Easton of the Ontario Geological Survey.

Gold was discovered in the Black River area in 1991 by R.J. Dillman. This resulted in the staking of several claims. He subsequently carried out geological and geophysical surveys over limited portions of the property.

C.A. Wagg of Denbigh, Ontario staked 5 additional claims along the trend of the Black River. These claims were recorded in Dillman's name.

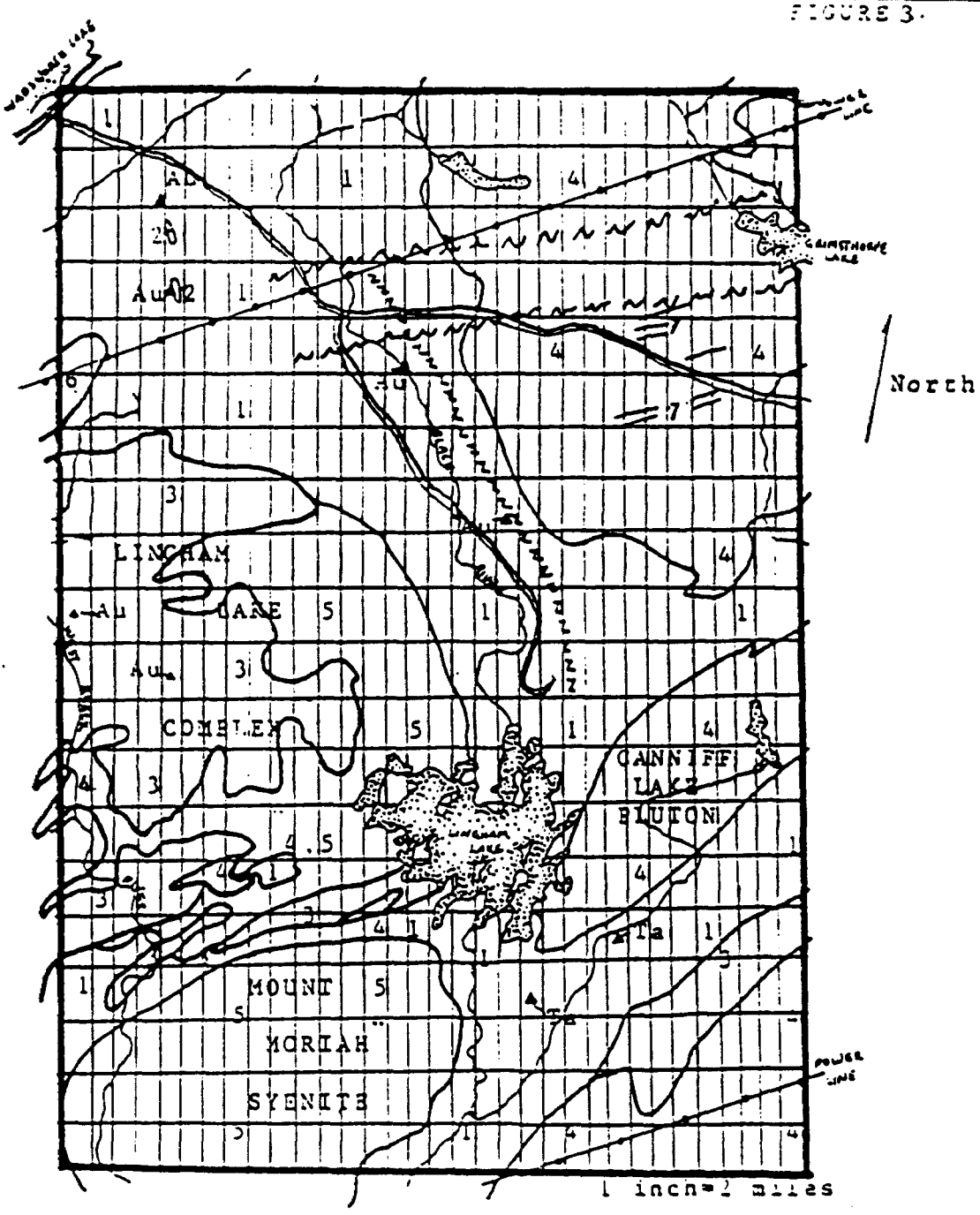
In the summer of 1992, the property was visited by Brian Christie, a geologist representing Homestake Minerals. Mr. Christie undertook limited prospecting, soil sampling, and geological mapping in isolated regions of the claim group. His work led to the discovery of gold in lot 20, concession 16 and what is now known as the Christie Showing. Christie also staked several claims to the north and recorded them in Dillman's name.

Further staking was conducted in the fall of 1992 by Dillman. A grid was constructed over portions of the new claims for control over geological, magnetic, and electromagnetic surveys. This work has led to the discovery of several more gold showings in the Black River area.

REGIONAL GEOLOGY

Grimsthorpe Township is in the Madoc-Bancroft region of the Grenville Structural Province. The geology of the township is summarized in Figure 3. A sequence of formations is presented in Table 1.

FIGURE 3.



GEOLOGY OF GRIMSTHORPE TOWNSHIP

7	diabase	▲	mineral occurrence
6	trondhjemite	Au	gold
5	syenite	Ta	talc
4	granite	~~~	fault
3	diorite		
2	metasediment		
1	mafic metavolcanic		

(modified after Easton and Ford, 1991)

TABLE I.

SUGGESTED
TABLE OF FORMATIONS FOR THE
BLACK RIVER PROPERTY
GRIMSTHORPE TWP. ONTARIO

CENOZOIC

Recent
swamp, lake, and stream deposits

Pleistocene
clay, silt, sand, gravel

Unconformity

PROTEROZOIC

Intrusive Sills and Dikes
gabbro
Intrusive contact
aplite dikes
mafic dikes (diabase?)

Intrusive contact

Metasedimentary and Metavolcanic Rocks
mafic volcanic intrusive/extrusive flows
Unconformity?
carbonate sediments
clastic sediments
mafic volcanic intrusive/extrusive flows

Grimsthorpe Township is equally divided between mafic metavolcanic rocks and igneous intrusive complexes. All rocks are of the Middle to Late Proterozoic.

Mafic metavolcanics consist of intrusive and extrusive, fine-grained basaltic and coarser-grained gabbroic flows. Between flows schists may occur which can be sedimentary derived and/or be related to volcanism.

At least five large, separate plutonic bodies intruded into the mafic metavolcanic-metasedimentary sequence. These intrusive bodies vary in composition and range from gabbro, diorite, to tonalite. During the formation of the plutonic masses, the meta-volcanic-metasedimentary sequence was intruded by dikes of either mafic or felsic composition.

Metamorphic grade in Grimsthorpe Township ranges from upper greenschist-facies to middle amphibolite-facies (R.M. Easton, 1990). The range of metamorphism appears to be dependent on the proximity to plutons.

Airphoto observations show many topograghic linea-ments, some of which are certain to be fault structures. The most dominate direction of the linear features is N-NW. A second preferred orientation is E-NE. This second direction is consistent with a regional structure that cuts across the northern section of the township (Easton, 1990). From field and airphoto observations it is apparent that the E-NE lineaments may post-date N-NW lineaments. This is based on crosscutting relationships.

PROPERTY GEOLOGY AND MINERALIZATION

The property is underlain by Proterozoic mafic meta-volcanic flows, metasedimentary schists, and dikes. These rocks belong to the Grenville Structural Province formed during the late Precambrian.

Mafic metavolcanic flows consist of fine-grained basaltic flows, coarse-grained gabbroic flows, and agglomerates. Thin units of mafic schists may occur between flows.

Metasedimentary rocks are mostly found as schist units that consist of greywacke, argillite, graphite and a member composed of quartz-feldspar-biotite. These schists are characteristically rusty on a weathered surface and contain fine-disemminated pyrite, pyrrhotite, and magnetite. In the southern areas of the property there are rare occurrences of marble.

Fine-grained mafic dikes and fine-grained aplite dikes occur more frequently in schists. They are most frequently found along the river and to the south.

The general trend of rock units determined from foliations of schists is NW. Units appear to dip moderately SW to near-vertical. There are at least three recognizable foliations in the schists. The most common, NW, is probably relic bedding. The second is W-NW and may be caused by localized shearing. The third is E-W and may relate to younger structural phase.

No obvious fault zones have been observed although structural measurements suggest their presence. Localized areas of shearing have occur in all major rock types.

Metamorphism is believed to range from high greenschists to middle amphibolite facies.

Accessory sulphide mineralization in the schists consists of fine-disseminated pyrite, pyrrhotite, and magnetite. Quartz veins with arsenopyrite and pyrite occur in metasedimentary schists along the Black River and along an extensional lineament to the river. Gold has been found in these veins.

II. DISCUSSION AND RESULTS OF GEOPHYSICS

LOGISTICS

Between the dates of: October 11 to October 24, 1991, February 22 to February 26, 1992, and periodically between, October 6 to November 6, 1992, magnetic and electromagnetic surveys have been done over the area covered by the grid. The total distance traversed and time taken for the magnetic survey is 21km in 11 days and for the electromagnetic survey is 17.9km in 22 days. All readings were taken on compassed and flagged lines that have been chained every 25m for accuracy. Line spacing is 100m but in southern areas of the grid 50m spacing was used over the gold showings. Results of the surveys have been plotted on 1:2,500 scale maps that are appended to this report.

Both surveys have been preformed by Mr. R.J. Dillman of London, Ontario.

The instrument used for the electromagnetic survey was a Geonics EM-16. The station received was Cutler, Maine, USA, which operates at 24kHz. During the survey the instrument was orientated N 20 degrees E for all readings. This instrument has a 50 m depth penetration.

For the magnetics survey, the instrument used was a Gem Systems Proton Precession Magnetometer, model GSM-8. This instrument has a penetration depth of 50 m.

CONDUCTOR INTERPRETATION

CONDUCTOR A
LOT 14, CONC. XII, N/2
LOT 15, CONC. XIII, S/2
S01150984, S01150986
9+00S, 2+75W to 1+00N, 1+37W
MAP 3A

Conductor A occurs along creek and swamp with outcrops of metasedimentary schists and mafic metavolcanic schists. Conductor is consistent with geological trend and dips SW at steep to almost vertical angles. Schists are weakly mineralized with disseminated pyrite and pyrrhotite. Sulfide content does not suggest conductivity. There are coincident magnetic highs with the conductor axis. Arsenopyrite/gold-bearing quartz veins and quartz-filled fracture zones, have been traced 500m along the schist unit. Some weak to moderate shearing is associated with the zones. Conductor A appears to be offset be E-W trending structures. The conductor may result from a combination of the wet topography plus the change in rock type; mafic metavolcanic flows to mafic and sedimentary schists.

CONDUCTOR B
LOT 14, CONC. XII, N/2
S01150984
8+00S, 1+90W to 8+50S, 1+85W
MAP 3A

Conductor axis occurs at the base of a steep, NW-trending slope. Conductor B is not consistent with the local geological trend. No outcrop is exposed along the conductor although closest outcrops consist of mafic metavolcanic flows. The NW trend of this conductor appears to intersect and offset conductor A. Conductor B may represent a fault that dips vertically or be caused by the topographical changes.

CONDUCTOR C
LOT 15, CONC. XIII, middle
S01150986
0+00N, 0+50W to 1+00N, 0+20W
MAP 3A

Conductor C occurs entirely under swamp. Both conductor and local geological trends are similar. This conductor strikes towards a gold occurrence at 1+75N, 0+12E. This occurrence is very similar to gold showings found along conductor A. The dip of the response is steeply W-SW or near-vertical. This conductor may have resulted from the conductive nature of the swamp or it could be swamp + geologically induced, such that, it may be an extension of conductor A which has been offset by an E-W trending structure.

CONDUCTOR D
LOT 15, CONC. XIII, N/2
SO1150986 2+00N, 0+35W to 3+00N, 0+40W
MAP 3A

Conductor D has been located over swamp. Appears to trend at an angle to the local geological trend. It is possible that the south end of this conductor is associated with conductor C. South end of conductor is very close to auriferous metasedimentary float located at 1+75N, 0+12E. This conductor has probably resulted from the conductive nature of the swamp although its proximity to a known gold occurrence suggests that it should not be so easily attributed to topography.

CONDUCTOR E
LOT 15, CONC. XIII, N/2
SO1150986
2+00N, 1+85W to 3+00N, 1+65W
MAP 3A

Short conductor located over swamp. Closest outcrops consist of mafic metavolcanic flows. South end of conductor has associated magnetic high. May trend parallel to local geology. This conductor may be a weakly conductive shear zone.

CONDUCTOR F
LOT 15, CONC. XIII, N/2
SO1150986
4+00N, 0+10E to 5+00N, 0+20W
MAP 3A

Conductor F occurs at the base of a slope, in dry overburden with outcrops of mafic metavolcanics. Trend of the conductor does not parallel local geology. The VLF response suggest that this conductor could be an effect of topography changes.

CONDUCTOR G
LOT 16, CONC. XIV, S/2
SO1194973
7+00N, 0+10E to 9+00N, 0+30E
MAP 3A

Conductor occurs along a thin unit of metasediment schists in volcanic flows. Unit is weakly mineralized with pyrite and pyrrhotite. Conductor appears to dip steeply SW which is consistent with the schist unit. The cause of the conductor may have resulted from the change in rock types.

CONDUCTOR H
LOT 16, CONC. XIV, S/2
SO1194973
8+00N, 0+87W to 10+00N, 0+95W
MAP 3A

Conductor H occurs in low, wet ground. Although this might be the cause of the VLF response it should be pointed out that the conductor is coincidental with an arsenic soil anomaly with values ranging up to 195 ppm As(Christie,1992).

CONDUCTOR I
LOT 16, CONC. XIV, S/2
SO1194973
8+00N, 1+35W
MAP 3A

Conductor I occurs in wet to dry overburden that is probably conductive. Conductor I, if it is a geologically induced conductor may be of some importance because it occurs over a 2nd arsenic soil anomaly with values grading up to 135 ppm As and 19 ppb gold (Christie, 1992). Metasedimentary float found "down ice" and close to the conductor axis assayed 241 ppb gold (Dillman, 1992)

CONDUCTOR J
LOT 17, CONC. XIV, N/2
SO1156636
15+00N, 1+30E to 16+00N, 1+35E
MAP 3B

This conductor occurs over dry to swampy ground at the base of a slope. Closest outcrop to conductor axis consists of mafic metavolcanic flows. Trend of the conductor is parallel geology and it follows a magnetic low. This conductor may be caused by elevation changes, swamp, or conductive overburden.

CONDUCTOR K
LOT 18, CONC. XV, S/2
SO1156654
24+00N, 1+12E
MAP 3B

Conductor occurs over outcrop of Fe-carbonate altered gabbro with quartz-Fe-carbonate stringer stockwork. The VLF suggests that the conductor is near surface and dips SW at a steep angle. There is an associated magnetic high. The outcrop contains disseminated pyrite and magnetite but they do not appear abundant enough to be conductive. It is possible that the conductor is caused by non-surfacing sulfide mineralization associated with the alteration and stockwork system.

CONDUCTOR L
LOT 18, CONC. XV, S/2
SO1156654
23+00N, 0+60E
MAP 3B

This conductor occurs in a wet to dry swampy area of the river valley. No outcrop is found close to the conductor although metasedimentary schists outcrop within 25m of the conductor axis. There is a magnetic high coincidental with the conductor. This conductor might be caused by the river sediments but it may also be caused by a sulfide target.

CONDUCTOR M
LOT 18, CONC. XV, S/2
LOT 19, CONC. XV, S/2
LOT 19, CONC. XV, N/2
SO1156654, SO1194974, SO1156650
24+00N, 0+30E to 29+00N, 0+65E
MAP 3B

Conductor M is a long, continuous response that dips at a moderate angle SW. The conductor follows a unit of mafic schists that begins to include metasedimentary schists as one progresses northwest along the unit. No sulfides that suggest conductivity have been seen in the schists. There is a magnetic anomaly coincident with the conductor along the north half. The conductor occurs approximately in the dry midpoint of a moderate northeast facing slope of the river valley. Conductor M is related to the schist unit. There may have been faulting or shearing along this unit and possible sulfide zones could be present.

CONDUCTOR N
LOT 18, CONC. XV, N/2
SO1156650
28+00N, 1+15E to 29+00N, 1+40E
MAP 3B

This conductor occurs over the river. There are outcrops of mafic metavolcanic flows on either side of the river. An outcrop on the east side of the river is part mafic schist with disseminated pyrite and pyrrhotite and weak silicification. The conductor, because it is not continue with the river, may be induced by shearing within this mafic schist unit or by the VLF reacting to a different rock type.

CONDUCTOR O
LOT 19, CONC. XV, N/2
LOT 20, CONC. XV, N/2
LOT 20, CONC. XVI, S/2
SO1156650, SO1156653
30+25N, 0+85E to 34+00N, 0+65E
MAP 3C

Conductor O occurs along the river and over outcrops of metasedimentary schists. The schists are weakly mineralized with disseminated pyrite and pyrrhotite. There are thin zones of shearing, veining and fracturing. The fractures are sealed with quartz + weak arsenopyrite mineralization. Anomalous gold values up to 1201 ppb have been taken from this zone. There is a good, strong magnetic anomaly coincidental with this conductor. The trend of conductor O is consistent with the strike of the schists and the conductor appears to be dipping SW at a moderate to steep angle. This is also consistent with geology. Conductor O is in part influenced by the conductive properties of the river as well as having a signature characteristic of a weakly conductive shear zone. It is not certain whether this conduction is partly caused by localized sulfide zones or by the presence of graphite schists.

CONDUCTOR P
LOT 20, CONC. XV, N/2
LOT 20, CONC. XVI, S/2
SO1156650, SO1156653
32+00N, 1+12W to 37+00N, 0+35E
MAP 3C

This conductor follows a unit of metasedimentary schists and minor mafic metavolcanic schists. The dip of the conductor is moderate to shallow in a SW direction and may steepen along the south extent of the axis. Topography over the conductor axis consists of mostly dry overburden, some outcrops, and locally wet swamps. The conductor is coincidental with a magnetic high. The VLF response, in part, suggests faulting or shearing might be the cause of the conductor. Prospecting has revealed localized shearing within the schist unit as well as disseminated pyrrhotite, pyrite, and stringered pyrite. No where has sulfide content been observed that was thought to be massive enough to promote conductivity although, graphite schist has been noted in at least one location along the conductor axis. A trench on the schists has revealed some parallel arsenopyrite-bearing shear zones that carry gold values up to 1263 ppb across 0.8m (Dillman, 1992). Another gold showing proximal to the north end of the conductor has returned values of 56.8 g/t Au in grab samples of a quartz vein within the schist unit. Conductor P represents a locally sheared metasedimentary unit with conductive members (graphite), weak sulfide mineralization, and locally associated gold values.

CONDUCTOR Q
LOT 20, CONC. XVI, S/2
SO1156653
36+00N, 0+95E to 37+00N, 1+05E
MAP 3C

The axis of this conductor occurs over an overburden-filled linear depression. Metasedimentary schists outcrop on the west side of the depression and gabbro occurs on the east side. The trend of the lineament and the conductor is consistent with geology. The dip of the conductor appears to be near-vertical although readings have been influenced by other conductors on either side. Conductor Q might only be caused by conductive overburden in the lineament or, in part, it may be induced by some conductive property along the gabbro/sediment contact.

CONDUCTOR R
LOT 20, CONC. XVI, S/2
SO1156653
35+00N, 1+20E to 37+00N, 1+85E
MAP 3C

Conductor R somewhat follows the river, occurring along the base of the east slope of the river valley. This conductor trends in a more northernly direction than surrounding conductors. The only other conductor that shares this trend is

conductor N. Outcrops do not occur on the axis of the conductor although volcanic outcrops occur along the slope and sedimentary+volcanic rocks are found along the river. The conductor appears to dip towards the NE at a steep angle and this is unusual for the property. The conductor is coincidental with a magnetic high. The cause of this conductor might be attributed to the topographic effects induced by the river and the slope although the cause may lie with the occurrence of a faulted metasedimentary unit. A unexplained direction of jointing (Dillman, 1992) observed in an outcrop in the general area may provide evidence to the existence of a fault zone. Also, there is a distinct change to schistosity in outcrops occurring in the river bed on the north side of the Skootamatta Access Road. The existence of a structure could explain the differences in schistosity.

MAGNETIC INTERPRETATION

ANOMALY A
LOT 14, CONC. XII, N/2
LOT 14, CONC. XIII, S/2
LOT 16, CONC. XIII, S/2
SO1150984, SO1150986
8+50S, 2+50W to 0+00, 1+00W
MAP 2A

This magnetic high occurs in metasedimentary schists. It is coincident with conductor A. The anomaly dips steeply SW along much of the trend except in the north where it appears to dip steeply to the NE. The two apparent dip interpretations may be separated by an E-W trending structure. Gold has been detected in quartz veins and sheared+silicified zones along the schists. The schists are weakly mineralized with disseminated pyrite and pyrrhotite. Anomaly A is caused by the weak pyrrhotite mineralization in the schists. Some of the spot highs might be caused by magnetite bearing mafic dikes which occur locally in the schists.

ANOMALY B
LOT 15, CONC. XIII, N/2
SO1150986
2+00N, 0+00 to 3+00N, 0+37W
MAP 2C

Anomaly B occurs in metasedimentary schists that are similar to those found along anomaly A. Similar mineralization and gold values have been found in float occurring on anomaly B. The magnetics suggests that A and B are two separate anomalies but it is quite possible that the separation is due to E-W trending structures. Although these structures have not actual been observed there is some geological and geophysical evident that points to their existence. If these structures exist it appears that some of the spot highs occur where the structures cross the schists. There also appears to be a relationship of the mag spot highs

and the locations of the gold occurrences even though mineralization at the showings is not magnetic. Anomaly B may be disseminated pyrrhotite or magnetite in the metasedimentary schists.

ANOMALY C
LOT 13, CONC. XII, N/2
SO1150985
9+00S, 1+25W to 10+00S, 1+12W
MAP 2C

This magnetic high has been attributed to a quartz vein with <5% fine disseminated magnetite. The length of the vein is not known but where it outcrops in the east corner of the pond it is at least 0.5m wide. This vein may be structure related since it occurs in a E-W trending lineament and the strike of the vein is parallel to the lineament.

ANOMALY D
LOT 14, CONC. XII, N/2
SO1150986
6+00S, 1+12W to 7+00S, 0+50W
MAP 2A

Anomaly D has been found to be a quartz vein, similar in texture and mineralization as to that causing anomaly C. This vein of smaller width trends E-W although evidence suggesting a structural relationship was not observed.

ANOMALY E
LOT 16, CONC. XIII, N/2
SO1156635
5+00N, 3+65W to 6+00N, 2+95W
MAP 2A

On line 5N, it was found that overburden occurs over the highest magnetic response. An outcrop of mafic metavolcanic flows found just south of the anomaly was observed to have small, randomly orientated granitized dikes and stringers <2cm wide. They were found to contain blackish clots of magnetite. What this intrusive zone is related to has not been established. Mineralization and the suggested northern trend of this anomaly is unique to the area. An orientation of this would cut the general trend of geology and point to a structural relationship possibly with a fault occurring along the river.

ANOMALY F
LOT 16, CONC. XIV, S/2
SO1194973
11+50N, 0+00
MAP 2A

Bull's eye type magnetic high that occurs in overburden. Closest outcrops consist of mafic metavolcanic flows. No evidence to explain the anomaly has been found in the field.

ANOMALY G
LOT 18 , CONC. XV, S/2
SO1156654
23+00N, 1+12E to 24+00N, 1+25E
MAP 2B

The southern extent of the strike length for this anomaly is undefined at present time of report. The magnetic high was found to occur over a gabbroic flow which has moderate Fe-carbonate alteration and minor quartz-carbonated stringer systems. There are traces of pyrite, tourmaline, and fine magnetite throughout the alteration zone. Conductor K is associated with this zone. Other occurrences of this type are generally found on the east side of the river. Why they prefer this region has yet to be determined. Gold assay results of rock samples taken of the alteration have so far shown that they economically unimportant.

ANOMALY H
LOT 18, CONC. XV, S/2
SO1156654
23+00N, 1+62E
MAP 2B

This anomaly is a weak magnetic high within an area of rather low intensity. The anomaly occurs in overburden and until readings are taken towards the south no attempt will be made as to it's dimensions and probable cause. With the present state of coverage in this area, the anomaly should be overlooked as a possible target to be considered important. But since at occurs close to a recently discovered gold showing it is worth mentioning.

ANOMALY I
LOT 18, CONC. XV, S/2
SO1156654
23+00N, 0+50E
MAP 2B

This anomaly occurs very close to metasedimentary outcrops exposed along the river valley. The schists were noted to have traces of fine-disseminated pyrrhotite and pyrite. At present, the strike of this anomaly is open in the south direction.

ANOMALY J
LOT 18, CONC. XV, S/2
SO1156654
24+00N, 0+50W
MAP 2B

Anomaly J occurs in overburden. The closest outcrops consist of mafic metavolcanic flows. The survey is incomplete towards the south so that strike length can not be determined. It is not believed that anomalies I and J are the same. This is based on structural measurements made on outcrops exposed at anomaly I. No explanation can be made as to the nature of anomaly J.

ANOMALY K
LOT 18, CONC. XV, middle
SO1156654
23+00N, 2+75E to 27+00N, 2+00E
MAP 2B

This anomaly occurs in mafic metavolcanic flows. The anomaly has been prospected but no significant mineralization was observed. It is suggested that the magnetic response is caused by varied magnetic properties within or between mafic metavolcanic flow(s).

ANOMALY L
LOT 19, CONC. XV, N/2
SO1156650
27+00N, 0+75E to 29+00N, 0+50E
MAP 2C

Anomaly L occurs over a thin unit of metasedimentary schists. It is consistent with the strike of the unit and dips towards the southwest. The anomaly is caused by fine-disseminated pyrrhotite within the schists.

ANOMALY M
LOT 19, CONC. XV, N/2
LOT 20, CONC. XV, N/2
SO1156650
30+00N, 0+65E to 34+00N, 0+37E
MAP 2B, MAP 2C

This anomaly may be related to anomaly L. It is a strong, continual anomaly that dips SW along the south sections and appears almost vertical towards the north. This contrast is possibly structure related. Prospecting and mapping in the area have shown that the anomaly occurs over mafic and metasedimentary schists that have been intruded by mafic and felsic dikes. There is shearing, fracturing and veining within the schists. Arsenopyrite and gold values up to 1.2 g/t occur in the alteration. Disseminated pyrite and pyrrhotite occur in the schists. The anomaly is a result of the pyrrhotite.

ANOMALY N
LOT 19, CONC. XV, S/2
SO1194974
28+00N, 2+12W to 29+50N, 2+00W
MAP 2B, MAP 2C

Anomaly N is a very strong anomaly which trends NW and its strike length is open in both directions. It is possibly related to anomaly O but this is only speculated at the present time. The anomaly occurs in a shallow cut through mafic metavolcanic outcrops. This cut widens into a large swamp towards the SE. Prospecting could not locate an explanation for the anomaly but a large, angular block of chlorite schist was found on the anomaly. This rock was not magnetic although it is strongly sheared.

ANOMALY O
LOT 20, CONC. XV, N/2
LOT 20, CONC. XVI, S/2
33+00N, 1+00W to 38+00N, 0+25E
MAP 2C

Anomaly O is a well-defined anomaly that trends NW and dips shallow to moderately SW. It is intersected by anomaly M in the vicinity of line 35N. The anomaly is coincidental with a unit of metasedimentary schists and is believed to result from fine-disseminated pyrrhotite that occurs in the schists. Although much of the area is covered by overburden gold has been detected in one outcrop on the anomaly and in another near the north end. As stated before this anomaly could be related to anomaly N. How it is related to anomaly M can only be speculated although based on the magnetic results the two could be related by faulting or folding. Since no fold structures have been recognized in the area the intersection of the two anomalies must be a result of shearing.

ANOMALY P
LOT 21, CONC. XVI, S/2
SO1156653
36+00N, 2+00W to 37+00N, 1+70W
MAP 2C

This anomaly returned some of the strongest readings on the entire property. The anomaly occurs in mafic metavolcanic flows and chloritized mafic metavolcanic schists. Prospecting has revealed a discrete structure that trends parallel to most geological rock units in the area. Some quartz veining was noted in the zone but lacked sulphide mineralization. Fine-disseminated pyrite and magnetite were observed in the schist and probably caused the magnetic high. The anomaly is open along its strike and appears to dip moderately SW. More work is needed to understand this zone since it is the only occurrence of magnetite-pyrite-chlorite seen on the property.

ANOMALY Q
LOT 20, CONC. XVI, S/2
SO1156653
36+00N, 1+75E to 37+00N, 2+12E
MAP 2C

This anomaly is coincidental with conductor R. The magnetic signature suggests that the dip is NE which is similar to that of the conductor. Prospecting of the anomaly has revealed Fe-carbonate alteration in mafic metavolcanics outcropping close to the anomaly and, metasedimentary float on the anomaly axis. The orientation of the trend is somewhat different than what geological measurements have shown except for an isolated set of joints measured proximal to the anomaly. This has encouraged the idea of a possible fault occurring within the area. Establishing survey lines to the north will help an interpretation. At present the magnetics suggests pyrrhotite mineralization in a metasedimentary unit.

ANOMALY R
LOT 20, CONC. XVI, S/2
SO1156653
38+00N, 1+50E
MAP 2C

Anomaly R is located in overburden of the edge of a locally flooded section of the river. The anomaly was detected on the last reading taken before the line was discontinued. Until more readings are available no attempt at this time, will be made as to the nature of this anomaly but it should be pointed out that the anomaly occurs in the "up ice" direction of some boulders that contain significant gold values grading up to 3.1 g/t. Rock type and mineralization is identical to that of other showings along the Black River.

III. CONCLUSIONS AND RECOMMENDATIONS

Each of the geophysical methods used on the property has proven to be very successful. Both instruments have reacted with certain properties of the rock units so that zones can easily be defined, even in areas of overburden.

Over the known gold showings both instruments reacted well. The magnetometer appears to be the best trusted of the two because it does not react with surfacial features as would a VLF:EM-16 when surveying over swamps and hills. Not only did the magnetometer define the trends of metasedi-mentary schist units as magnetic highs it also showed that "spot highs" occur where gold was found in the schists. The correlation of the two phenomena has not been established although an answer may be found with the possibility of relativily young structures that crosscut areas of the property.

At the present state of the geophysical surveys more work will be needed to define the full extent of rock units that host the gold occurrences in the Black River area. Sections of the grid were inaccessible last fall due to swamps and unusually high water levels in the river. The same geophysical methods will be employed this winter over these regions. Other areas to survey include an expansion of the grid to the north and to the west. This will follow-up strike extensions and explore for parallel environments that may be present in lineaments west of the Black River. To eliminate confusion between surface conductors, geological structure, and sulfide mineralization, the surveys: Max-Min or I.P. should be considered before drilling any conductive bodies.

respectivily submitted

Robert J. Dillman, B.Sc, Geologist
January 5, 1993

REFERENCES

Christie, B.J., 1992. Report on Prospecting, Geological Mapping, and Soil Sampling, Dillman Black River Property, Grimsthorpe Township, Southern Ontario Mining Division, Ontario. Unpublished internal report for Homestake Canada Ltd.

Dillman, R.J., 1992. Report on Geological Mapping, Prospecting, and Trenching, Black River Property, Grimsthorpe Township, Southern Ontario Mining Division, Ontario. Report for the Ontario Prospectors Assistance Program, file no. OP92-235

Dillman, R.J., 1991. Report on Prospecting, Grimsthorpe Township, Hastings County, Ontario. Report for the Ontario Prospectors Assistance Program, file no. OP91-535

Easton, R.M., and Ford, F., 1990. Geology of the Grimsthorpe Area. In Summary of Field Work and Other Activities 1990, Ontario Geological Survey, Miscellaneous Paper 151, p. 99-110.

Meen, V.B., 1942. Geology of the Grimsthorpe-Barrie Area; Ontario Department of Mines, Vol. 51, pt. 4, p. 1-50 (with Map 51d: published 1944).

C E R T I F I C A T E

I, ROBERT JAMES DILLMAN, do hereby certify as follows:

[1] THAT I am a Mining Exploration Geologist, and that I reside and carry on business at 42 Springbank Drive, in the City of London, Province of Ontario.

[2] THAT I am a Graduate of the University of Western Ontario, with a Bachelor of Science Degree in Geology, 1992.

[3] THAT I have been practising my profession since 1992.

[4] THAT I have been actively prospecting in Canada since 1978.

[5] THAT my Report, dated January 5, 1993, on the Black River Property of Grimsthorpe Township is based on information collected by myself between 1991 and the date of this report, and on other sources of information cited in this Report.

[6] THAT I have a 100% interest in the Black River Property and any information given in this Report is as accurate as to the best of my knowledge, and THAT I am not making any false statements to better the position of the property for personal gain.

R.J. Dillman, B.Sc.

Dated at London, Ontario
This 8th day of January, 1993

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MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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FAX: (416) 890-8575

14-Aug-91

MR. R. DILLMAN
42 Springbank Drive
London, ON
N6J 1E3

Page: 2
Copy: 1 of 1

Attn: R.Dillman
Project:

Received: 19-Jul-91 17:03
PO #:

Job: 911211 Status: Final

Sample	Au FA/AA1 ppb
77476	5
77477	5
77478	5
77479	<3
77480	<3
77482	1200
77483	<3
77485	105
77486	250
77487	130

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26-Sep-91

MR. R. DILLMAN
42 Springbank Drive
London, ON
N6J 1E3

Attn: R.Dillman
Project:

Received: 24-Sep-91 13:59
PO #:

Job: 911323

Status: Final

Sample	Au FA/AA1 ppb
77488	11
77489	61
77490	20
77491	570
77492	16
77493	10
77494	6780
77495	35
77496	19
77497	24
77498	16
77499	10
77500	74
78051	13
78052	6
78053	8
78054	7
78055	80
78056	8

Abbreviations:

Parameters:

Au : Gold

Methods:

FA/AA1 : Fireassay/Atomic Absorption(1 assay ton)

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9-Oct-91

R.Dillman

42 Springbank Drive
London, ON
N6J 1E3

Attn: R.Dillman
Project:

Received: 3-Oct-91 14:58
PO #:

Job: 911334

Status: Final

Sample	Au FA/AA1 ppb
78057	17
78058	16
78059	62
78060	6
78061	7
78062	9
78063	8
78064	3
78065	160
78066	5
78067	270
78068	836
78069	8
78070	65
78071	5
78072	7
78073	885
78074	970
78075	327

iv

Abbreviations:

Parameters:

Mo : Molybdenum

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31-Oct-91

R.Dillman

42 Springbank Dr.
London, ON
N6J 1E3

Attn: R.Dillman
Project:

Received: 29-Oct-91 08:43
PO #:

Job: 911354 Status: Final

Sample	Au FA/AA1 ppb
78076	6
78077	14
78078	10
78079	285
78080	518
78081	6
78082	530
78083	847
78084	136
78085	450
78086	495
78087	3200
78088	3910
78089	11
78090	45
78091	21600
78092	29
78093	203
78094	7
78095	1800
78096	2
78115	37
78116	5970
78117	6020
78118	124
78119	26

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21-Oct-91

R.Dillman

Apt#3,42 Springbank Dr.
London, ON
N6J 1E3

Attn: R.Dillman
Project:

Received: 16-Oct-91 11:19
PO #:

Job: 911341

Status: Final

Sample	Au FA/AA1 ppb
78101	1790
78102	1700
78103	1730
78104	870
78105	11500
78106	2410
78107	37
78108	9
78109	14
78110	5
78111	7
78112	7380
78113	68
78114	12500

Abbreviations:

Parameters:

Au : Gold

Methods:

FA/AA1 : Fireassay/Atomic Absorption(1 assay ton)

Units:

ppb : parts per billion

Job approved by:

Signed: .....

Margaret E. Dancziger
Supervisor, Geochemistry/Fire Assay Services

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31-Oct-91

R.Dillman

42 Springbank Dr.
London, ON
N6J 1E3

Attn: R.Dillman
Project:

Received: 29-Oct-91 08:43
PO #:

Job: 911354 Status: Final

Sample	Au FA/AA1 ppb
78120	196
78121	2130
78122	5
78123	5120
78124	69
78125	2010

Abbreviations:

Parameters:

Au : Gold

Methods:

FA/AA1 : Fireassay/Atomic Absorption(1 assay ton)

Units:

ppb : parts per billion

Job approved by:

Signed:

.....

Margaret E. Dancziger
Supervisor, Geochemistry/Fire Assay Services

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9-Oct-91

R.Dillman

Page: 1
Copy: 1 of 2

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Attn: R.Dillman
Project:

Received: 3-Oct-91 14:58
PO #:

Job: 911334

Status: Final

Sample	Mo ICAP ppm	Cu ICAP ppm	Pb ICAP ppm	Zn ICAP ppm	Ag ICAP ppm	Ni ICAP ppm	Co ICAP ppm	Mn ICAP ppm	Fe ICAP %	As ICAP ppm	Au ICAP ppm	Hg ICAP ppm	Sr ICAP ppm	Cd ICAP ppm	Sb ICAP ppm	Bi ICAP ppm	V ICAP ppm	Ca ICAP %
78067	11	78	7	68	0.1	58	118	497	5.70	26900	<3	<3	20	1	10	6	85	0.32
78068	14	18	6	51	0.1	44	27	439	4.85	47300	3	3	12	1	12	6	49	0.53
78073	11	196	15	37	1.0	62	92	191	6.31	24100	<3	3	8	1	5	8	53	0.19
78074	11	223	43	81	0.9	82	53	302	8.25	12300	<3	<3	12	1	6	4	102	0.17

Sample	P ICAP %	La ICAP ppm	Cr ICAP ppm	Mg ICAP %	Ba ICAP ppm	Ti ICAP %	B ICAP ppm	Al ICAP %	Na ICAP %	Si ICAP %	W ICAP ppm	Be ICAP ppm
78067	0.07	14	32	1.16	112	0.12	579	1.88	0.16	0.01	9	2
78068	0.06	10	39	0.91	103	0.06	522	0.92	0.10	0.01	20	1
78073	0.07	8	37	0.53	63	0.06	1020	1.30	0.09	0.01	6	1
78074	0.07	20	27	0.96	72	0.11	889	2.07	0.08	0.02	129	2

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14-Aug-91

MR. R. DILLMAN
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London, ON
N6J 1E3

Attn: R.Dillman
Project:

Received: 19-Jul-91 17:03
PO #:

Job: 911211

Status: Final

Sample	Mo ICAP ppm	Cu ICAP ppm	Pb ICAP ppm	Zn ICAP ppm	Ag ICAP ppm	Ni ICAP ppm	Co ICAP ppm	Mn ICAP ppm	Fe ICAP %	As ICAP ppm	Au ICAP ppm	Hg ICAP ppm
77481	12	58	9	45	0.2	7	9	348	11.3	4	ND	ND

Sample	Sr ICAP ppm	Cd ICAP ppm	Sb ICAP ppm	Bi ICAP ppm	V ICAP ppm	Ca ICAP %	P ICAP %	La ICAP ppm	Cr ICAP ppm	Mg ICAP %	Ba ICAP ppm
77481	4	1	4	2	77	0.56	0.07	7	41	0.37	48

Sample	Ti ICAP %	B ICAP ppm	Al ICAP %	Na ICAP %	Si ICAP %	W ICAP ppm	Be ICAP ppm
77481	0.04	37	0.80	0.10	0.01	4	1

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Certificate of Analysis

Dillman Mr. R.
42 Springbank Dr.
LONDON, Ontario
N6J 1E3

October 14 92

Work Order # : 920371
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
260724	69551	339	0.010	
260725	69552	117	0.003	
260726	69553	314	0.009	
260727	69554	1332	0.039	
260728	69555	9	<0.001	
260729	69556	77	0.002	
260730	69557	<5	<0.001	
260731	69558	<5	<0.001	
260732	69559	6	<0.001	
260733	69560	5	<0.001	
260733	69560	5	<0.001	Check
260734	69561	3505	0.102	
260735	69562	927	0.027	
260736	69563	37	0.001	
260737	69564	56832	1.654	
260738	69565	682	0.020	
260739	69566	680	0.020	
260740	69567	33	0.001	
260741	69568	13	<0.001	
260742	69569	3327	0.097	
260742	69569	2891	0.084	Check
260743	69570	3535	0.103	
260744	69571	7	<0.001	
260745	69572	19	0.001	
260746	69573	9	<0.001	
260747	69574	8	<0.001	
260748	69575	10	<0.001	
260749	69601	<5	<0.001	
260750	69602	534	0.016	
260751	69603	20218	0.588	
260751	69603	17089	0.497	Check

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LONDON, Ontario
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October 14 92

Work Order # : 920371
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
260752	69604	2208	0.064	
260753	69605	2267	0.066	
260753	69605	2069	0.060	Check

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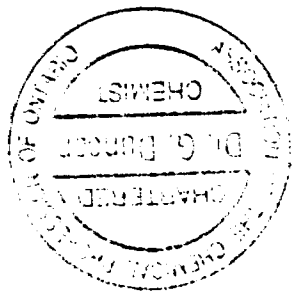
LONDON, Ontario
N6J 1E3

October 21 92

Work Order # : 920389
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
260992	69606	5	<0.001	
260993	69607	<5	<0.001	
260994	69608	<5	<0.001	
260995	69609	94	0.003	
260996	69610	117	0.003	
260997	69611	582	0.017	
260998	69612	9	<0.001	
260999	69613	18	0.001	
261000	69614	28	0.001	
261001	69615	39	0.001	
261001	69615	38	0.001	Check
261002	69616	8	<0.001	
261003	69617	<5	<0.001	
261004	69618	<5	<0.001	
261005	69619	<5	<0.001	
261006	69620	480	0.014	
261007	69621	968	0.028	
261008	69622	3386	0.099	
261009	69623	1569	0.046	
261010	69624	123	0.004	
261010	69624	145	0.004	Check
261011	69625	35	0.001	
261012	69626	241	0.007	
261013	69627	<5	<0.001	
261014	69628	94	0.003	
261015	69629	573	0.017	
261016	69630	<5	<0.001	
261017	69631	15	<0.001	
261018	69632	<5	<0.001	
261019	69633	5	<0.001	
261019	69633	11	<0.001	Check



Per: G. Duncan

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Certificate of Analysis

Dillman Mr. R.
42 Springbank Dr.
LONDON, Ontario
N6J 1E3

October 21 92

Work Order # : 920389
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
261020	69634	1301	0.038	
261021	69635	<5	<0.001	
261021	69635	<5	<0.001	Check

CHARTERED ... Duncan ... PRESIDENT

LF-20

Per: G. Duncan

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46404

Certificate of Analysis

Dillman Mr. R.
42 Springbank Dr.
LONDON, Ontario
N6J 1E3

November 6 92

Work Order # : 920412
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
261199	69636	795	0.023	
261200	69637	9	<0.001	
261201	69638	5	<0.001	
261202	69639	2832	0.082	
261203	69640	16	<0.001	
261204	69641	710	0.021	
261205	69642	13	<0.001	
261206	69643	102	0.003	
261207	69644	<5	<0.001	
261208	69645	136	0.004	
261208	69645	74	0.002	Check
261209	69646	41	0.001	
261210	69647	3119	0.091	
261211	69648	5525	0.161	
261212	69649	4426	0.129	
261213	69650	37	0.001	
261214	69651	164	0.005	
261215	69652	1881	0.055	
261216	69653	527	0.015	
261217	69654	72	0.002	
261217	69654	185	0.005	Check
261218	69655	7	<0.001	
261219	69656	3059	0.089	
261220	69657	672	0.020	
261221	69658	2168	0.063	
261222	69659	21911	0.638	
261223	69660	16	<0.001	
261223	69660	15	<0.001	Check

LF-38

Per: G. Duncan

ORIGINAL

ACCURASSAY LABORATORIES

A DIVISION OF BARRINGER LABORATORIES LIMITED, REXDALE, ONTARIO
BOX 426
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J1
TEL.: (705) 567-3361

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

46362

Certificate of Analysis

Dillman, Mr. R.
42 Springbank Dr.
LONDON, Ontario
N6J 1E3

November 19 92

Work Order # : 920426
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold ppb	Gold Oz/T	
261489	69661	553	0.016	
261490	69662	6	<0.001	
261491	69663	1090	0.032	
261492	69664	1644	0.048	
261493	69665	41	0.001	
261494	69666	65	0.002	
261495	69667	18	0.001	
261496	69668	10	<0.001	
261497	69669	724	0.021	
261498	69670	1095	0.032	
261498	69670	1077	0.031	Check
261499	69671	2347	0.068	
261500	69672	5	<0.001	
261501	69673	7	<0.001	
261502	69674	340	0.010	
261503	69675	1097	0.032	
261504	69676	188	0.005	
261505	69677	1225	0.036	
261506	69678	361	0.011	
261507	69679	1263	0.037	
261507	69679	1064	0.031	Check
261508	69680	58	0.002	
261509	69681	85	0.002	
261510	69682	4634	0.135	
261511	69683	4446	0.129	
261512	69684	20	0.001	
261513	69685	2782	0.081	
261513	69685	2822	0.082	Check

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
Dr. G. Duncan
CHEMIST

LF-30

Per: G. Duncan

ORIGINAL

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

16-Jun-92

HOMESTAKE MINERAL DEVELOPMENT COMPANY
Suite 2116
120 Adelaide St. West
Toronto, ON
M5H 1T1

Page: 8
Copy: 1 of 2

Attn: B. Christie
Project:

Received: 29-May-92 15:38

PO #:

Job: 921043

Status: Preliminary

Sample Id	Au FA/AA ppb	As Hyd-AA ppm	
			Rocks
DG - 5512	5	2.3	
5513	<5	2.3	
5514	8	0.8	
5515	<5	1.4	
5516	11	2.1	
5517	16	1.0	
5518	14921	21000	
5519	54	150.	
			Rocks
5520	114	46.0	
			Rocks
5521	14	15.0	

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8556
FAX: (416) 890-8575

16-Jun-92

HOMESTAKE MINERAL DEVELOPMENT COMPANY
Suite 2116
120 Adelaide St. West
Toronto, ON
M5H 1T1

Page: 9
Copy: 1 of 2

Attn: B. Christie
Project:

Received: 29-May-92 15:38

PO #:

Job: 921043

Status: Preliminary

Rocks

Sample Id	Au FA/AA ppb	As Hyd-AA ppm
5522	1921	16000
5523	15	80.0
5524	506	7000.
5525	9	30.0
5526	70	21000
5527	1201	34000

Ontario

900

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Mining Lands Section
Geoscience Approvals Section
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

December 24 , 1993

Our File: 2.15148
Transaction #: W9390.00061

Mining Recorder
Ministry of Northern
Development and Mines
MacDonald Block, Room M2-17
900 Bay Street
Toronto, Ontario
M7A 1C3

Dear Sir/Madam:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS SO1150984 ET AL IN GRIMSTHORPE TOWNSHIP

The deficiencies noted in the Notice of Credit Reduction and Deficiency dated December 6, 1993 have been rectified.

The assessment work credits for Geology and Geophysics filed under Sections 12 and 14 of the Mining Act Regulations have been approved as outlined on the original submission.

The approval date is December 23, 1993.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

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

LJ/ls

cc: Resident Geologist
Tweed, Ontario

✓ Assessment Files Office
Toronto, Ontario

Ministry of Northern Development and Mines

Ontario

RES. GEOL. TWEED

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9390.00061

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.15143

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s)		Client No.
ROBERT JAMES DILLMAN		125989
Address		**Telephone No.**
42 SPRINGBANK DRIVE, LONDON, ONTARIO, N6J 1E3		(519) 645-2612
Mining Division	**Township/Area**	**M or G Plan No.**
SOUTHERN ONTARIO DIVISION	GRIMSTHORPE TOWNSHIP	M 97
Dates Work Performed From: Oct. 2, 1991	To: DEC. 12, 1991	
SEPT. 23, 1992	JAN. 11, 1993	

Work Performed (Check One Work Group Only)

	Work Group	Type
X	Geotechnical Survey	GEOLOGICAL, GEOPHYSICAL (MAGNETICS & VLF-ELECTROMAGNETIC)
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

D 102/2.

RECEIVED
SEP 14 1993
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs $ 29008 ✓

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
ROBERT J. DILLMAN	42 SPRINGBANK DRIVE, LONDON, ONTARIO, N6J 1E3

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

	Date	Recorded Holder or Agent (Signature)
I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	JULY 16, 1993	R.J. Dillman

Certification of Work Report

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

Name and Address of Person Certifying

ROBERT J. DILLMAN 42 SPRINGBANK DRIVE, LONDON, ONTARIO, N6J 1E3

Telepone No.	Date	Certified By (Signature)
(519) 645-2612	JULY 16, 1993	R.J. Dillman

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
$29,008	Sept 8/93	Acting D Mallymore.	SOUTHERN ONTARIO MINING DIVISION RECEIVED OCT 21 1993 AM PM
	Deemed Approval Date Dec 2/93 OCT 19/93	Date Approved	
	Date Notice for Amendments Sent		

0241 (03/91)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	1150984	2	5364	1600	1857	1907
	1150985	2	3288	1600	1347	341
	1150986	2	3049	1600		1449
	1156635	4	1453	3200		
	1156636	4	1343	3200		
	1194973	1	1880	800		1080
	1194974	1	1386	800		586
	1156654	2	2326	1600		726
	1156650	2	3252	1600	1077	575
	1156653	2	4891	1600	1747	1544
	1194942	2	523	1600		
	1194943	2	253	1600		
	12		29008	20800	6028	8208
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

0241 (03/81)

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☒ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed

Signature

Date JULY 16, 1993

APPENDIX

PLEASE (IF NEEDED) CUT BACK CREDITS IN THIS ORDER:

1194943
1194942
1194974
1194973
1156654
1156635
1156636
1150985
1150986
1156653
1150984
1156650

ROBERT J. DILLMAN

JULY 16, 1993

Ontario

Ministry of Northern Development and Mines

Mir [redacted] du Dé [redacted]ppement 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: W9390.00061

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 quesiton sur la collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e 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		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type CONSULTANT	21255	
			21255
Supplies Used Fournitures utilisées	Type ASSAYS (ROCK)	2520	
	SUPPLIES (see note)	398	
			2918
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		24173

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 ROAD $0.30/km	2542	
	SAMPLE SHIPMENT 159		
			2701
Food and Lodging Nourriture et hébergement	FOOD & LODGING	2917	2917
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		5618
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			4835
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)	**Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)**		29008

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

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

2. 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
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.

2. 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	Évaluation totale demandée
× 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 RECORDED HOLDER 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.

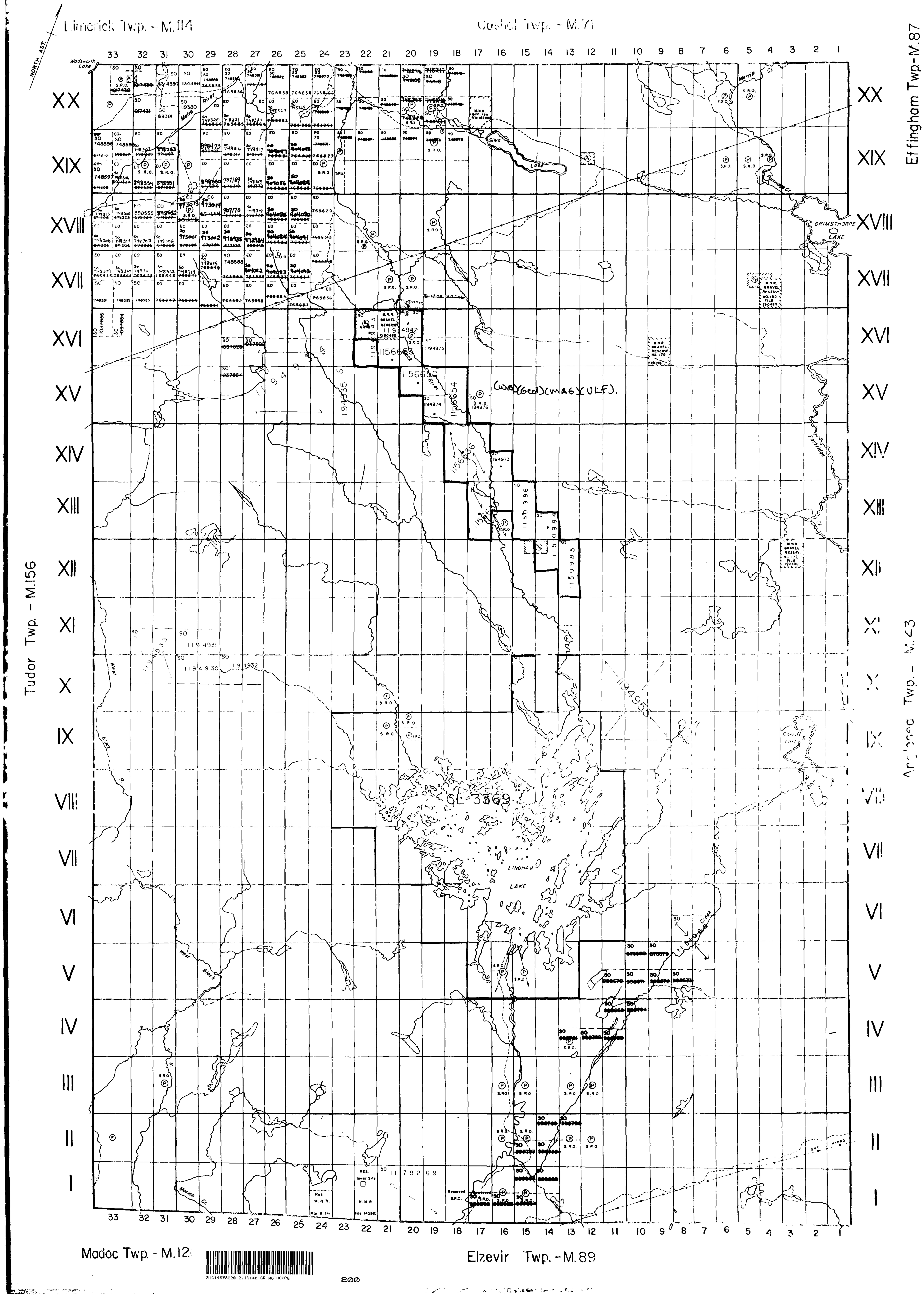
Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date
[signature]	JULY 16, 1993

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre



THE TOWNSHIP

OF

GRIMSTHORPE

COUNTY OF HASTINGS

SOUTHERN ONTARIO

MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KINGS HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.
QUARRY PERMIT	Ⓖ

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

SAND and GRAVEL

- Ⓖ QUARRY PERMIT
- G_1 M.N.R. 6F6 GRAVEL RESERVE
- G_2 M.N.R. 6F7 GRAVEL RESERVE
- G_3 M.N.R. 6F8 GRAVEL RESERV.
- G_4 M.N.R. 6F9 GRAVEL RESERVE
- G_5 M.N.R. 6F GRAVEL RESERVE

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
G_1	SEC 36 /80	W 9/82	12/12/82	S.R.O.	182950

DATE OF ISSUE
SEP 08 1993
SOUTHERN ONTARIO MINING DIVISION

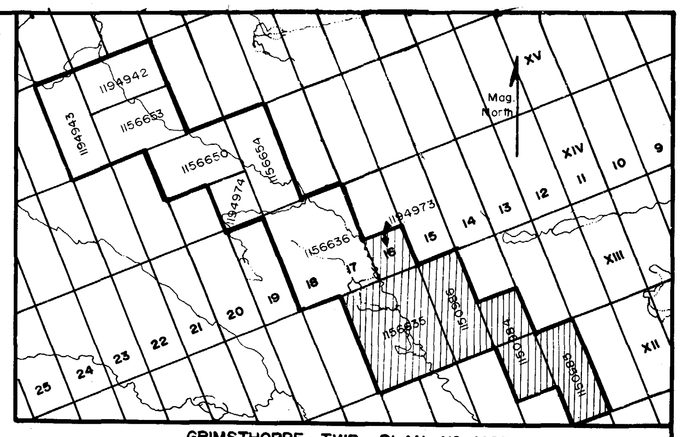
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

PLAN NO.-M.97

ONTARIO

MINISTRY OF NATURAL RESOURCES

2.15148



13N 12N 11N 10N 9N 8N 7N 6N 5N 4N 3N 2N 1N 0 1S 2S 3S 4S 5S 6S 7S 8S 9S 10S 11S

LOT 14

CONC. XII

TRUE NORTH

MAGNETIC NORTH

1194973

1150986

1150984

1150985

1156636

BLACK

1156635

RIVER

LINGHAM LAKE ROAD

CONC. XIII

LOT 15

LOT 16

LOT 17

LOT 14

LOT 13

LEGEND

4 Aplite dikes

3 Marble

2 Schists
- a mafic schist
- b argillite, greywacke, phyllite schists
- c quartz-feldspar-biotite

1 Mafics
- a basalt
- b gabbroic flows
- c agglomerate

SYMBOLS

outcrop		78078	sample number
rubble crop			clearing
float			pond
foliation + dip		BD	beaver dam
schistosity + dip			swamp
strike + dip of vein			road
As	arsenopyrite	py	pyrite
po	pyrrhotite	mag	magnetite
contact			hill top, slope

GEOLOGY

GRIMSTHORPE TOWNSHIP ONTARIO

DATE: NOV. 1992	MAP N° 1A
SCALE: 1:2,500	DRAWN BY RJD

31C14SW0028 2.15148 GRIMSTHORPE

LEGEND

4 Aplite dikes
3 Marble
2 Schists
a mafic metavolcanic schists
b argillite, greywacke, graphitic schists
c quartz-feldspar-biotite schist
1 Mafic metavolcanics
a basalt
b gabbroic flows
c agglomerate

SYMBOLS

	outcrop	78078	sample number
RC	rubble crop		clearing
•	float		pond
	foliation + dip	BD	beaver dam
	schistosity + dip		swamp
	strike + dip of vein		road
	jointing + dip		hill top + slope direction
Au	gold	py	pyrite
As	arsenopyrite	po	pyrrhotite
mag	magnetite		contact

GEOLOGY 2.15148

GRIMSTHORPE TOWNSHIP ONTARIO

DATE: NOV. 1992 | MAP Nº 1B
SCALE 1:2,500. | DRAWN BY RJD

220

GEOLOGY 2.15148
GRIMSTHORPE TOWNSHIP
ONTARIO
DATE: NOV. 1992
MAP Nº 1C
SCALE 1:2,500
DRAWN BY RJD
LEGEND
4 Aplite dikes
3 Marble
2 Schists
a mafic metavolcanic schists
b argillite, greywacke, graphitic schists
c quartz-feldspar-biotite schist
1 Mafic metavolcanics
a basalt
b gabbroic flows
c agglomerate
SYMBOLS
outcrop
rubble crop
float
foliation + dip
schistosity + dip
strike + dip of vein
jointing + dip
Au gold
As arsenopyrite
mag magnetite
78078 sample number
clearing
pond
BD beaver dam
swamp
road
hill top + slope direction
py pyrite
po pyrrhotite
contact
TRUE NORTH
MAGNETIC NORTH
metres
0
100
200
GRIMSTHORPE TWP., PLAN Nº. M97
39N
38N
37N
36N
35N
34N
33N
32N
31N
30N
29N
28N
27N
26N
LOT 18
LOT 19
LOT 20
LOT 21
LOT 22
CONC. XV
CONC. XVI
BLACK RIVER
SKOOTAMATTA ROAD
LINGHAM LAKE ROAD
1194942
1194943
1156650
1156653
1156654
1194974

230


MAGNETIC SURVEY
GRIMSTHORPE TOWNSHIP ONTARIO
DATE: NOV. 1992
MAP Nº 2A
SCALE: 1:2,500
DRAWN BY RJD
metres
0
100
200
GEM SYSTEMS GSM-8
VALUES BASED AT 56,000 GAMMAS
250 GAMMA CONTOUR INTERVAL
MAGNETIC LOW
GOLD OCCURRENCE
TRUE NORTH
MAGNETIC NORTH
GRIMSTHORPE TWP., PLAN Nº. M97
2.15148
CONC. XII
CONC. XIII
LOT 13
LOT 14
LOT 15
LOT 16
LOT 17
LINGHAM LAKE ROAD
BLACK RIVER
1150984
1150985
1150986
1156635
1156636
13N
12N
11N
10N
9N
8N
7N
6N
5N
4N
3N
2N
1N
0
1S
2S
3S
4S
5S
6S
7S
8S
9S
10S
11S

240

29N 28N 27N 26N 25N 24N 23N 17N 16N 15N

LOT 18

LOT 19

LOT 20

LOT 17

CONC. XV

CONC. XIV

1156650

1156634

1156636

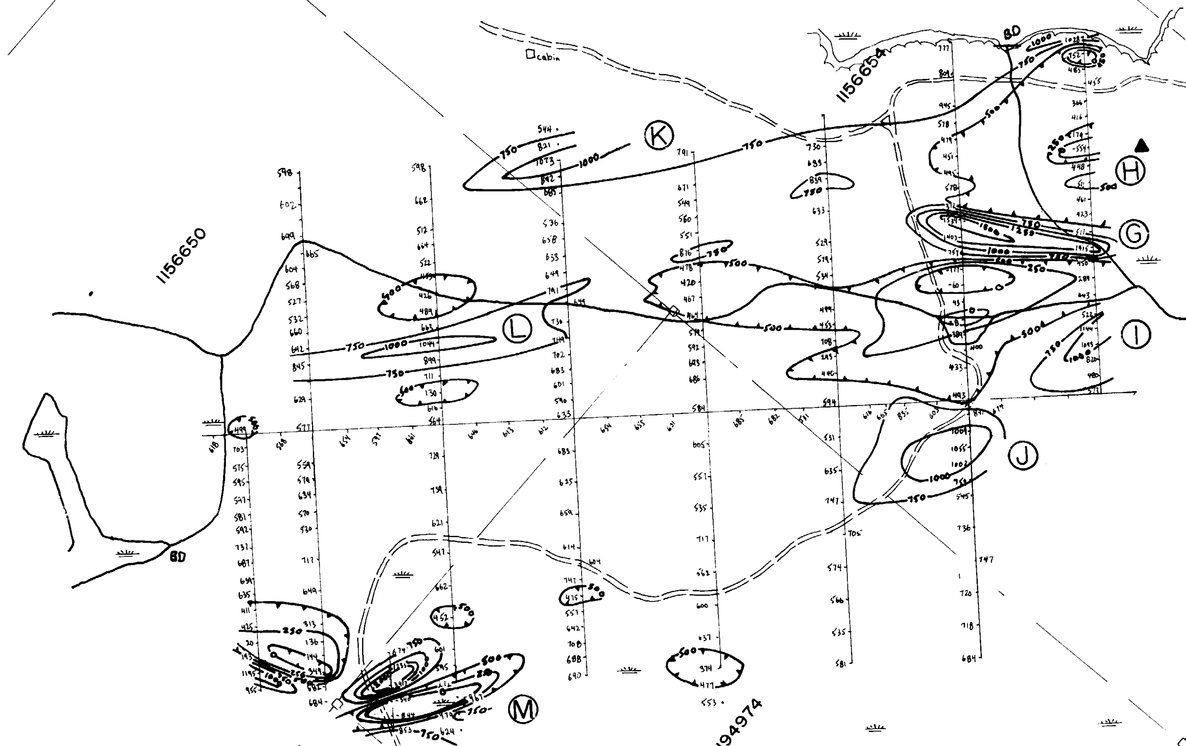
1156635

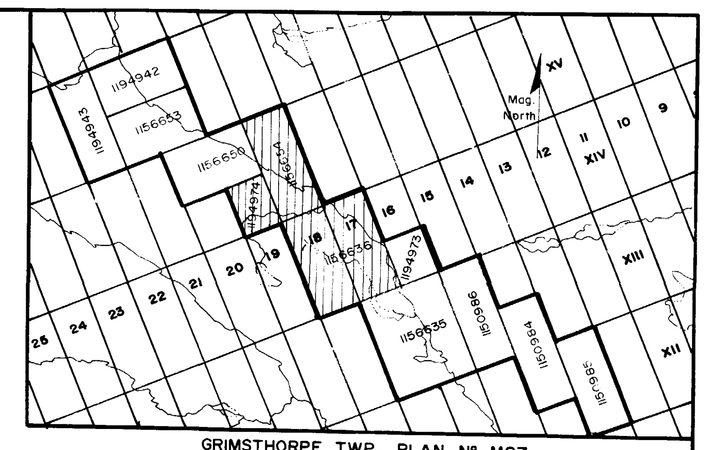
1194974

1194973

LINGHAM LAKE ROAD

BLACK RIVER





GRIMSTHORPE TWP., PLAN Nº. M97

TRUE NORTH

MAGNETIC NORTH

GEM SYSTEMS GSM-8
VALUES BASED AT 56,000 GAMMAS
250 GAMMA CONTOUR INTERVAL
MAGNETIC LOW
▲ GOLD OCCURRENCE

metres
0 100 200

2.15118

MAGNETIC SURVEY

GRIMSTHORPE TOWNSHIP ONTARIO

DATE: NOV. 1992	MAP Nº 2B
SCALE 1:2,500	DRAWN BY RJD

31014098628 2.15148 GRIMSTHORPE

250


39N
38N
37N
36N
35N
34N
33N
32N
31N
30N
29N
28N
27N
26N
LOT 20
LOT 19
LOT 18
LOT 21
LOT 22
CONC. XVI
CONC. XV
SKOOTAMATTA LAKE ROAD
BLACK RIVER
1194942
1156653
1156650
1156654
1194974
1194943
LINGHAM LAKE ROAD
TRUE NORTH
MAGNETIC NORTH
GRIMSTHORPE TWP., PLAN Nº. M97
GEM SYSTEMS GSM-8
VALUES BASED AT 56,000 GAMMAS
250 GAMMA CONTOUR INTERVAL
MAGNETIC LOW
GOLD OCCURRENCE
metres
0
100
200
MAGNETIC SURVEY
GRIMSTHORPE TOWNSHIP
ONTARIO
DATE: NOV. 1992
MAP Nº 2C
SCALE 1:2,500
DRAWN BY RJD

260


ELECTROMAGNETIC SURVEY
GRIMSTHORPE TOWNSHIP
ONTARIO
DATE: NOV. 1992
MAP Nº 3A
SCALE: 1:2,500
DRAWN BY RJD
2.15148
GRIMSTHORPE TWP, PLAN Nº. M.97
TRUE NORTH
INSTRUMENT ORIENTATION
MAGNETIC NORTH
STATION DIRECTION
grid line
reading station
inphase
quadrature
profile scale 1cm = 10%
Instrument: GEONICS EM-16
Station: CUTLER, MAINE (24 kHz)
CONDUCTOR
GOLD OCCURRENCE
metres
0 100 200
13N 12N 11N 10N 9N 8N 7N 6N 5N 4N 3N 2N 1N 0 1S 2S 3S 4S 5S 6S 7S 8S 9S 10S 11S
LOT 13
LOT 14
LOT 15
LOT 16
LOT 17
CONC. XII
CONC. XIII
BLACK RIVER
LINGHAM LAKE ROAD
1156636
1156635
1150984
1150985
1150986
1194973

2.15148

ELECTROMAGNETIC SURVEY

GRIMSTHORPE TOWNSHIP
ONTARIO

DATE: NOV. 1992	MAP Nº 3B
SCALE 1:2,500	DRAWN BY RJD

280

2.15148

ELECTROMAGNETIC SURVEY

GRIMSTHORPE TOWNSHIP
ONTARIO

DATE: NOV. 1992	MAP Nº 3C
SCALE 1:2,500	DRAWN BY RJD

290