



42A10NW0560 2.12325 DUNDONALD

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**SUMMARY OF
EXPLORATION ACTIVITIES
CONDUCTED ON THE FREDERICK HOUSE LAKE PROPERTY
MCCART AND DUNDONALD TOWNSHIPS
OF EBONY GOLD CORPORATION**

BY ROBERT DUESS B Sc.

Qual this file.

**DURHAM GEOLOGICAL SERVICES INC.
BOX 1330
TIMMINS, ONTARIO
P4N 7J8**

DECEMBER 31, 1988

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APR 5 1989

MINING LANDS SECTION



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TABLE OF CONTENTS

	<u>PAGE</u>
SUMMARY	i
INTRODUCTION	1
PROPERTY LOCATION AND ACCESS	1
HISTORY OF PREVIOUS EXPLORATION	3
1988 EXPLORATION PROGRAM	4
Linecutting	4
Geophysics	5
General Geology	6
North Grid	7
South Grid	7
DIAMOND DRILLING	8
EM-88-1	
EM-88-2	
EM-88-3	
EM-88-4	
CONCLUSIONS AND RECOMMENDATIONS	11
REFERENCES	14
CERTIFICATION	15

LIST OF FIGURES

Figure 1	Property Location Map
Figure 2	Claim Location Sketch
Figure 3	Grid Location Sketch
Figure 4	Geological Compilation North Grid
Figure 5	Geological Compilation South Grid
Figure 6 to 9	Drill Hole Profiles EM-88-1,2,3,4

APPENDICES

APPENDIX 1	Diamond Drill Hole Logs
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SUMMARY

The 1988 exploration program conducted on the Frederick House Lake Property (McCart and Dundonald townships) of Ebony Gold Corporation was directed at locating the western extension of the gold and arsenopyrite showings (including the Rowlandson zone) that exist immediately east of the property area. The exploration program was also directed at testing the magnetically interpreted ultramafic intrusive, that is situated in the south central portion of the property area, for gold and base metal mineralization.

The program did locate the western extension of the Rowlandson Zone (drill hole EM-88-2) which returned a value of 0.070 oz/ton Au over 0.3 meters. The western extension of an arsenopyrite showing situated approximately 400' north of the Rowlandson Zone was also located (EM-88-1) but did not yield any significant Au values.

No significant gold or base metal mineralization was encountered in association with the ultramafic intrusive situated in the southern portion of the property area.

The alteration zones intersected in holes EM-88-1 and EM-88-2 are considered favourable for hosting economic gold mineralization. In order to adequately test these zones an additional 1400 feet of BQ diamond drilling is recommended. If fully implemented, the proposed drill program is estimated to cost \$ 55,500.00.

INTRODUCTION

This report documents the results of exploration activities that were conducted from October 1, 1988 to Dec 22, 1988, on the Frederick House Lake Property (McCart and Dundonald townships) of Ebony Gold Corporation. During this period an initial exploration program consisting of linecutting, induced polarization (time domain) horizontal loop, magnetometer surveying, and geological mapping, prospecting was conducted over a portion of the property area. A BQ diamond drill program consisting of 4 holes representing a cumulative depth of 794.9 meters (2608 feet) was conducted in order to test geological and geophysical targets defined by the above mentioned programs.




PROPERTY, LOCATION AND ACCESS

The Frederick House Lake property of Ebony Gold Corporation consists of 87 contiguous and unpatented mining claims situated in McCart and Dundonald townships, within the Porcupine Mining Division of Northern Ontario.

The property is situated approximately 6.5 km west of Porquois Junction, and approximately 15.5 km south west of the town of Iroquois Falls.



LEGEND

-  Archean greenstone and associated Sediments
-  Granitic Terrain
-  Archean Sediments, some volcanics and intrusions

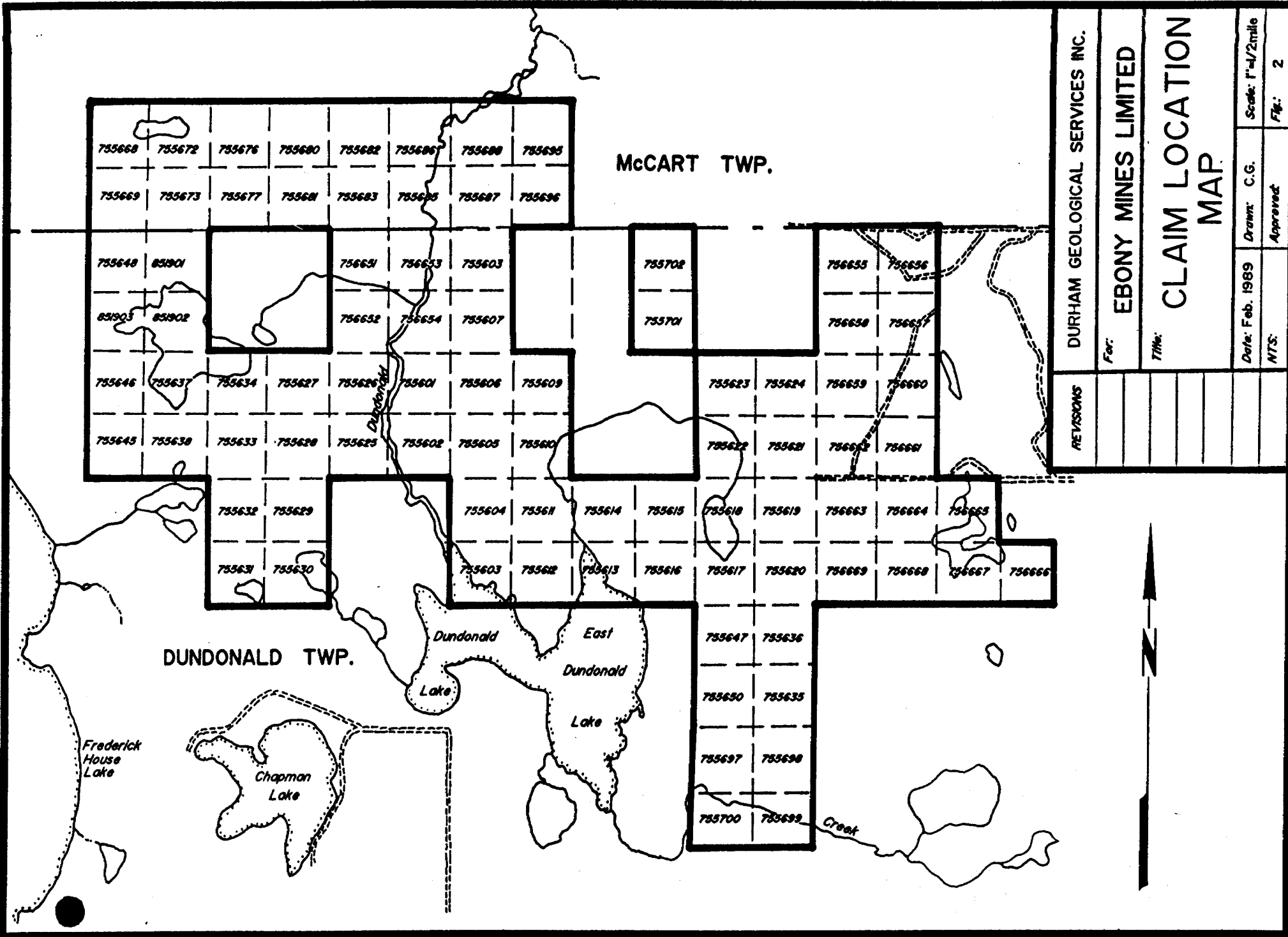
Revisions	DURHAM GEOLOGICAL SERVICES INC.		
	EBONY MINES LIMITED		
	PROPERTY LOCATION		
	Date Feb./89	Drawn K.B.	Scale 1:7,603,200
	N.T.S.	Approved B.D.	Figure 1

A gravel road which runs along a portion of the Dundonald-McCart township line links the eastern most portion of the property to Trans Canada Highway 11. Bush roads and trails extend off this main road unto the property area, thus providing relatively easy access.

The 87 claims which comprise the Frederick House Lake Property are listed with their respective expiry dates as follows:

CLAIM NO.	EXPIRY DATE
755645 - 755638 Incl.	March 31, 1989
755650	" " "
755668	" " "
755669	" " "
755672	" " "
755673	" " "
755676	" " "
755677	" " "
755680	" " "
755681	" " "
755682	" " "
755683	" " "
755685	" " "
755686	" " "
755687	" " "
755688	" " "
755695-755702 Incl.	" " "
756651-756669 Incl.	" " "
851901	" " "
851902	" " "
851903	" " "

Total 87 claims: Registered in the name of H.L. Mineral Holdings Ltd, Suite 1900, 999 West Hastings Street, Vancouver, B.C. V6C 2W2



REVISIONS	DURHAM GEOLOGICAL SERVICES INC.	
	For:	EBONY MINES LIMITED
	Title:	CLAIM LOCATION MAP
	Date: Feb. 1989	Scale: 1"=1/2mile
	Drawn: C.G.	Fig.: 2
	NTS:	Approved:



HISTORY OF PREVIOUS EXPLORATION

Exploration history of the area dates back to 1936 when gold was first discovered in quartz carbonate filled linear fault zones. These zones are situated immediately east of the North Grid of the Frederick House Lake property and strike N060E and dip steeply to the south.

In 1938, Erie Canadian Mines conducted sampling and trenching along the Rowlandson vein, and encountered values up to 0.12 oz/ton Au over 2.3 feet. In 1941 Aunor Gold Mines reported a best assay of 0.06 oz/ton Au from a grab sample from a "central pit", somewhere along the Rowlandson Zone.

In 1946 a geological report for Landson Porcupine Mines Ltd. report the following results from the "main or west test pit":

East end,	24" on hanging wall side	10.34 oz/ton Au
East end,	24" on footwall side	1.64 oz/ton Au
West end,	16" on hanging wall side	27.76 oz/ton Au
West end,	16" on footwall side	0.05 oz/ton Au

From the "east test pit", they report values of 0.03 oz/ton Au over 3.0 feet, and 0.05 oz/ton Au over 4.0 feet. Also documented are 2 veins situated further north, in McCart township, with values up to 0.80 oz/ton Au. A drill hole under a shaft on the "no. 1 vein" reportedly intersected 3.36 Oz/ton Au over 1.0 feet, and 3.16

oz/ton Au over 5.0 feet.

A diamond drill program consisting of 6 holes for a total of 2949 feet was also conducted by Landson Porcupine Mines Ltd. in 1946. The most significant results of this drill program include 0.05 oz/ton Au over 1.0 feet, and 0.05 oz/ton Au over 2.7 feet. These holes were drilled in a northwesterly direction under the Rowlandson Zone.

Since 1946 the exploration history of the Frederick House Lake property area consists entirely of geophysical surveys. In 1972-73 Asarco conducted a magnetic and electromagnetic survey over the eastern portion of the property area. In 1982 Cominco completed an electromagnetic program over the central part of the property, in search for base metal mineralization. In 1985 Angela Developments Ltd. conducted an airborne magnetic and VLF survey over the property area.

1988 EXPLORATION PROGRAM

LINECUTTING

Approximately 29.0 kilometres of grid lines were cut on the Frederick House Lake Property in the fall of 1988, by LaForest - Hlava Explorations Services Ltd. of Timmins, Ontario. Two separate

grids were established with line spacing at 100 meter intervals.

For the purpose of this report and as illustrated by Figure 3, the two separate grids have been designated as the North Grid, and the South Grid.

The North Grid covers the possible western extension of the Rowlandson Vein, and 2 other separate vein systems that are situated slightly further to the north.

The South grid covers two separate and previously untested electromagnetic conductors which lie in the vicinity of the magnetically interpreted ultramafic intrusion.

GEOPHYSICS

A ground geophysical program consisting of induced polarization (time domain) and magnetometer surveying was conducted over the North Grid and a program of horizontal loop and magnetometer surveying was performed over the South Grid. All geophysical surveys were conducted in the fall of 1988, by Exsics Explorations Limited, of Timmins, Ontario. For full results and details on procedures and equipment used the reader is referred to the respective geophysical reports on the property area by John Grant, Exsics Explorations Limited.

GENERAL GEOLOGY

The Frederick House Lake Property of Ebony Gold Corporation is geologically situated within the western portion of the Abitibi Greenstone Belt.

All bedrock in the region is Precambrian in age, and consists of steeply dipping, intrusive, volcanic and sedimentary rocks, regionally metamorphosed to greenschist facies or lower. More specifically these rocks are listed in succession as follows:

PRECAMBRIAN

MAFIC INTRUSIVE ROCKS

Diabase and Diorite dykes

Intrusive Contact

ULTRAMAFIC INTRUSIVE ROCKS

Dunite, peridotite, pyroxenite

Intrusive Contact

METASEDIMENTARY ROCKS

Conglomerate, greywacke-arenite,
Siltstone, argillite, graphitic
sediments

METAVOLCANIC ROCKS

Massive flows, pillowed flows, flow breccia
hyaloclastite, amygdaloidal flows

The grid covered portions of the property, and surrounding areas, were geologically examined by the writer from Nov 2 to Nov 15th, 1988. All cut grids lines were traversed.

NORTH GRID

With the exception of one outcrop, limited in extent and situated in the far eastern portion, the entire north grid is overburden covered. The outcrop occurs in the vicinity of L1W at 2+00S, and consists of dark green, massive porphyritic basalt (feldspar phenocrysts) and pillowed flows. The outcrop represents a relatively small portion of a very large outcrop that exists immediately east of the property area, and straddles the McCart-Dundonald township line. The Rowlandson Zone which consists of variable quartz-carbonate flooding with erratic sulphide-mineralization restricted to a linear fault zone occurs within the outcrop. The fault zone strikes N 60° E, dips steeply to the south, and is projected to cross the North Grid of the Frederick House Lake Property at L7W at about 2+00S.

SOUTH GRID

With the exception of one outcrop of dark green, fine grained pillowed basalt located on Line 6E, at 8+00N, the entire area covered by South Grid is overburden covered.

DIAMOND DRILLING

A diamond drill program consisting of 4 holes for a cumulative depth of 794.9 meters (2608 feet) was conducted on the Frederick House Lake Property of Ebony Gold Corporation. Diamond drilling was conducted from December 7, 1988 to December 17, 1988, and was performed by Norex Drilling Ltd, Porcupine, Ontario. Drill core was logged by the writer, and is currently being stored at the Aunor Minesite, Timmins, Ontario. Core samples were sent for assay to either Swastika Laboratories, Swastika, Ontario or Min En Laboratories in Timmins, Ontario.

Drill hole summaries are as follows:

EM-88-1 Location: North Grid; L2W 1+20S -50 GN
Total Depth: 187.15 meters (614.0 feet)

Hole EM-88-1 was drilled to test the western extension of the arsenopyrite - gold showing which outcrops approximately 300 meters east of the property area, and approximately 150 meters north of the Rowlandson Zone. With the exception of a strongly altered pillowed volcanic unit, the rocks intersected in this hole consist entirely of dark green, massive and relatively unaltered porphyritic basalt. The altered zone is situated at 132.80 to 145.39m, and consists of light grey, strong pervasively carbonatized and silicified pillowed volcanics, mineralized with

3 to 7% pyrite, and 1 to 2% fine erratic arsenopyrite. This altered zone is gradational with the surrounding massive, relatively unaltered porphyritic basalts. No significantly anomalous Au values were encountered from the 25 samples that were sent for assay. A 0.91 meter section of the altered volcanic zone returned the best Au assay of 40 ppb, with a corresponding arsenic assay of 1500 ppm (0.15%).

EM-88-2 Location: North Grid, L7W 2+80S -45 N015E
Total Depth: 286.05 meters (938.5 feet)

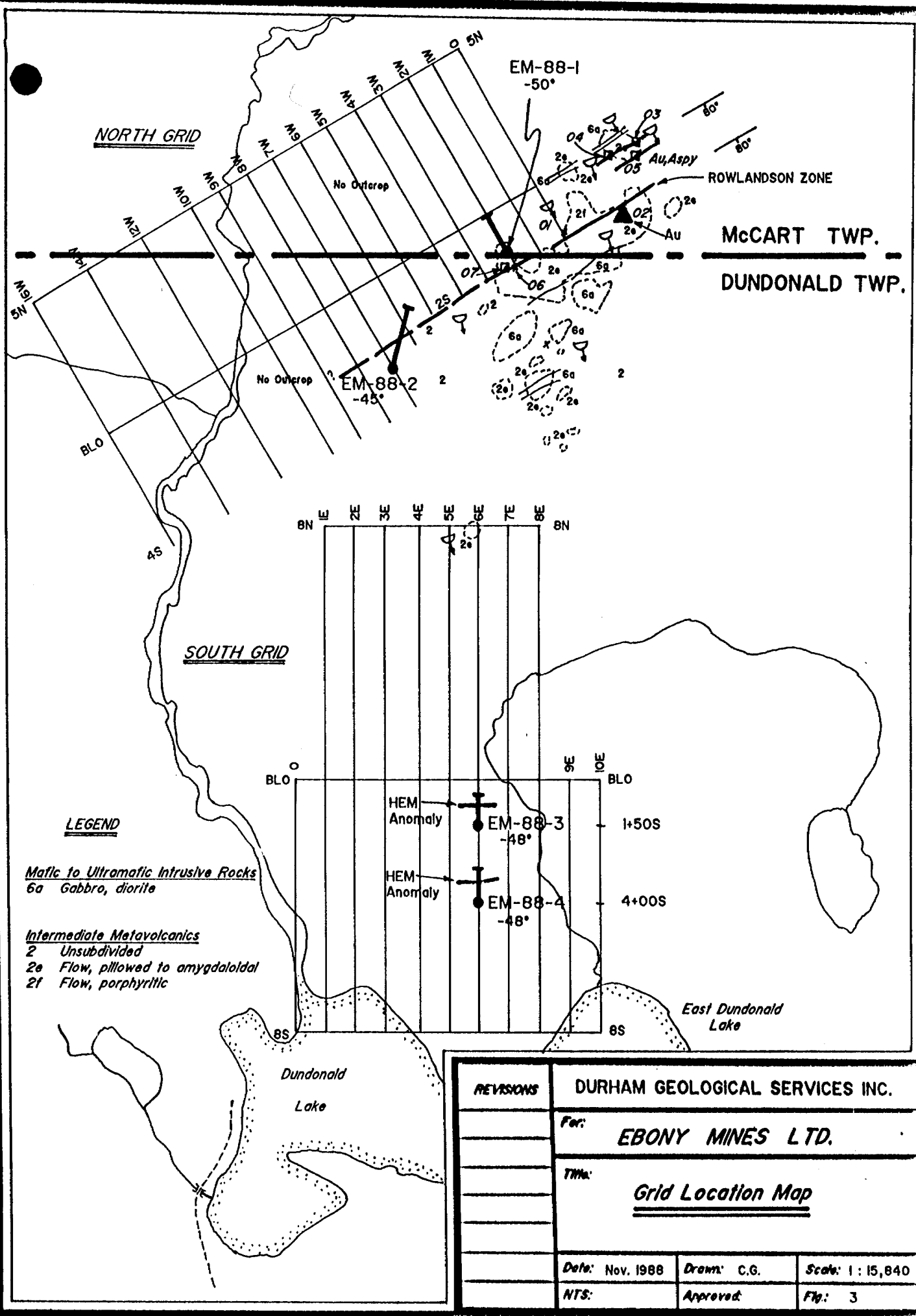
Hole EM-88-2 was drilled to test for the western extension of the Rowlandson vein. The geology intersected in this hole consists entirely of massive and pillowed mafic volcanic rocks. A section of light grey, altered (carbonatized and silicified) pillowed volcanics is situated at 78.03 to 85.95m, and is host to a 0.34m wide quartz carbonate vein, mineralized with 2 to 5% arsenopyrite. This quartz-carbonate vein which likely represents the extension of the Rowlandson vein returned the best Au assay of 2050 ppb (0.070 oz/ton Au) over 0.34 meters. Other anomalous values include 317 ppb Au over a 1.25 meter section of pillowed volcanics with 50 to 80% quartz carbonate veining (locally hematized) and 138 ppb Au over a 0.91 meter section of pillowed volcanics with some quartz carbonate veining.

EM-88-3 Location: South Grid, L6E 1+50S GN
Total Depth: 152.4 meters (500.0 feet)

A horizontal loop (max-min) anomaly that exists on L6E at approximately 1+00S coincides with the centre of a strong magnetic high (interpreted to be the an ultramafic intrusion). Hole EM-88-3 was drilled to test these coincidental anomalies for both gold and base metal mineralization. The rocks encountered in this hole consisted entirely of dark green to black, medium to fine grained, moderately magnetic ultramafics. Locally, the rocks are mineralized with 2 to 3% fine pyrrhotite. No significantly anomalous gold values were encountered from the 16 samples that were sent for assay. The rock was found to be weakly anomalous in nickel, with values ranging from 635 to 1949 PPM Ni.

EM-88-4 Location: South Grid, L6E 4+00S GN
Total Depth: 169.47 meters (556.0 feet)

Hole EM-88-4 was drilled to test a horizontal loop (max-min) anomaly that exists on L6E at about 3+50S. The rocks encountered in the upper portion of the hole, to 66.93 meters, consist of dark green, massive mafic volcanic rocks, followed by a dark green diorite-ultramafic dyke to 68.03 meters. The lower portion of the hole, from 68.03 meters, consists of arenaceous and graphitic sediments. The graphitic sediments are invariably pyritic and are the cause of the local anomalous EM response. The hole was



NORTH GRID

EM-88-1
-50°

ROWLANDSON ZONE

McCART TWP.

DUNDONALD TWP.

EM-88-2
-45°

SOUTH GRID

LEGEND

Mafic to Ultramafic Intrusive Rocks
6a Gabbro, diorite

Intermediate Metavolcanics
2 Unsubdivided
2e Flow, pillowed to amygdaloidal
2f Flow, porphyritic

HEM Anomaly

EM-88-3
-48°

HEM Anomaly

EM-88-4
-48°

East Dundonald Lake

Dundonald Lake

REVISIONS	DURHAM GEOLOGICAL SERVICES INC.		
	For:	EBONY MINES LTD.	
	Title:	<u>Grid Location Map</u>	
	Date: Nov. 1988	Drawn: C.G.	Scale: 1:15,840
	NTS:	Approved:	Fig: 3

abandoned at 556' due to an unconsolidated graphitic gouge and breccia. No economically significant Au values were encountered from the 80 samples that were sent for assay. An arsenic assay of 2150 PPM with a corresponding Au value of 26 PPB was returned from a 1.01 meter section of graphitic sediment mineralized with abundant clotted pyrite.

CONCLUSIONS AND RECOMMENDATIONS

An exploration program consisting of linecutting, geological mapping, prospecting, horizontal loop (max-min), induced polarization (time domain) and magnetic surveys was conducted on the Frederick House Lake property of Ebony Gold Corporation. A BQ diamond drill program consisting of 4 holes representing a cumulative depth of 794.9 meters (2608 feet) was conducted to test geophysical and geological targets outlined by the above mentioned programs.

Drill holes EM-88-3 and EM-88-4 were drilled to test horizontal loop anomalies that exist on the South Grid, in proximity to the magnetically interpreted ultramafic intrusion. No significant gold or base metal values were encountered, and based on the limited extent of mineralization and alteration no further drill testing of these anomalies is necessary.

Two separate altered volcanic zones mineralized with arsenopyrite were discovered on the North Grid by drill holes EM-88-1 and EM-88-2. The Rowlandson Vein, intersected by hole EM-88-2, is hosted by a 7.9 meter wide altered volcanic unit which yielded a value of 0.070 oz/ton Au over 0.30 meters. A similar altered volcanic zone, 12.6 meters wide, intersected in hole EM-88-1, returned negligible gold values.

The gold mineralization encountered in EM-88-2 is limited in extent. However, the associated alteration zones in both holes are similar, have considerable width and are considered favourable for hosting economic gold mineralization. Further diamond drilling is necessary to adequately test these altered zones for anomalous gold mineralization over economic widths.

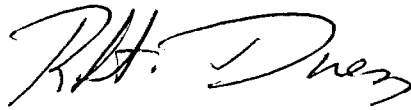
The writer recommends a limited diamond drill program consisting of 1400 feet, with estimated costs summarized as follows:

DIAMOND DRILLING

1400 feet of BQ @\$30/foot all inclusive	\$42,000.00
Core logging, splitting, assaying	6,000.00
Travel and Subsistence	<u>2,500.00</u>
Subtotal	\$50,500.00
10% contingency	<u>5,050.00</u>
Total	\$55,550.00

If fully implemented, the costs to complete the recommended program is estimated at \$ 55,550.00.

Respectively submitted,

A handwritten signature in cursive script, appearing to read "R.L. Duess". The signature is written in dark ink and is positioned above a horizontal line.

Robert L. Duess, B.Sc.
Durham Geological Services Ltd.
Box 1330
Timmins, Ontario.
P4N 7J8

CERTIFICATION

I, Robert L. Duess, of 231 Mack Street, Kingston, Ontario do hereby certify as follows concerning my Dec. 31, 1988 report on the Ebony Gold Corporation Property.

- 1) I am a graduate of the University of Toronto having obtained a Bachelor of Science Degree in Geology in 1982.
- 2) I have been practising my profession, primarily in Canada since 1982.
- 3) I have no direct or indirect interest in the properties, leases, or securities, of Ebony Gold Corp. nor do I expect to receive any.
- 4) That this report is the product of my knowledge of the area, and examination of previous work and reports, and information obtained during exploration programs conducted on the property area from Oct. 1, 1988 to Dec. 22, 1988.

Dated at Timmins

this 31st day of December, 1988



Robert L. Duess, B. Sc.

APPENDIX 1

DURHAM GEOLOGICAL SERVICES INC.

Co-ords: -120.0 N -200.0 E
 Elevation: .0 m
 Azimuth: .0

DIAMOND DRILL RECORD

Drilled by: Norex Drilling Ltd.
 Core stored at: Aunor Minesite
 Core Size: BQ

HOLE NO.: EM-88-1
 Property: Frederick House Lake
 EBONY GOLD MINES LTD.
 Date Started: 7 Dec 88
 Date Completed: 9 Dec 88
 Logged by: Robert Duess
 Material Left: Casing: 14 feet of BW.

Dip: -50.0

Length (m): 187.1

Purpose: To test west extension of Arsenopyrite Zone.

Dip Tests

45.72 .0 -50.0
 182.88 .0 -49.0

from (m)	to (m)	Description	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
.00	4.11	OVERBURDEN							
4.11	132.80	PORPHYRITIC BASALT Numerous (5 to 15%) coarse white feldspar phenocrysts in a fine to medium grained, dark green, homogeneous matrix. Non magnetic. Massive. Feldspar phenocrysts are generally subangular, slightly fractured - broken, occur randomly, and are about 1cm in diameter. Negligible mineralization and alteration, except as noted.							
6.40	9.14	Broken and blocky core.	27963	11.58	12.80	1.22	2		
11.83	11.92	White to light grey quartz carbonate vein at 45 degrees to core axis. Trace pyrite. Slight marginal epidote.							
12.31	12.56	Same as above. Trace pyrite.	27964	35.66	36.88	1.22	3		
35.88	36.58	5 to 10% erratic quartz carbonate flooding. Trace pyrite.	27965	45.26	45.72	.46	nil		
45.42	45.54	20 to 40% carbonate quartz flooding at 50 degrees to core axis. Trace pyrite.	27996	48.92	49.53	.61	nil		
49.07	49.38	Same as above.	27967	85.95	87.17	1.22	nil		
			27968	119.79	120.55	.76	nil		
119.97	120.40	10 to 20% carbonate quartz flooding. Trace pyrite.	27969	129.84	131.37	1.52	nil		
130.00	131.19	Slightly bleached - lighter grey in colour. Gradational. 40 to 60% carbonate quartz flooding at 130.70 to 130.19.	27970	131.37	132.80	1.43	nil		

DURHAM GEOLOGICAL SERVICES INC.

3

		HOLE NO. 1		EM-88-1						
from (m)	to (m)	-----Description-----		Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
171.08	171.18	White to pink (hematized) carbonate quartz veinlet at 45 degrees to core axis. Mineralized with 2 to 3% fine pyrite.		27987	178.00	179.22	1.22	nil		
178.13	178.76	Quartz carbonate veinlet at about 40 degrees to core axis. Trace pyrite.								
187.15		END OF HOLE.								

DURHAM GEOLOGICAL SERVICES INC.

1

Co-ords: -280.0 N -700.0 E
 Elevation: .0 m
 Azimuth: 15.0
 Dip: -45.0
 Length (m): 286.1

DIAMOND DRILL RECORD
 Drilled by: Norex Drilling Ltd.
 Core stored at: Aunor Minesite
 Core Size: BQ

HOLE NO.: EM-88-2
 Property: Frederick House Lake
 EBONY GOLD MINES LTD.
 Date Started: 10 Dec 88
 Date Completed: 12 Dec 88
 Logged by: Robert Duess
 Material Left: Casing: 80' of NW; 110' of BW.

Purpose: To test west extension of the Rowlandson Zone.

Dip Tests

45.72	15.0	-43.0
91.44	15.0	-44.0
182.88	15.0	-44.0

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
.00	28.96	OVERBURDEN							
28.96	73.46	MASSIVE BASALT Dark green, fine to medium grained and massive. Homogeneous in composition. Periodic fine carbonate stringers, variably epidotized, at various orientations. Rock is locally moderately carbonatized (effervescent with HCl). Medium grained sections exhibit a subtle 'gabbroic texture'. Negligible mineralization and alteration, except as noted.							
	28.96	33.38							
	33.38	41.45							
	60.44	60.96							
	61.11	61.17							
	62.67	62.82							
			27988	33.38	35.97	2.59	1		
			27989	35.97	38.40	2.44	1		
			27990	38.40	41.45	3.05	2		

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2

		HOLE NO. 1		EM-88-2					
from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
73.46	78.03	PILLOWED BASALT							
		Dark green, fine to very fine grained, massive pillowed volcanic. Locally silicified - cherty. Non magnetic. Strongly carbonatized (effervescent with HCl). Pillow selvages defined by narrow bands (1 to 3 cm) of hyaloclastic material, variably altered - replaced with quartz carbonate and pyrite. 2 to 5% overall pyrite concentrations, confined to pillow selvages. Gradational contacts.	27991	73.46	74.98	1.52	4		
			27992	74.98	76.50	1.52	3		
			27993	76.50	78.03	1.52	18		
78.03	85.95	ALTERED VOLCANICS							
		Light grey, fine grained altered pillowed volcanic. Similar to above unit, but lighter in colour and bleached. Strongly carbonatized (effervescent with HCl). Pillow selvages are generally darker green in colour, and consist on bands of hyaloclastic material variably replaced with quartz carbonate and pyrite. Generally 5 to 10% pyrite concentrated within pillow selvages. Non magnetic. Gradational contacts.	27994	78.03	79.55	1.52	1		
			27995	79.55	81.08	1.52	3		
		81.08 83.67 20 to 30% pillow selvage material, mineralized with 10 to 15% pyrite.	27996	81.08	82.30	1.22	11		
			27997	82.30	83.21	.91	1		
			27998	83.21	83.55	.34	19		
		83.67 84.00 70 to 80% quartz carbonate flooding with fabric at 45 to 50 degrees to core axis. Locally hematized - deep red in colour. Local ankerite staining. Mineralized with 2 to 5% stringer and disseminated metallic grey mineral, possibly arsenopyrite and/or specular hematite. 1 to 2% finely disseminated pyrite.	27999	83.67	84.00	.34	2050		
			28500	84.00	84.73	.73	21		
			28501	84.73	85.95	1.22	3		
85.95	106.98	PILLOWED BASALT							
		Dark green, fine grained pillowed volcanic, similar to 73.46 to 78.03m. Gradational contacts. Mineralized with 2 to 5% pyrite, generally concentrated within pillow selvages.	28502	85.95	87.48	1.52	4		
			28507	87.48	89.00	1.52	1		
			28504	89.00	90.22	1.22	2		
		90.22 96.32 Slightly altered - bleached, light grey - green in colour.	28505	90.22	91.74	1.52	4		
			28506	91.74	93.27	1.52	61		
			28507	93.27	94.79	1.52	2		
			28508	94.79	96.32	1.52	2		
		96.32 106.99 Subtle decrease in frequency of pillow selvages.	28509	96.32	97.84	1.52	1		
			28510	97.84	100.89	3.05	2		
			28511	100.89	103.94	3.05	4		
			28512	103.94	106.98	3.05	3		

DURHAM GEOLOGICAL SERVICES INC.

3

		HOLE NO.:		EM-88-2					
from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
106.98	121.92	MASSIVE BASALT Dark green, fine grained and massive. Non magnetic. Homogeneous in texture and composition. Gradational contacts. Locally moderately carbonatized (effervescent with HCl). Negligible mineralization.	28513	110.03	110.49	.46	1		
	110.18	110.25							
		Quartz carbonate veinlet with moderate epidotization, at about 55 degrees to core axis. Mineralized with 2 to 3% fine pyrite.							
	114.76	115.40							
		Fine grained, dark green silicified mafic dyke. Sharp contact at 50degrees to core axis, marked by narrow (2mm), epidotized chilled margins. Trace pyrite.							
121.92	146.18	PILLOWED BASALT Dark green, fine grained, massive. Strongly carbonatized (effervescent with HCl). Homogeneous in texture and composition. Non magnetic. Pillow selvages defined by 1cm bands of dark green, hyaloclastic material, variably replaced with quartz carbonate, and occasional pyrite. Generally less than 1% pyrite.							
	123.44	125.39							
		Representative sample.	28514	123.44	125.43	1.98	2		
			28515	132.28	133.81	1.52	2		
			28516	138.38	139.29	.91	138		
	138.74	138.87							
		80% carbonate quartz veining at about 70 degrees to core axis. Ankerite stained. Trace pyrite.							
	138.99	141.73							
		Slightly fractured with 3 to 5% fine dark grey quartz carbonate fracture infillings. Trace pyrite.	28517	139.29	141.73	2.44	24		
	141.73	142.34							
		10 to 30% erratic carbonate quartz veining and flooding. Mineralized with 1% pyrite.	28518	141.73	143.56	1.83	32		
	142.34	144.93							
		5 to 10% white quartz carbonate veinlets and stringers with preferred orientation at about 60 degrees to core axis. Negligible mineralization.	28519	143.56	144.93	1.37	21		
	144.93	146.18							
		50 to 80% white quartz carbonate veining and flooding. Sharp contacts and weak fabric at 50 to 55 degrees to core axis. Locally hematized - reddish pink in colour. Local minor sericite. Marks lower contact of unit. Trace pyrite.	28520	144.93	146.18	1.25	317		
146.18	286.05	MASSIVE BASALT							

DURHAM GEOLOGICAL SERVICES INC.

4

		HOLE NO.:		EM-88-2						
from (m)	to (m)	-----Description-----		Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
		Dark green, medium to coarse grained, and massive basalt. Homogeneous in texture and composition. Subtle 'gabbroic' texture. Non magnetic. Negligible mineralization and alteration, except as noted.								
146.18	148.13	Slightly lighter green in colour, moderately carbonatized. Alteration decreases downhole. Trace pyrite.		28521	146.18	148.13	1.95	13		
163.92	163.98	Quartz carbonate vein at 75 to 80 degrees to core axis. Trace pyrite.		28522	163.83	164.13	.30	19		
176.78	177.39	5 to 10% erratic white quartz carbonate stringers. Trace pyrite.		28523	176.78	177.39	.61	6		
184.71	184.95	10 % white quartz carbonate veinlet at 30 degrees to core axis. Trace pyrite.		28529	184.71	185.01	.30	3		
193.85	196.90	Representative sample.		28525	193.85	196.90	3.05	1		
199.95	205.43	Gradationally becomes finer grained. Trace pyrite.								
205.43	286.05	Pillowed Basalt Dark green, very fine grained pillow basalt. Locally pervasively silicified - cherty, and pervasively carbonatized throughout. Massive, Pillow selvages are defined by narrow (1cm) wide bands of dark green, hyaloclastic material. Rock is non magnetic. Periodic quartz carbonate veinlets, stringers and partial replacement of pillow selvages. Negligible mineralization, except as noted.		28526	208.64	210.16	1.52	2		
209.88	210.16	40 to 60% carbonate quartz flooding. Trace pyrite. Sharp contacts, upper at 80 degrees to core axis, lower irregular.		28527	210.16	212.14	1.98	1		
215.19	218.24	1.0 feet of ground core.		28528	216.10	216.71	.61	2		
216.38	216.53	60% white carbonate quartz flooding. Trace pyrite.								
237.13	242.32	Slightly altered - bleached. Light grey in colour with pillow selvages remaining dark green. Strongly pervasively carbonatized throughout. Very gradational contacts. Trace pyrite.		28529	237.13	238.66	1.52	2		
				28530	238.66	240.49	1.83	1		
				28531	240.49	242.32	1.83	2		
245.67	248.72	Representative sample.		28532	245.67	248.72	3.05	2		
				28533	258.78	260.60	1.83	19		
258.84	258.96	Section of interflow arenaceous material. Dark grey, fine grained, well bedded greywacke (silty). Strongly carbonatized. Fabric at 40 to 45 degrees to core axis. Mineralized with 1 to 3% pyrite, pyrrhotite.								
259.39	260.39	Same as above.								
260.60	277.67	Lighter grey in colour, slightly bleached. Strong pervasive carbonatization. Pillow selvages remain dark green in colour. Very gradational contacts. Trace pyrite.		28534	260.60	262.43	1.83	2		
				28535	262.43	265.48	3.05	4		
				28536	265.48	268.53	3.05	1		

DURHAM GEOLOGICAL SERVICES INC.

5

from (m)	to (m)	-----Description-----
-------------	-----------	-----------------------

HOLE NO.: EM-88-2

Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
28537	268.53	271.58	3.05	3		
28538	271.58	274.62	3.05	2		
28539	274.55	277.60	3.05	1		

286.05 END OF HOLE.

DURHAM GEOLOGICAL SERVICES INC.

1

Co-ords: -150.0 N 600.0 E
 Elevation: .0 m
 Azimuth: .0

DIAMOND DRILL RECORD

Drilled by: Norex Drilling Ltd.
 Core stored at: Aunor Minesite
 Core Size: BQ

HOLE NO.: EM-88-3

Property: Frederick House Lake
 EBONY GOLD MINES LTD.

Date Started: 13 Dec 88
 Date Completed: 15 Dec 88
 Logged by: Robert Duess
 Material Left: Casing: Casing: 158' of NW; 160' of BW.

Dip: -48.0
 Length (m): 152.4

Purpose: To test Max Min anomaly associated with magnetic high.

Dip Tests

45.72 .0 -48.0
 91.44 .0 -47.0
 137.16 .0 -47.0

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
.00	48.46	OVERBURDEN							
48.46	152.40	ULTRAMAFICS							
		Black to dark green, medium grained, massive. Moderately magnetic. Occasional green chlorite, green to white talc stringers and slip planes. Locally weakly pervasively carbonatized. Blocky and broken core throughout. Negligible mineralization except as noted.							
	56.69 59.74	Representative sample.	28540	56.69	59.74	3.05	6		745
	65.84 78.03	2 to 3% fine carbonate - chlorite - green to white talc seams, slip planes and erratic stringers, generally less than 3mm wide, but occasionally up to 1cm wide. Trace pyrite. Gradational.	28541	65.84	68.88	3.05	1		620
			28542	68.88	71.93	3.05	3		695
			28543	71.93	74.98	3.05	2		635
	72.24 72.54	Fault breccia and gougy material.	28544	74.98	78.03	3.05	2		745
	90.22 96.32	Mineralized with 2 to 3% disseminated pyrrhotite, possible some pentlandite. Occasional flecks of conchoidal pyrite on slip planes. Gradational.	28545	90.22	91.44	1.22	2		1340
			28546	93.27	96.32	3.05	2		1410
			28547	96.32	99.36	3.05	1		1150
	99.36 108.51	Slightly finer grained, and totally black in colour. Occasional hematized slip planes. Gradational.							
	108.51 132.89	Mineralized with 2 to 4% disseminated pyrrhotite, possibly pentlandite. Trace pyrite. Gradational.	28548	111.56	114.60	3.05	2		855
			28549	114.60	117.65	3.05	2		1090

DURHAM GEOLOGICAL SERVICES INC.

2

		HOLE NO.:		EM-88-3						
from (m)	to (m)	-----Description-----		Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
				28550	117.65	120.70	3.05	3		1510
				28551	120.70	121.92	1.22	1		1220
				28552	123.75	126.80	3.05	2		1290
				28553	126.80	129.84	3.05	2		1940
				28554	129.84	132.89	3.05	1		1720
132.89	152.40	Fine grained, totally black in colour. Trace pyrite.								
138.99	142.04	Representative sample.		28555	138.99	142.04	3.05	2		1310
152.40		END OF HOLE.								

DURHAM GEOLOGICAL SERVICES INC.

1

Co-ords: -400.0 N 600.0 E
 Elevation: .0 m
 Azimuth: .0

DIAMOND DRILL RECORD

Drilled by: Norex Drilling Ltd.
 Core stored at: Aunor Minesite
 Core Size: BQ

HOLE NO.: EM-88-4

Property: Frederick House Lake
 EBONY GOLD MINES LTD.

Date Started: 15 Dec 88
 Date Completed: 17 Dec 88
 Logged by: Robert Duess
 Material Left: Casing: 80' of NW; 84' of BW.

Dip: -48.0

Length (m): 169.5

Purpose: To test Max - Min anomaly.

Dip Tests

45.72 .0 -47.0
 91.44 .0 -45.0
 137.16 .0 -45.0

from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
.00	24.69	OVERBURDEN							
24.69	66.93	MASSIVE BASALT Medium to dark grey - green, fine to medium grained, massive andesite. Rock contains numerous (5 to 10%) dark green, chloritized subhedral crystals (possibly hornblende, amphibole), 2 to 4mm in diameter giving the rock a speckled appearance. Possibly a crystal tuff. Non magnetic. Periodic quartz and quartz carbonate veinlets and stringers. Negligible mineralization.							
	32.31	35.36	28556	32.31	35.36	3.05	2	15	
	36.88	41.45	28557	36.88	38.40	1.52	1	60	
		5 to 10% white quartz carbonate stringers at various orientations. Trace pyrite.	28558	38.40	39.93	1.52	1		
			28559	39.93	41.45	1.52	8		
	44.20	45.72	28560	44.20	45.72	1.52	2		
		Periodic quartz carbonate veinlets mineralized with 1% pyrrhotite.							
	47.24	47.61	28561	47.24	47.85	.61	2		
		5 to 10% light grey quartz carbonate veinlets and stringers mineralized with 1% pyrite, pyrrhotite. Dark grey smears present, possibly molybdenite.							
	50.60	53.95	28562	50.60	52.43	1.83	1		
		5% erratic white carbonate quartz veining and flooding. Trace pyrite.	28563	52.43	53.95	1.52	1		

DURHAM GEOLOGICAL SERVICES INC.

2

		HOLE NO.:		EM-88-4						
from (m)	to (m)	-----Description-----		Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
	54.41	66.93	2 to 5% erratic white carbonate quartz veinlets and stringers. Trace pyrite.	28564	53.95	54.41	.46	2		
				28564	54.41	56.08	1.68	1		
				28566	56.08	57.91	1.83	2		
				28567	57.91	59.74	1.83	2		
				28568	59.74	62.79	3.05	3		
				28569	62.79	64.92	2.13	2		
				28570	64.92	66.93	2.01	1		
66.93	68.03	DIORITE Dark green to black, medium grained diorite dyke. Possibly ultramafic. Non magnetic. Massive to moderately foliated near contact. Sharp foliated contacts at about 45 degrees to core axis. Negligible mineralization.		28571	66.93	68.03	1.10	2		
68.03	81.69	ARENACEOUS SEDIMENTS Medium grey, fine grained massive greywacke. Well sorted. Homogeneous in texture and composition. Slightly fractured. Contains 2 to 5% white quartz carbonate stringers and veinlets at various orientations. Rock possibly an intermediate volcanic, with a 'grainy' texture. Trace pyrite.		28572	68.03	69.80	1.77	3		
				28573	69.80	71.93	2.13	2		
				28574	71.93	74.98	3.05	2		
				28575	74.98	78.03	3.05	2		
				28576	78.03	80.16	2.13	1		
	79.55	80.16	Medium grey, massive porphyritic dyke. Numerous (5 to 10%) white altered feldspar? and quartz phenocrysts in a fine grained matrix. Sharp contacts at 65 to 70 degrees to core axis. Trace pyrite.	28577	80.16	81.69	1.52	2		
81.69	107.53	ARENACEOUS SEDIMENTS Section of sedimentary material, largely arenaceous sediment, but highly variable in texture and composition. Detailed descriptions as follows: 81.69 83.21 Light to medium grey, very fine grained silicified greywacke. Locally cherty, yet retains a 'grainy' texture. Gradational upper contact, sharp lower at about 20 degrees to core axis. Mineralized with 2 to 5% erratic stringer pyrite.		28578	81.69	83.21	1.52	3		
	83.21	85.10	Medium grained and massive. Poorly sorted section. Mineralized with 2 to 5% clotted pyrrhotite.	28579	83.21	85.10	1.89	2		
	85.10	85.83	Fine grained, medium grey to green, silicified - cherty greywacke. Sharp contacts, upper at about 60 degrees to core	28580	85.10	85.83	.73	1		

DURHAM GEOLOGICAL SERVICES INC.

3

		HOLE NO.:		EM-88-4					
from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
		axis, lower at 45 degrees. Mineralized with 2 to 3% erratic stringer pyrite.							
85.83	86.53	Light grey, medium grained, poorly sorted section. Same as subunit 83.21m to 85.10m. Trace pyrite.	28581	85.83	86.53	.70	1		
86.53	87.02	Light grey, well laminated cherty material. Fabric at 0 to 10 degrees to core axis, with sharp discordant contacts at 40 to 60 degrees to core axis. Mineralized with 2 to 3% disseminated pyrite.	28582	86.53	87.02	.49	2		
87.02	89.61	Fine to medium grey, variably silicified section. Locally cherty. Fabric at 0 to 40 degrees to core axis. Mineralized with 2 to 3% disseminated pyrite.	28583	87.02	88.39	1.37	1		
			28584	88.39	89.61	1.22	2		
89.61	90.53	80% light grey chert, with 5 to 10% silicified greywacke. 5% stringer and interlaminated graphite. Mineralized with 3 to 10% disseminated and clustered pyrite. Slightly gradational contacts.	28585	89.61	90.53	.91	1		
90.53	93.88	Dark grey, fine to medium grained greywacke. Relatively homogeneous. Subtle grain size fining up hole sequence noted. Trace pyrite.	28586	90.53	92.05	1.52	1		
			28587	92.05	93.88	1.83	2		
93.88	95.62	10 to 40% erratic carbonate quartz flooding. Fractured and brecciated cherty material with 3 to 5% pyrite at 94.37m to 94.79m.	28588	93.88	94.79	.91	2	15	
			28589	94.79	95.62	.82	1		
95.62	101.80	Medium to dark grey, fine grained, massive. 5% erratic white quartz carbonate veinlets, stringers and clots. Mineralized with 2 to 5% erratic stringer and disseminated pyrite. Gradational lower contact.	28590	95.62	96.93	1.31	2		
			28591	96.93	98.45	1.52	1		
			28592	98.45	99.97	1.52	2		
			28593	99.97	101.80	1.83	2		
101.80	107.53	Light grey, medium grained and massive. Slightly silicified. Mineralized with 3 to 5% disseminated pyrite. Subtle fining downhole sequence noted. Gradational contacts.	28594	101.80	103.63	1.83	1		
			28595	103.63	105.77	2.13	2		
			28596	105.77	107.53	1.77	1		
107.53	109.42	GRAPHITIC SEDIMENTS 30 to 50% soot black, massive to well laminated graphite and graphitic argillite with 20 to 40% erratic interlaminations and clots of silicified arenaceous material. 5% localized quartz carbonate flooding. Mineralized with 5 to 10% erratic, coarse stringer pyrite. Slightly gradational upper contact, sharp lower at about 30 degrees to core axis.	28597	107.53	109.42	1.89	1		
109.42	114.73	ARENACEOUS SEDIMENTS							

DURHAM GEOLOGICAL SERVICES INC.

		HOLE NO.:		EM-88-4					
from (m)	to (m)	-----Description-----	Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
		Medium grey, fine grained greywacke. Poorly bedded. Locally silicified - cherty. Contains approximately 5% graphitic material, and occasional inter laminations of chert. Fabric variable at 0 to 30 degrees to core axis. Generally mineralized with 3 to 5% disseminated pyrite, but 10 to 15% pyrite in stringers associated with graphitic material.	28598	109.42	111.56	2.13	1		
			28599	111.56	113.08	1.52	2		
			28600	113.08	114.73	1.65	3		
114.73	119.48	GRAPHITIC SEDIMENTS							
		60 to 80% soot black, moderately bedded graphite and graphitic argillite with 10% interlamination of silicified - cherty greywacke. Fabric at 0 to 45 degrees to core axis. Broken and blocky core. Mineralized with 3 to 10% stringers and spherules of pyrite.	28601	114.73	117.35	2.62	2		
			28602	117.35	119.48	2.13	5		
119.48	135.24	ARENACEOUS SEDIMENTS							
		Sedimentary horizon, largely arenaceous, highly variable in texture and composition. 50 to 70% medium to light grey, variably silicified greywacke, with 5 to 20% erratic sections of graphite and graphitic argillite. Mineralized with 2 to 10% erratic disseminated and stringer pyrite.	28603	119.48	121.62	2.13	2		
			28604	121.62	123.75	2.13	2		
			28605	123.75	124.97	1.22	1		
		124.51 1cm wide band of fuchsitic material with graphitic material.	28606	124.97	126.80	1.83	1		
		126.80 127.83 20 to 40% clotted pyrite. 'Injected' texture.	28607	126.80	127.83	1.04	3		
		127.83 1320.91 20 to 40% clotted and stringer pyrite, with 10 to 20% graphitic material.	28608	127.83	129.14	1.31	2		
			28609	129.14	130.45	1.31	4		
		130.45 131.06 30 to 60% stringer and irregular clots, and spherules of pyrite in graphitic rich section. Occasional flecks of green mica.	28610	130.45	131.06	.61	25		
		131.06 135.24 70% greywacke, 10 to 15% graphitic material, 10 to 15% coarse clots and finely disseminated pyrite. Subtle fining downhole sequences noted.	28611	131.06	132.59	1.52	2		
			28612	132.59	134.11	1.52	2		
			28613	134.11	135.24	1.13	1		
135.24	154.53	GRAPHITIC SEDIMENTS							
		75 to 80% soot black graphite and graphitic argillite with to 20% coarse clots, spherules, and stringer pyrite. Minor arenaceous material. Massive to moderately bedded, with variable fabric at 0 to 45 degrees to core axis.							
		135.24 135.85 50 to 70% clotted pyrite.	28614	135.24	136.25	1.01	26	2150	
			28615	136.25	137.40	1.16	4		

DURHAM GEOLOGICAL SERVICES INC.

5

		HOLE NO.:		EM-88-4						
from (m)	to (m)	-----Description-----		Sample No.	from (m)	to (m)	Length (m)	Au (ppb)	As (ppm)	Ni (ppm)
	137.40	140.51	10 to 20% erratic carbonate flooding.	28616	137.40	138.99	1.58	1		
				28617	138.99	140.51	1.52	3		
				28618	140.51	142.04	1.52	2		
				28619	142.04	143.56	1.52	4		
				28620	143.56	145.08	1.52	2		
				28621	145.08	146.61	1.52	23		
				28622	146.61	148.13	1.52	27		
				28623	148.13	149.66	1.52	26		
				28624	149.66	151.18	1.52	7		
				28625	151.18	152.70	1.52	2		
				28626	152.70	154.53	1.83	2		
154.53	161.70	ARENACEOUS SEDIMENTS			28627	154.53	157.28	2.74	1	
		Sedimentary horizon, largely arenaceous, highly variable in texture and composition. 50 to 60% light to dark grey, variably silicified greywacke, locally cherty, with 30 to 40% inter laminations of graphite and graphitic argillite. Variable sedimentary fabric at 10 to 50 degrees to core axis. Erratic mineralized with 2 to 20% pyrite. Blocky core. Graphitic rich sections situated as follows: 155.75 to 156.06m, 157.12 to 157.43m, 157.89 to 158.80m, and 159.41 to 160.02m.			28628	157.28	158.80	1.52	4	
				28629	158.80	160.32	1.52	2		
				28630	160.32	161.70	1.37	2	425	
161.70	169.47	GRAPHITIC SEDIMENTS			28631	161.70	163.37	1.68	1	
		Same as 135.24 to 154.53m.			28632	163.37	164.90	1.52	3	
	163.37	1cm wide band of fuchsitic material.			28633	164.90	166.42	1.52	2	
				28634	166.42	167.94	1.52	4		
				28635	167.94	169.47	1.52	3		
	168.86	169.47 Fault zone. Unconsolidated graphitic gouge and breccia.								
	169.47	END OF HOLE.								
		NOTE: Hole abandoned due to unconsolidated graphitic fault zone.								



42A10NW0560 2.12325 DUNDONALD

900

W8906-153

Mining Act *W8906-153* - Do not use shaded areas below.

Type of Survey(s) Linecutting & Geological Mapping		Township or Area McCart & Dundonald Twp
Claim Holder(s) H. L. Mineral Holdings		Prospector's Licence No. T-4645
Address Suite 1900, 999 West Hastings Street, Vancouver, B. C. V6C 2W2		
Survey Company Durham Geological Services Inc.	Date of Survey (from & to) 01 10 88 15 12 88 Day Mo. Yr. Day Mo. Yr.	Total Miles of line Cut 12
Name and Address of Author (of Geo-Technical report) Robert Duess c/o Durham Geological Services Inc., Box 1330, Timmins, Ont.		

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
RECEIVED	Geological	40
	Geochemical	

Man Days

Complete reverse side and enter total(s) thereon

RECEIVED

MAR 13 1989

MAR 8 1989

10:40AM Bob

W8906-153

Man Days	Geophysical	Days per Claim
	- Electromagnetic	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.

Airborne Credits	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures ÷ = Total Days Credits

Instructions

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

Date **Mar. 8, 1989**

Recorded Holder or Agent (Signature) *R. D. D.*

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	755603				
	755604				
	755605				
	755606 ✓				
	755609				
	755611				
	755612				
	755613				
	755614				
	755610				

RECORDED

MAR 18 1989

Total number of mining claims covered by this report of work. **10**

For Office Use Only

Total Days Cr. Recorded **400**

Date Recorded **Mar 8 / 89**

Date Approved as Recorded

Mining Recorder *[Signature]*

Branch Director *[Signature]*

See 32 days work statements

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying

IT NO. W 8906 15L

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

Mining Act 108906 00151

Apr 27

Type of Survey(s) Linecutting and Geological Mapping		Township or Area McCart and Dundonald
Claim Holder(s) H. L. Mineral Holdings		Prospector's Licence No. T-4645
Address Suite 1900, 999 West Hastings Street, Vancouver, B. C. V6C 2W2		
Survey Company Durham Geological Services Inc.	Date of Survey (from & to) 01 Day 10 Mo. 28 Yr. 15 Day 12 Mo. 81 Yr.	Total Miles of line Cut 7.95
Name and Address of Author (of Geo-Technical report) Robert Duess, Durham Geological Services Box 1330, Timmins, Ont. P4N 7J8		

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	40
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	Other	
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	755695				
	755696				
	755688				
	755687				
	755685				
	75565T	756651			
	755652	756652			
	755653	756653			
	755654	756654			
	755608				
	755607				

RECEIVED

MAR 8 1989

10:40 AM

RECEIVED

MAR 15 1989

RECORDED
MAR - 8, 1989

Expenditures (excludes power stripping)

Type of Work Performed
Performed on Claim(s)
Calculation of Expenditure Days Credits
Total Expenditures \$ <input type="text"/> ÷ 15 = Total Days Credits <input type="text"/>
Instructions Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **11**

For Office Use Only		Mining Recorder <i>[Signature]</i>
Total Days Cr. Recorded 440	Date Recorded March 8/89	
Date Approved as Recorded		Branch Director <i>[Signature]</i>

Date Mar. 8, 1989	Recorded Holder or Agent (Signature) <i>[Signature]</i>
-----------------------------	--

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

May 12, 1989

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

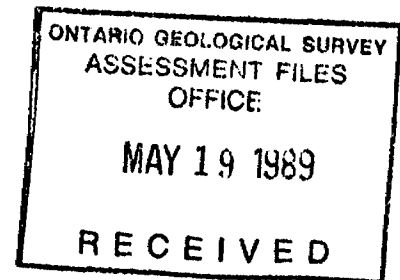
Dear Sir:

Re: Notice of Intent dated April 12, 1989 Geological
Survey submitted on Mining Claims P 755695 et al
in the Dundonald and McCart Townships.

Mining Lands Section
3rd floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

Your file: W8906-151,153
Our file: 2.12325



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

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

Yours sincerely,


W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

DKK:eb
Enclosure

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

Robert Duess
Timmins, Ontario

Resident Geologist
Timmins, Ontario

H.L. Mineral Holdings
Vancouver, B.C.



Recorded Holder
H.L. MINERAL HOLDINGS

Township or Area
DUNDONALD AND MCCART TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>29</u> days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 755695-96 755687-88 755685 756651 to 54 incl. 755607-08

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder
H.L MINERAL HOLDINGS

Township or Area
DUNDONALD AND MCCART TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>40</u> days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 755603 to 06 incl. 755609 755611 755610

Special credits under section 77 (16) for the following mining claims

<u>30 days Geological</u>	<u>20 days Geological</u>
P 755612 755614	P 755613

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

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
SEC 42/60			S R O	32269
SEC 43/70	W 66/75	12/2/75	M + S	1593
NKO 31/85		22/7/85	M + S R	

SAND AND GRAVEL

- M.T.C. PIT 1284
- M.T.C. PIT 1274

NOTES

PART OF THIS TOWNSHIP SOUTH AND EAST OF FREDERICK HOUSE LAKE LIES WITHIN THE MUNICIPALITY OF THE CITY OF TIMMINS

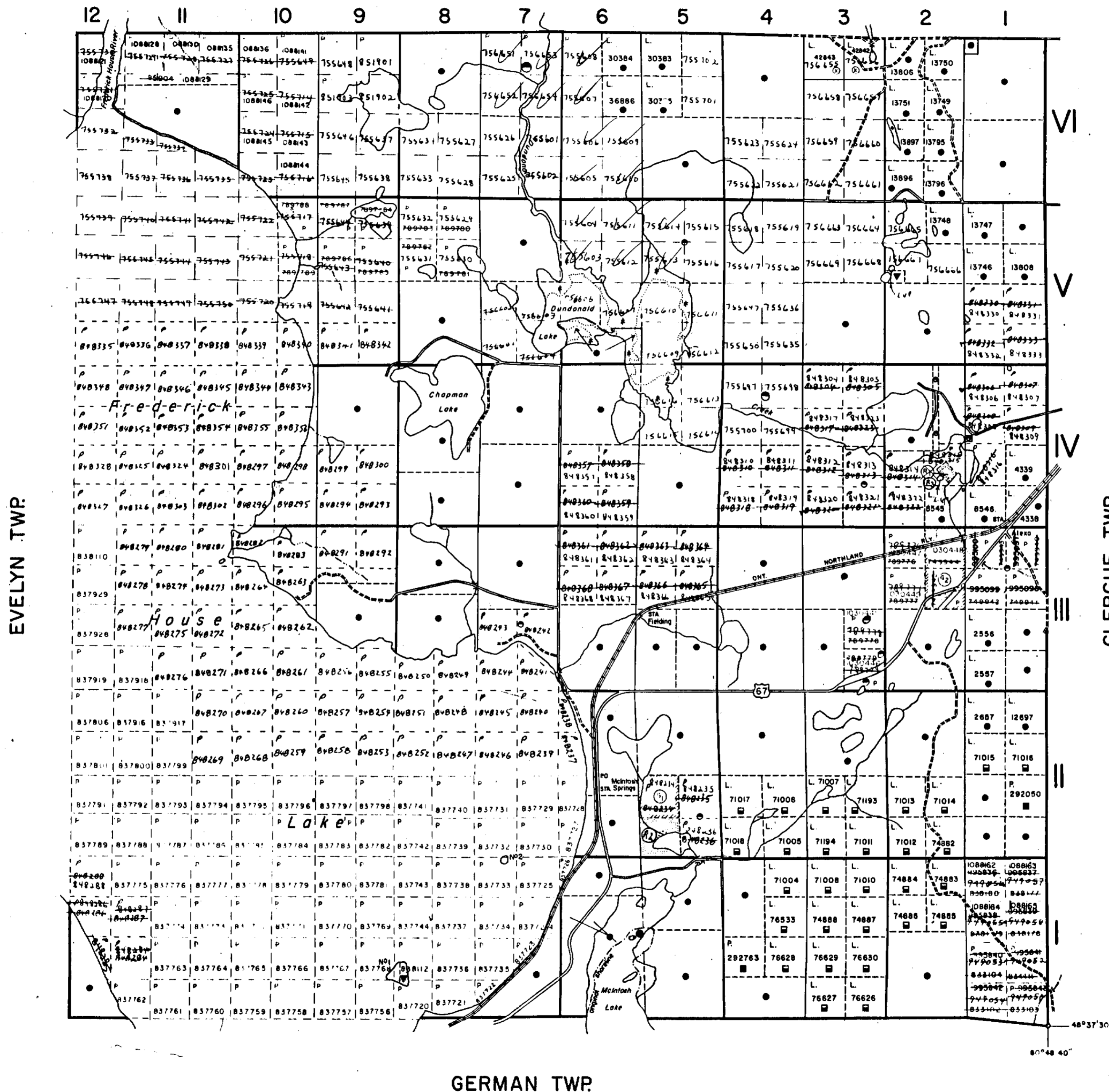
WITNESS POSTS FOR CLAIMS STAKED OUT COVERING LAND UNDER THE WATERS OF FREDERICK HOUSE LAKE IN DUNDONALD TWP SHOULD NOT BE ERECTED OR PLANTED IN EVELYN TWP

FLOODING RIGHTS ON FREDERICK HOUSE LAKE RESERVED TO ONTARIO HYDRO TO CONTOUR ELEV. 903', L.O. 7128, FILE 64518, VOL 2

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

0 L.U.P. (LAND USE PERMIT)

McCART TWP.



LEGEND

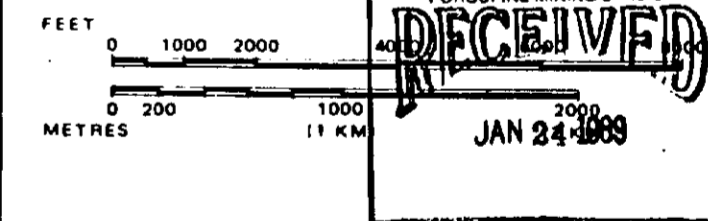
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- 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. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

DUNDONALD

M.N.R. ADMINISTRATIVE DISTRICT

COCHRANE

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

Ministry of Natural Resources
Land Management Branch
Ontario

Date MARCH, 1985

Number

By D. Vallée Filed in File
By [Signature] May 1985

G-3240



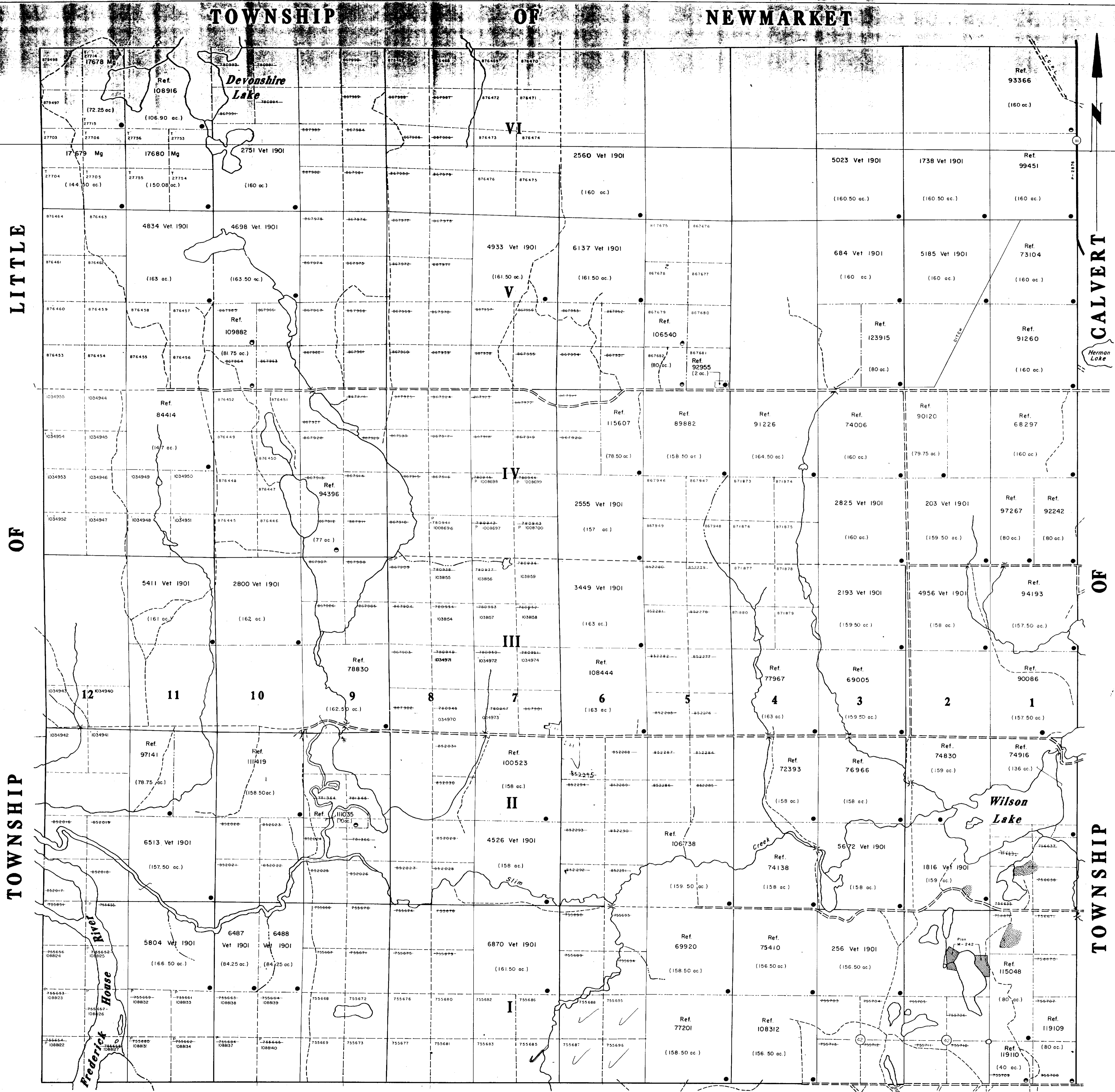
CONCESSION LINES SHOWN HEREON ARE BASED ON THE BEST INFORMATION AVAILABLE BUT THEIR TRUE POSITION IS NOT GUARANTEED.

FOR LEGAL AND SURVEY PURPOSES CONSULT ORIGINAL SURVEY PLANS AND FIELD BOOKS OF RECORD IN THE DEPARTMENT OF LANDS AND FORESTS, TORONTO.

AGES SHOWN IN RESPECT OF PATENTED AREAS ARE IN ACCORDANCE WITH AREA RECORDS.

AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
M.R.O. - MINING RIGHTS ONLY				
S.R.O. - SURFACE RIGHTS ONLY				
M+S - MINING AND SURFACE RIGHTS				
OPENED	N.R.O. 71/84	14/12/70	S.R.M.R.	36866



REFERENCES

TOPOGRAPHY
LAKES, RIVERS, ETC., FROM FOREST RESOURCE INVENTORY SHEETS NO 486804 AND 487004

SURVEYS
TOWNSHIP OF McCART SUBDIVIDED BY A D GRIFFIN, O.L.S., 1904. FIELD NOTE BOOK 1533

WEST LIMIT OF McCART TOWNSHIP (SEE LITTLE TWP) SURVEY BY J.W. FITZGERALD, O.L.S., 1904. FIELD NOTE BOOK 1402.

EAST LIMIT OF McCART TOWNSHIP (SEE CALVERT TWP) SURVEY BY ALEXANDER BAIRD, O.L.S., 1904. FIELD NOTE BOOK 1009

THIRD MERIDIAN (EAST LIMIT OF McCART TWP) BY WILLIAM GALBRAITH, O.L.S., 1904. FIELD NOTE BOOK 2363.

BASE LINE (SOUTH LIMIT OF McCART TWP) BY T.J. PATTEN, O.L.S., 1903. FIELD NOTE BOOK 2460

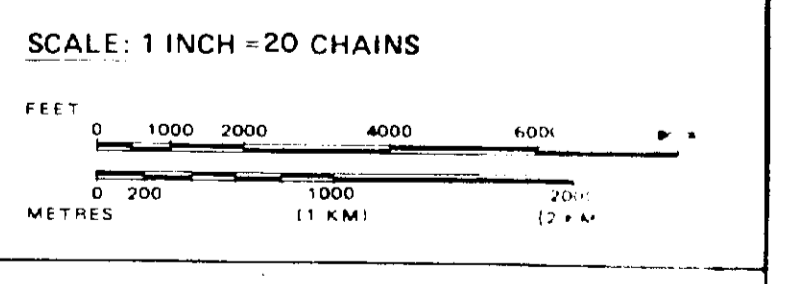
LEGEND

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	—+—+—+—+—
RESERVATION	—+—+—+—+—
CANCELLED	—+—+—+—+—
SAND & GRAVEL	—+—+—+—+—

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1913, VESTED IN ORIGINAL PATENTEE BY THE P.A.M. LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 31 & 32.

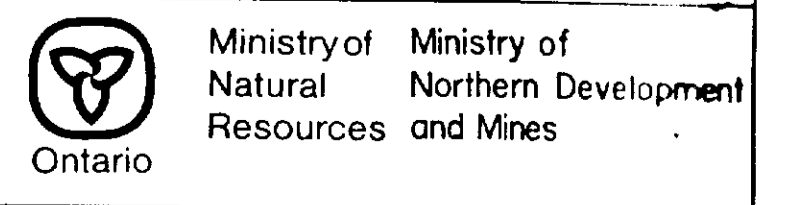


TOWNSHIP
McCART

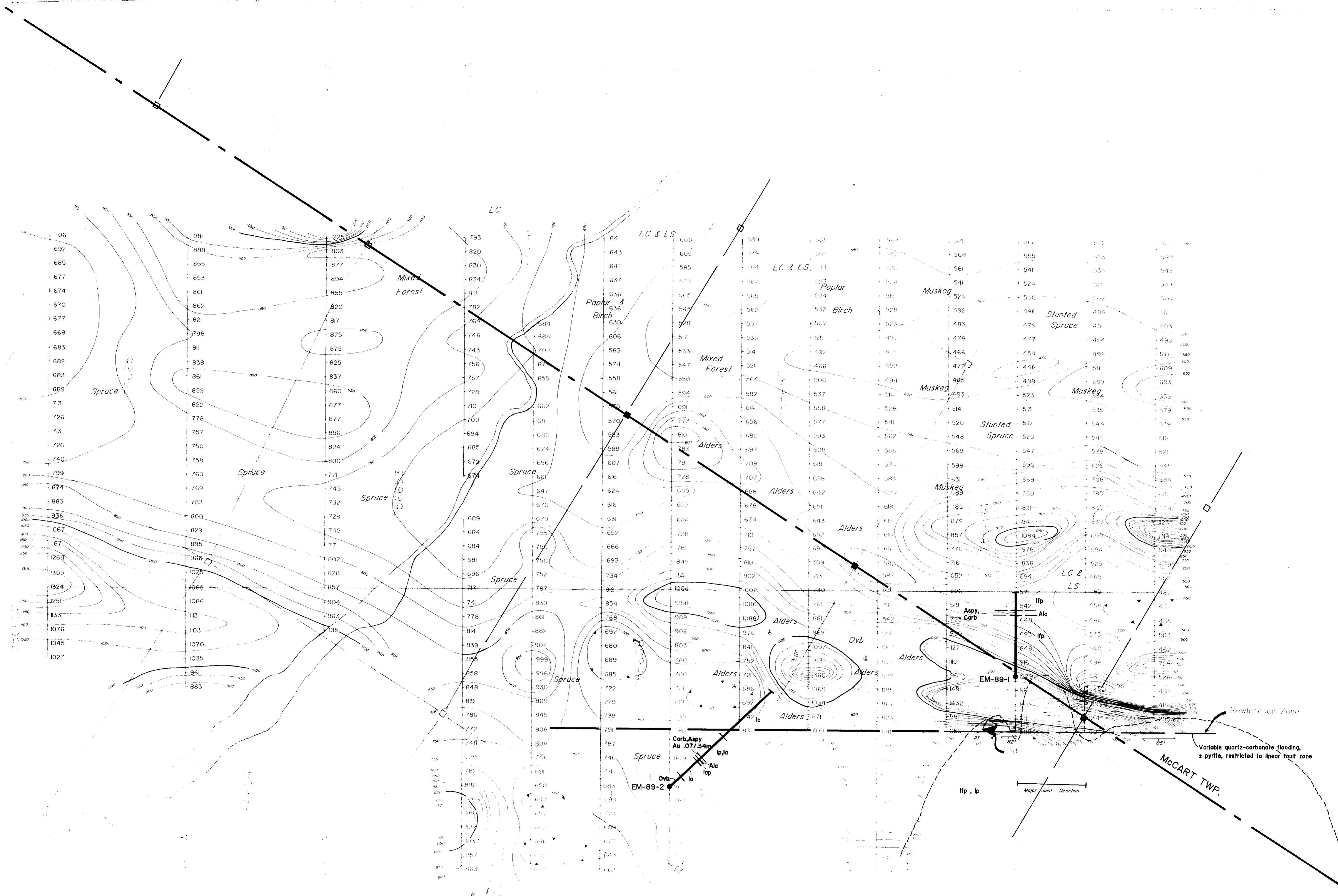
M.N.R. ADMINISTRATIVE DISTRICT
COCHRANE

MINING DIVISION
PORCUPINE

LAND TITLES / REGISTRY DIVISION
COCHRANE



Date: JULY 1986
Number: G-3541



2.12325

R.H. Dixon

- 1 MAFIC VOLCANICS
 - la Massive basalt-andesite
 - Ala Altered volcanics
 - lp Pillowed volcanics
 - lfp Porphyritic basalt feldspar phenocrysts
 - 3 SEDIMENTARY ROCKS
 - 3c Arenaceous
 - 3g Graphitic sedimen
 - 4 ULTRAMAFIC ROCKS
 - 5 DIORITE
- OVERBURDEN (Depth-1.01met)
- LC Lacustrine Clay
 - LST Lacustrine Silt
 - LS Lacustrine Sand
 - LG Lacustrine Gravel
 - BT Boulder Till
 - OM Organic Material
- Au gold
Aspy arsenopyrite
Carb carbonite
Ovb overburden
- area of outcrop or subcrop
drill hole location, orientated

DURHAM GEOLOGICAL SERVICES INC.

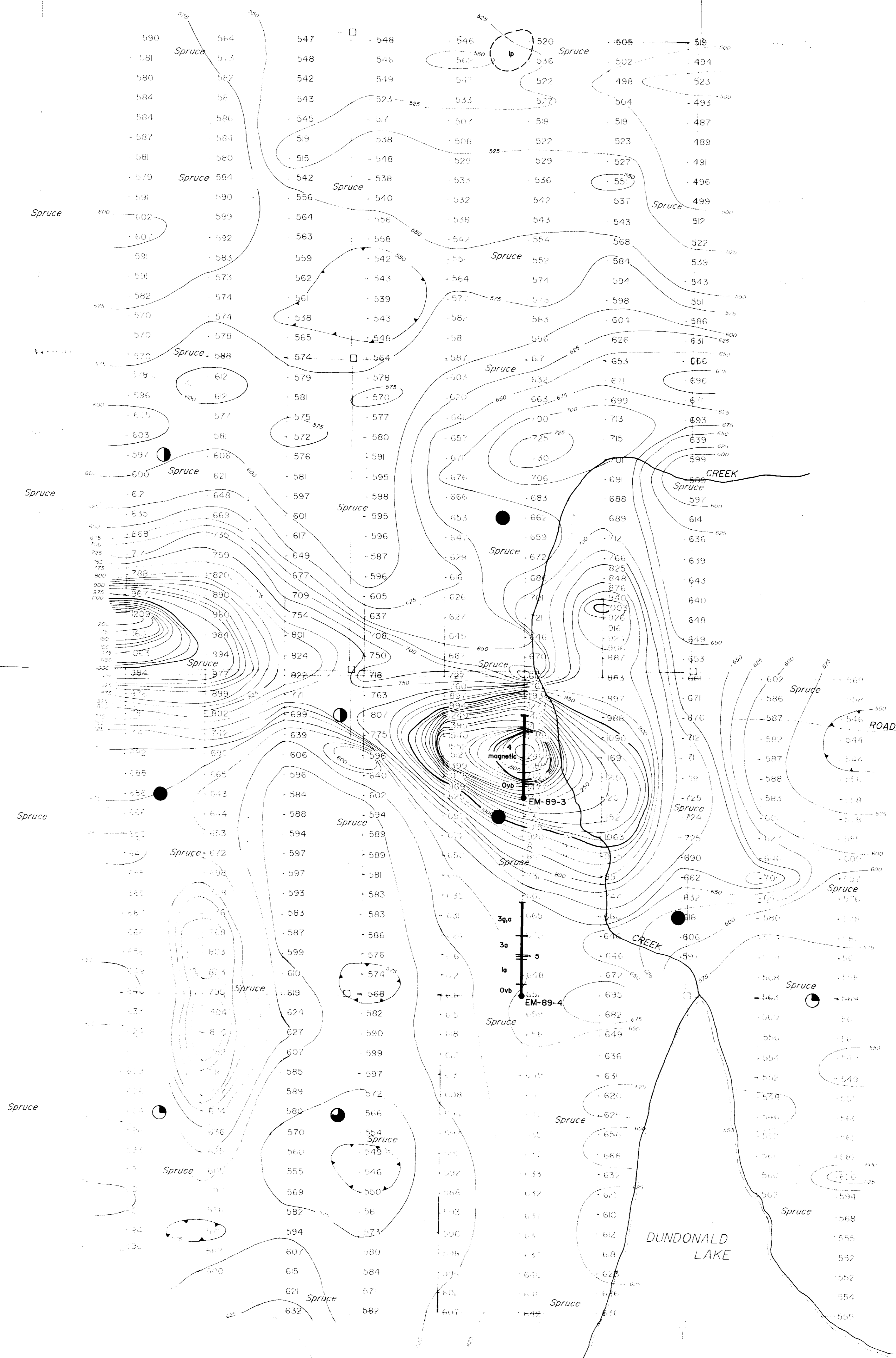
EBONY MINES LIMITED
McCART / DUNDONALD TWPS.

North Grid
GEOLOGICAL COMPILATION

Date: March 1989 Scale: 1:2500 Figure: 4

CON. VI

CON. VI



CON. V

CON. V

R.H. Dwyer 2.12325

APPENDIX A - LEGACY INTERVAL CLASSIFICATION

1	1-100 (1000 microseconds)
2	100-1000 (10000 microseconds)
3	1000-10000 (100000 microseconds)
4	10000-100000 (1000000 microseconds)
5	100000-1000000 (10000000 microseconds)
6	1000000-10000000 (100000000 microseconds)

LEGEND

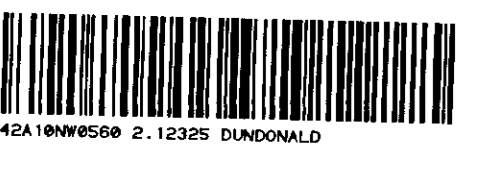
Instrument	EDA OMNI IV
Parameters Measured	Earth's total magnetic field
Accuracy	± 1 nano-tesla
Channels	Corrected by 2000 nT
Count Interval	1000000
Reference Field	50000 nT
datum	Subtracted

DURHAM GEOLOGICAL SERVICES INC.

EBONY MINES LIMITED
DUNDONALD TWP.

South Grid
GEOLOGICAL COMPILATION

Date: March 1989 Scale: 1 : 2500 Figure: 5
Drawn: V.G. / C.G. Intep.: Job No.: D-94



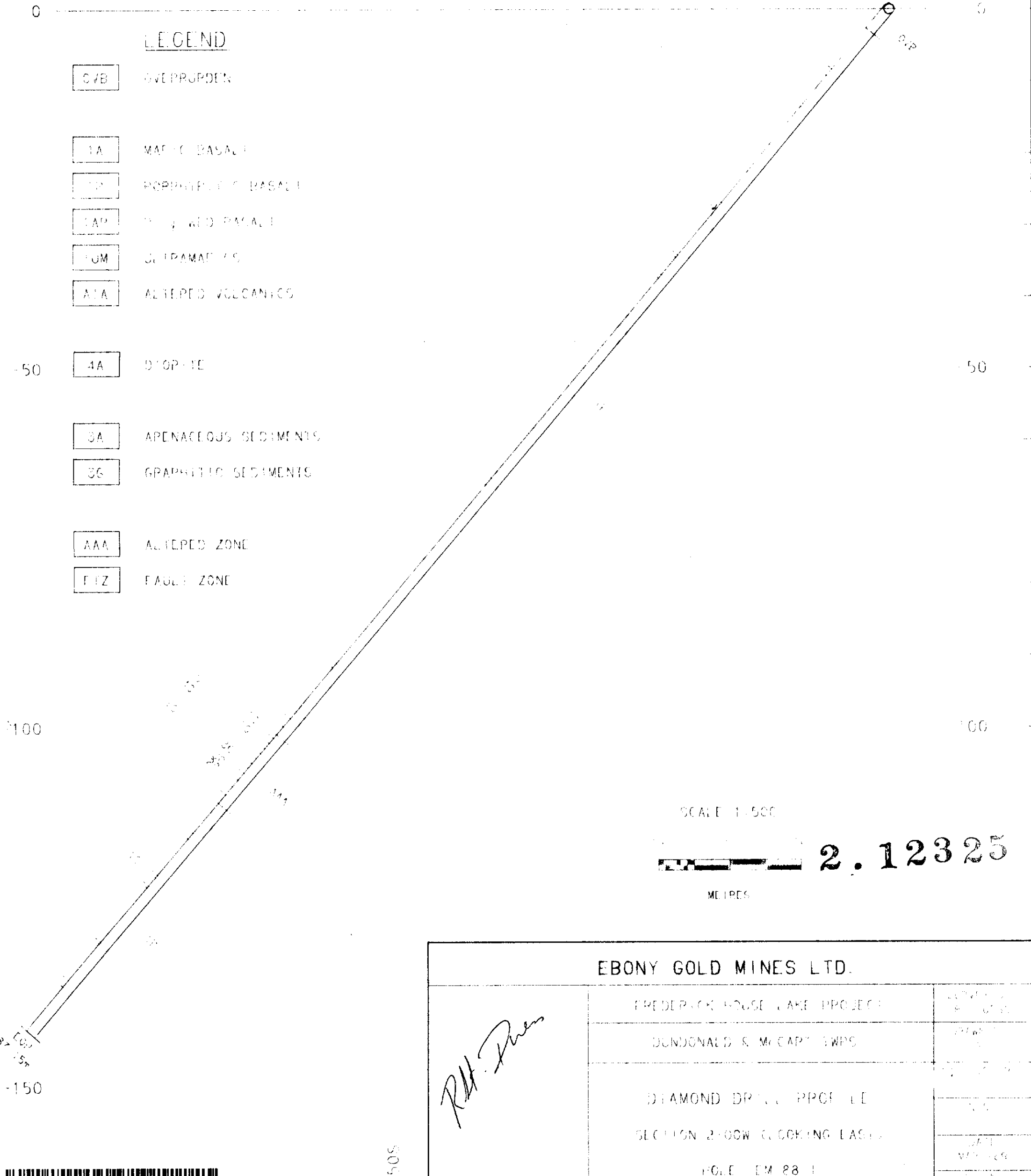
505

1005

L 2+00 W
I+20 S
EM-88

LEGEND

- C/B OVERPRINTED
- 1A MAFIC BASALT
- 1P PORPHYRIC BASALT
- 1AP ANDROID BASALT
- 1UM ULTRAMAFICS
- A/A ALTERED VOLCANICS
- 4A DIOPIRE
- 3A APENACEOUS SEDIMENTS
- 3G GRAPHITIC SEDIMENTS
- AAA ALTERED ZONE
- FIZ FAULT ZONE



SCALE 1:500



2.12325

METRES

EBONY GOLD MINES LTD.

<i>R.H. P...</i>	FREDERICK HOUSE LAKE PROJECT	DATE
	DUNDONALD & McCARTHY SWPS	PREPARED BY
	DIAMOND DRILL PROFILE	DATE
	SECTION 2+00W (LOOKING EAST)	DATE
	FILE EM 88 I	DATE
	DUPRE/M. GEOLOGICAL SERVICES INC.	6

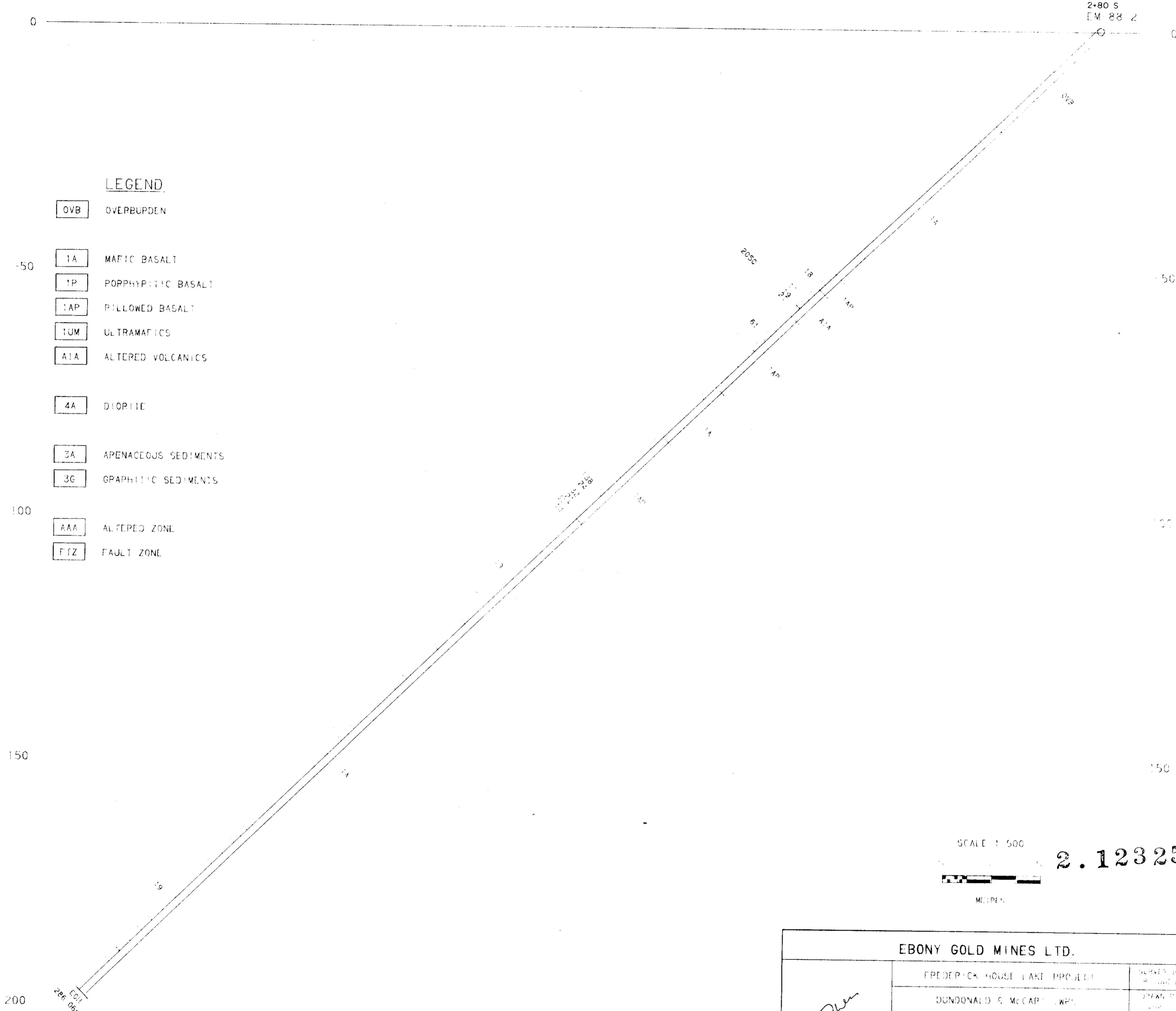


42A10NW0560 2.12325 DUNDONALD

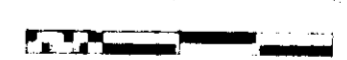
L 7+00 W
2+80 S
EM 88 2

LEGEND

- OVB OVERBURDEN
- 1A MAFIC BASALT
- 1P PORPHYRITIC BASALT
- 1AP PILLOWED BASALT
- 1UM ULTRAMAFICS
- A1A ALTERED VOLCANICS
- 4A DIORITE
- 3A APLACIC SEDIMENTS
- 3G GRAPHITIC SEDIMENTS
- AAA ALTERED ZONE
- FIZ FAULT ZONE



SCALE 1:500



METERS

2.12325

EBONY GOLD MINES LTD.		
<i>P.H. D...</i>	FREDERICK HOUSE LAKE PROJECT	SURVEY BY DUNDONALD S. MCCARTHY
	DUNDONALD S. MCCARTHY W.P.S.	DRAWN BY DUNDONALD S. MCCARTHY
	DIAMOND DRILL PROFILE	PROJECT NO. 2.12325
	SECTION 7-00W BLOCK AG-NADDED	SHEET 1
	HOLE EM 88 2	DATE 1988
DURHAM GEOLOGICAL SERVICE LTD.		



505

1005

L 6+00 E
+50 S
EM 88-3

0 0

LEGEND

0VB

OVERBURDEN

1A

MAFIC BASALT

1P

PORPHYRIC BASALT

1AP

PILLOWED BASALT

1UM

ULTRAMAFICS

A1A

ALTERED VOLCANICS

4A

DIORITE

3A

ARENACEOUS SEDIMENTS

3G

GRAPHIC SEDIMENTS

AAA

ALTERED ZONE

FIZ

FAULT ZONE

0

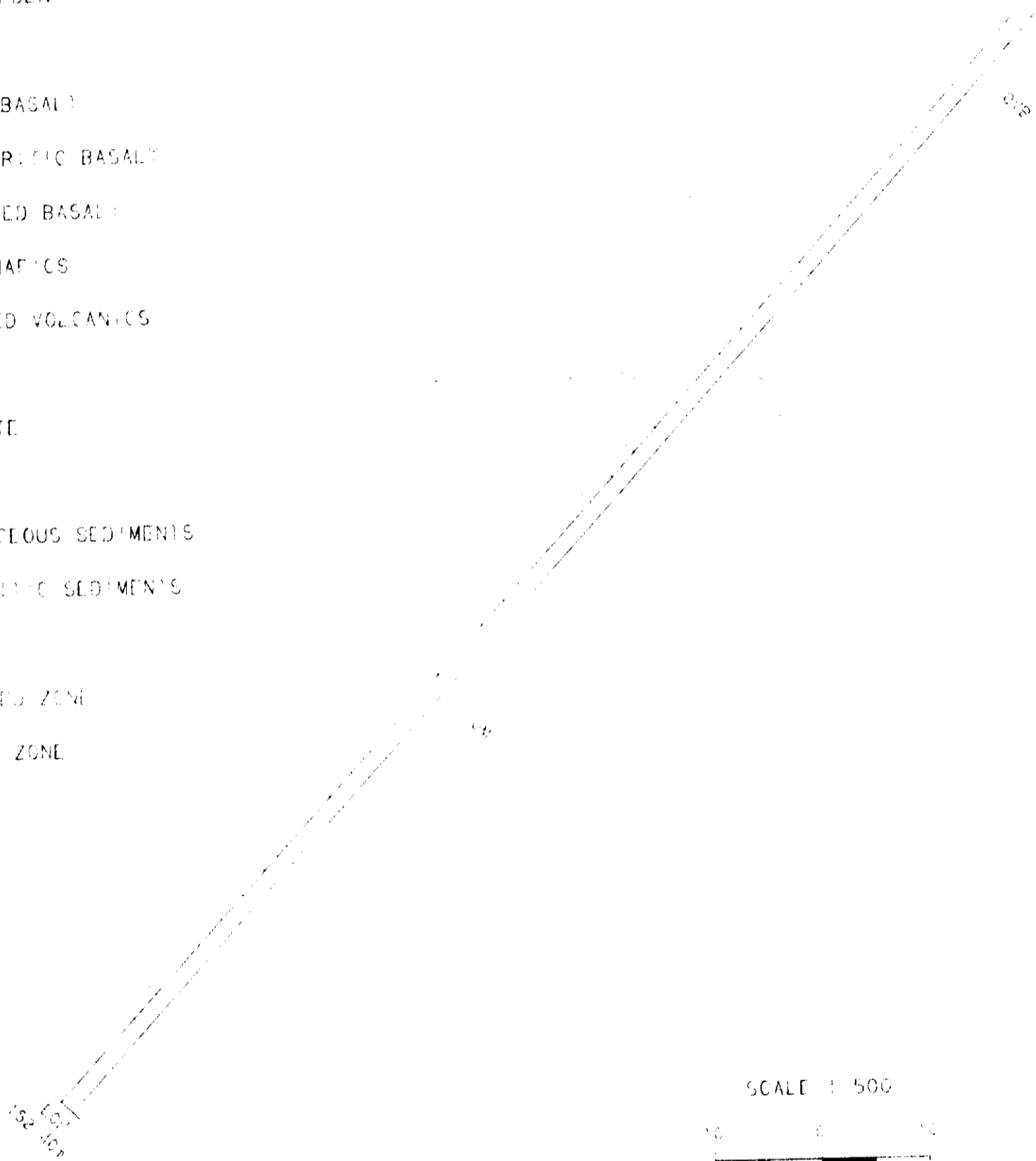
-50

-100

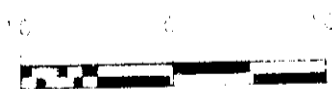
-150

-50

-100



SCALE 1:500



METRES

2.12325

EBONY GOLD MINES LTD.

FREDERICK HOUSE LAKE PROJECT

DUNDONALD & McCART TWPS.

DIAMOND DRILL PROFILE

SECTION 6-00E (LOOKING EAST)

HOLE EM-88-3

DURHAM GEOLOGICAL SERVICES INC

SUPVISED BY
P. DUNN

DRAWN BY
L. DUNN

APPROVED BY

DATE

NO. 8

R.H. Dunn



42A10N0560 2.12325 DUNDONALD

300S

350S

400S

L 6+00 E
4+00 S
EM-88-4

LEGEND

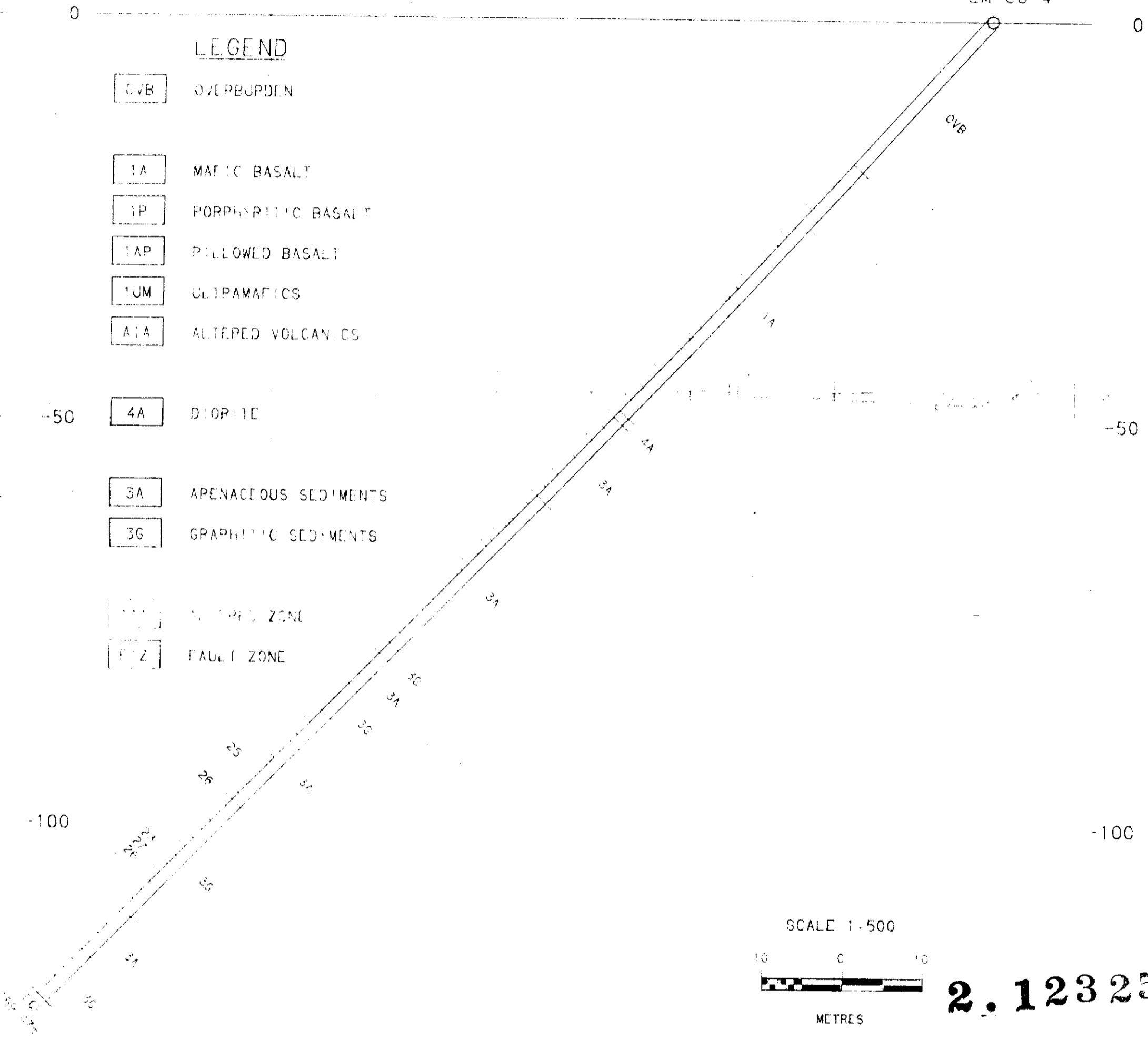
- CVB OVERBURDEN

- 1A MAFIC BASALT
- 1P PORPHYRIC BASALT
- 1AP PILLOWED BASALT
- 1UM ULTRAMAFICS
- A1A ALTERED VOLCANICS

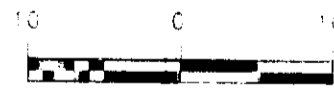
- 4A DIORITE

- 3A AMPHIBOLEOUS SEDIMENTS
- 3G GRAPHITIC SEDIMENTS

- MZ METAMORPHIC ZONE
- FZ FAULT ZONE



SCALE 1:500



METRES

2.12325

EBONY GOLD MINES LTD.

R.H. Dues

FREDERICK HOUSE LAKE PROJECT

SURVEY BY
R. DUES

DUNDONALD & McCART TWPS.

DRAWN BY
LOG 01

DIAMOND DRILL PROFILE
SECTION 6+00E (LOOKING EAST)

APPROVED BY

NTS

HOLE - EM-88-4

DATE
MAR 789

DWG NO

DUPHAM GEOLOGICAL SERVICES INC

9



42A10NW0580 2.12325 DUNDONALD