DIAMOND DRILL CORE LOG-SUMMARY SHEET

Project: AUMO Denton Twp
Date: December 29, 1998
Logged by: Robert Calhoun
Drilling Co: Colbert Drilling

010

DDH: EM98-1

Claim Number: P11152 Patent

COLLAR LOCATION: L200E/355S

SURVEYS: Acid Test

	Depth	Azimuth	Dip
Setup:	0.0m	300°	-40°
	135.0m	300°	-34°

TIMMINS COORDINATES

Northing: 355S
Easting 200E
Elevation: 0.0 meters
TD: 255 meters

GRID COORDINATES

DRILLING DATES
Started: December 29, 1998
Finished: December 31, 1998

DIAMOND DRILL SUMMARY LOG

Project: AUMO Denton Twp
Date: December 29, 1998
Logged By: R. Calhoun

DDH: EM98-1

GEOLOGIC SUMMARY

FROM	TO	DESCRIPTION	INTERVAL			SIGNIFICANT ASSAY AVERAGES				
(m)	(m)		From (m)	To (m)	Width (m)	Cu ppm	Zn ppm	Pb ppm	Ag ppm	Au ppb
0.0	3.0	Overburden								
3.0	32.3	Felsic to Intermediate Volcanic								
32.3	108.0	Intermediate Volcanic								
108.0	116.0	Mafic to Intermediate Tuff								
116.0	122.0	Felsic Volcanic								
122.0	129.7	Mafic to Intermediate Volcanic								
129.7	138.6	Felsic Tuff/Argillite/Quartz Veining	133.0	138.9	5.9	986	4817	21	2.0	22
138.6	144.8	Intermediate Tuff								
144.8	158.8	Intermediate (Mafic) Volcanic								
158.8	161.8	Intermediate Volcanic								
161.8	181.6	Mafic Volcanic								
181.6	189.7	Mafic Volcanic								
189.7	255.0	Intermediate to Mafic Volcanic								
255.0		End of Hole								

COMMENTS

Diamond Drill Log

Property: Denton AUMO | Hole Number: EM98-1 | Claim Number: Patent # P11152

Location: L200E/355S | Final Depth: 255 meters | Logged By: Robert Calhoun

Azimuth: 300° | Dates Drilled: Dec 29-31/98 | Drilled By: Colbert Drilling

Dip: -40° | Dates Logged: Dec 30-31/98 | Signature:

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
0	3.0	Overburden									
3.0	32.3	Felsic to Intermediate Volcanic -fine to medium grained, light grey green to medium green grey, siliceous to silicified. The unit is layered with lapilli to fragmental layers and fine grained medium grey thinly bedded. Alteration is as layers of sericite rich tuff bleached to beige to pale green. The layering continues to 18.0 meters. Layering 49° to core axis. 3.0-18.0-sulfides of pyrrhotite and **chalcopyrite** and pyrite occurs locally in "layers" to 1 meter. Pyrrhotite is up to 25% as fracture controlled veinlets to clots. 18.0-32.3-chaotic section with probable flow fractures and fragments, siliceous, bleached, small circular lapilli dark green. Alteration is sericite, silicification and bleaching. Sulfides are minor to nil.	1667	8.7	10.2	1.5	244	62	1	0.2	3
			1668	10.2	11.7	1.5	214	49	1	0.2	7
			1669	16.5	17.8	1.3	456	42	1	0.5	14
			1670	17.8	19.2	1.4	236	46	1	0.4	12
32.3	108.0	Intermediate Volcanic -fine grained, medium green grey to grey green, weakly foliated tuff. Unit is relatively featureless with local layers of very fine tuff, pale grey, minor to locally abundant dark grey to green spots probable hyaloclastic material, occasional rimmed with feldspathic bleaching. Contact with upper unit is 20cm quartz vein. Unit is weakly to locally moderately siliceous. Quartz veining as 4 to 10cm veins less than 5% of unit. Sulfides are nil to trace.									

Diamond Drill Log

Hole # EM98-1

From	To	Description	Sample #	From	To	Length (meter)	Assays Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		67.2-100.6-this section contains "layers" of feldspar porphyry interbedded with fine tuff. The porphyry sections form sharp contacts with the fine tuff but the contacts vary from 30° to core axis to contorted. These may be synvolcanic intrusives or porphyritic tuff layers. The feldspar phenocrysts are white up to 4mm, with occasional dark centers, they are sub-angular to angular, quartz "eyes" where present are small. The tuff between the porphyry layers are medium grained, contain ghost feldspars and are greyer than above. Occasionally the porphyry layers are less than 20cm in length, some longer sections are as follows.	1789	67.2	68.7	1.5	-	-	-	-	7
			1790	68.7	70.6	1.9	-	-	-	-	2
			1791	73.4	75.0	1.6	-	-	-	-	3
			1792	75.0	76.5	1.5	-	-	-	-	17
			1793	76.5	78.0	1.5	-	-	-	-	nil
			1794	78.0	79.6	1.6	-	-	-	-	2
			1795	88.2	90.0	1.8	-	-	-	-	5
			1796	90.0	91.5	1.5	-	-	-	-	31
			1797	91.5	93.0	1.5	-	-	-	-	36
			1798	93.0	94.5	1.5	-	-	-	-	7
			1799	94.5	96.0	1.5	-	-	-	-	7
			1800	96.0	97.5	1.5	-	-	-	-	17
			1801	97.5	99.0	1.5	-	-	-	-	9
			1802	99.0	100.6	1.5	-	-	-	-	10
		67.2-70.7; 73.4-75.5; 77.2-79.7; 88.2-100.6. The longer section 88.1-100.6 contains finer grey tuff sections? 3-10cm in length with small quartz veins in each section <5mm wide with associated calcite carbonate. Porphyry matrix is weakly calcitic. Feldspar in this section make up to 60% of rock volume. One of these finer sections contain a pyrrhotite veinlet <2mm wide.									
108.0	116.0	Mafic to Intermediate Tuff -fine grained, medium green to green grey similar to above but contains more mafic material. This unit has chloritic patches which appear like pillow selvages. Unit is siliceous, feldspathic altered with white to beige alteration with local bleaches. Sulfides of pyrrhotite/ pyrite increase in this section with pyrite cubes to 1cm and pyrrhotite as clusters to clots. Sulfides 1%.									
116.0	122.0	Felsic Volcanic -fine grained, medium grey to green beige, sericitic. Unit is coarsely bedded to thinly laminated with green sericitic interbedded with pale grey siliceous layers, small quartz eyes occur in layers to 30cm in length. 116.0-120.5-sericitic layer with local sulfides of pyrite/pyrrhotite up to 15% over 40cm, 2% total for section.	1671	117.0	118.0	1.0	29	9	1	0.1	nil
			1672	118.0	119.0	1.0	43	23	1	0.2	nil
			1673	119.0	120.5	1.5	8	49	1	0.2	nil

Diamond Drill Log

Hole # EM98-1

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		120.5-122.0-Argillite to cherty argillite weakly graphitic, with pyrrhotite pyrite and **chalcopyrite**. Small quartz carbonate veins. Sulfides to 35%, locally	1674	120.5	122.0	1.5	426	83	8	0.7	10
		semi-massive fracture veins to clots. This section also contains possible tourmaline.									
122.0	129.7	Mafic to Intermediate Tuff -as 108-116 above.									
129.7	138.6	Felsic Tuff/Argillite/Quartz veining -this is a mixture zone of fine tuff, pale green, sericitic thinly laminated with quartz veining and a bed of graphitic argillite siliceous.									
		129.7-131.4-quartz vein with massive sulfide layers of pyrrhotite at upper contact, pyrite/ pyrrhotite in center band and mainly pyrite with pyrrhotite at lower contact. Massive bands are 15cm, 40cm and 25cm respectively with disseminated sulfides on fractures in quartz veins. Sulfides are 50-60% of section. **Chalcopyrite/sphalerite** minor.	1675	129.7	130.6	0.9	39	321	1	0.5	nil
			1676	130.6	131.4	0.8	943	158	36	1.3	79
		131.4-133.0-finely bedded tuff to tuff fragmental towards top of section. Pyrrhotite/pyrite 8-10% as fine disseminations and small discontinuous veinlets.	1677	131.4	133.0	1.6	82	112	5	0.3	nil
		133.0-134.7-Argillite to graphitic argillite thinly bedded, siliceous can not be scratched with a knife. Section contains pyrrhotite to 25% as veins and clots. **Chalcopyrite** is locally abundant, possible minor **sphalerite**.	1678	133.0	133.8	0.8	990	3920	30	1.5	24
			1679	133.8	134.7	0.9	768	6330	18	1.5	27
		134.7-135.9-tuff with argillaceous component, pyrite/ pyrrhotite as veinlets thin layers and clusters. **Chalcopyrite** minor, **sphalerite** as clusters and grains up to 1%.	1680	134.7	135.9	1.2	726	4290	12	1.0	14
		135.9-138.6-thinly laminated tuff with layers of fine sulfides of pyrrhotite, pyrite. **Chalcopyrite** <1%, **sphalerite** as grains and clusters <1%. Quartz veining <5% of unit. Unit is sericitic.	1681	135.9	137.1	1.2	1100	8960	4	2.0	24
			1682	137.1	138.9	1.5	1190	2050	1	2.2	21
138.6	144.8	Intermediate Tuff -fine grained, light to medium green grey, with massive layers and thinly laminated sections. Pyrrhotite, pyrite	1683	138.6	139.8	1.2	347	113	1	0.3	53

Diamond Drill Log

Hole # EM98-1

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		occurs as massive veinlets to clusters mainly in the thinly laminated section. **Chalcopyrite** as small veinlets and knots to 1%	1684	139.8	140.8	1.0	137	111	1	0.2	2
			1685	140.8	141.8	1.0	536	382	1	1.1	15
			1686	141.8	143.6	1.8	39	112	1	0.1	nil
			1687	143.6	144.8	1.2	469	403	6	0.5	17
144.8	158.8	Intermediate (Mafic) Volcanic -medium to fine grained, medium green to light green towards bottom of sections. Unit is medium grained to 154.6m with 5% quartz/calcite veins, become fine grained, lighter green to end of section, minor quartz, nil sulfides.									
158.8	161.8	Intermediate Volcanic -laminated-fine grained, medium to dark green, banded, probably flow bands with alternating pale green to greyish and dark green layers. Unit has variable sulfides of pyrrhotite/pyrite and **chalcopyrite**. Sulfides occur as massive veinlets clusters and disseminations. **Chalcopyrite** can be up to 1% over 10-15cm as clusters in pyrrhotite and discontinuous veinlets <1mm wide. Sulfides are up to 25% of section. Layering 50° to core axis.	1688	158.8	160.3	1.5	555	85	1	0.8	17
			1689	160.3	161.8	1.5	834	124	3	1.3	7
161.8	181.6	Mafic Volcanic -fine to medium grained, light to medium green, weakly to moderately altered, with dark grains or spots (hyaloclastite?) minor tourmaline. Unit is locally siliceous with feldspathic alteration. 161.8-162.5-5% pyrrhotite as massive veinlet with **chalcopyrite** and pyrite cubes to 4mm. This unit is probably pillowed with selvages marked by increased chlorite in selvages with pillow fragments giving it a chaotic appearance, pillow rims are bleached, siliceous, and locally the unit contains leucoxene. Pyrrhotite occurs in "selvages" as at 167.4-171.4, **chalcopyrite** occurs as blebs in the pyrrhotite. Pyrrhotite decreases down section but pyrite becomes more abundant to 1% towards lower contact.	1690	161.8	162.5	0.7	248	97	4	0.7	nil
			1691	167.1	168.6	1.5	386	78	1	0.5	9
			1692	168.6	170.1	1.5	102	71	1	0.2	3
			1693	170.1	171.1	1.0	303	88	1	0.6	7

Diamond Drill Log

Hole # EM98-1

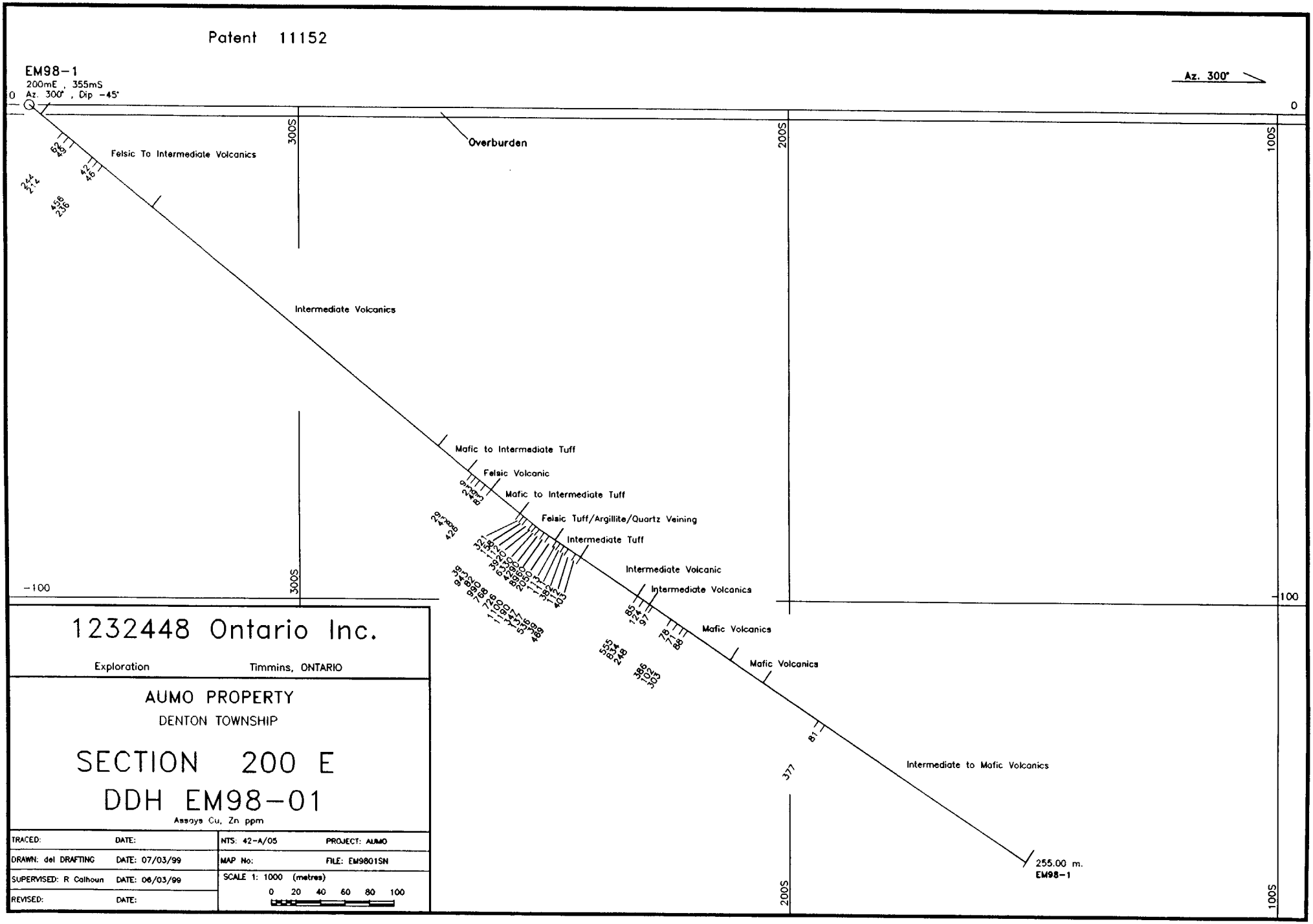
From	To	Description	Sample #	Assays From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
181.6	189.7	Mafic Volcanic -fine grained, light to medium grey green, massive but possibly still pillowed but pillows are much larger than above and unit is less chaotic and less altered. Sulfides are nil to trace. Upper contact quartz vein. Lower contact 23° to core axis.									
189.7	255.0	Intermediate to Mafic Volcanic -fine to locally medium grained, light grey to whitish to medium grey. The unit has feldspathic alteration, whitish to pale beige white giving core a mottled appearance. There are feldspars, white with occasional dark centres occurring in layers up to 0.5m within fine grained non "porphyritic" sections. The unit is weakly foliated to layered. The occurrence of the feldspar phenocrysts or possible amygdules may be amygdule concentrations at pillow rims?? But no selvages are evident. The unit is weakly silicified. The layering may also be flow layering which is more likely. Down hole, sericite increases locally. Sulfides of pyrrhotite, mainly; minor pyrite and **chalcopyrite** occur randomly as discontinuous veinlets, clusters and occasionally as fragments, stretched to 1.5cm flattened to 0.5cm. Most abundant occurrence if from 198.0-205.0m. **Chalcopyrite** is minor. 216.8-220.4-sericitic section, this section is more granular in appearance which may be the carbonate in the matrix. Calcite occurs as grains and small veinlets <2mm wide. 220.4-229.9-this section is more obviously layered sericitic. Sericite decreases down section with silica and feldspar increasing towards end of section. Porphyritic nature continues with local porphyroblasts to 0.5cm. 229.9-239.6-mafic volcanic section-medium grained, possible pillows, contact 65° to core axis. 239.6-253.4-feldspar/silica rich section with pink feldspathic sections, porphyritic sections with white feldspars and small <1m sections of fine ash volcanic. 253.4-255.0-mafic section, medium green to grey, massive generally featureless	1694	203.4	204.9	1.5	377	81	1	0.8	11

Diamond Drill Log

Hole # EM98-1

			Assays								
From	To	Description	Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
	255.0	End Of Hole									
		Acid Test									
		135.0m -34°									
		The following samples were re-assayed, Au only by, crushing the entire sample, rolling to homogenize it and assaying a one ton assay sample.	1679	133.8	134.7	0.9	-	-	-	-	38
			1680	134.7	135.9	1.2	-	-	-	-	14
			1681	135.9	137.1	1.2	-	-	-	-	21
			1682	137.1	138.6	1.5	-	-	-	-	19
			1683	138.6	139.8	1.2	-	-	-	-	82
			1684	139.8	140.8	1.0	-	-	-	-	5
			1685	140.8	141.8	1.0	-	-	-	-	15
			1686	141.8	143.6	1.8	-	-	-	-	5
			1687	143.6	144.8	1.2	-	-	-	-	14

Patent 11152



1232448 Ontario Inc.

Exploration Timmins, ONTARIO

AUMO PROPERTY

DENTON TOWNSHIP

SECTION 200 E

DDH EM98-01

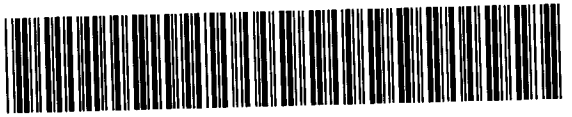
Assays Cu, Zn ppm

TRACED:	DATE:	NTS: 42-A/05	PROJECT: AUMO
DRAWN: del DRAFTING	DATE: 07/03/99	MAP No:	FILE: EM9801SN
SUPERVISED: R Calhoun	DATE: 08/03/99	SCALE 1: 1000 (metres)	
REVISED:	DATE:	0 20 40 60 80 100	

DIAMOND DRILL CORE LOG-SUMMARY SHEET

Project: AUMO Denton Twp
Date: January 8-11, 1999
Logged by: Robert Calhoun
Drilling Co: Colbert Drilling

DDH: EM99-2



Claim Number: P17405 Patent

COLLAR LOCATION: L600E/050S

SURVEYS: Acid Test

	Depth	Azimuth	Dip
Setup:	0.0m	150°	-70°
	135.0m	150°	-63°

TIMMINS COORDINATES

Northing:
Easting
Elevation: 0.0 meters
TD: 194.7 meters

GRID COORDINATES

050S
600E

DRILLING DATES
Started: January 8, 1999
Finished: January 11, 1999

DIAMOND DRILL SUMMARY LOG

Project: AUMO Denton Twp
Date: January 11, 1999
Logged By: R. Calhoun

DDH: EM99-2

GEOLOGIC SUMMARY

FROM	TO	DESCRIPTION	INTERVAL			SIGNIFICANT ASSAY AVERAGES				
(m)	(m)		From (m)	To (m)	Width (m)	Cu ppm	Zn ppm	Pb ppm	Ag ppm	Au ppb
0.0	15.8	Overburden								
15.8	24.6	Argillite/Graphitic Argillite/Sulfides	15.8	17.5	1.7	710	3280	31	2.0	36
24.6	29.1	Foliated Sericite Tuff	19.2	21.3	2.1	788	1950	48	1.8	202
29.1	37.9	Tuff								
37.9	45.2	Mafic Volcanic								
45.2	53.2	Mafic Volcanic								
53.2	85.3	Mafic Volcanic								
85.3	90.8	Felsic Porphyry								
90.8	132.3	Mafic Volcanic								
132.3	137.4	Porphyry								
137.4	148.2	Mafic Volcanic								
148.2	155.1	Porphyry								
155.1	194.7	Mafic Volcanic								

COMMENTS I.P. chargeability anomaly

Diamond Drill Log

Property: Denton AUMO
Location: L600E/050S
Azimuth: Grid South 150°
Dip: -70°

Hole Number: EM99-2
Final Depth: 194.7 meters
Dates Drilled: Jan 8-10, 1999
Dates Logged: Jan 9-11, 1999

Claim Number: 17405 Patent
Logged By: Robert Calhoun
Drilled By: Colbert Drilling
Signature:

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
0	15.8	Overburden									
15.8	24.6	Argillite/Graphitic Argillite/Sulfides -fine grained, dark grey to black silicified argillite, interbedded with siltstone to fine sand size, tuffaceous layers, minor. The argillitic sections contain massive sulfides as small veinlets, contorted accumulations forming massive layers to 20cm in width and pyrite nodules. Local pyrrhotite carries chalcopyrite up to 1% over 10cm. Sphalerite is minor and is mainly in the "coarser" tuffaceous sections.									
		15.8-17.5-tuffaceous section with py/po to 10%, sphalerite to <1%	1695	15.8	17.5	1.7	710	3280	31	2.0	36
		17.5-18.3-argillite with py, po to 25%, chalcopyrite <1%	1696	17.5	18.4	0.9	739	621	47	2.3	86
		18.3-19.2-tuffaceous section 5-8% py as disseminated grains to <1mm.	1697	18.4	19.2	0.8	223	573	3	0.2	10
		19.2-23.4-argillite, minor tuff sections with pyrite to 40%, pyrrhotite local to 10%, chalcopyrite with pyrrhotite, locally 1% over 10cm, minor sphalerite. Lower contact is quartz carbonate vein.	1698 1699	19.2 21.3	21.3 23.4	2.1 2.1	788 670	1950 528	48 70	1.8 1.9	202 168
		23.4-24.6-tuffaceous section with 30cm argillite layer. Pyrite to 15%, as dissemination, small veinlets and massive veinlets in argillite to 5mm.	1700	23.4	24.6	1.2	501	607	4	0.5	24

Diamond Drill Log

Hole # EM99-2

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		Layering is at 34° to core axis.									
24.6	29.1	Foliated Sericite Tuff -fine to medium grained, pale green to grey, foliated sericitic tuff, hosting pyrite as disseminations, minor massive veinlets and pyrrhotite as elongated nodules. Sericite is moderate to strong with 40cm section of very strong sericitization. Foliation at 38° to core axis. Unit contains small dark grey to black quartz eyes, abundant in upper 2m.	1701 1702 1703	24.6 26.0 27.6	26.0 27.6 29.1	1.4 1.6 1.5	311 42 60	30 49 37	7 1 1	0.4 0.1 0.1	10 5 60
29.1	37.9	Tuff -fine grained, medium to dark green weakly foliated mafic tuff, soft, chloritic, calcitic as grains to small veinlets. The unit contains mainly pyrrhotite as disseminations, elongated nodules and small veinlets to 0.5mm. Chalcopyrite is minor, sphalerite nil.	1704 1705	29.1 31.1	31.1 33.0	2.0 1.9	176 132	100 118	1 1	0.2 0.2	9 9
37.9	45.2	Mafic Volcanic -fine to medium grained, medium to dark green, fracture controlled carbonate to 5cm. Minor quartz veining. Unit is massive, minor chlorite filled fractures.									
45.2	53.2	Mafic Volcanic -fine to medium grained, medium to dark green, possibly pillowed with pyrrhotite veining in selvages, with minor chalcopyrite. Pyrite occurs throughout the unit as cubes up to 0.8cm and minor clusters of cubes.									
53.2	85.3	Mafic Volcanic -medium grained, dark to medium green, chloritic, possibly pillowed, flow structures locally but unit is fairly massive in appearance. Unit is variably magnetic and contains pyrite cubes as above but cubes are generally smaller <2mm in size. Chalcopyrite occurs as small random veinlets, fracture fillings. Unit has abundant white flecks to 10-15% of unit possible leucoxene. Fined grained chloritic sections occur randomly may be indicative of pillow edges?									

Diamond Drill Log

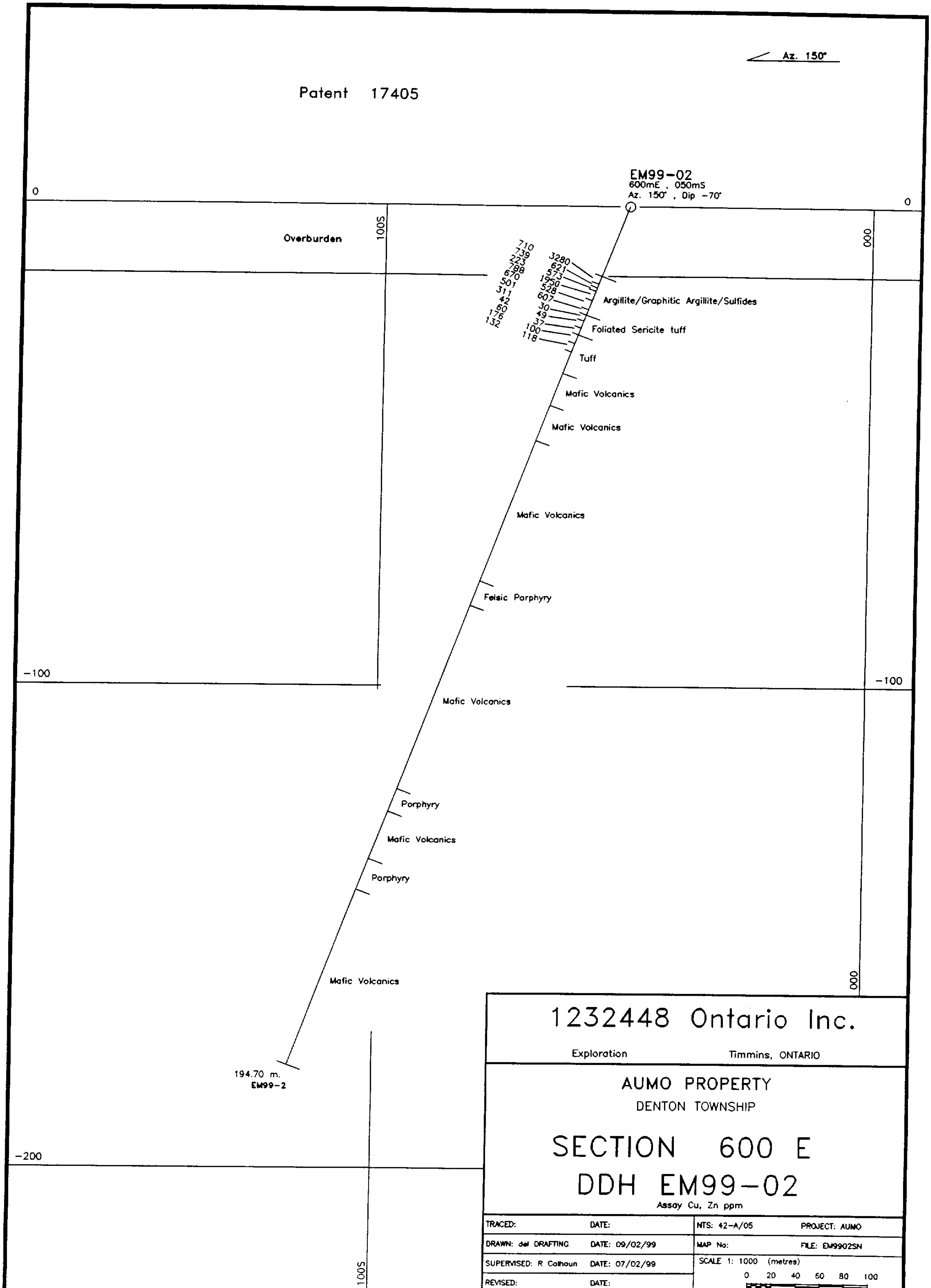
Hole # EM99-2

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		Grains of magnetic small <1mm occur through the unit. Unit has dark green probably chlorite spots. 66.0-74.0-abundant calcite and/or quartz veins to 2cm in width random orientations.									
85.3	90.8	Felsic Porphyry -fine to medium grained light to medium grey to sericitic green grey, medium hard to hard. Feldspar phenocrysts are saussuritized, yellow green, sericite is weak to moderate foliation related to locally pervasive. Minor quartz veining to silica rich sections <2cm in width. Upper contact contorted lower at 38° to core axis. Minor sulfides in mafic side of contact.									
90.8	132.3	Mafic Volcanic -medium grained, dark green as above. Pyrite in this section is trace as cubes, very random. Unit strongly magnetic local, moderately magnetic continuously. Unit is locally coarser grained in appearance due to carbonate grains in the matrix. Calcite and/or quartz veining is random as veins <5cm 60/90° to core axis. Unit is solid only minor fracturing at 60/30° to core axis. 118.0-119.0-slight increase in quartz veining as veins to 10cm.									
132.3	137.4	Porphyry -fine grained, light to medium grey to grey green, weakly to moderately sericitized. Unit has minor sulfides of pyrite. Fractures display potassic alteration for up to 0.4cm and locally alteration is pervasive. Upper and lower contact areas <1.0m are darker grey, possibly chilled. Quartz eyes are small medium to dark grey, feldspars most evident in upper and lower contact zones as white, 2mm phenocrysts. 136.3-136.7-alteration zone of silica, feldspathization 10cm white quartz vein and possible tourmaline in fracture in quartz. Section is beige coloured as potassic alteration.									

Diamond Drill Log

Hole # EM99-2

From	To	Description	Sample #	Assays From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
137.4	148.2	Mafic Volcanic -fine to coarse grained, dark green to blackish mafic flow with carbonate in matrix. Pyrite as small cubes as above, locally to 5%. Chlorite occurs as "veins" and clots. Quartz/carbonate veining as small veins <2cm, random orientations, dominant at 70° to core axis.									
148.2	155.1	Porphyry -fine to medium grained, light to medium grey, weakly foliated at 47° to core axis, quartz eye porphyry. Quartz eyes are darkish grey to 1mm, occasional 2mm quartz eyes, porphyroblastic, rounded. Feldspar less evident, minor. Pyrite is minor to <1% as disseminations and one "veined" section at 151.0. Quartz is minor, potassic alteration minor concentrated near fractures.									
155.1	194.7	Mafic Volcanic -fine to medium grained, locally coarser especially towards end of section. This section contains disseminated and cube pyrite as above. Quartz and carbonate veining is slightly increased in this section as white veins at 60/80° to core axis dominantly. Unit is magnetic weak to strong except in foliated section below. 170.0-176.6-foliated section with carbonate grains calcite on foliations at 53° to core axis. Pyrite slightly increased. 176.6-194.7-coarser grained section with olive green colouration appearing, probably saussuritization of feldspars may be micro gabbro. Quartz vein 190.7-191.1 white 60° to core axis. May have small tourmaline.									
	194.7	End of Hole acid test 194.7 -63°									



Az. 150°
Patent 17405
EM99-02
600mE , 050mS
Az. 150° , Dip -70°
0
0
Overburden
100S
000
710
739
223
788
670
501
311
42
60
176
132
3280
621
573
1950
528
607
30
49
37
100
118
Argillite/Graphitic Argillite/Sulfides
Foliated Sericite tuff
Tuff
Mafic Volcanics
Mafic Volcanics
Mafic Volcanics
Felsic Porphyry
-100
-100
Mafic Volcanics
Porphyry
Mafic Volcanics
Porphyry
Mafic Volcanics
000
194.70 m.
EM99-2
-200
100S
1232448 Ontario Inc.
Exploration
Timmins, ONTARIO
AUMO PROPERTY
DENTON TOWNSHIP
SECTION 600 E
DDH EM99-02
Assay Cu, Zn ppm
TRACED:
DATE:
NTS: 42-A/05
PROJECT: AUMO
DRAWN: del DRAFTING
DATE: 09/02/99
MAP No:
FILE: EM9902SN
SUPERVISED: R Calhoun
DATE: 07/02/99
SCALE 1: 1000 (metres)
0 20 40 60 80 100
REVISED:
DATE:

DIAMOND DRILL CORE LOG-SUMMARY SHEET

Project: AUMO Denton Township
Date: March 8-10, 1999
Logged by: Robert Calhoun
Drilling Co: Colbert Drilling

DDH: EM99-3

030

Claim Number: Patent # 17405

COLLAR LOCATION: L575E/012S

SURVEYS: Acid Test

	Depth	Azimuth	Dip
Setup:	0.0	150°	-70°
	123.0m		-64°

TIMMINS COORDINATES

GRID COORDINATES

Northing: 012S
Easting 575E
Elevation: 0.0 meters
TD: 123 meters

DRILLING DATES
Started: March 8, 1999
Finished: March 10, 1999

DIAMOND DRILL SUMMARY LOG

Project: AUMO Denton Township
Date: March 8, 1999
Logged By: R. Calhoun

DDH: EM99-3

GEOLOGIC SUMMARY

FROM	TO	DESCRIPTION	INTERVAL			SIGNIFICANT ASSAY AVERAGES				
(m)	(m)		From (m)	To (m)	Width (m)	Cu ppm	Zn ppm	Pb ppm	Ag g/t	Au ppb
0.0	16.4	Overburden								
16.4	22.2	Felsic Volcanic - Porphyritic								
22.2	28.8	Felsic Volcanic								
28.8	34.6	Mafic Volcanic								
34.6	47.3	Mafic Volcanic								
47.3	51.8	Mafic Volcanic								
51.8	57.8	Mafic Volcanic								
57.8	69.6	Mafic Volcanic - Pillowed								
69.6	73.4	Mafic Volcanic to Sediment								
73.4	78.0	Mafic Volcanic								
78.0	78.9	Mafic Volcanic								
78.9	81.4	Felsic Tuff (Sediment)								
81.4	86.8	Felsic Tuff (Sediment)								
86.8	96.0	Mafic Volcanic								
96.0	101.8	Mafic Volcanic - Dacite								
101.8	115.3	Mafic Volcanic - Pillowed basalt								
115.3	123.0	Mafic Volcanic - Flow Breccia								
123.0		End of Hole								

COMMENTS

Diamond Drill Log

Property: AUMO Denton Township
Hole Number: EM99-3
Claim Number: Patent #17405
Location: L575E/012S
Final Depth: 123.0 meters
Logged By: Robert Calhoun
Azimuth: Grid South 150°
Dates Drilled: March 8-10, 1999
Drilled By: Colbert Drilling
Dip: -70°
Dates Logged: March 10-11, 1999
Signature:

			Assays								
From	To	Description	Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
0	16.4	Overburden									
16.4	22.2	Felsic Volcanic (?)-porphyritic -fine to medium grained, light to locally medium grey to grey green. Unit contains feldspar phenocrysts or crystals to 1mm. The phenocrysts or crystals appear to be in pseudo-layers. Maybe a crystal tuff. Lower contact is crushed.									
22.2	28.8	Felsic Volcanic -fine grained generally, medium to dark grey, medium hard to weakly siliceous. Unit has a variable texture from tuffaceous layered to massive with large (to 0.5cm) nodules pale green to epidote colour probable saussuritized feldspars. Sulfides are minor with one area of 3-5% py -23.2-23.4 and minor to 1% associated **chalcopyrite** as small grains to clusters. Pyrite is as fine discontinuous laminae. Lower contact -55° to core axis.									
28.8	34.6	Mafic Volcanic -fine to medium grained, medium to dark green matrix but the colour is predominantly whitish due to feldspathization and weak silicification. The unit has a chaotic appearance. Dark green chloritic nodules and spots occur throughout the section. Lower contact 47° to core axis.									

Diamond Drill Log

Hole # EM99-3

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
34.6	47.3	Mafic Volcanic -fine grained, medium to dark green massive to weakly foliated. Upper section is massive to (to 41m) giving way to a more tuffaceous appearing section with weak silicified section. Sulfides occur in this lower section. Pyrite as large cubes and minor laminae and pyrrhotite as fine laminae generally. Minor chalcopyrite occurs with the pyrrhotite, as at 45.1m, in small clusters. Minor **sphalerite** as individual reddish grains.									
47.3	51.8	Mafic Volcanic -feldspathic altered as above 28.8-34.6m.									
51.8	57.8	Mafic Volcanic -fine grained, medium to dark green, massive generally featureless with minor sulfides of pyrite as clusters to veinlets of medium cubes and minor pyrrhotite on fractures with **minor chalcopyrite** as at 57.7.									
57.8	69.6	Mafic Volcanic-pillowed -fine grained, medium to dark green matrix altered to apple green and white due to variable, selective feldspathization. This section gives the impression of being pillowed with selvages marked as dark green chloritic patches. The feldspathization has selectively altered pillow fragments and pillow interiors giving a chaotic alteration pattern. Sulfides of pyrite occur in "zones" of pyrite cubes generally and minor laminae.									
69.6	73.4	Mafic Volcanic to sediment -fine grained, dark green, siliceous with local patches of silica/feldspar white to greyish. Unit is possibly a fine ash sediment. 10-25% of the unit is massive magnetite locally as fine grained layering. Pyrrhotite and associated **chalcopyrite** occur as nodule clusters to disrupted veins. Chalco is minor. Lower contact area 72.6-73.4 becomes weakly bleached and contains no magnetite but contains small grains of probable **sphalerite** and limonite. Magnetite section is conductive.	1733 1734 1735 1718	69.6 70.6 71.6 72.6	70.6 71.6 72.6 73.6	1 1 1 1	512 69 67 198	49 75 138 3430	1 1 1 1	0.5 0.1 0.2 0.4	27 14 31 45

Diamond Drill Log

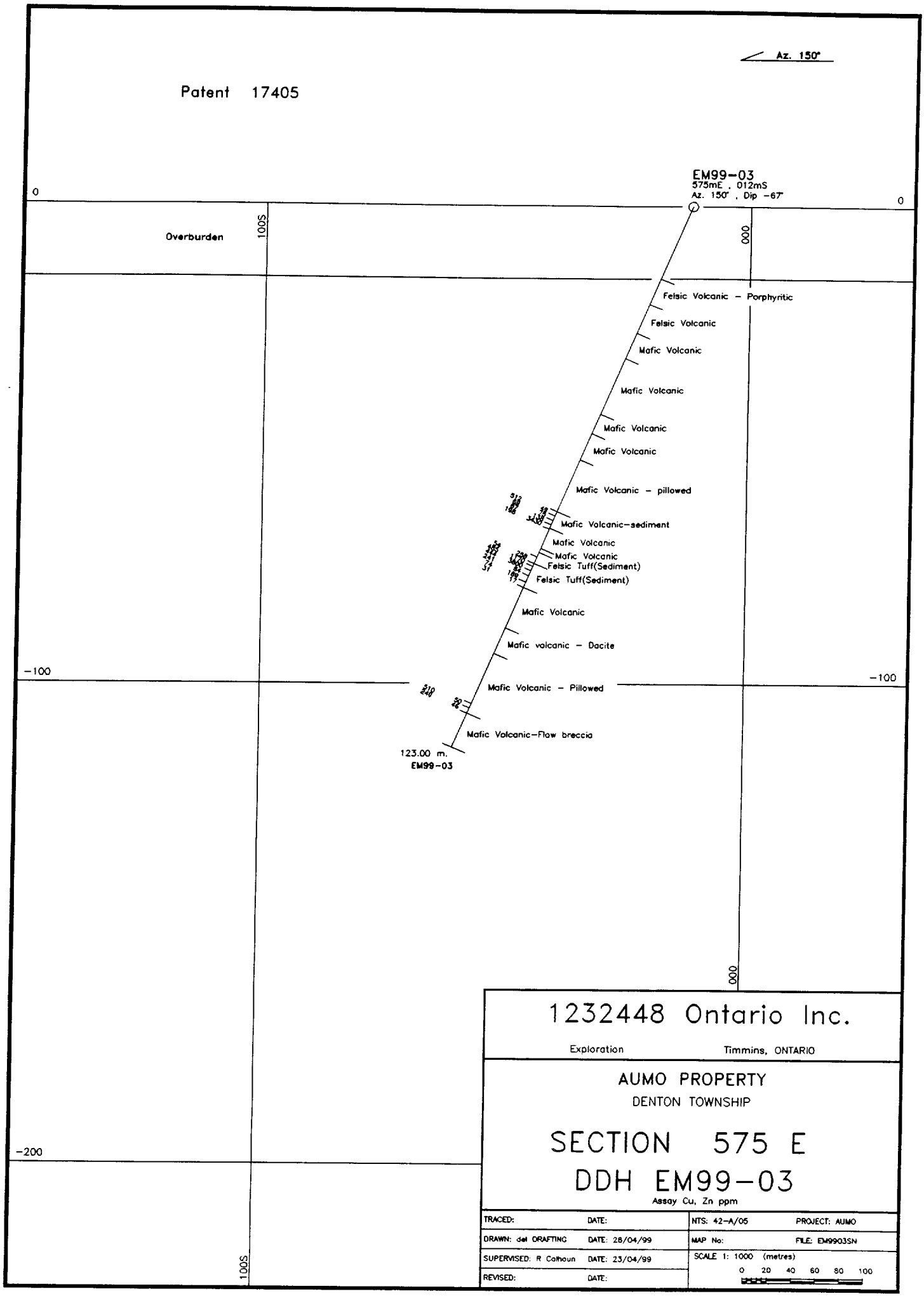
Hole # EM99-3

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
73.4	78.0	Mafic Volcanic -fine to medium grained, medium green, granular in appearance locally. Massive with calcite filled fractures at 60° and 30° to core axis. Section may be Dacite.									
78.0	78.9	Mafic Volcanic -magnetite as above 57.8-69.6m									
78.9	81.4	Felsic Tuff (Sediment) -fine to medium grained, light to medium grey green, sericitic, may contain fragments. The unit contains cherty exhalite in discontinuous layers and as broken layers - pale grey. Also silica/feldspar sections, white generally broken. The unit is layered and variably bleached on the layering. Sulfides of pyrrhotite dominant and pyrite occur randomly through the section <1% as local concentrations. Foliation 42° to core axis.	1719	79.9	81.4	1.5	54	258	1	0.1	nil
81.4	84.1	Graphitic Argillite -fine grained black graphitic argillite hosting 10-15% mainly pyrite as laminae and nodules to 2cm. The section is silicified making the argillite hard to scratch.									
		81.4-82.0 (0.6)-cherty exhalite layer with 15% pyrrhotite/pyrite, chert layering and grey quartz veins.	1720	81.4	82.0	0.6	485	1170	1	0.8	3
81.4	86.8	Felsic Tuff (sediment) -fine to medium grained, pale to medium green grey, sericitic. Unit has a granular appearance, foliated. Pyrite pyrrhotite occur as fine dissemination and local veinlets to 0.5cm in width. Some limonite staining on fractures. Foliation 60° to core axis.	1721 1722 1723 1724	82.0 83.0 84.1 85.6	83.0 84.1 85.6 86.8	1.0 1.1 1.5 1.2	444 241 74 31	3800 64 169 17	50 47 1 1	1.6 1.1 0.1 0.1	75 93 3 2
86.8	96.0	Mafic Volcanic -fine grained to medium grained, medium to dark green. The upper contact area appears as a mafic tuff? dark green, granular in appearance with amygdules to 3mm rounded of calcite carbonate. The centre of the unit is more massive with blades and minor rounded white flecks may be dolomitic									

Diamond Drill Log

Hole # EM99-3

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		carbonate. The end of the section contains lenticular (may be stretched amygdules) chlorite to 0.5cm by 0.2cm wide. Some bleaching has occurred in this section also. Sulfide content is low within section having large pyrite cubes and irregular patches of pyrrhotite, minor **chalcopyrite** - 94.2-94.5m. Sections are- 86.8-88.1m - tuff 88.1-94.5m- massive 94.5-96.0m - chlorite nodules (amygdules)									
96.0	101.8	Mafic Volcanic- Dacite -fine to medium grained, light to medium grey green, with minor quartz/carbonate fracture fillings. Sulfides are minor as pyrite cubes and minor disseminations. Pyrrhotite is in the end of the section 101.2-101.8m.									
101.8	115.3	Mafic Volcanic- Pillowed Basalt -fine grained, medium to dark green, chloritic with chlorite spots amygdules abundant locally. Pillow selvages are marked by dark green chlorite and pyrrhotite concentrations. The texture of the unit is variable from foliated to massive. Lower section of unit 113.2-115.3m contains 10% pyrrhotite and minor **chalcopyrite**. Local bleaching increases in this section with some feldspar porphyry band at 114.8-115.0m.	1725 1726	113.1 114.1	114.1 115.3	1.0 1.2	510 240	50 46	1 1	0.2 0.1	2 5
115.3	123.0	Mafic Volcanic- Flow Breccia -fine grained, dark green matrix hosting variably bleached fragments, dark green fragments to 5cm in size, pillow breccia?. Sulfides are nil. This section also contains feldspathic nodules to 1cm, and swirls. These are white to greenish in colour. The swirls appear to rap around fragments. The end of the section 122.2-123.0 may be the start of another mafic unit but not enough core to tell. The fragments bleach to pale translucent green.									
	123.0	End of Hole Acid Test 123.0m -64°									


Az. 150°
Patent 17405
EM99-03
575mE , 012mS
Az. 150° , Dip -67°
0
0
100S
000
Overburden
Felsic Volcanic – Porphyritic
Felsic Volcanic
Mafic Volcanic
Mafic Volcanic
Mafic Volcanic
Mafic Volcanic
Mafic Volcanic – pillowed
Mafic Volcanic–sediment
Mafic Volcanic
Mafic Volcanic
Felsic Tuff(Sediment)
Felsic Tuff(Sediment)
Mafic Volcanic
Mafic volcanic – Dacite
-100
-100
Mafic Volcanic – Pillowed
Mafic Volcanic–Flow breccia
123.00 m.
EM99-03
000
-200
100S
1232448 Ontario Inc.
Exploration
Timmins, ONTARIO
AUMO PROPERTY
DENTON TOWNSHIP
SECTION 575 E
DDH EM99-03
Assay Cu, Zn ppm
TRACED:
DATE:
NTS: 42-A/05
PROJECT: AUMO
DRAWN: del DRAFTING
DATE: 28/04/99
MAP No:
FILE: EM9903SN
SUPERVISED: R Calhoun
DATE: 23/04/99
SCALE 1: 1000 (metres)
REVISED:
DATE:
0 20 40 60 80 100

DIAMOND DRILL CORE LOG-SUMMARY SHEET

Project: AUMO Denton Township
Date: March 10-12, 1999
Logged by: Robert Calhoun
Drilling Co: Colbert Drilling

DDH: EM99-4

Claim Number: Patent # 11153

COLLAR LOCATION: L090E/275S

SURVEYS: Acid Test

	Depth	Azimuth	Dip
Setup:	0.0m	120°	-45°
	93.0m		-39°

TIMMINS COORDINATES

Northing: 275S
Easting 090E
Elevation: 0.0 meters
TD: 93.0 meters

GRID COORDINATES

DRILLING DATES
Started: March 10, 1999
Finished: March 12, 1999

DIAMOND DRILL SUMMARY LOG

Project: AUMO Denton Township
Date: March 10, 1999
Logged By: R. Calhoun

DDH: EM99-4

GEOLOGIC SUMMARY

FROM	TO	DESCRIPTION	INTERVAL			SIGNIFICANT ASSAY AVERAGES				
(m)	(m)		From (m)	To (m)	Width (m)	Cu ppm	Zn ppm	Pb ppm	Ag g/t	Au ppb
0.0	5.0	Overburden								
5.0	20.4	Mafic Volcanic								
20.4	29.9	Mafic Volcanic								
29.9	34.6	Mafic Volcanic								
34.6	37.8	Mafic Volcanic/Silica/Magnetite								
37.8	41.3	Dacitic Volcanics								
41.3	43.9	Tuff/Sediments								
43.9	45.5	Dacitic Flow								
45.5	46.9	Graphitic Argillite/Tuff								
46.9	50.95	Tuff								
50.95	56.2	Mafic to Intermediate Volcanic								
56.2	57.1	Tuff								
57.1	58.0	Graphitic Argillite/Sulfides								
58.0	75.4	Intermediate Volcanics								
75.4	82.5	Feldspar Porphyry								
82.5	89.0	Intermediate Volcanic								
89.0	93.0	Porphyry								
93.0		End of Hole								

COMMENTS

Diamond Drill Log

Property: AUMO Denton Township
Hole Number: EM99-4
Claim Number: Patent # 11153

Location: L090E/275S
Final Depth: 93.0 meters
Logged By: Robert Calhoun

Azimuth: 120°
Dates Drilled: March 10-12, 1999
Drilled By: Colbert Drilling

Dip: -45°
Dates Logged: March 10-13, 1999
Signature:

			Assays								
From	To	Description	Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
0	5.0	Overburden									
5.0	20.4	Mafic Volcanic -fine to locally medium grained, medium to dark green, chloritic, green, possibly pillowed mafic volcanic. Bleached, altered patches are frequent light grey green. Sulfides of pyrite/pyrrhotite are minor to very locally 1 to 2%. Unit becomes weakly foliated towards the end of section, 53° to core axis. Unit is generally weakly siliceous to moderately siliceous over 1-2 meters. Carbonate veining/nodules, 5% 16.6-18.0 -fine to medium grained, light green grey felsic volcanic, 1-3% pyrite, pyrrhotite									
20.4	29.9	Mafic Volcanic -fine to medium grained, medium to dark green, chloritic, massive in appearance with only minor fractures and minor carbonate veining. Basalt Fe tholeiitic.									
29.9	34.6	Mafic Volcanic -medium grained, dark green probably pillow Fe tholeiitic basalt. The selvages in this section are marked by increased chlorite -dark green and by the presence of pyrrhotite, minor pyrite and magnetite. Minor chalcopyrite blebs occur with some pyrrhotite sections.	1727 1728	32.0 33.6	33.0 34.6	1.0 1.0	320 91	69 77	1 1	0.2 0.1	3 nil
34.6	37.8	Mafic Tuff/ Silica/Magnetite -fine grained, dark green mafic tuff/sediment layered with magnetite in layers up to 3cm at 66° to core axis. Silica									

Diamond Drill Log

Hole # EM99-4

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		is as white to greyish quartz veins and whitish chert layers. Pyrrhotite is the most abundant sulfide in this section and pyrite forms as cubes and minor laminae. Minor chalcopyrite as grains and small clusters.	1729	34.6	35.6	1.0	143	85	1	0.1	7
			1730	35.6	36.6	1.0	144	84	1	0.1	2
			1731	36.6	37.2	0.6	13	41	1	0.1	12
			1732	37.2	37.8	0.6	152	45	1	0.2	14
		36.6-37.2 -felsic tuff-1-5% po/py									
37.8	41.3	Dacitic Volcanics -medium grained, light to medium green grey, massive nearly featureless volcanic. Sulfides are nil to minor. Lower contact 71° to core axis.									
41.3	43.9	Tuff/Sediment -fine grained, light to medium grey to dark green chloritic. The beginning and end of the section is felsic tuff, laminated with pyrrhotite/pyrite and minor chalcopyrite. Brownish staining suggests the section contains fine sphalerite. (41.3-42.2; 43.2-43.9)	1736	41.3	42.2	0.9	208	453	1	0.3	7
			1737	42.2	43.2	1.0	153	210	1	0.2	38
			1738	43.2	43.9	0.7	953	4540	2	1.5	22
		Laminations 67° to core axis.									
		42.2-43.2 -dark green, fine grained, chloritic tuff. This section contains bands of massive magnetite to 3cm wide and pyrrhotite. Chalcopyrite is minor.									
43.9	45.5	Dacitic Flow (?) -fine grained, light grey, massive flow with minor carbonate veining. The unit contacts are 70° to core axis.									
45.5	46.9	Graphitic Argillite/ Tuff -fine grained, dark grey to black graphitic argillite with 40cm of dark grey tuff at upper contact. The section contains pyrrhotite and pyrite totaling 8-15% locally as fine laminae, discontinuous veinlets and disseminations. Sphalerite occurs as disseminated grains, fine laminae and clusters of grains, 1-2% sphalerite. Chalcopyrite occurs as grains or clusters with some pyrrhotite <1%.	1739	45.5	46.9	1.4	1090	8960	16	2.4	29
46.9	50.95	Tuff -fine grained, light to medium grey green, sericitic, foliated tuff hosting pyrrhotite 3-5%, pyrite 1-3% and variable chalcopyrite and sphalerite. Foliations 70° to core axis.									
		46.9-47.4 -25-30% pyrrhotite, pyrite 3-5%,									

Diamond Drill Log

Hole # EM99-4

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		sphalerite as large blobs to clusters 3-5%, chalcopyrite 1-2% as veins and large blobs/clusters section has chert veining and quartz veins medium grey.	1740	46.9	47.4	0.5	1230	7160	1	1.3	21
		47.4-50.2 -tuff with laminae of pyrrhotite pyrite,	1741	47.4	48.7	1.5	115	109	2	0.2	5
		minor chalcopyrite, nil to trace sphalerite.	1742	48.7	50.2	1.5	297	420	25	0.7	151
		-49.8-50.2 -feldspar porphyry-medium grey, fine grained, with white feldspar phenocrysts to 4mm.									
		50.2-50.95 -fine grained dark green chloritic with magnetite veins and pyrrhotite/pyrite as massive vein 6cm and mixed vein massive pyrrhotite with large pyrite nodules.	1743	50.2	50.95	0.75	422	97	1	0.4	38
50.95	56.2	Mafic to Intermediate Volcanic -fine grained, light to medium grey green, massive to weakly foliated. Carbonate veining as small veinlets, locally associated with white quartz veins to 2cm wide. Sulfide mineralization is nil to trace.									
56.2	57.1	Tuff -fine grained, light to medium grey green sericitic tuff hosting 20% pyrrhotite/pyrite with chalcopyrite <1% as grains to small clusters. One quartz vein 56.45-56.8-white to greyish with 2-5% pyrrhotite pyrite.	1744	56.2	57.1	0.9	245	173	4	0.7	14
57.1	58.0	Graphitic Argillite/Sulfides -fine grained, black graphitic argillite with 10-15% pyrrhotite/pyrite with minor sphalerite/chalcopyrite. Section begins with 10cm massive pyrrhotite pyrite vein.	1745	57.1	58.0	0.9	254	976	40	1.8	147
58.0	75.4	Intermediate Volcanics									
		-fine grained, light to locally medium grey green, varies	1746	65.6	66.6	1.0	144	36	1	0.4	14
		from thinly laminated to generally massive.	1747	70.7	71.4	0.7	215	114	103	0.3	192
		Laminations/foliations are in sericitized sections, with pale green sericite. Sulfides are mainly restricted to these sections. Pyrrhotite to pyrite 1-3% with local <10cm semi-massive sections. Upper part of the unit contains dark grey to black spots which are chlorite, minor quartz eyes and weakly stretched on the foliation 74° to core axis. Sulfide sections are 65.6-66.6; 70.7-71.4									
75.4	82.5	Feldspar Porphyry									

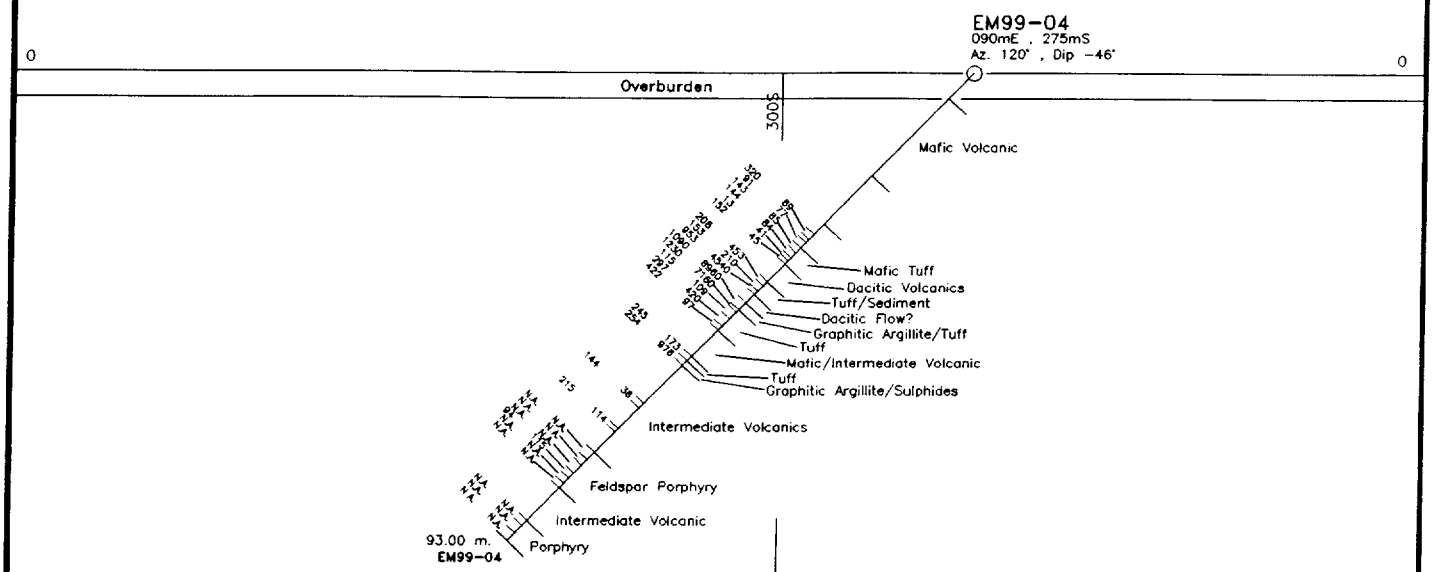
Diamond Drill Log

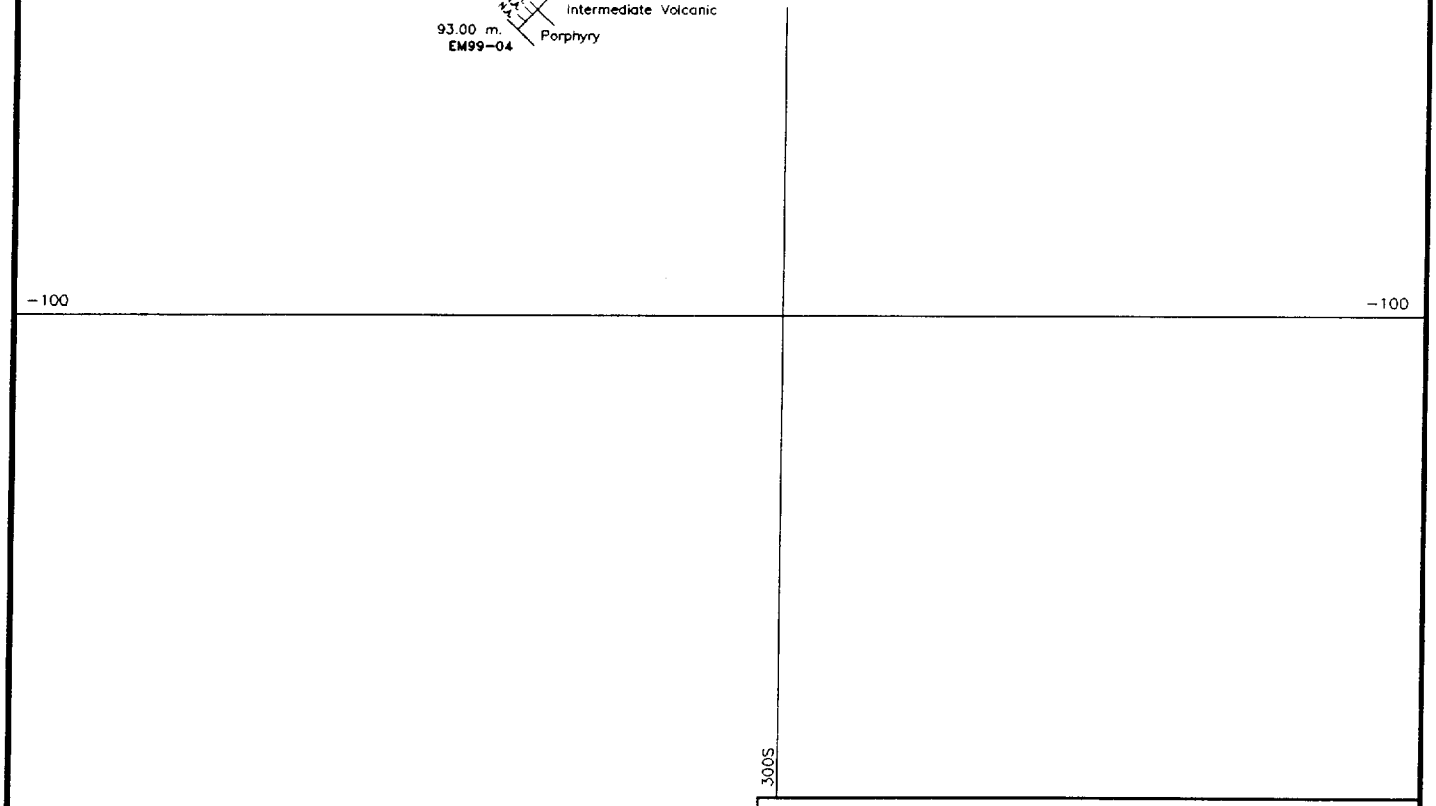
Hole # EM99-4

From	To	Description	Sample #	From	To	Length (meter)	Assays Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		-fine grained, medium grey weakly sericitic matrix with	1771	75.4	76.9	1.5	-	-	-	-	3
		up to 60% white sub angular feldspar phenocrysts to	1772	76.9	78.0	1.1	-	-	-	-	39
		4mm. The feldspars occasionally have dark centres or	1773	78.0	79.6	0.6	-	-	-	-	2
		are greenish in colour (saussauritized). Upper contact	1748	79.6	80.6	1.0	94	115	310	7.4	307
		55° to core axis.									
		One section at 80m contains pyrite as large grains	1774	80.6	81.6	1.0	-	-	-	-	12
		with minor blades of arsenopyrite in a sheared section	1775	81.6	82.5	0.9	-	-	-	-	10
		of the porphyry.									
82.5	89.0	Intermediate Volcanic									
		-as above									
89.0	93.0	Porphyry	1776	89.0	90.0	1.0	-	-	-	-	9
		-as above; phenocrysts are <50% less saussauritized	1777	90.0	91.5	1.5	-	-	-	-	5
		phenocryst's.	1778	91.5	93.0	1.5	-	-	-	-	nil
	93.0	End Of Hole									
		Acid Test									
		93.0m -39°									

Az. 120°

Patent 11153





1232448 Ontario Inc.

Exploration Timmins, ONTARIO

AUMO PROPERTY

DENTON TOWNSHIP

SECTION 090 E

DDH EM99-04

Assay Cu, Zn ppm

TRACED:	DATE:	NTS: 42-A/05	PROJECT: AUMO
DRAWN: del DRAFTING	DATE: 27/04/99	MAP No:	FILE: EM9904SN
SUPERVISED: R Calhoun	DATE: 23/04/99	SCALE 1: 1000 (metres)	
REVISED:	DATE:	0 20 40 60 80 100	

DIAMOND DRILL CORE LOG-SUMMARY SHEET

Project: AUMO Denton Township
Date: March 21-24, 1999
Logged by: Robert Calhoun
Drilling Co: Colbert Drilling

DDH: EM99-5

050

Claim Number: Patent # 11153

COLLAR LOCATION: L065E/300S

SURVEYS: Acid Test

	Depth	Azimuth	Dip
Setup:	0.0	120°	-70°
	99.0		-65°

TIMMINS COORDINATES

Northing:
Easting
Elevation: 0.0 meters
TD: 99.0 meters

GRID COORDINATES

300S
065E

DRILLING DATES
Started: March 21, 1999
Finished: March 24, 1999

DIAMOND DRILL SUMMARY LOG

Project: AUMO Denton Township
Date: March 21, 1999
Logged By: R. Calhoun

DDH: EM99-5

GEOLOGIC SUMMARY

FROM	TO	DESCRIPTION	INTERVAL			SIGNIFICANT ASSAY AVERAGES				
(m)	(m)		From (m)	To (m)	Width (m)	Cu ppm	Zn ppm	Pb ppm	Ag g/t	Au ppb
0.0	5.4	Overburden								
5.4	10.3	Mafic Volcanic								
10.3	13.4	Quartz Vein								
13.4	17.2	Mafic Volcanic								
17.2	31.8	Mafic Volcanic								
31.8	40.3	Intermediate to Felsic Volcanic								
40.3	41.9	Chloritic Magnetite Tuff								
41.9	50.4	Intermediate to Mafic (Dacitic) Volcanic								
50.4	51.3	Chloritic Silica Rich Tuff								
51.3	53.4	Cherty Fragmental								
53.4	55.0	Cherty Fragmental to Tuff/Sulfides								
55.0	60.4	Mafic to Intermediate volcanic								
60.4	62.3	Foliated Intermediate Volcanic								
62.3	68.4	Intermediate Volcanic								
68.4	70.9	Laminated Tuff/Sulfides								
70.9	75.8	Intermediate Tuff								
75.8	83.1	Feldspar Porphyry/Tuff								
83.1	92.1	Intermediate to Felsic Volcanic								
92.1	96.1	Felsic Volcanic								
96.1	99.0	Mafic Volcanic								
99.0		End of Hole								

Diamond Drill Log

Property: AUMO Denton Township
Hole Number: EM99-5
Claim Number: Patent # 11153

Location: L065E/300S
Final Depth: 99.0 meters
Logged By: Robert Calhoun

Azimuth: 120°
Dates Drilled: March 21-24, 1999
Drilled By: Colbert Drilling

Dip: -70°
Dates Logged: March 21-25, 1999
Signature:

From	To	Description	Sample #	From	To	Length (meter)	Assays Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
0	5.4	Overburden									
5.4	10.3	Mafic Volcanic -fine grained, medium to dark green chloritic, soft, calcitic volcanic. The unit is highly crushed locally to broken. This section contains calcite in the matrix and as small veinlets. Quartz veins are up to 5ocm in width (1) and generally are less than 15cm. The veins occur in crushed sections but the trend appears to be 25° to core axis. The quartz is white to greyish with chlorite on fractures. Limonite staining is common in the unit. (Some lost core)	1749 1750	6.4 7.9	6.9 8.5	0.5 0.6	- -	- -	- -	- -	2 nil
10.3	13.4	Quartz vein -this vein is white to greyish with colouration probably due to chlorite/tourmaline and possible molybdenum (?). The upper and lower contacts are crushed to broken so a trend angle can not be determined. Muscovite occurs locally in fractures yellow to clear. The vein is locally very vuggy with limonite remaining (sulfides). Black to brown tourmaline occurs as patches. Sulfides are minor but vugged areas are assumed to have been sulfides locally. Minor calcite occurs in some fractures. 10.3-12.0-generally white quartz with limonite stained fractures and inclusions of mafic material; fairly solid vein. 12.0-13.4 -tourmaline section, multiple vugged areas, fairly solid with muscovite and dark grey discolouration	1751 1752 1753 1754	10.3 10.9 12.0 12.7	10.9 12.0 12.7 13.4	0.6 1.1 0.7 0.7	- - - -	- - - -	- - - -	- - - -	2 3 nil nil

Diamond Drill Log

Hole # EM99-5

From	To	Description	Assays								
			Sample #	From	To	Length (meter)	Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		(molybdenite??)									
13.4	17.2	Mafic Volcanic -fine to medium grained, dark green, soft with abundant fracturing local crushing. Quartz veining is minor as 1-2cm veins 80° and 60° to core axis. Limonite staining is common.									
17.2	31.8	Mafic Volcanic -fine grained, medium to dark green, soft to moderately hard. Carbonated (calcite) matrix is common and calcite also occurs as small veinlets 3mm to <1cm occasionally associated with white quartz (minor component). Calcite can occur as nodules which appear elongated on the foliation, probably amygdules. The foliation is at 29° to core axis as is the lower contact. Sulfides are nil to trace. Except for one veined area at 26m which has pyrite cubes in a carbonate vein (1cm)									
31.8	40.3	Intermediate to Felsic Volcanic -fine to medium grained, medium grey to grey green foliated to laminated tuff. This section has variable texture including layers of porphyritic tuff with white feldspars sub-angular to sub rounded. The foliation is at 38° to core axis. Pyrrhotite ± chalcopyrite occurs as laminae on the foliation especially from 37.0 to 37.9m and at the lower contact 39.4 -40.3m.	1755 1756 1757 1758	36.0 37.0 37.9 39.4	37.0 37.9 39.4 40.3	1.0 0.9 1.5 0.9	51 894 71 250	54 84 55 65	1 1 1 1	0.1 1.3 0.1 0.2	nil nil nil nil
40.3	41.9	Chloritic Magnetite Tuff -fine grained dark green chloritized "mafic" tuff hosting magnetite layers <1cm and disseminations clusters and veinlets of pyrrhotite. Layering in this section is at 39° to core axis.	1759	40.3	41.9	1.6	152	94	1	0.1	9
41.9	50.4	Intermediate to Mafic (Dacitic) Volcanic -fine to medium grained, light to medium green grey carbonated (calcite) volcanic generally featureless to foliated over <1m sections. Calcite becomes more abundant as distinct veins downhole with veins reaching 2cm in size commonly associated with white									

Diamond Drill Log

Hole # EM99-5

From	To	Description	Sample #	From	To	Length (meter)	Assays Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		quartz veins to 5-8cm. Lower contact and foliations are at 34° to core axis. Sulfides are minor.									
50.4	51.3	Chloritic Silica Rich Tuff -fine grained, dark green chloritic tuff hosting magnetite pyrrhotite and minor chalcopyrite. The section also contains variably altered "fragments" of cherty material. Pyrrhotite occurs as disseminations and veinlets especially at lower contact.	1760	50.4	51.3	0.9	254	132	1	0.1	nil
51.3	53.4	Cherty Fragmental (Tuff) -fine grained, light green sericitic matrix supporting fragments of cherty tuff/chert. The fragments are up to 4cm long and 1cm wide angular. Sulfides are nil to trace.	1761 1762	51.3 52.3	52.3 53.4	1.0 1.1	22 71	69 54	1 1	0.1 0.1	2 nil
53.4	55.0	Cherty Fragmental to Tuff/Sulfides -fine grained, medium to dark green grey tuffaceous matrix with cherty fragments. This section has chlorite and 15-25% pyrrhotite with blebs and splashes of chalcopyrite. Chalcopyrite <1%.	1763 1764	53.4 54.1	54.1 55.0	0.7 0.9	405 360	183 258	1 1	0.2 0.4	122 33
55.0	60.4	Mafic to Intermediate Volcanic -fine to medium grained, light to medium green to green grey, locally chloritic. Upper contact area foliated 37° to core axis. Small calcite veinlets, minor quartz. Sulfides are nil to trace.									
60.4	62.3	Foliated Intermediate Volcanic -fine grained, light (pale) green to light grey laminations. The unit is thinly laminated to moderately laminated. Sulfides of pyrrhotite as veinlets to disseminations and pyrite as laminae and 4mm cubes occur throughout the unit. Chalcopyrite and sphalerite are minor.	1765 1766	60.4 61.3	61.3 62.3	0.9 1.0	142 466	76 246	1 31	0.1 1.7	5 36
62.3	68.4	Intermediate Volcanic -fine grained to locally medium grained, light to medium green becoming increasingly grey green down unit. The unit is spotted with probable chlorite spots weakly elongated on foliation trend.									

Diamond Drill Log

Hole # EM99-5

From	To	Description	Sample #	From	To	Length (meter)	Assays Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
		One veined area 65.70 to 65.85 (15cm) contains pyrite grained to small cubes in a calcite/quartz vein. Black tourmaline is also present in abundance. Pyrrhotite pyrite can also occur in blebs or clusters minor.									
68.4	70.9	Laminated Tuff/Sulfides -fine grained, light green to dark chloritic green laminations with 20% pyrrhotite overall, with semi-massive to massive veins up to 30cm wide. Chalcopyrite <1% occurs throughout while sphalerite minor grains occur in a quartz vein at 69.1-69.4m.	1767 1768 1769 1770	68.4 68.9 69.4 70.2	68.9 69.4 70.2 70.9	0.5 0.5 0.8 0.7	187 358 150 559	70 43 100 330	1 1 1 45	0.4 0.9 0.5 2.1	nil 31 10 nil
70.9	75.8	Intermediate Tuff -fine grained to medium grained in areas of porphyritic tuff. This section has sericite increasing down section to making the core translucent at 75.0-75.8m. Sulfides are minor to trace.									
75.8	83.1	Feldspar Porphyry/Tuff -fine to medium grained, medium grey matrix hosting white to pale greenish feldspars to 4mm sub-rounded to angular. The porphyry alternates with fine to medium grained tuff forming generally sharp contacts at 46° to core axis. Sulfides are minor as fine disseminations of pyrite.	1779 1780 1781 1782 1783	76.97 78.0 79.5 81.0 82.0	78.0 79.5 81.0 82.0 83.1	1.1 1.5 1.5 1.0 1.1	- - - - -	- - - - -	- - - - -	- - - - -	nil 3 5 3 2
83.1	92.1	Intermediate to Felsic Volcanic -fine to locally medium grained, variable colouration from light green to dark green, with layers of pale beige to grey. The unit contains generally minor sulfides of pyrrhotite, pyrite as disseminations. The pyrite locally is as 5mm cubes. Chalcopyrite was noted with one cluster of pyrrhotite. 84.6-85.8 -sericitic tuff section with pale green, beige layering, 1-3%. Sulfides as pyrrhotite clusters and pyrite cubes.	1784 1785	83.1 84.6	84.6 85.8	1.5 1.2	60 102	61 18	1 1	0.1 0.1	nil 7

Diamond Drill Log

Hole # EM99-5

From	To	Description	Sample #	From	To	Length (meter)	Assays Cu ppm	Zn ppm	Pb ppm	Ag g/ton	Au ppb
92.1	96.1	Felsic Volcanic -medium grained, grey green, sericitic with silica feldspars matrix minor. Sulfides of pyrite, disseminations and minor pyrrhotite clusters. The unit is weakly foliated with sericite in the foliation.	1786 1787 1788	92.1 93.5 95.0	93.5 95.0 96.1	1.4 1.5 1.1	52 54 68	16 15 11	1 1 1	0.3 0.2 0.2	27 29 39
96.1	99.0	Mafic Volcanic -fine grained, dark green, calcitic matrix with small veinlets of calcite with quartz. Unit has dark chloritic spots (vesicles). Sulfides are nil to trace. Contact area is foliated to 96.8 at 55°									
	99.0	End Of Hole									
		Acid Test									
		99m -65°									

Az. 120°

Patent 11153

EM99-05
065mE , 300mS
Az. 120° , Dip -70°

0

0

Overburden

N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A.

Mafic Volcanic

Quartz Vein

Mafic Volcanic

51.0 69.0 71.0 250.0 152.0 54.0 84.0 38.0 65.0 94.0

Intermediate/Felsic Volcanic

Chloritic Magnetite Tuff

264.0 22.0 71.0 436.0 380.0 132.0 58.0 54.0 183.0 256.0

Intermediate/Mafic(Dacitic)Volcanic

Chloritic Silica rich Tuff

Cherty Fragmental/Tuff

Cherty Fragmental/Tuff/Sulphides

142.0 486.0 78.0 246.0

Mafic/Intermediate Volcanic

Intermediate Volcanic Foliated

187.0 356.0 150.0 859.0 70.0 43.0 100.0 330.0

Intermediate Volcanic

Laminated Tuff/Sulphides

Intermediate Tuff

N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A. 90.0 102.0 61.0 18.0

Feldspar Porphyry/Tuff

Intermediate/Felsic Volcanic

92.0 54.0 68.0 16.0 18.0 11.0

Felsic Volcanic

Mafic Volcanic

99.00 m.
EM99-05

-100

-100

300S

-200

1232448 Ontario Inc.

Exploration Timmins, ONTARIO

AUMO PROPERTY

DENTON TOWNSHIP

SECTION 065 E

DDH EM99-05

Assay Cu, Zn ppm

TRACED:	DATE:	NTS: 42-A/05	PROJECT: AUMO
DRAWN: del DRAFTING	DATE: 27/04/99	MAP No:	FILE: EM9905SN
SUPERVISED: R Calhoun	DATE: 23/04/99	SCALE 1: 1000 (metres)	
REVISED:	DATE:	0 20 40 60 80 100	

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use): W0060.00353

Assessment Files Research Imaging

Per
info
sho

Ins 42A05SE2009 2.20574 DENTON 900

...ions 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, t... ...ork and correspond with the mining land holder. Questions about this collecti... ...ind Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

...ling a claim, use form 0240.

1. Recorded holder(s) (Attach a list if necessary)

Name: Explorers Alliance	Client Number: 230365
Address: 168 Algonquin Blvd East, Timmins Ontario P4N 1A9	Telephone Number: 705-267-3511
	Fax Number: 705-267-3121
Name	Client Number
Address	Telephone Number
	Fax Number

DENTON / CATSCAMON -

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☐ Geotechnical: prospecting, surveys, assays and work under section 18 (regs)

■ Physical: drilling stripping, trenching and associated assays

☐ Rehabilitation

Work Type: Diamond Drill.	Office Use
	Commodity
	Total $ Value of Work Claimed: $ 37,427
Dates Work Performed: From 28 (Day) 12 (Month) 1998 (Year) To 24 (Day) 03 (Month) 1999. (Year)	NTS Reference
Global Positioning System Data (if available) — Township/Area: Denton	Mining Division: Porcupine
M or G-Plan Number	Resident Geologist District

Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: Geocal Exploration	Telephone Number: 705-267-3511
Address: 168 Algonquin East Timmins	Fax Number: 267-3121
Name	Telephone Number
Address	Fax Number
	Telephone Number
Address	Fax Number

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SEP 05 2000
GEOSCIENCE ASSESSMENT OFFICE

4. Certification by Recorded Holder or Agent

I, Lionel Bolduc (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent		Date: Aug 30, 2000
Agent's Address: 168 Algonquin East Timmins	Telephone Number: 705-267-3511	Fax Number: 705 267-3121

0241 (03/97)

Deemed Nov. 29, 2000

RECEIVED
AUG 31 2000
3:55 p.m. Rec
PORCUPINE MINING DIVISION

land where work was performed, at the time work was performed. A map showing the contiguous link must accompany form.

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of w to be distributed at a future date
eg	TB 7827	16 ha	$26,825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8,892	$ 4,000	0	$4,892
1	P 11152	1	16569		3200	13369
2	P 11153	1	5739			5739
3	P 17405 [10749]	1	15119			15119
4	1207545	8		3200		
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
	Column Totals		37427	3200	3200	34227

I, Linda Balcombe (Print Full Name), do hereby certify that the above work credits are eligible un subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
	Aug 30, 2000

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish prioritize the deletion of credits:

- ■ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ■ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

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

r Office Use Only

celved Stamp

Deemed Approved Date	Date Notification Sent
*Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

(03/97)

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SEP 05 2000
GEOSCIENCE ASSESSMENT OFFICE

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AUG 31 2000
3:55pm.
PORCUPINE MINING DIVISION

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): 2.20060.00553

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
EM 98-1	255 metres	@ 34 m	8670
EM 98-2	194 metres	@ 34 m	6630
EM 98-3	123 metres	@ 34 m	4182
EM 98-4	93 metres	@ 34 m	3162
EM 98-5	99 metres	@ 34 m	3366
Geologist	15 DAYS	300/DAY	4500
Assays	90 34	@ 20. @ 12	1800 408
Associated Costs (e.g. supplies, mobilization and demobilization).			
	Floats.		560
	Casing + Shoes.		1701
Transportation Costs			
Food and Lodging Costs			
		8453.	34989
		GST.	2448
		Total Value of Assessment Work	37437

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SEP 05 2000
GEOSCIENCE ASSESSMENT OFFICE

If work is filed after two years and up to five years after performance, it can only be [illegible] Value of Assessment Work. If this situation applies to your claims, use the calculation below:

[illegible] ASSESSMENT WORK × 0.50 = [illegible] Total $ value of work

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Liina Balcome Jart, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Agent, I am authorized to make this certification.

(please print full name)

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

RECEIVED
DEC 01 2000
3:55 pm. Lee
PORCUPINE MINING DIVISION

Signature

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

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

Telephone: (888) 415-9845
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

October 2, 2000

Lionel Bonhomme
EXPLORERS ALLIANCE CORPORATION
168 ALGONQUIN BLVD. EAST
TIMMINS, ONTARIO
P4N-1A9

Dear Sir or Madam:

Submission Number: 2.20574

Subject: Transaction Number(s):		**Status**
	W0060.00353	Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact LUCILLE JEROME by e-mail at lucille.jerome@ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

Steven B. Beneteau

ORIGINAL SIGNED BY
Steve B. Beneteau
Acting Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 15284
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.20574

Date Correspondence Sent: October 02, 2000 **Assessor:** LUCILLE JEROME

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W0060.00353	11152	DENTON	Approval	October 02, 2000

Section:
16 Drilling PDRILL

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

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

Lionel Bonhomme
EXPLORERS ALLIANCE CORPORATION
TIMMINS, ONTARIO

1232448 ONTARIO INC.
TIMMINS, ON

JOHN PETER HUOT
TIMMINS, ONTARIO

Correspondence ID: 15284

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

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

	Description	Order No.	Date	Disposition	File
R1	SEC. 43/70		FEB 3/66	M. + S.	171506
R2	DANA AND JOWSEY PARK RESERVE SEC. 36/60 W.66/83		NOV. 10/83	S.R.O. M.R.O.	
R4	RESERVED FOR PUBLIC USE			S.R.O.	
R5	SURFACE RIGHTS ONLY WITHDRAWN FROM STAKING ORDER NO. NRW 84/84 DATED 84-JULY-06 (WASTE DISPOSAL SITE)				

SEC 35 O.P-3/99 JAN. 27/99 S&M 195150
SEC.35 O-P-4/99 Jan.27/99 S&M 195150

R6 Sec. 35 W - LL - C 1584/99 07/05/99 M+S

SAND AND GRAVEL

S1	M.T.C.	PIT 1417	FILE 12635I
S2	M.T.C.	PIT 1236	FILE 12636I
S3	M.T.C.	PIT 1470	
S4	M.T.C.	PIT 1331	

APPLICATION PENDING UNDER THE PUBLIC LANDS ACT
S1 NOTICE RECEIVED 92-DEC-21
SNOWMOBILE TRAILS

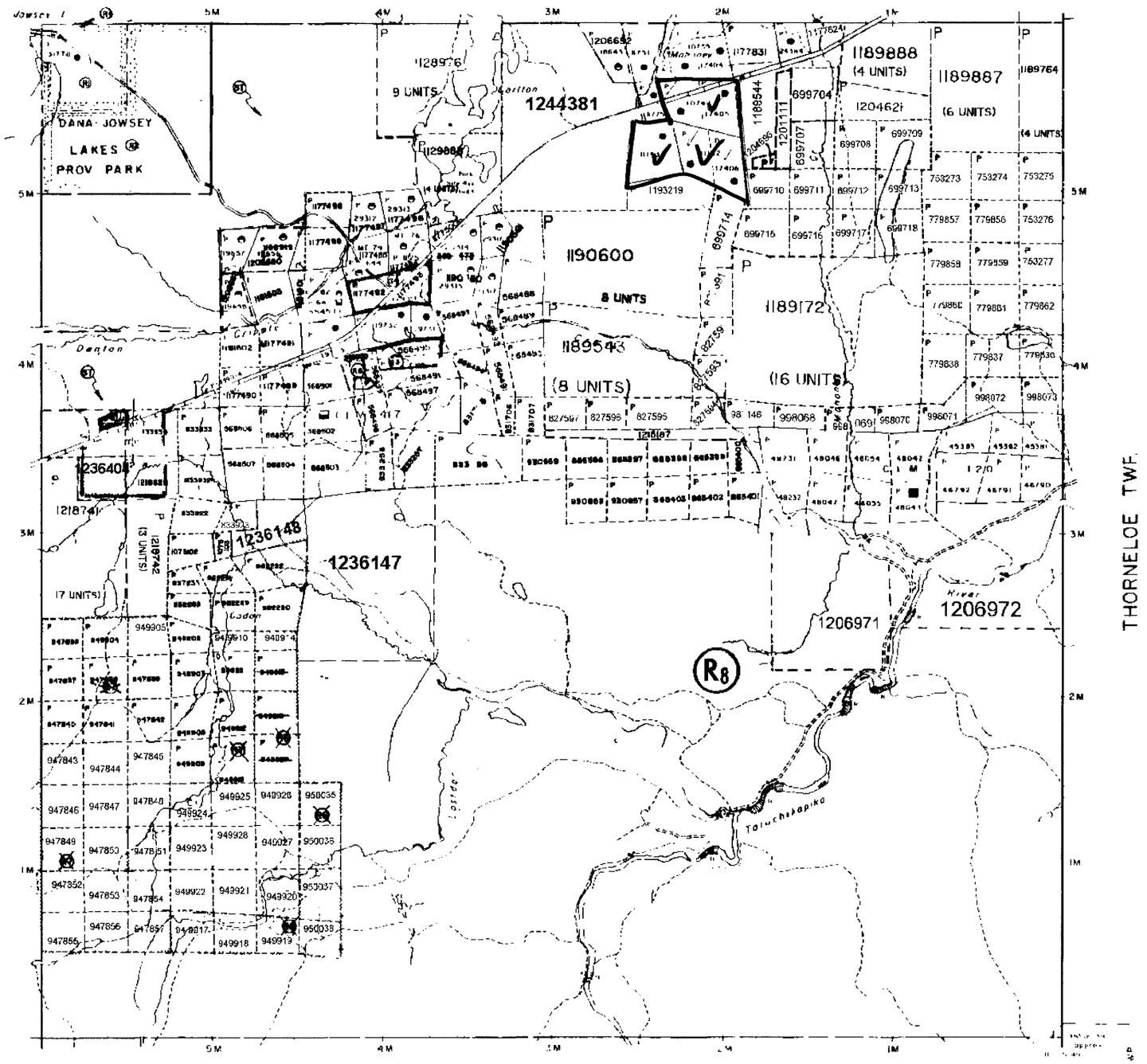
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

CARSCALLEN TWP.

KEEFER TWP.

THORNELOE TWP.

REYNOLDS 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	⊙

LAND USE PERMITS FOR COMMERCIAL TOURISM, OUTPOST CAMPS ✓

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 5, 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

1 0 1 2 3 4 5 MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 FEET
1 0 1 2 KILOMETRES

TOWNSHIP

DENTON

M N R ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

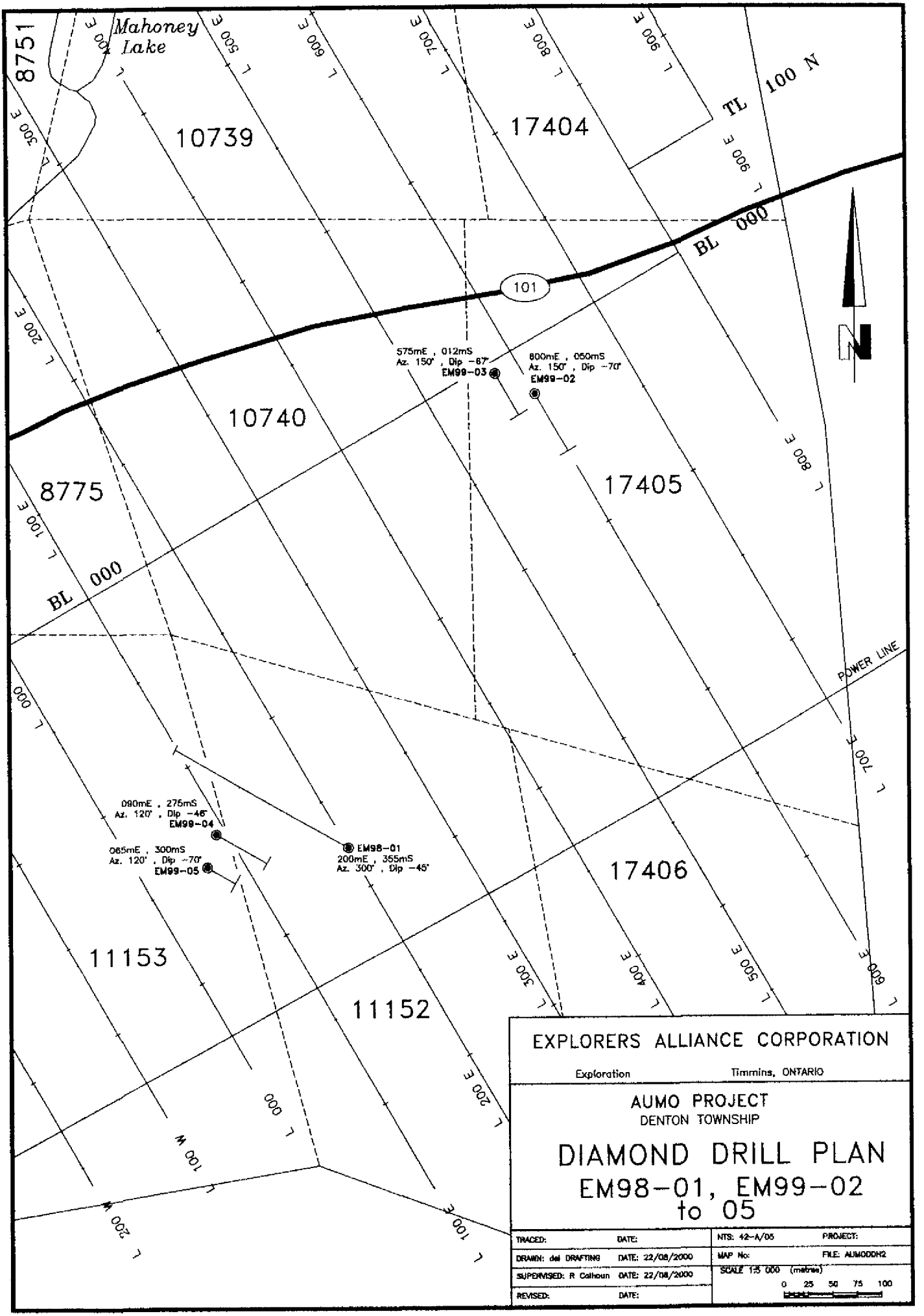
LAND TITLES / REGISTRY DIVISION

COCHRANE

Ministry of Natural Resources — Land Management Branch
Ontario

Date MARCH, 1999
ACTIVATED AUGUST 17, 1999
BY D.C.
CHECKED BY B.B.

Number G-3224



EXPLORERS ALLIANCE CORPORATION

Exploration Timmins, ONTARIO

AUMO PROJECT

DENTON TOWNSHIP

DIAMOND DRILL PLAN
EM98-01, EM99-02 to 05

TRACED:	DATE:	NTS: 42-A/05	PROJECT:
DRAWN: del DRAFTING	DATE: 22/08/2000	MAP No:	FILE: AUMODDH2
SUPERVISED: R Calhoun	DATE: 22/08/2000	SCALE 1:5 000 (metres)	0 25 50 75 100
REVISED:	DATE:		