



41P15NE8607 17 CAIRO

010

DIAMOND DRILLING

Township: CAIRO

Report No: 17

WORK PERFORMED FOR: FALCONBRIDGE LIMITED

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER []

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L843158	611-1-86	168.25 m	Mar/86	(1)
L802607 & L843158	611-2-86	170.08 m	Mar/86	(1)
	611-3-86	154.23 m	Mar/86	(1)
L843158	611-4-86	124.36 m	Mar/86	(1)
L843160	611-5-86	159.41 m	Apr/86	(1)
L821306	611-6-86	131.67 m	Apr/86	(1)
L802370	611-7-86	81.08 m	Apr/86	(1)
L802458	611-8-86	193.85 m	Apr/86	(1)
L843882	611-9-86	123.44 m	Apr/86	(1)
L802649	611-10-86	131.98 m	Apr/86	(1)
L778374 & L778375	611-11-86	200.86 m	Apr/86	(1)
L802648	611-12-86	127.70 m	Apr/86	(1)

NOTES: (1) # 268-86

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HOLE NO: 611-1-86 PAGE: 1-4

Drilled by: *Phillippen Diamond Drilling* Property: *Goldrunter*
 Started: *March 11/86* Township: *Cario Twp*
 Ended: *March 14/86* Logged by: *C.S. Bruce*

Latitude: *L119E* Longitude: *CORR.*
 Azimuth: *99 + 75N* Dip: *-50°*
 Elevation: *165°* Length: *168.25m 137.16m 43*

BQ

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (0.00)			
C	13.72m	Casing								
13.72m	14.2m	<u>Felsic to intermediate tuff</u> Fine grained matrix, pale grey green colour, with distinct feldspar and quartz phenocrysts, up to 2.5mm. Moderately hard, silicified with pervasive carbonate, <1% fine grained disseminated pyrite.	9301	13.72m	14.2m		20			
14.2m	19.87m	<u>Felsic Pyroclastic</u> Lapilli tuff, polyhedral, subangular to subrounded fragments, fragments 60° to core axis. Strongly silicified pale grey bleached fragments. Carbonate occurs as stringers and fracture filling, minor sulphides.	9302 9303 9304 9305	14.2m 15.7m 17.2m 18.7m	15.7m 17.2m 18.7m 19.87m		20 NIL NIL NIL			
19.87m	24.06m	<u>Intermediate Pyroclastic</u> Lapilli tuff, intermediate to mafic in composition, grey green colour. good distinct subangular to subrounded fragment, 50° to 60° to core axis. Strongly silicified, pervasive carbonate and carbonate filled fractures, minor sulphides.	9306 9307 9308	19.87m 21.37m 22.87m	21.37m 22.87m 24.06m		NIL NIL NIL			
24.06m	26.41m	<u>Felsic tuff</u> fine grained felsic tuff, pale grey, massive strongly silicified, hard, with carbonate, 1% fine grained pyrite.	9309 9310	24.06m 25.06m	25.06m 26.41m		20 20			

ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILES
 RESEARCH OFFICE
 AUG 13 1986
 RECEIVED

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HOLE NO: 611-1-86 PAGE: 2-4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (PP6)			
26.41m	41.33m	<u>Intermediate porphyritic</u> Same as above, as from 19.87m-24.06m minor amount of graphite in the matrix, fabric 50° to core axis, 5% thread, occasional carbonate veinlets, little or no sulphide.	9311 9312 9313 9314 9315 9316 9317 9318 9319 9320 9321	26.41 27.91 29.41 30.91 32.41 33.91 35.41 36.91 38.41 39.91 40.38	27.91 29.41 30.91 32.41 33.91 35.41 36.91 38.41 39.91 40.38 41.33		20 10 10 20 10 NIL 20 10 20 NIL 10			
41.33m	92.82m	<u>Diabase</u> Matachewan diabase, grey to greyish black, fine grained, good diabase texture, massive, upper contact 60° to core axis, lower contact 50° to core axis, very weakly magnetic in section. Minor graphite inclusions. 59.27m-59.68m; 60.16m-61.68m Graphite black, inclusion, includes distinct massive, lenticular fragments. 62.22m-62.65m 40% irregular quartz veinlets, barren.	9322 9323 9324	59.27m 60.16m 61.68m	59.68m 61.68m 62.65m		20 20 NIL			
92.82m	112.19m	<u>Graphitic Carbonaceous Sediment</u> Composed of interbedded graphite conglomerate and greywacke, Graphite jet black, in places schistose. Minor carbonate stringers, < 1% pyrite along bedding. Bedding at 65-75° to core axis. 92.82m-94.39m; 95.91-96.06m; 98.16m-98.46m Massive jet black graphite.	9325 9326 9327	92.82m 95.91m 98.16m	94.39m 96.07m 98.46m		10 30 30			

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HOLE NO: 611-1-86 PAGE: 3-4

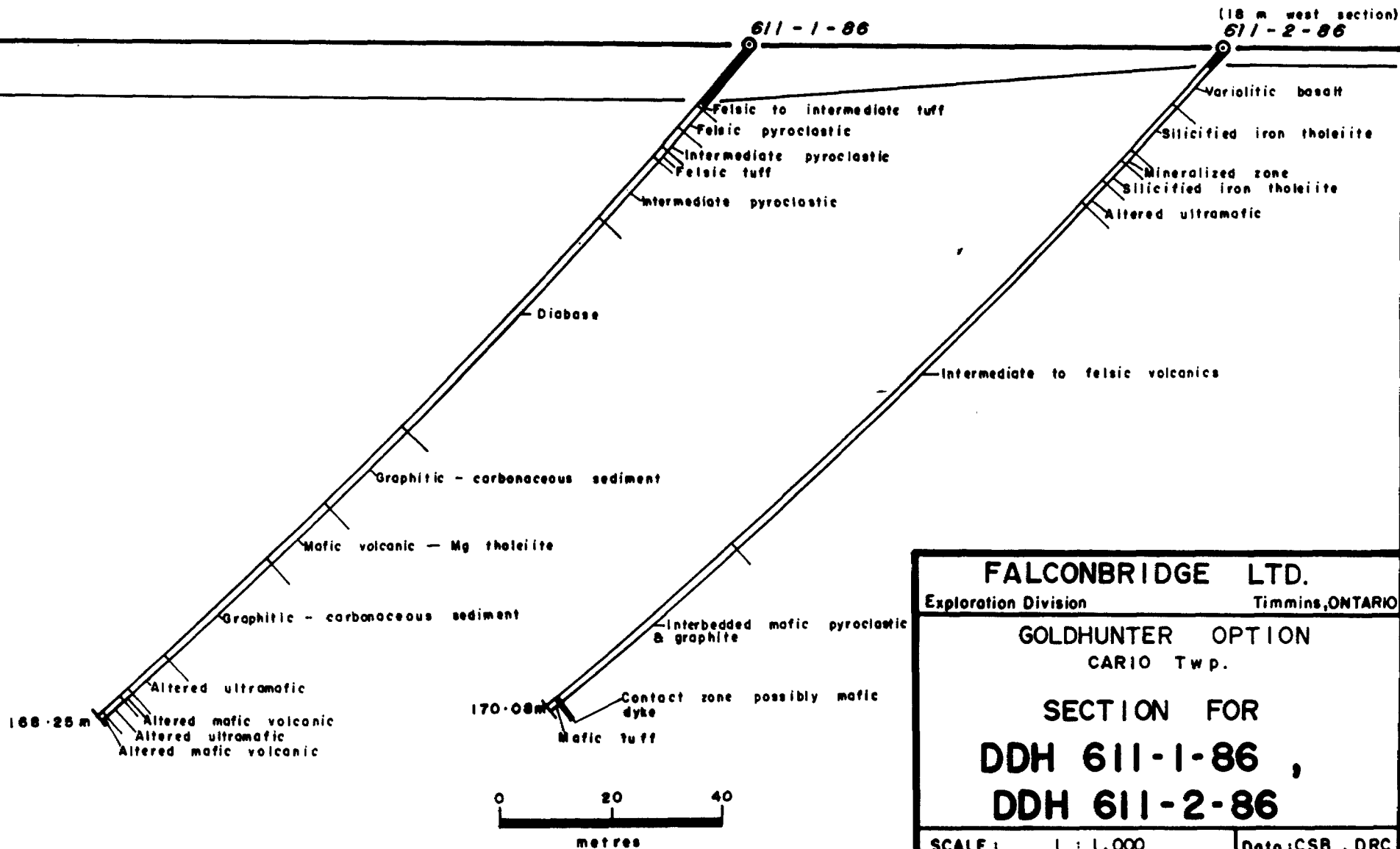
FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ODD)			
		98.46m - 99.67m Diabase dyke, grey to black, massive, fine grained.								
		99.67m - 103.23m 40% massive, jet black graphite.	9328	99.67m	101.17m		20			
			9329	101.17m	102.67m		NIL			
			9330	102.67m	103.32m		10			
		103.23m - 109.43m Distinct mafic volcanic fragments lapilli size subangular, grey mafic fragments up to 30% fabric to core axis	9331	103.32m	104.82m		10			
			9332	104.82m	106.32m		20			
			9333	106.32m	107.82m		20			
			9334	107.82m	109.43m		NIL			
		109.43m - 112.19m Massive jet black graphite	9335	109.43m	110.93m		10			
			9336	110.93m	112.19m		10			
112.19m	126.9m	<u>Mafic Volcanic. Mg Tholeiite</u> Tholeiite fine grained, pale grey green, chlorite, moderate sil. in part, massive, 10% quartz carbonate filled fractures 2-10mm at 50° to core axis. Little or no sulphides	9337	112.19m	113.69m		NIL			
			9338	113.69m	115.19m		NIL			
			9339	115.19m	116.69m		10			
			9340	116.69m	117.22m		10			
			9341	117.22m	117.9m		20			
		117.22m - 117.9m graphite interflow sediment massive, jet black graphite.	9342	117.9m	119.4m		10			
			9343	119.4m	120.9m		20			
			9344	120.9m	122.4m		NIL			
			9345	122.4m	123.9m		NIL			
126.9m	152.01m	<u>Graphitic Carbonaceous sediment</u> Graphitic interflow sediment, same as above as from 92.82m - 112.19m, somewhat disrupted, soft sediment deformation, part. breccias 35° to core axis. Former amounts of py. pa over all 50% interbedded graphite	9346	123.9m	125.4m		10			
			9347	125.4m	126.9m		NIL			
			9348	126.9m	127.6m		20			
			9349	127.6m	129.1m		NIL			
			9350	129.1m	130.6m		NIL			
		128.42m - 132.60m, 140.07 - 145.07m Distinct mafic volcanic fragments, lapilli size subangular	9351	130.6m	132.1m		10			
			9352	132.1m	132.6m		NIL			
			9353	132.6m	134.1m		NIL			
			9354	134.1m	135.6m		20			

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HOLE NO: 6117-86 PAGE: 44

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU (DIB)			
			9355	135.6m	137.1m		20			
			9356	137.1m	137.99m		NIL			
			9357	137.99m	138.77m		NIL			
			9358	138.77m	140.09m		NIL			
			9359	140.09m	141.59m		NIL			
			9360	141.59m	143.09m		NIL			
			9361	143.09m	144.59m		NIL			
		145.09 - 146.27 Amphibole. 2% epidote, pyrrhotite	9362	144.59m	145.09m		NIL			
		146.27 - 152.01 fabric 35° to core axis	9363	145.09m	146.27m		NIL			
		disrupted, soft sediment deformation	9364	146.27m	147.77m		NIL			
			9365	147.77m	149.27m		10			
			9366	149.27m	150.77m		NIL			
			9367	150.77m	152.01m		NIL			
152.01m	161.0m	Altered ultramafic								
		Altered soft waxy, talc, blue green colour, little or no sulphides, 5% carbonates filled fractures.								
161.0m	163.05m	Altered Mafic Volcanic								
		Pale green colour, chlorite, possible buff, massive pervasive carbonate 10% quartz veins 70° to core axis little or no sulphides.	7368	161.0m	162.5m		NIL			
			7369	162.5m	163.05m		NIL			
163.05m	167.31m	Altered ultramafic								
		Same as above as from 152.01m - 161.0m								
167.31	168.25	Altered Mafic Volcanic								
		Same as above, as from 161. - 163.05m	9370	167.31	168.25		NIL			
168.25		End of Hole								
		Remnant Crising Pulled.								

165° ←



FALCONBRIDGE LTD.

Exploration Division

Timmins, ONTARIO

GOLDHUNTER OPTION

CARIO Twp.

SECTION FOR

DDH 611-1-86 ,

DDH 611-2-86

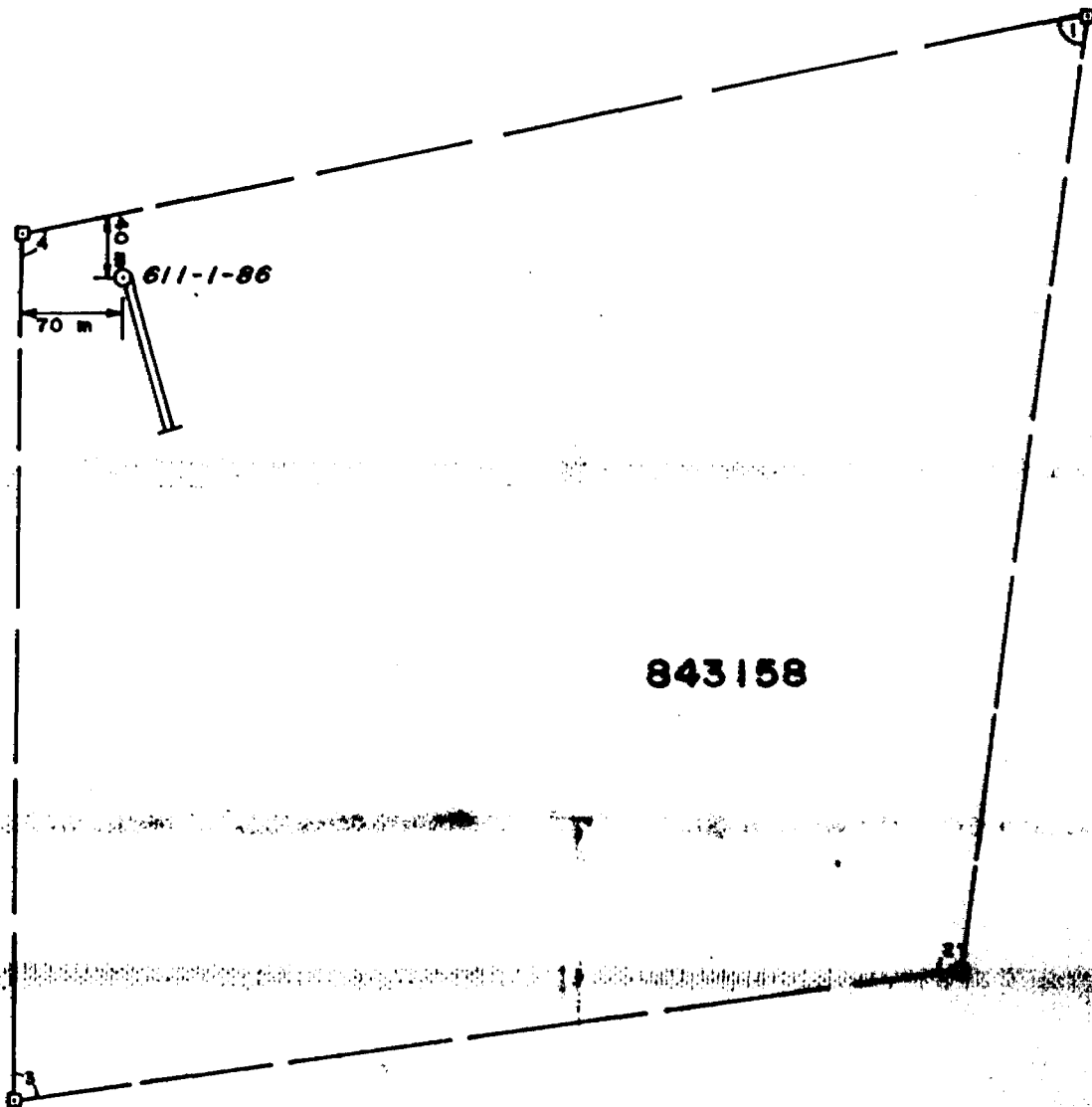
SCALE: 1 : 1,000

Date: CSB, DRC

Drawn: DEL

Project N°: 611

Date: 03/07/86



843158

611-1-86

70 m



FALCONER ESTIMATION DIVISION GOLDENHORN OFFICE CARLO TWP.	
DRILL PLAN DDH 611-1-86	
SCALE: 1" = 5,000'	Date: DC
Drawn: DEL	Project #: 611 Date: 04/08/86

Falconbridge Ltd.

HOLE NO: 611-2-86 PAGE: 1-7

Drilled by: Philippon - Diamond - Drilling Inc Property: Goldhunter 611

Started: March 14/86

Ended: March 17/86

Township: Cairo Twp

Logged by: C.S. Bruce / D.R. Crysi

BQ.

Latitude: 44° 118 + 73 E
Longitude: 41.40 m 43°
Azimuth: 100 + 62 N
Elevation: 170.08 m

Longitude: 6.1 m 47°
Dip: -50°
Length: 170.08 m

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
0	4.27m	Casing								
4.27	13.97m	<u>Variolitic Basalt</u> Dark green colour. Very fine grained to aphanitic. Strongly silicified, altered, epidotized. Minor quartz-carbonate filled fractures.								
		11.18 - 13.97 m Hematite stained along fractures.	9371	11.18	12.68	1.5m	Nil			
			9372	12.68	13.97	1.29m	Nil			
13.97	24.94m	<u>Silicified Iron Tholeiite</u> Dark grey-green colour. Fine grained to aphanitic. Strongly silicified. Minor amount of pyrite.								
		17.15 - 17.52 m Mineralized with 5-8% fine grained pyrite. Irregular grey quartz veinlets, brecciated.	9373	13.97	15.47	1.5m	Nil			
		17.52 - 20.36m Dark grey-green colour. Silicified	9374	15.47	17.15	1.68m	Nil			
		20.36 - 20.49m Quartz-carbonate veins. Gossan stained, chloritic, pyrite near the margins.	9375	17.15	18.65	1.5m	1723			
			9376	18.65	20.36	1.71m	20			
			9377	20.36	20.49	0.13m	30			
		20.49 - 22.44m Dark grey-green. Silicified, with the odd carbonate filled fracture.	9378	20.49	21.49	1.0m	20			
			9379	21.49	22.44	0.95m	Nil			

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HOLE NO: 611-2-86 PAGE: 2-7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Ass (ppt)			
24.94	27.41m	22.44 - 22.87m Altered, brecciated, mineralized. Quartz 20%, Fine grained pyrite 3-5%, with bleached buff coloured felsic fragments.	9380	22.44	22.87	0.43m	385			
		22.87 - 24.94m Black, brecciated, silicified. 5-10% carbonate and pink potash filled thready fractures.	9381	22.87	23.77	0.9m	Nil			
			9382	23.77	24.94	1.17m	Nil			
		<u>Mineralized Zone</u> Brecciated felsic fragmental. Mixed buff to grey coloured fragments. Pyroclastic, altered, strongly silicified. Brecciated fragment, 3-8% fine grained pyrite. Fragments are oriented at 60° to the core axis.								
27.41	32.61m	24.94 - 25.8m 3% pyrite	9383	24.94	25.8	0.86m	70			
		25.8 - 27.41m 8% pyrite	9384	25.8	27.0	1.2m	640			
			9385	27.0	27.41	0.41m	715			
		<u>Silicified Iron Tholeiite</u> Dark green-grey colour. Fine grained to aphanitic. Strongly silicified. Little or no sulphides.								
		28.4 - 29.0m Brecciated quartz, chlorite carbonate vein. Barren.	9386	27.41	28.4		20			
			9387	28.4	29.0		Nil			

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HOLE NO: 611-2-86 PAGE: 3-7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
		29.0 - 30.8m Dark green colour, with the odd quartz-carbonate filled fracture.	4388	29.0	30.0	1.0m	10			
			4389	30.0	30.8	0.8m	Nil			
		30.8 - 31.4m Distinct felsic, stretched, fragments.	4340	30.8	31.49	0.69m	Nil			
			4391	31.49	32.61	1.12m	Nil			
		31.4 - 32.61m Dark green. Possible mafic tuff. Feldspar phenocrysts?								
32.61	38.1m	<u>Altered ultramafic</u> Grey blue colour. Altered, soft, talc. Little or no sulphides.								
38.1	125.97m	<u>Intermediate to felsic volcanics</u> Pale to steel grey colour. Predominantly pyroclastic, the fragments appear to be paler grey and more siliceous than the groundmass. Polyhedral, the fragments being subangular to subrounded. The fragments are aligned at 50 to 60° to the core axis. Strongly, pervasively silicified. Carbonate occurs as stringers and fracture fillings. 46.63 - 46.9 Strongly silicified contact zone.								

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HOLE NO: 611-2-86 PAGE: 4-7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
		46.9 - 47.04 m Quartz vein with carbonate and chlorite. No sulphides.	9392	46.9	47.04	0.14m	Nil			
		47.04 - 47.85m Strongly silicified, bleached contact zone.								
		51.0 - 51.05m Quartz vein								
		63.69 - 64.9m Porphyry, feldspar phenocrysts up to 1cm. Preferred orientation of the chlorite laths (2mm) is at 55° to the core axis. Disseminated pyrite <1%.	9393	63.69	64.9	1.21m	Nil			
		105.46 - 107.22m More mafic section. Light green colour with mottled pink portions. Less silicified, softer, with more chlorite.	9513 9514 9515 9516	104.46 105.46 106.46 107.22	105.46 106.46 107.22 108.22	1.0m 1.0m 0.76m 1.0m	40 730 140 Nil			
		109.82 - 119.46m More massive section. Fragments are rarely observed, only as slight variation in the shade of grey.								
		114.19 - 114.4m Irregular carbonate vein at 10° to the core axis. The vein makes up about 25% of the section.								
		122.2 - 123.15 Felsic Tuff to porphyrite. Massive, pale grey silicified								

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HOLE NO: 611 - 2 - 86 PAGE: 5 - 7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
125.97	167.8m	finely disseminated pyrite, <1% 123.15 - 123.89m Shear zone at 60° to the core axis. Pale green to grey colour. 'Serpentinized', pervasive carbonate. Pyrite occurs as clots 1%. Possibly a sheared ultramafic 123.89 - 125.97m Felsic porphyry. Pale grey colour. Massive. Silicified. Finely disseminated pyrite <1%. <u>Interbedded mafic pyroclastic and Graphite</u> Polyolithic, clast supported. ^{The} Clasts are subangular to subrounded. The matrix is largely graphite: clasts 85% matrix 15%. The fragments range in size from <2mm to 8cm and are aligned at 65° to the core axis. Carbonate occurs as fracture fillings. Pyrite is distributed usually within the graphite, <1%.	9394	122.2	123.15	0.95m	Nil			
			9395	123.15	123.89	0.74m	Nil			
			9396	123.89	124.89	1.0m	10			
			9397	124.89	125.97	1.08m	Nil			

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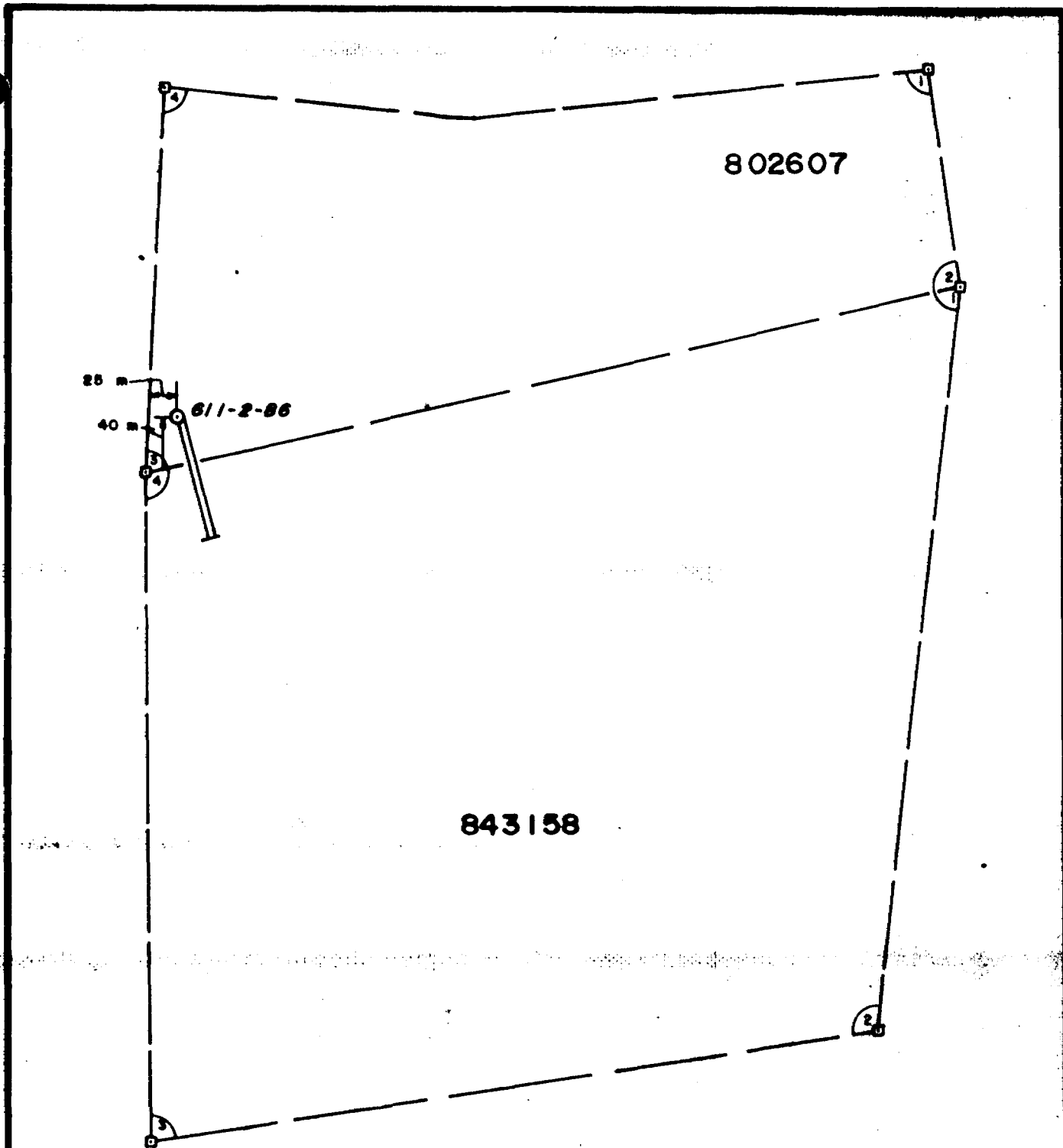
HOLE NO: 611-2-86 PAGE: 6-7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
		138.5 - 138.71m Graphite, black, at 65° to the core axis. Fine pyrite along seams	9398	138.5	138.71	0.21m	25			
		140.16 - 142.94m Graphite, disrupted, includes mafic fragments.	9399	140.16	141.96	1.8m	Nil			
			9390	141.96	142.94	0.98m	Nil			
		148.03 - 148.84m Graphite, black, at 55° to the core axis								
		149.5 - 149.9m Graphite, banded, black to grey (carbonate) colour.	9401	148.03	149.9	1.87m	Nil			
		151.6 - 151.9m Quartz - carbonate vein, barren. At 10-15° to the core axis. Composed of 50% vein material.	9402	151.6	151.9	0.3m	Nil			
		161.62 - 162.52m Graphite, black, banded. Includes mafic fragments, and minor pyrite along fractures. Banded at 65° to the core axis.	9403	161.62	162.52	0.9m	Nil			
		165.62 - 165.72 Carbonate vein at 40° to the core axis								
167.8	168.15m	<u>Contact Zone - possibly Mafic Dyke.</u> Fine grained, non-magnetic. Upper contact at 45°, and the lower contact at 35° to the core axis.								

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HOLE NO: 611-2-86 PAGE: 7-7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	As (1/20)			
168.15	170.08m	<p><u>Mafic Tuff</u></p> <p>Light green colour. Lamination/lamination at 60-70° to the core axis. Silicified, especially from 167.2 - 169.3m and 169.78 - 169.86m, where many quartz veinlets occur. Chlorite and epidote altered. Narrow section (<1cm) of graphite.</p>								
170.08m		End of Hole								



843158

802607

611-2-86

25 m

40 m



FALCONBRIDGE LTD.	
Exploration Division	
GOLDWATER OPTION	
CARIO Twp.	
DRILL PLAN	
DDH 611-2-86	
SCALE: 1 : 5,000	Date: _____
Drawn: DEL	Project N°: 611

Falconbridge Ltd.

HOLE NO: 611 - 3 - 86 PAGE: 1 - 5

Drilled by: Philippon-Diamond-Drilling Inc Property: Goldhunter 611
 Started: March 18/86 Township: Cairo Twp.
 Ended: March 20/86 Logged by: D.R. Craig

Latitude: Grid L 123 E Longitude: 2.44m 50°
 Azimuth: Location 100 + 50 N Dip: -50° 45.72m 50°
 Élévation: Length: 154.23m 91.44m 49°
 137.16m 48°

B.R.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Area (sq ft)			
0	2.44m	Casing								
2.44	7.92m	<u>Diorite</u> Dark black and green colour. Medium grained, massive with a vague 'salt and pepper' texture. Strongly magnetic, with disseminated py ≤ 1% and minor magnetite. Epidote (plus minor carbonate) along fractures at 60° to Core Axis. 4.93 - 4.96 Irregular quartz vein, smoky grey, unmineralized.								
7.92	17.52m	<u>Intermediate flow - andesite</u> Grey-green to purplish colour, fine grained with inter laminations of black cherty iron formation. Silicified, strongly carbonated, magnetic and disseminated py 1%.								
17.52	25.83m	<u>Ultramafic</u> Altered ultramafic, dark grey-green colour, medium grained and soft. Core is talcose, and carbonate + talc along shears and fractures. Magnetic. Upper contact earthy, sheared.								

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HOLE NO: 611-3-86 PAGE: 2-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
25.83	48.9m	<p><u>Basaltic Komatite</u> Dark grey to greenish colour. Fine grained, massive. Fractured throughout the section, with quartz plus green carbonate. Lamination at $\sim 60^\circ$ to core axis. Magnetic and trace sulphides.</p> <p>46.2 - 48.9 Talcose contact zone, carbonated. Highly fractured at 45° to C.A.</p>								
48.9	69.62m	<p><u>Intermediate to felsic Pyroclastic</u> Grey to light green colour. Well developed texture defined by colour variation and elongated subangular fragments at 50° to core axis. Carbonate throughout, especially between fragments. Irregular ^{through} quartz-carbonate veins containing minor disseminated py.</p> <p>66.56 - 67.16 Felsic tuff, Dacitic Pale tan to pink colour. Fine grained with quartz eyes and veinlets. Quartz eyes composed of glassy shards (to $\sim 1\text{mm}$) defining a lamination at 45° to core axis. A trace amount of very fine disseminate sulphides.</p>	9404	66.56	67.16	.6m	15			

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HOLE NO: 611-3-86 PAGE: 3-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
69.62	71.02m	<u>Rhyolite</u> Steel grey colour, becoming pinkish toward the end of the section. Fine grained, ^{granitic} massive. Possibly tuffaceous, with vague lamination at 45° to the core axis. Silicified and carbonated. Disseminated py 1-2%.	9405	69.62	70.62	1.0m	Nil			
			9406	70.62	71.02	0.4m	10			
71.02	78.7m	<u>Ultramafic + Graphite</u> The ultramafic is dark green-black colour with white carbonate along shears and fractures. Very soft, sheared, talcose and carbonated. Sections appear brecciated (tectonic?) 75.43 - 77.24 Graphite Black colour, composed of interbedded carbonate, chert, and graphite. Sections with interbedded elliptical py. blebs. 'Brecciated' sections consisting of angular graphite fragments in carbonate-quartz matrix.	9407	75.43	76.43	1.0m	20			
			9408	76.43	77.24	0.81m	10			
78.7	128.5m	<u>Intermediate to felsic Pyroclastic</u> Colour generally pale grey-green. Fine grained, fragments observed of up to 5cm and elongated at 35 to 45° to the core axis. Silicified and carbonated. Irregular thready py carbonate veins.								

Falconbridge Ltd.

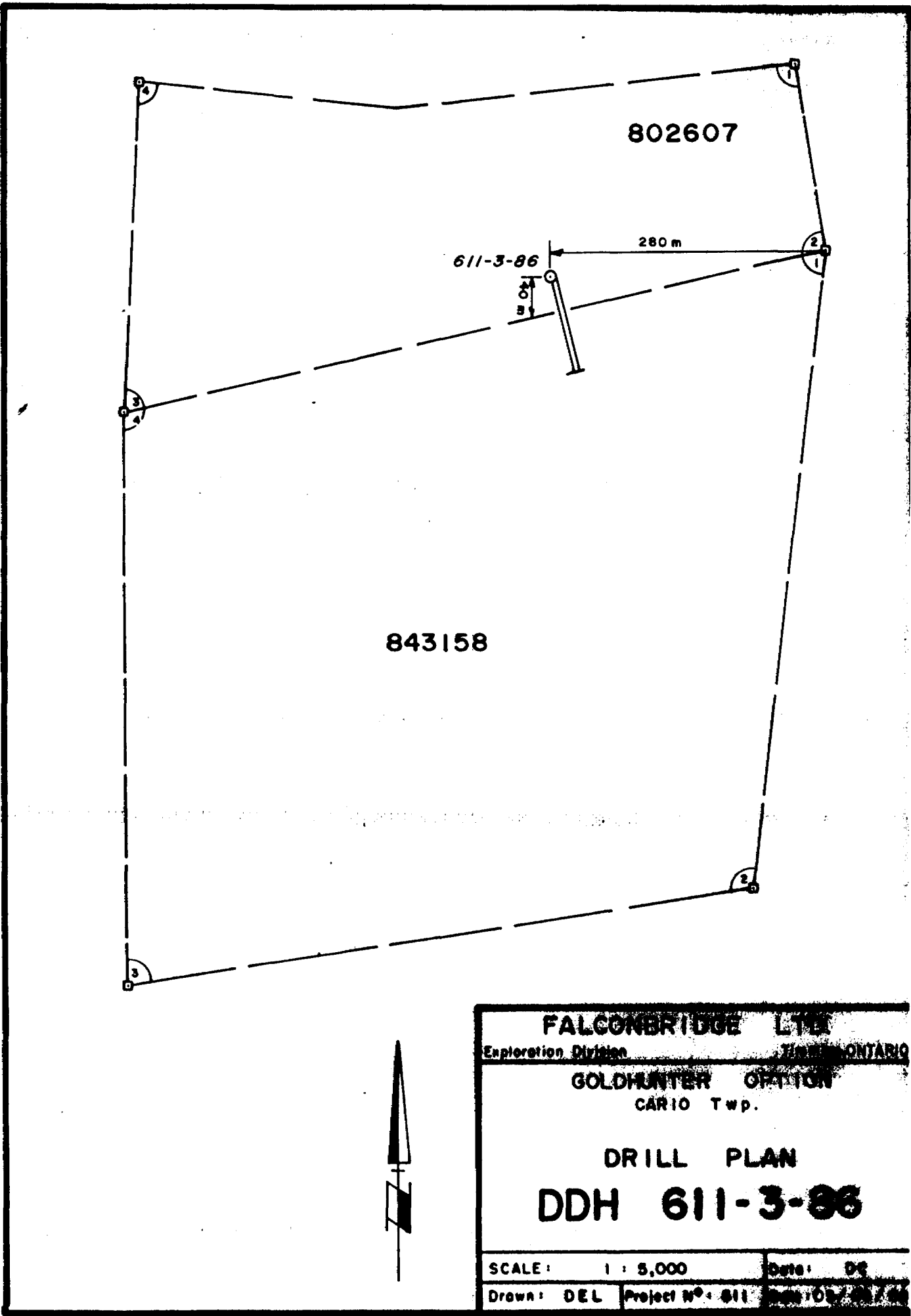
HOLE NO: 611-3-86 PAGE: 4-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
		81.82 - 83.74 Graphitic section interbedded with the volcanics. Black to dark grey colour. Minor py.	9409	81.82	82.82	1.0m	20			
			9410	82.82	83.74	0.92m	20			
		105.16 - 105.42 Coarse grained quartz vein with subangular volcanic fragments as inclusions. Vein material 60%.								
		115.6 - 117.3 More mafic section, medium grained tuffaceous and slightly magnetic.								
		117.3 - 118.1 Graphitic section consisting of graphite, chert, and carbonate. The bedding is slightly disrupted but generally at 25° to core axis. Interbedded py. ≤ 1%.	9411	117.3	118.1	0.8m	20			
128.5	143.56m	<u>Carbonated Mafic Flow</u> Banded dark green, grey, to grey-white at 20° to 25° to core axis. Core is approximated 60% dark/40% light. The dark bands are composed of chlorite and talc; the white bands composed of quartz and carbonate. The white bands are broken into lenses. Milky white quartz veinlets cross-cut the unit.	9412	128.5	130.0	1.5m	21			
			9413	130.0	131.5	1.5m	20			
			9414	131.5	133.0	1.5m	20			
			9415	133.0	134.5	1.5m	21			
			9416	134.5	136.0	1.5m	21			
			9417	136.0	137.5	1.5m	21			
			9418	137.5	139.0	1.5m	21			
			9419	139.0	140.5	1.5m	21			
			9420	140.5	142.0	1.5m	21			
			9421	142.0	143.56	1.56m	21			

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HOLE NO: 611-3-86 PAGE: 5-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
143.56	154.23m	<p><u>Mafic tuff</u> Dark green to grey colour. Fine to medium grained and continues to be well banded at 30° to core axis. Gradual transition from previous unit to ~ 148.44 m. Considerably less carbonate, quartz-carbonate bands in lenses.</p>								
154.23m		End of Hole.								



802607

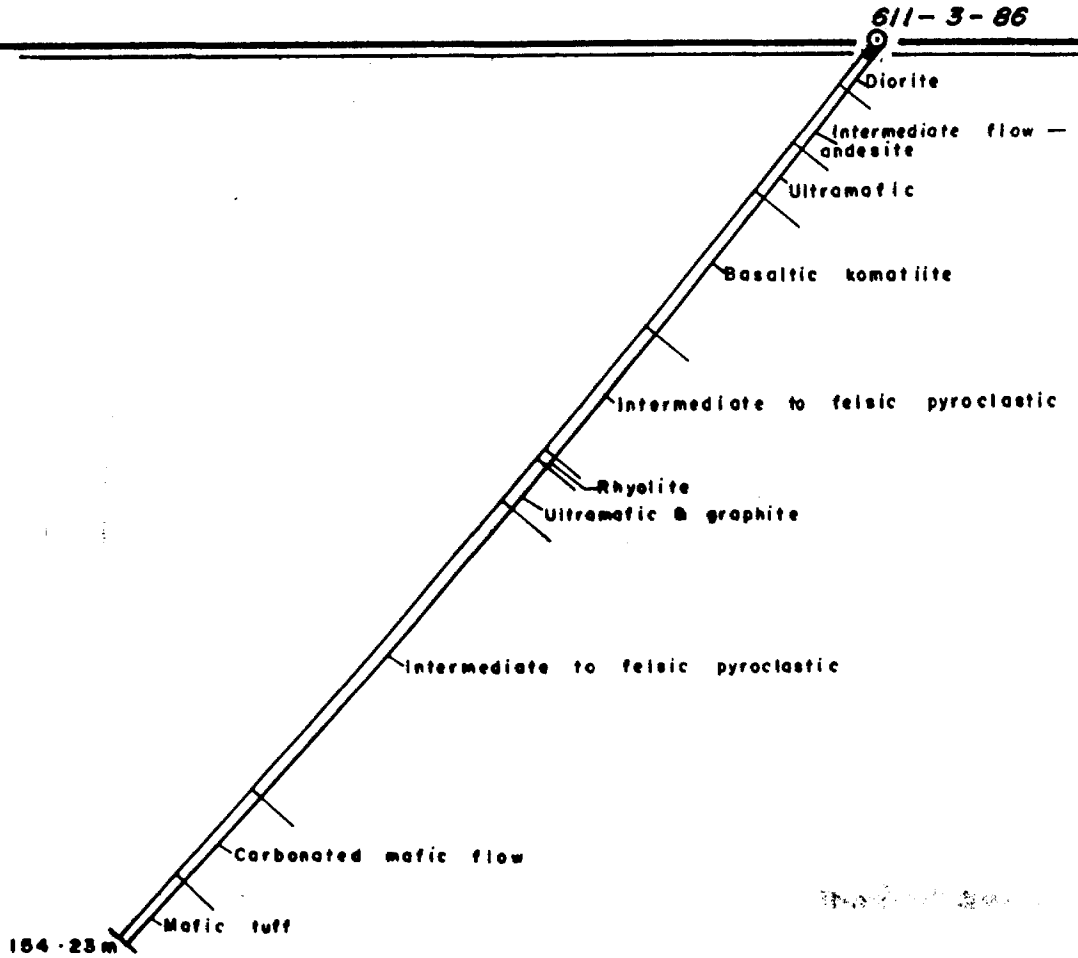
611-3-86

280 m

843158

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Exploration Division	THUNDERBOLT ONTARIO
GOLDHUNTER OPERATION	
CARIO Twp.	
DRILL PLAN	
DDH 611-3-86	
SCALE: 1 : 5,000	Date: 05
Drawn: DEL	Project N°: 611

167°



FALCONBRIDGE LTD.		
Exploration Division	Timmins, ONTARIO	
GOLDHUNTER OPTION CARIO Twp.		
SECTION FOR DDH 611-3-86		
SCALE: 1 : 1,000	Data: CBB, DRC	
Drawn: DEL	Project No: 611	Date: 02/09/86

Falconbridge Ltd.

HOLE NO: 611-4-86 PAGE: 1-4

Drilled by: Philippon - Diamond Drilling Inc. Property: Goldhunter 611
 Started: March 21/86 Township: Cairo
 Ended: March 23/86 Logged by: D.R. Cruij

Latitude: Grid L123 E Longitude:
 Location 97 + 50 N Dip: -50°
 Elevation: Length: 124.36m

BQ.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Ass (pph)			
0	3.05m	Casing								
3.05	67.91m	<p><u>Mafic to Intermediate Volcanics - Andesite</u> Grey-green colour. Alternating: pyroclastic, with elongated fragments up to 2cm at 50° to core axis; tuffaceous; and fine to medium grained massive sections. Minor carbonate interstitially in the pyroclastic, silicification increasing down section. Irregular pink to white quartz veins and epidote/carbonate veinlets at 60° to core axis. Disseminated py up to 1%.</p> <p>12.9 - 13.1m Rusty section, pink quartz eyes and disseminated cubic pyrite 1-2%.</p> <p>53.64 - 55.35m Komatiite? pyroxene Dark green colour, massive coarse grained. Acicular crystal, remnant pyroxene?</p>								
			9422	61.91	63.41	1.5m	Nil			
			9423	63.41	64.91	1.5m	Nil			
			9424	64.91	66.41	1.5m	Nil			
			9425	66.41	67.91	1.5m	Nil			

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HOLE NO: 611-4-86 PAGE: 2-4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	As (pts)			
67.91	68.48m	<u>Felsic volcanic</u> Buff grey colour. Fine grained well laminated at 80 to 90° to Core axis. The contacts are strongly silicified. Sericitized with interlaminated pyrite to 30%.	9426	67.91	68.48m	0.57m	Nil			
68.48	73.15m	<u>Silicified mafic to intermediate pyroclastic</u> Pale grey to green colour. Well developed lamination/fabric at 60° to core axis. Fragments appear as buff coloured and sub rounded. Intitial material possibly tuffaceous. Pyrite is finely disseminated and as inter-laminations from 1-2%. 71.4 - 71.57 m Quartz veined. Composed of pale grey core surrounded by coarse grained buff colour quartz & carbonate. The veins compose 60% of the section and trend at 60° to the Core axis.	9427 9428 9429 9430 9431	68.48 69.48 70.48 71.48 72.48	69.48m 70.48 71.48 72.48 73.15m	1.0m 1.0m 1.0m 1.0m 0.67m	Nil Nil Nil Nil Nil			
73.15	79.87m	<u>Diorite (Diabase?)</u> Grey colour, salt and pepper. Massive medium grained. Both the upper and lower contacts are finer grained (chill margin?)								

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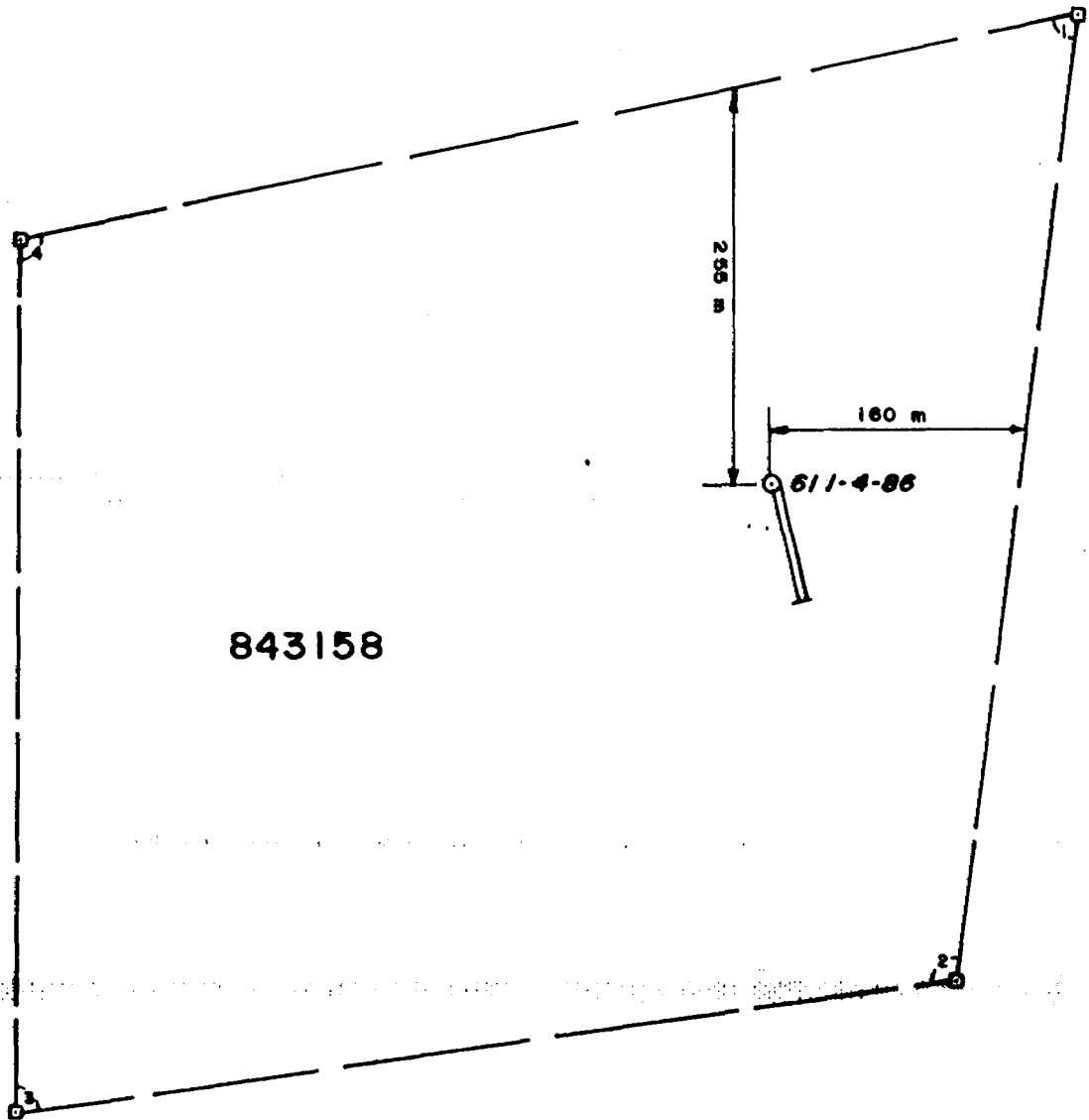
HOLE NO: 611-4-86 PAGE: 3-4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Ass (ppm)			
79.87	124.36m	<u>Mafic to intermediate volcanics</u> Dark green to grey colour. Texture varies from pyroclastic to fine grained tuffaceous (tuffwacke) to massive. Similar to above 3.05 to 67.91m. Lamination defined by fragment elongation at from 50° to 90° to core axis. Section is silicified. Carbonated, especially along seams and laminations. Minor irregular quartz masses and veins.	9432	79.87	81.37	1.5m	Nil			
			9433	81.37	82.87	1.5m	10			
			9434	82.87	84.37	1.5m	10			
			9435	84.37	85.87	1.5m	10			
			9436	85.87	87.37	1.5m	Nil			
			9437	87.37	88.87	1.5m	Nil			
			9438	88.87	90.37	1.5m	Nil			
			9439	90.37	91.44	1.07m	Nil			
		91.44 - 91.80m Tallose, carbonate section with fragments of chloritic material.								
		99.93 - 100.31m Mixed graphite, chert, mafic volcanics Dark grey colour, laminated at 60° to core axis. Coarse pyrite 1-2% especially at the contacts.	9440	98.93	99.93	1.0m	Nil			
			9441	99.93	100.31	1.0m	Nil			
			9442	100.31	101.31	1.0m	Nil			
		106.64 - 107.93m Felsic porphyry white to pink anhedral zoned feldspar in a dark grey aphanitic groundmass. Contacts at ~90° to core axis. Minor disseminated pyrite ≤ 1%.								

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HOLE NO: 611-4-86 PAGE: 4-9

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
			9443	116.04	117.04	1.0m	10			
			9444	117.04	118.54	1.5m	10			
			9445	118.54	119.54	1.0m	10			
		119.38 - 119.45m Quartz vein. Dark grey colour, minor coarse pyrite and chloritic inclusions. The vein consists of 90% quartz and trends at 40° to the core axis.								
124.36m		End of Hole								



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Exploration Division	Timmins, ONTARIO
GOLDHUNTER OPTION	
CARIO Twp.	
DRILL PLAN	
DDH 611-4-86	
SCALE: 1 : 5,000	Date: DC
Drawn: DEL	Project N°: 611

167°



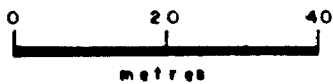
611-4-86

Mafic to intermediate volcanic - andesite

Felsic volcanic
Silicified mafic to intermediate pyroclastic
Diorite (diabase?)

Mafic to intermediate volcanics

124.36 m



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Exploration Division

Timmins, ONTARIO

GOLDHUNTER OPTION
CARIO Twp.

SECTION FOR

DDH 611-4-86

SCALE: 1 : 1,000

Date: CSB, DRC

Drawn: DEL

Project N°: 611

Date: 02/07/86

Falconbridge Ltd.

HOLE NO: 611-5-86

PAGE: 1-5

Drilled by: Phillipon-Diamond-Drilling-Inc.
 Started: March 25/86
 Ended: March 27/86

Property: Goldhunter 611
 Township: Cairo Twp
 Logged by: D.R. Cruji

Latitude: Grid
 Location
 Azimuth:
 Élévation:

L 114 E
 94 + 67 N

Longitude:
 Dip: -50°
 Length: 159.41m

B.Q.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
0	2.44m	Casing								
2.44	27.88m	<u>Tuffwacke</u> Grey-green colour. Well developed lamination at 65° to core axis. The unit is composed of tuffwacke with narrow sections of argillite, greywacke and graphite. Abundant carbonate; pervasive, inter laminated and thready cross-cutting veinlets. The unit is chlorite with pyrite occurring along fractures <1%.								
27.88	33.48m	<u>Mafic Flow, tholeiitic</u> Dark green in colour. Fine to medium grained with a lamination defined by the alignment of chlorite laths at 75° to core axis. Carbonate common from 30.58 - 33.48m, minor elsewhere.								
		30.1 - 30.58m Graphitic. Black to dark grey colour. Well laminated at 60° to core axis, carbonate pervasive, minor chert and py and po (+ magnetite) as inter laminations of up to 1%.	9446	30.1	30.58	.48	Nil			

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HOLE NO: 611-5-86 PAGE: 2-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Ass (ppm)			
33.48	106.43 m	<u>Inter flow sediment</u> The unit is composed of mixed sections of argillite, greywacke, tuff, and graphite. The whole unit is carbonate and variably siliceous. The unit becomes more volcanic below 84m.								
		33.48 - 35.12 m Graphite + Chert + Carbonate Black colour with white carbonate threads. Well laminated at 65° to the core axis. Minor pyrite interlamination < 1%.	9447 9448	33.48 34.48	34.48 35.12	1.0 m 0.64 m	Nil Nil			
		35.12 - 49.99 m Argillite + Greywacke + I. Formation + Tuff. Light grey to green colour. Well laminated at 70° to core axis, but often deformed. Strongly carbonated.								
		39.14 - 49.24 m Fine grained myxite	9449 9450 9451 9452 9453	43.00 44.5 46.0 47.5 48.0	44.5 46.0 47.5 49.0	1.5 m 1.5 m 1.5 m 1.5 m 0.99 m	Nil 10 Nil Nil Nil			
		49.99 - 53.65 Very siliceous, chert-like Laminated at 60° to core axis, Pyrite to 1% along laminations	9454 9455 9456 9457	49.99 50.99 51.99 52.99	50.99 51.99 52.99 53.65	1.0 m 1.0 m 1.0 m 0.66 m	Nil Nil Nil Nil			
		53.65 - 59.86 Mafic flow Dark grey-green colour. Massive medium grained.								

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HOLE NO: 611-5-86 PAGE: 3-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		84 - 86.26 m Feldspar clots								
		89.9 - 92.61 m Mafic flow Fine grained. Strongly carbonated. Lamination defined by carbonates replaced feldspar at 50° to core axis.								
		96.24 - 97.72 m Grey wacke Grey colour, massive gritty. Pervasively carbonated.								
106.43	108.31 m	<u>Feldspar porphyry</u> Grey colour with white to pink anhedral feldspar phenocrysts. The phenocrysts are up to 4mm in size in an aphanitic groundmass. Minor pyrite, finely disseminated and cubic along fractures.								
108.31	116.1 m	<u>Chloritic mafic volcanic - tuff</u> Dark green colour, tuffaceous. Very soft, chloritic. There are two foliations: S ₁ at 50° to the core axis and is folded in places; and S ₂ which appears to be an axial cleavage running sub-parallel to the core axis.								
		109.04 - 109.14 m Feldspar porphyry - as above								
		109.95 - 110.17 m " " " "								

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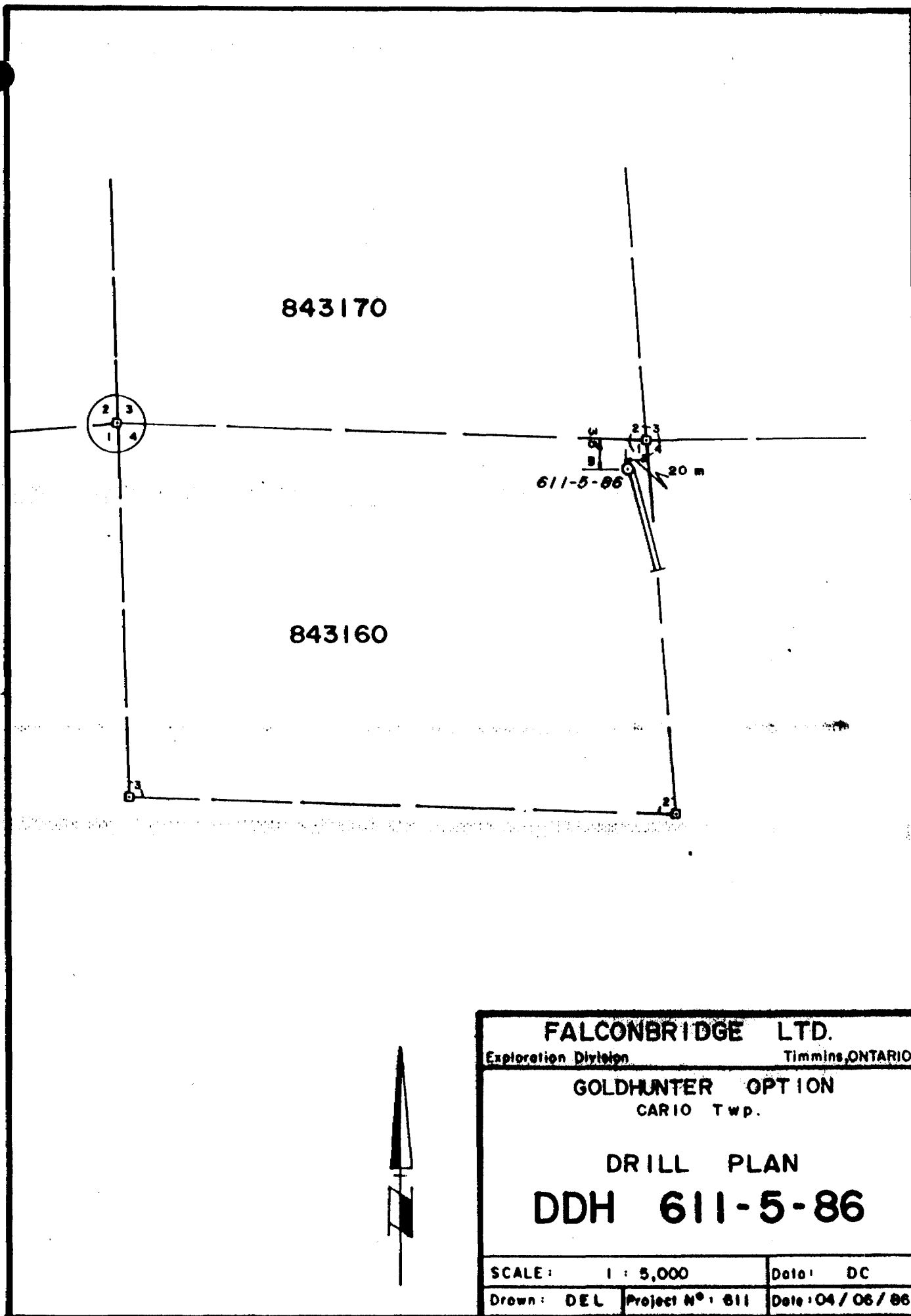
HOLE NO: 611-5-86 PAGE: 4 - 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Ass (ppm)			
116.1	129.95	<u>Mafic volcanic</u> Green colour. Massive to foliated at 60° to core axis. Lacks the second foliation (axial). Gradational from above tuff. Threaded carbonate veins. Chloritic but less strongly than above. Minor disseminated cubic pyrite < 1%.								
		124.47 - 127.87 Syenite Dark grey to pinkish colour. Massive coarse grained. Sections appear to be brecciated. Finely disseminated pyrite ≤ 1%.	9458 9459 9460	124.47 125.47 126.47	125.47 126.47 127.87	1.0m 1.0m 1.4m	Nil Nil Nil			
		127.87 - 128.19 m Mafic syenite Dark grey to black colour. Brecciated, fragments lighter (pinkish) colour and are up to 3 cm in size.	9461	127.87	128.19	0.32 m	Nil			
		128.37 - 128.71 m Quartz vein Composed of 60% bull quartz with mafic inclusions. At each contact the host is very chloritic, sheared, and carbonated. Very irregular, unable to obtain an orientation	9462 9463	128.19 128.71	128.71 129.95	0.52m 1.24m	15 Nil			

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HOLE NO: 611-5-86 PAGE: 5-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Am (ppm)			
129.95	137.02m	<u>Ultramafic</u> Blue gray colour. Massive, no pervasive texture. Very soft, talcose. Strongly magnetic. Threaded carbonate veined throughout.								
137.02	159.41m	<u>Diorite</u> Mottled gray-white colour. Massive, medium to coarse grained. Siliceous. 146.58 - 159.41 m Transition to more altered section. Chloritized talcose, carbonate. 149.59 - 149.91 m Felsic-Intermediate Intrusive. Gray-brown colour. Massive. Siliceous.								
159.41m		End of Hole								



843170

843160

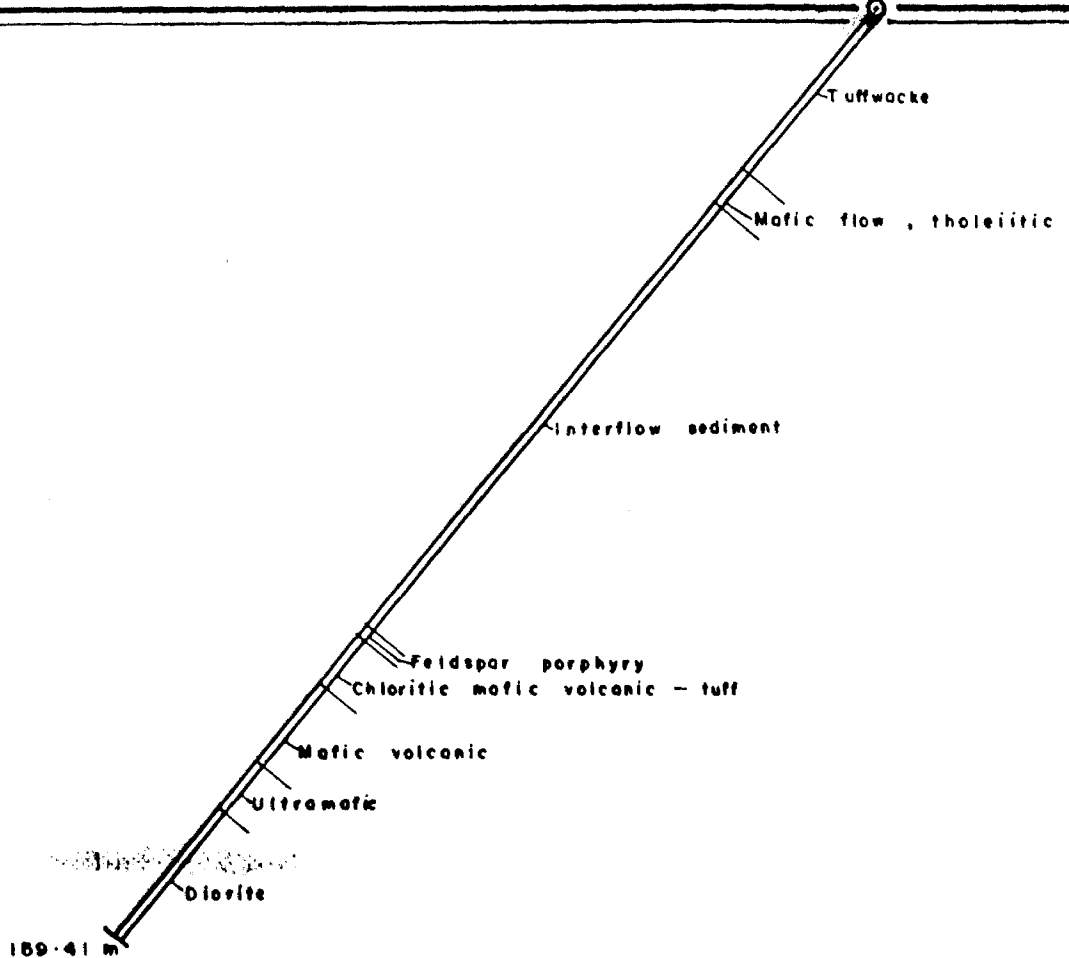
611-5-86 20 m



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Exploration Division	Timmins, ONTARIO
GOLDHUNTER OPTION	
CARIO Twp.	
DRILL PLAN	
DDH 611-5-86	
SCALE: 1 : 5,000	Date: DC
Drawn: DEL	Project N ^o : 611
	Date: 04/06/86

165° ←

611-5-86



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Exploration Division		Timmins, ONTARIO
GOLDHUNTER OPTION		
CARIO Twp.		
SECTION FOR		
DDH 611-5-86		
SCALE: 1 : 1,000	Date: CSB, DRC	
Drawn: DEL	Project N ^o : 611	Date: 02/07/86

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HOLE NO: 611-6-86 PAGE: 1 - 4

Drilled by: Philippon Diamond Drilling Inc. Property: Goldhunter 611
 Started: April 1/86 Township: Cairo Twp
 Ended: April 3/86 Logged by: D.R. Cruji

Latitude: Grid L 108 + 50 E
 Location 98 + 50 N
 Azimuth:
 Elevation:

CORR.
 Longitude: 15.24m 48°
 Dip: - 50° 45.72m 46°
 Length: 131.67m 11.44m 46°
 131.67m 46°

B.G.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Am (yds)			
0	15.24m	Casing								
15.24	27.16m	<u>Ultramafic</u> Dark blue-grey colour. Fine grained massive. Very soft, talcose. Heavily fractured, the fractures are filled with carbonate or talc. Strongly magnetic.								
27.16	54.26m	<u>Interflow sediments</u> These consist of greywacke and argillite and minor interbedded light-grey 'quartzite' and black graphite. Overall green to brown-grey colour. Well bedded, although disrupted, at 65° to core axis. Strongly carbonated. Disseminated pyrite, 1%. 30.58 - 31.72 m Talcose section Fine grained, talcose, 'laminated' at 70° to core axis. Greenish black colour. Carbonated. 31.72 - 32.56 Graphite Black colour with white carbonate stringers. Finely laminated at 75°								

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HOLE NO: 61-6-86 PAGE: 2-4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Am (ppm)			
		to the core axis, Inclusions of cherty pink fragments of up to 2cm.								
		32.56 - 54.26 Larger proportion of mafic volcanic components. Subangular fragments with no preferred orientation making up 30% of the section. The fragments are paler (buff) colour and are up to 4cm in size. Carbonate, silicified. Massive to bedded at 70° to the C.A.								
		40.59 - 40.65 Quartz-carbonate vein								
		49.3 - 51.08 Graphite Black colour with white carbonate stringers. Finely laminated at 60° to the core axis. Very fine pyrite interlaminated								
54.26	105.66	<u>Graphitic section</u> Composed of interbedded graphite, argillite, and greywacke. Well bedded black to grey colour with interbedded white carbonate stringers. Variable amounts of pyrite along the bedding, and as cross-cutting fracture fillings, $\approx 1\%$. Bedding at 65 to 80° to core axis.								
		63.33 - 67.11 Graphitic greywacke Dark grey colour. Gritty poorly sorted. Less distinct lamination of								

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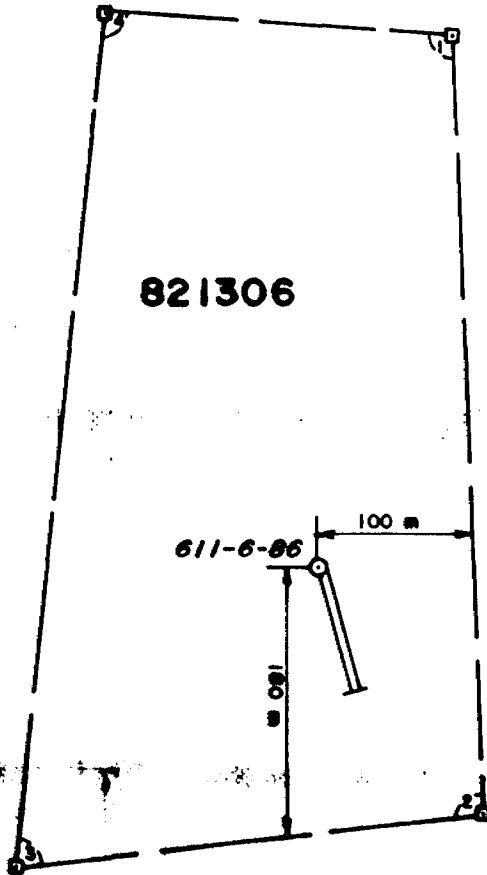
HOLE NO: 611-6-86 PAGE: 3-4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Am (ppb)			
		75° to the core axis. Change from graphitic unit gradation from 58.19 to 63.33 m.								
		93.27 - 94.06 m Conglomerate Greenish-grey colour. Subangular fragments, polymictic. Matrix composed of graphitic argillite plus carbonate. The fragments vary up to 3cm and are slightly elongated at 70° to core axis.								
		98.88 - 101.04 m Feldspar porphyry Buff colour. Euhedral white feldspar phenocrysts up to 3cm in size. Hornblende laths up to 1mm. Aphanitic groundmass, very siliceous. Disseminated pyrite ~1%.								
105.66	111.24	<u>Pyroclastic, mafic volcanic</u> Green-grey colour. The fragments are lighter grey colour and are subangular and elongated up to 5cm. Matrix is composed of carbonate, chlorite, ± minor graphite. Fragment elongation, lincation at 55 to 65° to core axis								

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HOLE NO: 611-6-86 PAGE: 4-4

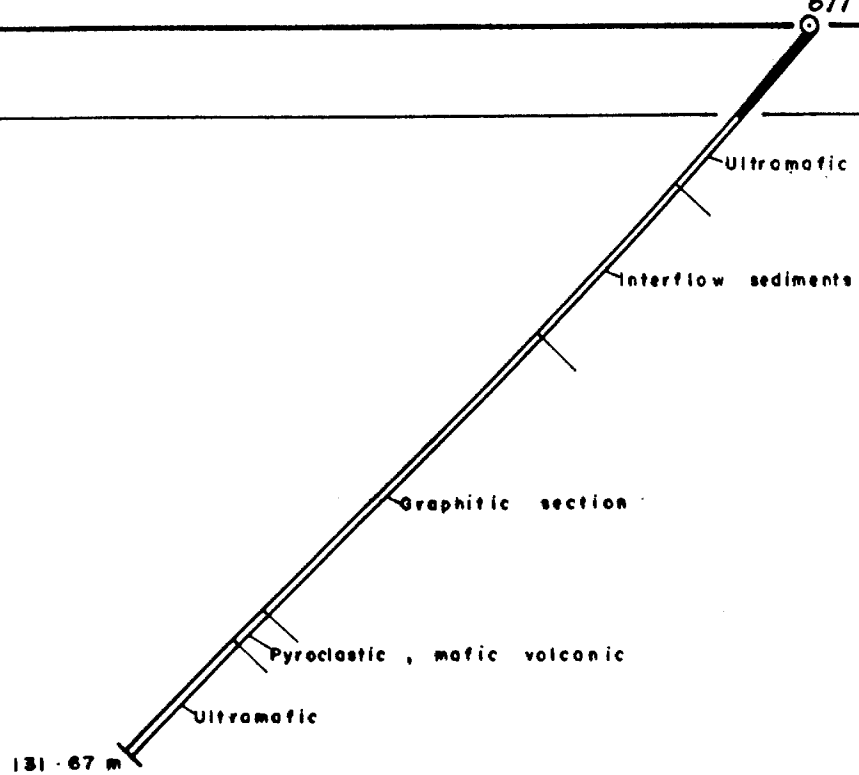
FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Ass (ppm)			
111.24	131.67	<p><u>Ultramafic</u></p> <p>Blue green to grey colour. Massive to medium grained to pyroclastic, well laminated. The lamination varying from 30 to 50° to the core axis. Very soft, talcose with abundant thready white carbonate veins. Interlaminated graphitic sediments plus sections with quartz fragments. Non magnetic</p> <p>122.05 - 122.21 Interbedded pyrite of up to 2%. Plus phlogopite</p>								
131.67		End of Hole								



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Exploration Division	Timmins, ONTARIO
GOLDHUNTER OPTION	
CARIO Twp.	
DRILL PLAN	
DDH 611-6-86	
SCALE: 1 : 5,000	Date: DC
Drawn: DEL	Project N ^o : 811
	Date: 04 / 06 / 86

165° ←

611-6-86



FALCONBRIDGE LTD.		
Exploration Division	Timmins, ONTARIO	
GOLDHUNTER OPTION		
CARIO Twp.		
SECTION FOR		
DDH 611-6-86		
SCALE: 1 : 1,000	Date: CSB, DRC	
Drawn: DEL	Project N ^o : 611	Date: 02/07/86

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HOLE NO: 611-7-86 PAGE: 1-7

Drilled by: Philippon Diamond Drilling Inc. Property: Goldhunter 611
 Started: April 7/86 Township: Cairo Twp
 Ended: April 8/86 Logged by: D.R. Cruji

Latitude: Grid L98+10 E Longitude: 3.05m 46°
 Azimuth: ^{Location} 101 + 12.5 N Dip: -50° 45.72m 56°
 Elevation: Length: 81.08m 81.08m 53°

CORE.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Ass (g/g)			
0	3.05m	Casing								
3.05	4.22m	<u>Mafic Volcanic, Tholeiite</u> Dark green colour. Fine grained and massive. Carbonated and magnetic. A band of graphitic material located at 3.23m trending 60° to the core axis.								
4.22	25.95m	<u>Syenite</u> Rusty pink colour. Medium grained and massive. The unit is composed of pink to white K-feldspar up to 5mm in size, with fine hornblende, qtz and aphanitic material. Pyrite occurs as fine to cubic and disseminated throughout, < 1%. Upper contact from 4.22 to 5.4 m broken into gravel sized pieces. Narrow unmineralized quartz veins at 90°; 40° to core axis. 4.73 - 5.0m Green-grey section of syenite. A 3mm quartz veinlet occurs at 60° to core axis. Also irregular quartz patches, overall accounting for < 10%.								

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HOLE NO: 611-7-86 PAGE: 2-7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	A _w (ppb)			
		5.58 - 5.67m Mafic volcanic inclusion. Fine grained, massive. Carbonated with finely disseminated pyrite 1-2%								
		6.7 - 6.93m Mafic volcanic inclusion the same as above except the syenite is chilled at the contacts. A quartz-potash vein is associated.								
		7.0 - 7.1m Mafic volcanic inclusion as above.								
		7.1 - 16.7m Silicified syenite	9464	7.1	8.36	1.26m	130			
			9465	8.36	9.86	1.5m	130			
			9466	9.86	11.30	1.44m	140			
			9467	11.30	12.72	1.42m	400			
			9468	12.72	14.17	1.45m	1005			
			9469	14.17	15.5	1.33m	240			
			9470	15.5	16.96	1.46m	80			
		25.23 - 25.45m Mafic tuff. Dark grey (charcoal) colour. Fine grained and well laminated at 50° to the core axis. Unchilled contacts. Carbonated, magnetic and contains fine disseminated pyrite ~1%. Soft with a high proportion of chlorite.	9471	24.95	25.95	1.0m	50			
25.95	32.1m	<u>Mafic Tuff</u> Steel grey to green grey colour. Fine grained and well laminated at ~ 50° to core axis. Composed of interbedded white to grey carbonate, mafic tuff and minor argillic material. The unit is generally strongly magnetic, and contains finely disseminated pyrite ± 1%.								

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HOLE NO: 611-7-86 PAGE: 3-7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
32.1	42.5m	26.07 - 26.12m Coarse grained quartz (+ potash) vein. Unmineralized. Thending at 70° to the core axis.								
		27.28 - 27.32m Milky unmineralized quartz vein. Minor (~5%) chloritic inclusions.								
		28.83 - 29.06 Graphitic section. Black colour, well laminated at 30° to the core axis. Platy, fissile. Interbedded elongated grainy quartz lens up to 4 cm and medium grained pyrite, 5%.	9472	25.95	26.95	1.0m	Nil			
			9473	26.95	27.95	1.0m	Nil			
			9474	27.95	28.83	0.88m	Nil			
		30.00 - 30.2 Syenite section, as above	9475	28.83	29.06	0.23m	100			
			9476	29.06	30.06	1.0m	80			
			9477	30.06	31.06	1.0m	Nil			
					9478	31.06	32.1	1.04m	30	
				<u>Syenite</u> Dark grey-pink to pink colour. Appears that this section is a more mafic syenite (poss. contaminated) A more porphyritic texture than elsewhere in this hole. Minor unmineralized quartz and potash veins. Finely disseminated pyrite ~1%.						

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HOLE NO: 611-7-86 PAGE: 4-7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
		32.7 - 33.6 Fine grained massive silicified section. This section is an overall pale pink colour.								
		40.65 - 42.5 Quartz vein breccia. The colour varies from dark grey to pink. Composed of quartz vein brecciated material with angular fragments of dark syenite and chloritic material; silicified.								
42.5	43.53	<u>Carbonate - quartz vein breccia.</u> Irregular carbonate - quartz vein network comprises 25% of the section. Included in the vein material are angular pale green altered 'mafic' fragments composed mostly of carbonate (+ chlorite). Upper contact is at 50° and lower at 40° to the core axis.	9479 9480 9481 9482 9483 9484 9485 9486	32.1 33.1 34.1 35.58 37.0 38.47 39.97 40.90	33.1 34.1 35.58 37.0 38.47 40.90	1.0 m 1.0 m 1.48 m 1.42 m 1.47 m 1.5 m 0.93 m 1.6 m	70 650 70 140 270 300 1010 Nil			
43.53	44.68	<u>Ultramafic - Fault Zone</u> Dark grey to black colour. Sheared, foliation varies from 35 to 90° to core axis. Contains irregular quartz - carbonate (+ potash) lenses and veins. Overall from 5-10% pyrite.	9487	42.5	43.53	1.03 m	Nil			

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
		43.92 - 44.0 Irregular quartz lens, unmineralized.								
		44.15 - 44.24 Gouge material at 30° to the core axis. Composed of strongly sheared subrounded chloritic material and carbonate veins.								
44.68	47.07m	<u>Syenite</u> Buff grey to black in colour. Medium grained and massive. Finely disseminated pyrite <1%. A more mafic, contaminated syenite	9488	43.53	44.68	1.15m	110			
		46.4 - 46.63 Pyritic section. From 2-5% pyrite in carbonated fine grained mafic, possibly intrusive.	9489	44.68	46.23	1.55m	270			
			9490	46.23	47.07	0.84m	250			
47.07	56.71m	<u>Iron Formation</u> Grey to green in colour. Well laminated at 50° to the core axis. Composed of interbedded chert, argillite greywacke, magnetite sections with tuffaceous material. Pyrite throughout the section ~ 5%.								

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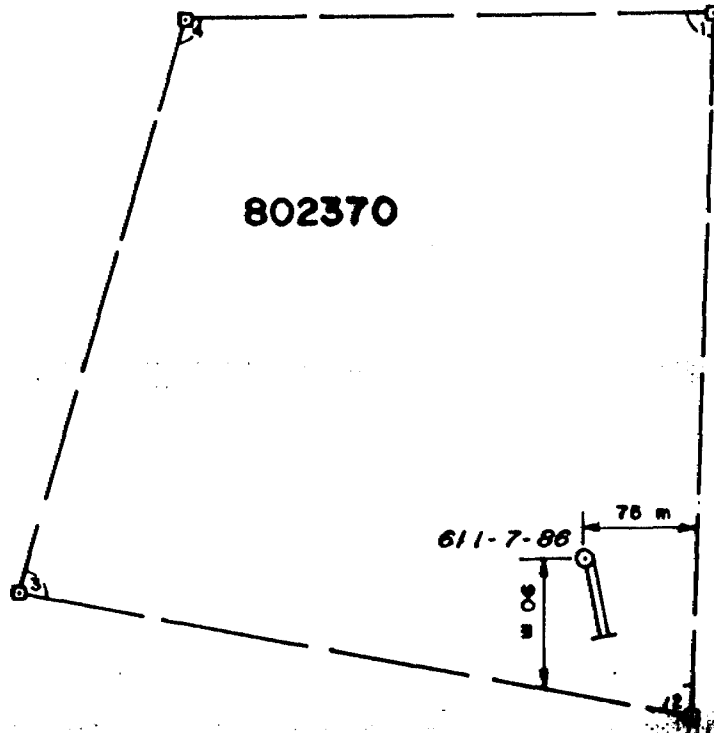
HOLE NO: 611-7-86 PAGE: 6-7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Am (gpts)			
		47.07 - 49.10m Especially cherty with 5-10% pyrite.	9491	47.07	48.07	1.0m	1510			
		49.1 - 49.3m Contaminated Syenite Dark green contacts with pink core. Medium grained. Disseminated pyrite ~1%.	9492	48.07	49.1	1.03m	1370			
		49.84 - 50.26m Syenite, pale pink in colour. within this section are irregular wispy I.F. inclusions and a 3x1cm pyrite dot.								
		50.36 - 51.17m A Quartz-potash lens running the length of the core and making up 5% of the section. Unmineralized.	9493	49.1	50.26	1.16m	70			
			9494	50.26	51.26	1.0m	Nil			
			9495	51.26	52.26	1.0m	Nil			
			9496	52.26	53.26	1.0m	Nil			
			9497	53.26	54.18	0.92m	Nil			
			9498	54.18	54.78	0.6m	Nil			
			9499	54.78	55.69	0.91m	Nil			
		54.78 - 55.69m Pyrite 10-15%	9500	55.69	56.71	1.02m	Nil			
56.71	81.08m	<u>Syenite</u> Same as from 4.22 to 25.95m	9501	56.71	57.71	1.0m	10			
			9502	58.0	59.1	1.1m	10			

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HOLE NO: 611-7-86 PAGE: 7-7

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
		59.15 - 59.18m Quartz vein at 45° to core axis. Pyrite < 1%.	9503	59.1	59.34	0.24m	Nil			
			9504	59.24	60.34	1.0m	50			
		63.77 - 63.82m Quartz carbonate vein at 45° to core axis. Pyrite < 1%.	9505	62.71	63.77	0.98m	200			
			9506	63.77	63.85	0.08m	110			
			9507	63.85	64.85	1.0m	170			
		73.95 - 74.06m Quartz vein at 20° to core axis. Minor pyrite at the contacts								
		76.11 - 76.17 Quartz vein at 40° to core axis. Unmineralized.	9508	75.08	76.08	1.0m	235			
			9509	76.08	76.2	0.12m	40			
		77.8 - 77.87 Quartz-carbonate vein at 40° to core axis. Pyrite 2-5% The quartz is cloudy with black material (graphite?) along fractures.	9510	76.2	77.65	1.45m	1300			
			9511	77.65	78.0	0.35m	1370			
			9512	78.0	79.0	1.0m	1030			
81.08		End of Hole								



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Exploration Division	Timmins, ONTARIO
GOLDHUNTER OPTION	
CARIO Twp.	
DRILL PLAN	
DDH 611-7-88	
SCALE: 1 : 5,000	Date: 7/2/88
Drawn: DEL	Project No: 811

170°

611-7-86

Mafic volcanic - tholeiite

Syenite

Mafic tuff

Syenite

Carbonate - quartz vein breccia

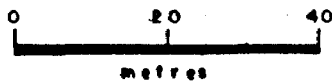
Ultramafic - fault zone

Syenite

Iron formation

Syenite

81.08 m



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Exploration Division

Timmins, ONTARIO

GOLDHUNTER OPTION

CARIO Twp.

SECTION FOR

DDH 611-7-86

SCALE: 1 : 1,000

Date: CSB, DRC

Drawn: DEL

Project N^o: 611

Date: 02/07/86

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HOLE NO: 611-8-86 PAGE: 1-8

Drilled by: Philippon Diamond Drilling Inc. Property: Goldhunter 611
 Started: April 10/86 Township: Cairo Twp.
 Ended: April 12/86 Logged by: D.R. Cruji

Latitude: Grd L112E Longitude: 3.05m 54°
 Location 104 + 50 N 45.72m 54°
 Azimuth: 91.44m 54°
 Elévation: 137.16m 54°
 Length: 193.85m 182.89m 55°

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
0	2.44 m	Casing								
2.44	20.7 m	<u>Mafic volcanic - Tholeiite</u> Dark green-grey colour. Fine to medium grained, massive. Epidote and minor carbonate along fractures. Pyrite within and associated with quartz-hematite veins. Generally non-magnetic. This unit grades into finer grained material at contact.								
	4.4 - 4.93 m	Quartz (+ hematite) vein, irregular but roughly at 75° to the core axis. Pyrite located at the contact, 2%.								
	6.04 - 6.16 m	Quartz (+ hematite) veins, one at 90° and second at 50° to the core axis. Pyrite at the vein margins, 5-10%.	9517	4.88	6.16	1.28 m	Nil			
	11.05 - 11.12 m	White quartz carbonate veins, one at 90° and second at 70° to the core axis. Pyrite at the vein margins, 2-5%. Approximately 50% vein material.								
	13.75 - 13.78 m	Quartz-carbonate vein as above								
	20.32 - 20.43 m	Quartz-carbonate vein as above.	9518	20.0	20.7	0.7 m	Nil			

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HOLE NO: 611-8-86 PAGE: 2-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
20.7	48.0m	<p><u>Altered Mafic Volcanic</u> Dark green colour. Fine grained massive. Possibly arcuate epidote sections represent pillow selvages. Highly fractured along which is found hematite and epidote. The fractures are at 65° and 30° (wiping to 0°) to core axis. Below 41m becoming silicified.</p> <p>22.02 - 22.14m Felsic porphyritic intrusive. Overall pink-grey colour. Pink to white feldspar phenocrysts in a dark grey aphanitic groundmass. Disseminated pyrite ~1%.</p> <p>22.31 - 22.51m Felsic porphyritic intrusive As above.</p> <p>22.61 - 23.45m Felsic porphyritic intrusive As above except from 22.7 to 23.0m white, strongly silicified.</p> <p>25.5 - 25.6m Quartz-carbonate vein at 30° to core axis. Consisting of 20% vein material and 1-2% pyrite along margins.</p> <p>36.87 - 36.97m Quartz vein. The upper contact is hematite and epidote altered and mineralized with 2% pyrite.</p> <p>42.04 - 42.77m Tuffwacke Grey colour, massive and gritty.</p>								
			9519	22.0	23.5	1.5m	Nil			

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HOLE NO: 611-8-86 PAGE: 3-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
48.0	69.5m	47.28 - 47.33m Quartz vein white colour with hematite staining and coarse pyrite at the contact, 1-2%.								
		<u>Strongly silicified mafic volcanic</u> Grey-green colour. The unit consists of from fine grained massive to minor tuffaceous brecciated sections. Within this are finely laminated 'cherty' units. Hematite, quartz and carbonate are along the fractures. Gradational change to the massive mafic volcanic below.								
		50.2 - 50.3 m Quartz vein at 30° to the core axis. Within the vein is hematite and minor pyrite.								
		50.93 - 51.33m Disrupted cherty tuff with interstitial carbonate and 1-2% pyrite.	9520	50.93	51.8	0.87m	Nil			
		51.33 - 57.8m Brecciated mafic volcanic with interstitial carbonate and chert.								
		59.38 - 69.5m Abundant interbedded finely laminated felsic tuff (chert-like) The unit is pale grey to buff coloured with narrow magnetite bearing sections of up to 3cm. The lamination is at 25° to the core axis.	9521	59.38	60.88	1.5m	Nil			
			9522	60.88	62.38	1.5m	Nil			
			9523	62.38	63.88	1.5m	Nil			
			9524	63.88	65.38	1.5m	Nil			
			9525	65.38	66.88	1.5m	Nil			
	9526	66.88	68.38	1.5m	Nil					
	9527	68.38	69.5	1.12m	Nil					

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HOLE NO: 611-8-86 PAGE: 4-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
69.5	97.3m	<u>Tholeiite</u> Grey-green colour. Fine grained, massive. Silicified, non-magnetic. Minor thready carbonate veinlets (\pm hematite) at 50 to 60° to the core axis.								
		78.9 - 79.13m Bracciated with a carbonate groundmass. Relatively uncluttered.								
		83.42 - 83.45m Carbonate-quartz vein at 10° to the core axis. Medium grained carbonate, with inclusions of chloritic host rock and minor pyrite at the margins.								
		89.17 - 89.19m Quartz vein at 35° to the core axis.								
		93.9 - 93.98m Carbonate (\pm hematite) vein at 20° to the core axis. The hematite is both specular and earthy. Composition includes 20% carbonate and 5-10% specular hematite.								
		95.44 - 95.88m Irregular pink to white quartz lens. The section is approximately 90% quartz with 1-2% coarse pyrite	9528 9529	95.2 96.2	96.2 97.3	1.0m 1.1m	Nil Nil			

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HOLE NO: 611-8-86 PAGE: 5-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	As (%)			
97.3	108.65m	<u>Felsic pyroclastic</u> The colour varies from pale grey to lime green to orange-buff. The fragments are subangular and up to 2cm in size. A lineation is well developed at 25 to 40° to the core axis. The unit is silicified, strongly carbonated with disseminated pyrite from 2-5% and interbanded magnetite. Hematite occurs along fractures at 0° to the core axis.								
		101.56 - 101.61m Quartz vein at 60° to the core axis. Composed of 40% quartz vein and unmineralized.	9530	97.3	98.3	1.0m	Nil			
			9531	98.3	99.3	1.0m	Nil			
			9532	99.3	100.3	1.0m	Nil			
			9533	100.3	101.3	1.0m	Nil			
		103.3 - 103.53m Coarse crystalline carbonate - quartz vein at 25° to the core axis. Subangular inclusions and unmineralized.	9534	101.3	102.3	1.0m	Nil			
			9535	102.3	103.3	1.0m	Nil			
			9536	103.3	104.3	1.0m	Nil			
			9537	104.3	105.3	1.0m	Nil			
		106.54 - 107.57m Mineralized with approximately 5% pyrite.	9538	105.3	106.54	1.24m	Nil			
			9539	106.54	107.57	1.03m	Nil			
			9540	107.57	108.65	1.08m	Nil			
108.65	176.18m	<u>Tholeiite</u> Dark grey-green colour. Medium grained massive. Strongly magnetic Epidote alteration. Small \leq 3cm quartz and hematite veinlets. Minor carbonate, pyrite								

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HOLE NO: 611-8-86 PAGE: 6-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
		109.33 - 110.6m Quartz + hematite veined silicified zone. The veins are <1cm in size and vary from 50 to 60° to core axis. The host mafic volcanic is silicified and is mineralized with 1-2% disseminated pyrite.	9541	109.33	110.6	1.27m	Nil			
		116.73 - 116.77m Carbonate vein with magnetite in the core area, trending at 50° to the core axis. The composition is 60% carbonate and 40% magnetite.								
		117.47 - 118.9m Irregular hematite-quartz vein system. The lower contact is at 50° to the core axis								
		124.16 - 124.25m carbonate vein containing angular hematite staining quartz fragments. The vein is at 80° to the core axis. Pyrite is found at the vein margins, ±1%.								
		135.1 - 135.27m Carbonate vein, as above, and at 90° to the core axis.								
		135.34 - 135.38m Quartz - carbonate vein breccia, at 45° to the core axis.								
		142.17 - 142.25m Quartz - carbonate vein breccia, at 30° to the core axis. Vein margins silicified. Pyrite ±1% at the margins and within the vein.								

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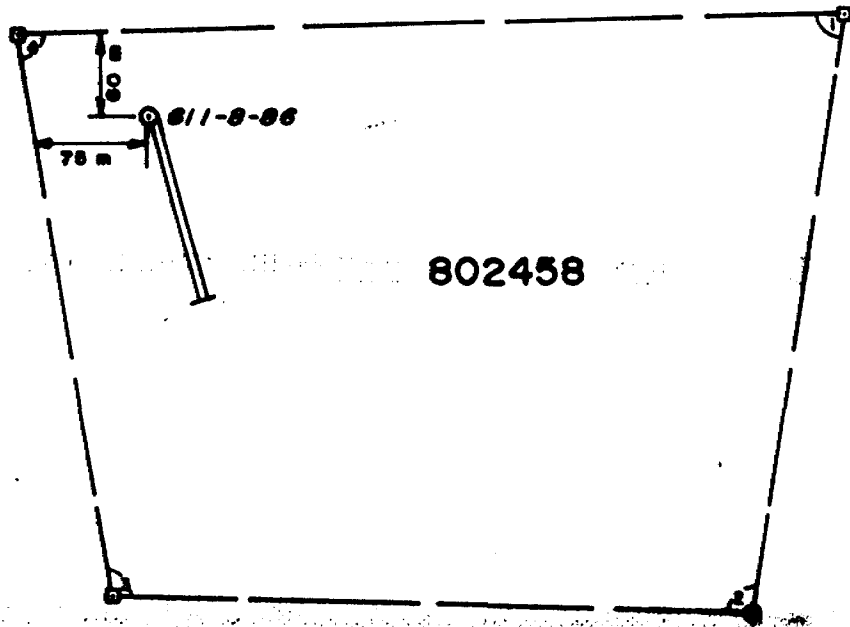
HOLE NO: 611-8-86 PAGE: 7-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Am (ppb)			
		146-163m Less massive section. Possible flow textures developed parallel to the core axis. Pillow selvages observed from 160 to 163m. Also observed narrow sections of (flow top?) brecciation.								
		164.52 - 164.57m Quartz-hematite vein, at 80° to the core axis. Pyrite 10-15%.								
		168.76 - 168.83m Same as above								
		170.66 - 170.7m Hematite stained quartz vein at 40 to 50° to the core axis. Minor coarse pyrite within the vein								
		170.93 - 170.96m Hematite stained quartz vein at 30° to core axis. Minor pyrite.								
		172.48 - 172.52 As above, at 20° to the core axis.								
176.42	143.85	<p><u>Mafic flow (+ I.F.)</u></p> <p>within this unit are sections of mafic tuffs with narrow interbedded felsic tuff and strongly magnetic siliceous, carbonated iron formation. The unit is dark grey to green in colour. The disrupted I.F. trends roughly 90° to the core axis. The unit appears to be transitional from above Kalscheik unit.</p>								

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HOLE NO: 611-8-86 PAGE: 8-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
		178.5 - 179.58 m Felsic tuff, laminated at 55° to the core axis. Within this unit is a 1cm quartz-potash vein at 0° to the core axis	9542 9543	177.5 178.5	178.5 179.58	1.0m 1.08m	Nil Nil			
		181.2 - 181.3 m Irregular quartz vein, plus hematite/potash. Composed of ~30% vein material.								
		187.58 - 188.03 m Felsic tuff with subrounded to angular glassy quartz lapilli. The lapilli are elongated/aligned at 45° to the core axis. Pale green rims around the lapilli.								
		188.83 - 189.4 m Felsic to Intermediate tuff, as above but massive.								
		192.63 - 193.85 m The unit is becoming more massive, medium grained	9544 9545 9546 9547 9548 9549 9550 9551 9552	179.58 181.08 182.08 183.08 184.08 185.08 186.08 187.30 188.30 189.4	181.08 182.08 183.08 184.08 185.08 186.08 187.30 188.30 189.4	1.5m 1.0m 1.0m 1.0m 1.0m 1.0m 1.22m 1.0m 1.1m	Nil Nil Nil 10 Nil Nil Nil Nil Nil			
193.85		End of Hole								



802458



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Exploration District	30000000
GOLDMETER OPTION	
CARIO Twp.	
DRILL PLAN	
DDH 611-8-86	
SCALE: 1 : 5,000	Date: DC
Drawn: DEL	Project No: 611-8-86/001/001

165°

611-8-86

Mafic volcanic - tholeiite

Altered mafic volcanic

Strongly silicified mafic volcanic

Tholeiite

Felsic rhyolite

Tholeiite

Mafic flow & iron formation

193-85 m



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Exploration Division

Timmins, ONTARIO

GOLDHUNTER OPTION
CARIO Twp.

SECTION FOR

DDH 611-8-86

SCALE: 1 : 1,000

Date: C S B, DRC

Drawn: DEL

Project N°: 811

Date: 02/07/85

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HOLE NO: 611-9-86 PAGE: 1-8

Drilled by: Philippon Diamond Drilling Inc. Property: Goldhunter 611
 Started: April 15/86 Township: Cairo Twp
 Ended: April 16/86 Logged by: D.R. Craji

Latitude: Grid Location LBBE 97 162 N Longitude: CORR. 7.93m 51°
 Azimuth: Dip: -50° 45.72m 52°
 Elevation: Length: 123.44m 91.44m 52°

B.Q.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
0	7.93 m	Casing								
7.93	8.16 m	<u>Silicified Mafic Volcanic</u> Steel grey colour. Fine grained tuffaceous texture. A vague lineation is observed at ~40° to the core axis. Thready pink quartz-potash veinlets trend at 45° to the core axis. Pyrite is finely disseminated, ±1%.	9553	7.93	8.45	0.53m	10			
8.16	31.99 m	<u>Mafic pyroclastic</u> Steel grey to green colour with a pink tint given by the pervasive carbonate. The mafic fragments are subrounded and vary in size from <5mm to 4cm. The fragments are elongated (especially the smaller ones) at ~40° to the core axis. The unit is strongly altered, carbonate and chlorite. The magnetism varies: 8.16-15.28 m non-magnetic; 15.28-31.99 magnetic. 8.16-8.45m Quartz-potash vein at 40 to 50° to the core axis. Contains felsic tuff material. Composed of ~25% quartz. Minor pyrite.								

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HOLE NO: 611-9-86 PAGE: 2-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
		9.04 - 9.25m Quartz - potash vein at approximately 60° to the core axis. Within the vein are angular inclusions which are hematite and potash altered. Composed of ~ 70% vein material.	9554	9.00	10.00	1.0m	Nil			
		20.57 - 22.9m Mafic dyke Dark grey to black colour. Fine grained and massive. Strongly magnetic. The core is broken up but the lower contact is coincident with a quartz - potash lens with ~ 2% pyrite.								
		28.4 - 31.99m Silicified section Contains a higher proportion of potash fragments. The fragments and lineation are disrupted but overall they trend at ~ 35° to the core axis.	9555 9556 9557	28.4 29.9 30.9	29.9 30.9 31.99	1.5m 1.0m 1.09m	Nil 10 Nil			
31.99	39.85m	<u>Silicified mafic volcanic</u> Dark grey colour. Fine grained massive to foliated at 30° to the core axis. Strongly silicified and magnetic. Carbonated. Gradational change into lower unit.								

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HOLE NO: 611-9-86 PAGE: 3-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Ass (ppm)			
39.85	54.55m	<p><u>Massive mafic volcanic</u> Grey-green colour. Medium grained, massive. Strongly magnetic. Epidote and carbonate occur along fractures which trend 45° to the core axis. Sections appear to be more intermediate in composition. Gradational change into mafic syenite.</p> <p>45.9 - 47.76m Mafic Syenite Light pink buff coloured. Medium grained, massive. The upper and lower contacts are gradational. Strongly epidotized throughout but especially along the fractures. The fractures trend 65° to the core axis. Magnetic from 46.75 to 47.76m.</p> <p>49.3 - 59.55m Silicified, fine grained and massive. Very magnetic. Dark grey colour.</p>								
54.55	61.58m	<p><u>Mafic Tuff.</u> Grey-green colour. Fine grained and laminated at 60° to the core axis. Some of the unit appears to be pyroclastic, composed of elliptical subrounded tuffaceous</p>								

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HOLE NO: 611-9-86 PAGE: 4-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
		Fragments. Carbonate is pervasive. Fine grained magnetite is contained in black argillic sections interbedded with the tuff.								
		54.55 - 56.25m Rusty red material, potash or hematite, within a silicified highly fractured section. The orientation of the fractures varies from 65 to 90° to the core axis.	9558	54.55	55.55	1.3m	Nil			
			9559	55.55	56.25	0.7m	Nil			
			9560	56.25	57.25	1.0m	Nil			
		57.56 - 58.3m Carbonate vein, unmineralized, at 0° to the core axis and 1cm wide.	9561	57.25	58.3	1.05m	Nil			
			9562	58.3	59.74	1.44m	Nil			
			9563	59.74	60.74	1.0m	20			
			9564	60.74	61.58	0.84m	Nil			
61.58	69.05	<u>Interflow Sediment</u> Light grey-green colour. The unit is composed of interbedded, mafic tubaceous material (as above), carbonate, elongated subrounded fragments of tuff, and narrow (<1cm) purplish argillic/arkosic beds. The lamination is at 50° to the core axis. Carbonate and chlorite throughout. Non magnetic and only minor pyrite.	9565	61.58	62.58	1.0m	Nil			
			9566	62.58	63.93	1.35m	Nil			

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HOLE NO: 611-9-86 PAGE: 5-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
		63.93 - 67.0 m Lapilli tuff The lapilli are up to 4mm in size and are composed of carbonate, within a well foliated matrix of chlorite. The foliation is at 60° to the core axis. Disseminated pyrite 1-2%.								
		66.13 - 66.24 m Quartz vein containing minor disseminated pyrite. The section is approximate 50% quartz.								
		67.77 - 68.0 m Felsic porphyry, composed of white subhedral feldspar phenocrysts in a siliceous purple grey aphanitic groundmass.								
			9567	63.93	64.93	1.0m	Nil			
			9568	64.43	65.93	1.0m	Nil			
			9569	65.93	67.0	1.07m	Nil			
			9570	67.0	68.0	1.0m	240			
			9571	68.0	69.05	1.05m	20			
69.05	70.93m	<u>Alteration zone</u> Green-grey to buff coloured. Fine grained and well laminated at 50° to the core axis. The unit appears to be composed of glassy tuffaceous material, with 1-2% pyrite.								
		70.18 - 70.21 unmineralized quartz vein at 90° to the core axis	9572	69.05	70.0	0.95m	30			
		70.35 - 70.41 As above, quartz vein.	9573	70.0	70.93	0.93m	190			

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HOLE NO: 611-9-86

PAGE: 6-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
70.93	72.95m	<u>Syenite</u> Light pink colour. Coarse grained massive. Disseminated pyrite $\leq 1\%$.	9574 9575	70.93 71.93	71.93 72.95	1.0m 1.02m	60 80			
72.95	75.8m	<u>Alteration zone</u> , as above (69.05 to 70.93m). 74.78 - 74.84m Syenite, as above (70.93 to 72.95m) 74.84 - 75.8m Mixed zone of syenite and altered material. Foliated at 35° to the core axis. Pyrite throughout 2-5%.	9576 9577 9578	72.95 73.95 74.98	73.95 74.98 75.8	1.0m 1.03m 0.82m	210 30 130			
75.8	105.35m	<u>Ultramafic</u> Dark blue-grey colour. Well developed foliation at 60° to the core axis. Pervasively talcose and carbonated. Thready white carbonate (+quartz) veins throughout. Magnetic. Gradational lower contact. 78.2 - 79.1m Mafic pyroclastic Dark green colour. Tuberculous to pyroclastic. The fragments are subrounded and slightly elongated at 50° to the core axis. Very chloritic. Non magnetic	9579	75.8	76.8	1.4m	30			

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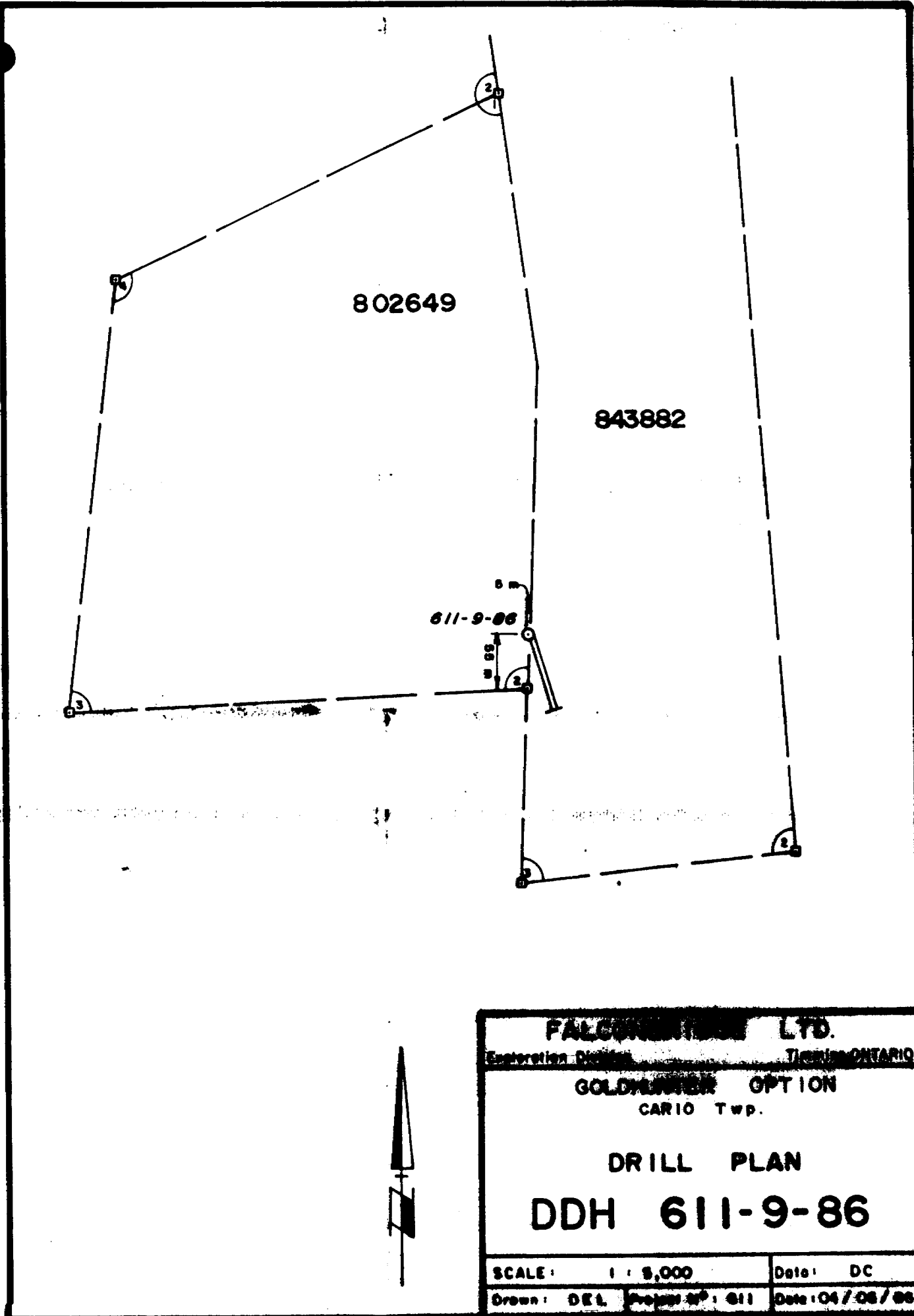
HOLE NO: 611-9-86 PAGE: 7-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
		84.0 - 84.13m Quartz lens, non mineralized Consists of 90% quartz. Irregular shape but at roughly 50° to the core axis.								
		89.18 - 89.25m Quartz vein with carbonate at the margins. Non mineralized. Trends 40° to the core axis								
		89.77 - 89.9m Fault, gouge material Composed of subangular carbonate fragments with sheared chlorite								
		89.9 - 91.35m Quartz vein. White in colour, non mineralized. Minor chloritic material included with the vein. The upper contact is at 45° and the lower contact at 35° to the core axis.	9580 9581 9582 4583	88.9 89.9 90.9 91.35	89.9 90.9 91.35 92.35	1.0m 1.0m 0.45m 1.0m	130 50 10 10			
		96.0 - 96.73m Mafic to intermediate intrusive Light grey-green colour. Medium grained, massive. Strongly carbonated. Non-magnetic. Finely disseminated pyrite.								

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HOLE NO: 611-9-86 PAGE: 8-8

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
105.35	123.44m	<u>Felsic Tuff</u> Light gray colour. Very well laminated at 30° to the core axis. Subangular lapilli of up to 5mm are aligned with the lamination. Non magnetic Pyrite occurs as disseminations and interlaminated, $\leq 1\%$.								
		105.35 - 106.3m Gradational change from the ultra mafic.	9584	105.35	106.3	0.95m	Nil			
		106.87 - 107.0m Buff coloured felsic porphyry bomb. Elongated across the core axis at 30°. The phenocrysts ^{within the bomb} are aligned with the texture externally.								
		116.36 - 116.65m Quartz lens, non mineralized compound of $\sim 30\%$ quartz and the remainder is silicified, bleached felsic tuff.	9585	106.3	107.8	1.5m	Nil			
			9586	107.8	109.3	1.5m	10			
			9587	109.3	110.8	1.5m	10			
			9588	110.8	112.3	1.5m	Nil			
			9589	112.3	113.8	1.5m	20			
			9590	113.8	115.3	1.5m	Nil			
			9591	115.3	116.8	1.5m	Nil			
			9592	116.8	117.8	1.0m	Nil			
			9593	117.8	118.55	0.75m	Nil			
			9594	118.55	119.55	1.0m	20			
			9595	119.55	120.55	1.0m	10			
			9596	120.55	122.0	1.45m	Nil			
			9597	122.0	123.44	1.44m	Nil			
123.44		End of Hole								



802649

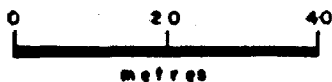
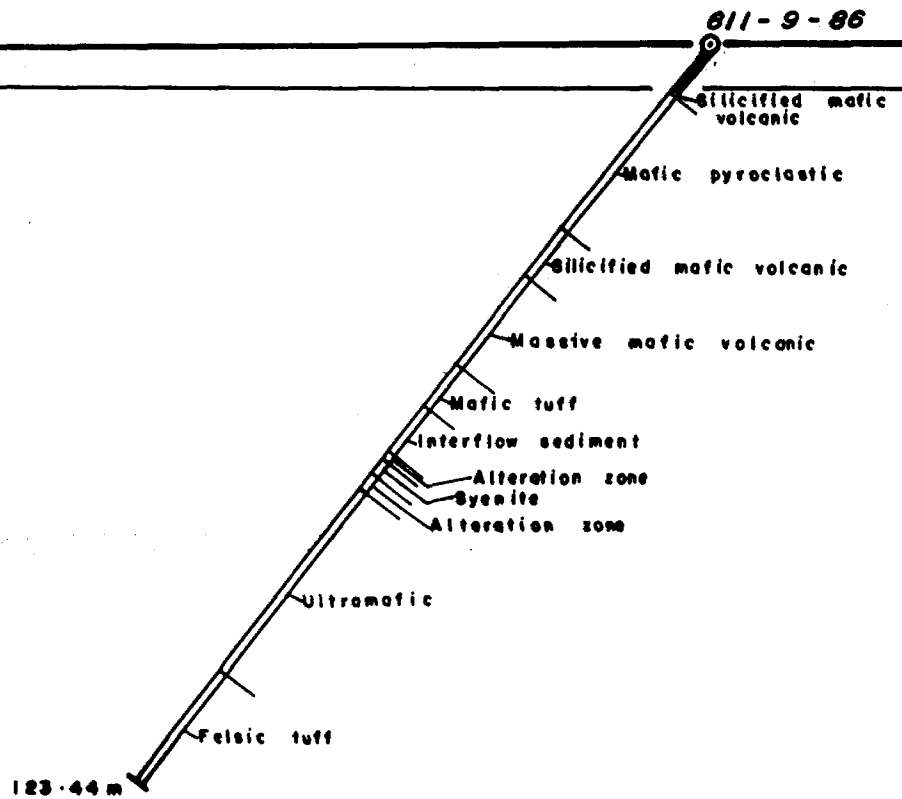
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611-9-86



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CARIO Twp.	
DRILL PLAN	
DDH 611-9-86	
SCALE: 1 : 5,000	Date: DC
Drawn: DEL	Date: 04/08/86

163°



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Exploration Division	Timmins, ONTARIO
GOLDHUNTER OPTION	
CARIO Twp.	
SECTION FOR	
DDH 611-9-86	
SCALE: 1 : 1,000	Date: C.S.B., D.R.C.
Drawn: DEL	Project N°: 611 Date: 03/07/86

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HOLE NO: 611-10-86 PAGE: 1-6

Drilled by: Philippon Diamond Drilling Inc Property: Goldhunter 611
 Started: April 16/86 Township: Cairo Twp.
 Ended: April 18/86 Logged by: D. R. Cruji

Latitude: Grid Location L BSE 100 + 00 N Longitude: 45.72 - 51°
 Azimuth: 91.44 - 47°
 Élévation: 137.76 - 45° Length: 131.98 m 182.0 - 45°

B.Q.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
0	20.73m	Casing								
20.73	25.87m	<u>Mafic Volcanic, basal flow</u> Fine grained, massive. Dark green-grey colour. Magnetite. Minor carbonate								
25.87	41.85m	<u>Ultramafic volcanic</u> Dark blue grey to green. Foliated at 45° to the core axis. Talose and strongly carbonated. Also carbonate occurs as thready veinlets; the veinlets parallel the foliation in large part but also at other angles. Strongly magnetic 31.9 - 36.96 m Mafic tuff. Green colour. Well developed foliation at from 25 to 55° to the core axis. Strong chlorite alteration, minor carbonate veins along foliation. Non-magnetic. Disseminated pyrite < 1%. Becomes more massive from 35.6 to 36.96m.								
41.85	53.0m	<u>Mafic tuff</u> Light green-grey colour. Well laminated at 45° to the core axis. Abundant white carbonate interlamination.								

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HOLE NO: 611-10-86 PAGE: 2-6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
		Inter laminations of graphite. Strong chloritization. Non-magnetic. Disseminate pyrite anhedral blebs to cubic, $\leq 1\%$.								
		41.85 - 44.92m Inter laminated mafic tuff, graphite, carbonate and up to 5% pyrite. Disrupted								
		41.85 - 42.69m Graphitic, 2-5% py								
		42.69 - 42.74m white quartz vein, at 40° to the core axis. 95% quartz plus minor carbonate and chloritic material.								
		42.6 - 43.85m Graphite, carbonate brecciated with 1-2% py.								
		44.4 - 44.7m Graphitic, 2% py	9598	41.85	42.85	1.0m	10			
		44.8 - 44.92m Graphitic, 2-3% py	9599	42.85	43.85	1.0m	Nil			
			9600	43.85	44.92	1.07m	Nil			
		51.64 - 51.8m Quartz - Carbonate lens white to pink in colour. Vuggy, minor coarse pyrite. Composed of 70% quartz vein.								
53.0	76.6m	<u>Mafic Volcanic - Basal flow</u> Dark green in colour. Medium grained, massive to foliated at 40° to the core axis. Magnetic. Relatively unaltered, minor epidotization								

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HOLE NO: 611-10-86 PAGE: 3-6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH			
		Carbonate veinlets, generally ≤ 1 cm occur at : 25° , 40° , and 70° to the core axis.							
		53.05 - 54.5m Section of a coarse carbonate lens, with carbonated mafic volcanic and 2% pyrite. The vein material is rusty white and includes fine grained specular hematite (?).	9601	53.0	54.5	1.5m	Nil		
		55.36 - 55.8m Mafic dyke Fine grained, massive. Dark green colour. Non magnetic. Irregular contacts. Carbonate, disseminated pyrite and a pink material are found at the contact within the mafic volcanic.	9602	54.5	55.36	0.86m	Nil		
76.6	81.08 m	<u>Mafic to Intermediate Tuff</u> Dark brown-grey colour. Well laminated at 55° to core axis. Silicified. Carbonated, often vuggy. Strongly magnetic. Interlaminated pyrite 2-5%, and quartz veinlets < 1 cm. Sections appear chert-like.	9604	75.6	76.6	1.0m	Nil		
		77.1 - 77.33m Variolitic bomb, irregular outline, non magnetic	9604	76.6	77.6	1.0m	Nil		
		77.1 - 77.33m Variolitic bomb, irregular outline, non magnetic	9605	77.6	78.6	1.0m	Nil		
		78.22 - 78.3m Variolitic bomb, as above.	9606	78.6	79.6	1.0m	Nil		
			9607	79.6	81.08	1.48m	Nil		

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HOLE NO: 64-10-86 PAGE: 4-6

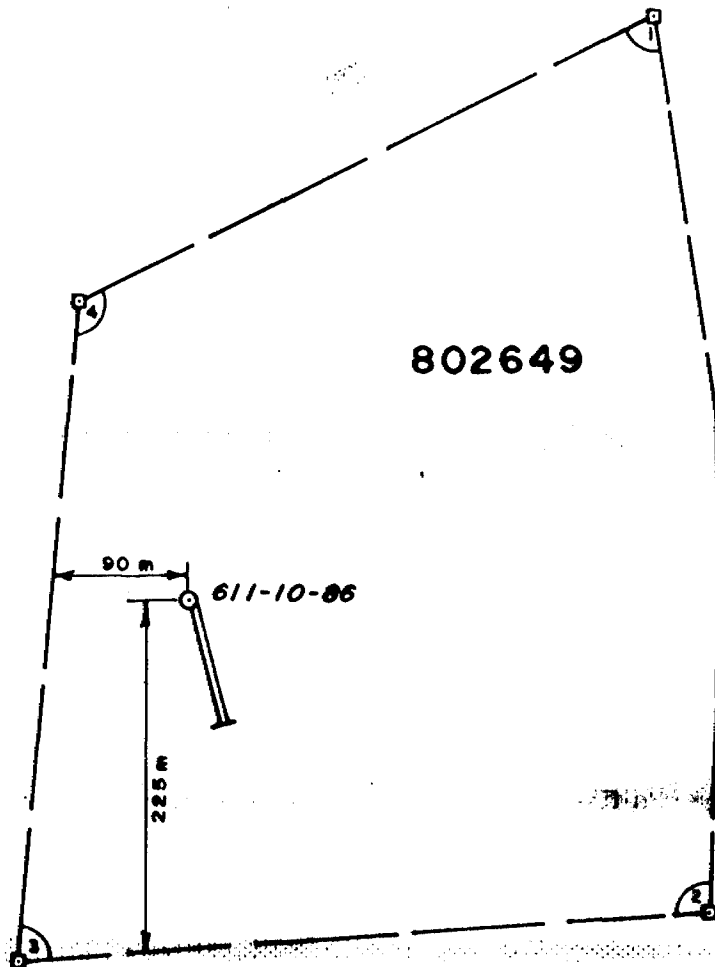
FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
81.08	83.34 m	<p><u>Ultramafic flow</u> Light green-grey colour. Fine grained, well foliated at 60° to the core axis. Soft, talcose, with inter laminated thready carbonate veins. Magnetic.</p> <p>82.25 - 82.37m Possible fault. Strongly sheared, strongly carbonated gouge material.</p> <p>82.45 - 83.34m Gradational lower contact. Varyingly epidotized and chloritized.</p> <p>83.0 - 83.34m Brecciated, composed of subangular mafic and syenitic fragments in a carbonate groundmass.</p>								
			9608	81.08	82.08	1.0 m	Nil			
			9609	82.08	83.34	1.26 m	Nil			
83.34	94.08	<p><u>Mafic Syenite</u> Mottled light pink to grey colour. Varying texture from massive to lamination at 35° to the core axis. Strongly carbonated, magnetic. Sericitized, and silicified from 83.34 to 88.0 m.</p> <p>90.0 - 93.34 m Fine grained, becoming increasingly mafic. Buff coloured. Sericitized. Disseminated pyrite, 2%.</p>								
			9610	83.34	84.34	1.0 m	Nil			
			9611	84.34	85.34	1.0 m	Nil			
			9612	85.34	86.34	1.0 m	Nil			
			9613	86.34	87.34	1.0 m	Nil			
			9614	87.34	88.34	1.0 m	Nil			
			9615	88.34	89.34	1.0 m	Nil			
			9616	89.34	90.34	1.0 m	Nil			
			9617	90.34	91.34	1.0 m	Nil			
			9618	91.34	92.34	1.0 m	Nil			
			9619	92.34	93.34	1.0 m	30			

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HOLE NO: 611-10-86 PAGE: 5-6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Am (ppb)			
94.08	112.9m	93.34 - 94.08m Mafic volcanic. Dark green colour. Fine grained, massive. Chloritized. Non magnetic. Disseminated pyrite 1-2%.	9620	93.34	94.08	0.74m	10			
		<u>Ultramafic</u> Blue-grey colour. Massive to foliated at 30° to 40° to the core axis. Soft, talcose, with abundant thready white carbonate veins at 60° to the core axis (although often very irregular). Strongly magnetic. Minor cubic disseminated pyrite.								
112.9	126.8m	110.2 - 110.3m Gouge zone, consisting of ground up ultra mafic material.								
		<u>Mafic to Intermediate Tuff + Syenite</u> Dark grey to greenish colour, with mottled pink sections. Thready quartz veins at 50 and 30° to the core axis. Chloritized, non magnetic and disseminated pyrite 1-2%. Gradational change into the ultramafic unit below.	9621 9622 9623 9624 9625 9626 9627	112.9 113.9 114.9 115.9 116.9 117.9 118.9	113.9 114.9 115.9 116.9 117.9 118.9 119.9	1.0m 1.0m 1.0m 1.0m 1.0m 1.0m 1.0m	7.1 30 60 40 10 180 70			
		119.8 - 120.8m Irregular quartz lens. Grey colour. Composed of 45% vein and chloritized mafic and syenite host								

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Am (gds)			
		Coarse cubic pyrite in the host rock material $\leq 1\%$.	9628	119.8	120.8	1.0m	40			
			9629	120.8	121.8	1.0m	Z:1			
			9630	121.8	122.8	1.0m	10			
			9631	122.8	123.8	1.0m	Z:1			
			9632	123.8	124.8	1.0m	20			
			9633	124.8	125.8	1.0m	Z:1			
			9634	125.8	126.8	1.0m	Z:1			
126.8	131.98m	<u>Ultramafic</u> Dark grey, with blue tinge. Massive to vague foliation at 50° to 55° to the core axis. Soft, talcose with only minor thready quartz carbonate veins paralleling the foliation. Magnetic.								
131.98m		End of Hole								
		Note: Casing left in the hole.								



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90 m

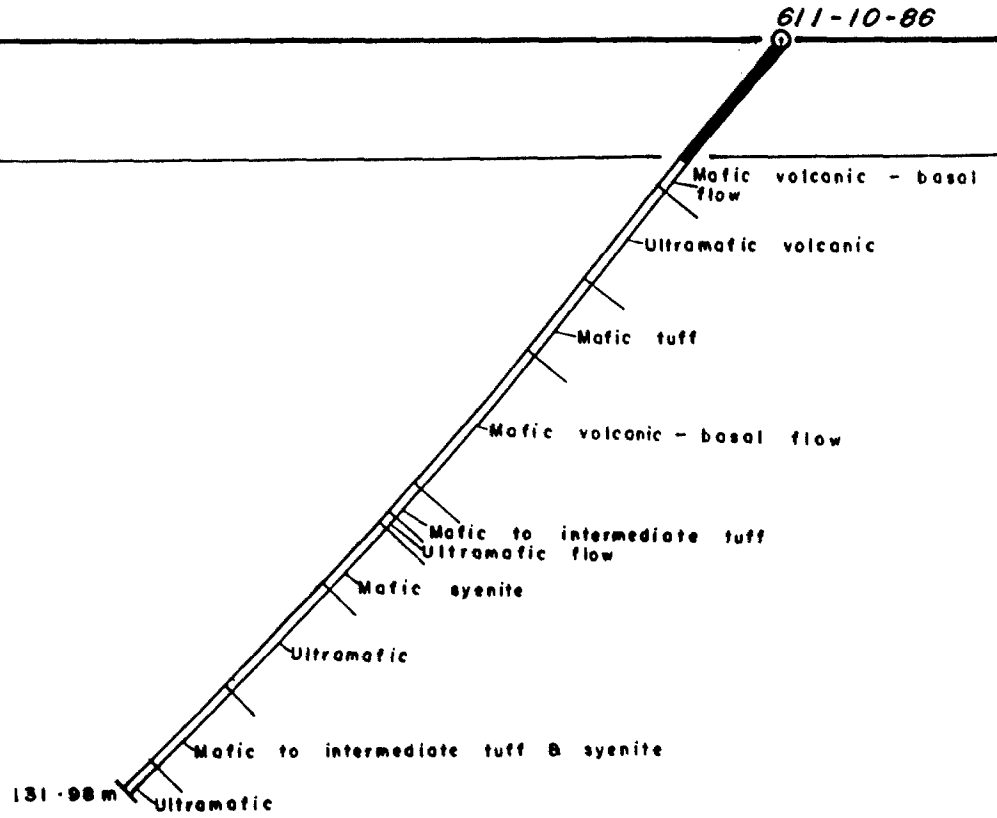
611-10-86

225 m



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DDH 611-10-86	
SCALE: 1 : 5,000	Date: DC
Drawn: DEL	Project N ^o : 611
	Date: 04/06/86

165° ←



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CARIO Twp.		
SECTION FOR		
DDH 611-10-86		
SCALE: 1 : 1,000	Data: CSB, DRC	
Drawn: DEL	Project N°: 611	Date: 03/07/86

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HOLE NO: 611-11-86 PAGE: 1-5

Drilled by: Philippon Diamond Drilling Inc Property: Goldhunter 611
 Started: April 21/86 Township: Cairo Twp.
 Ended: April 24/86 Logged by: D. R. Cruji

Latitude: Grid L 84E Longitude: 16.46m 50°
 Location 102 + 75 N Dip: -50° 45.72m 50°
 Azimuth: 91.41m 47°
 Élévation: Length: 200.86m 137.16m 47°

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
0	16.46m	Casing								
16.46	79.5m	<u>Mafic Volcanic, basal flow</u> Dark green colour. Massive, medium grained and generally becoming finer grained down section. Strongly magnetic. Minor carbonate and minor irregular, patchy quartz-carbonate lenses. 16.46 - 18.5m Chloritic fragments. Coarse grained, subrounded and up to 2-3cm in size. 65.4 - 71.4m Granite. Pink-buff colour. Massive medium grained. Non magnetic. Free quartz as subrounded grains, up to 5mm. 67.44 - 67.74m Quartz vein, trace pyrite as blebs. Fractured and grey colour. Upper contact at 75° and lower contact at 55° to the core axis. 68.28 - 68.36m Quartz vein, as above but with 20% granite inclusions. At 75° to core axis. 68.36 - 68.6 Irregular Quartz veinlets								
			9635	67.44	68.6	1.16m	Nil			

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HOLE NO: 611-11-86 PAGE: 2-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
79.5	200.86m	<p><u>Granite</u> Rusty pink colour. Medium grained, massive with approximately 10% free quartz. Epidote occurs as scattered clots and along fractures. Generally non-magnetic. Pyrite is finely disseminated and along fractures, <1%.</p> <p>79.5 - 83.52m Darker grey contaminated, more mafic granite.</p> <p>84.1 - 84.97m Mafic dyke Black to green-black colour. Fine grained, massive. Strongly magnetic. Cuts the section at 30° to the core axis.</p> <p>87.43 - 88.02m Mafic dyke - as above. Irregular and patchy because it is running along the core axis (at 0°)</p> <p>88.52 - 88.56m Quartz vein. Smokey grey consisting of 90% quartz with carbonate and chlorite along fractures. Minor pyrite at the contact. Trending at 75° to the core axis.</p> <p>102.14 - 102.2m Quartz vein, unmineralized, at 75° to the core axis.</p> <p>103.27 - 104.33 Quartz vein, at 70° to the core axis. Consists</p>								

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HOLE NO: 611-11-86 PAGE: 3-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		of ~95% quartz with chlorite, magnetite and pyrite along fractures.								
106.85	106.89 m	Smoky grey quartz vein with epidote at the margins. Trending at 80 to 90° to the core axis.								
108.08	108.38 m	Quartz (+ carbonate) veins, trending at 55° to the core axis. Minor pyrite, chlorite.								
108.78	108.86 m	Unmineralized quartz veins, trending 70° and 50° to the core axis.	9636	108	109	1.0m	Nil			
111.6	111.66 m	Quartz vein trending at 75° to the core axis.								
121.87	122.08 m	Quartz vein with granitic inclusions, 80% quartz. Trending at 80° to the core axis.	9637	121.5	122.5	1.0m	Nil			
122.23	122.29 m	Quartz vein at 85° to the core axis.								
135.16	137.52 m	Mafic intrusion or an inclusions. Dark green-grey colour. Fine grained, massive. Irregular contacts and mixed with the granite, 50/50. Strong chlorite alteration. Non magnetic.								
142.32	142.36 m	Quartz vein at 70° to the core axis.								
150.8	152.8m	Vesicular section A more fleshy - pink colour								

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HOLE NO: 611-11-86 PAGE: 4-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH				
		The epidote alteration products have weathered out leaving vugs. Quartz grains are largely absent.								
		156.49 - 156.54m Quartz - carbonate vein breccia with granitic inclusions trending at 60° to the core axis.								
		180.05 - 180.15m Quartz vein with granite inclusions. Minor chlorite and carbonate. Trending at 70° to the core axis.								
		189.0 - 195.68m More silicified, quartz and potash veined section. Generally two vein orientations: 25° for the potash veins and 70° for the quartz veins.								
		189.35 - 189.8m Quartz vein at from 70° to 90° to the core axis. Composed of 70% quartz with granite inclusions and carbonate and chlorite along fractures.								
		191.14 - 191.24m Quartz vein, unmineralized trending at 60° to the core axis. 90% quartz with granite inclusions								
		195.54 - 195.6m Quartz vein trending at 45° to the core axis. Chlorite along the fractures.								
		200.27 - 200.23m Quartz vein at 80° to the core axis. As above.								

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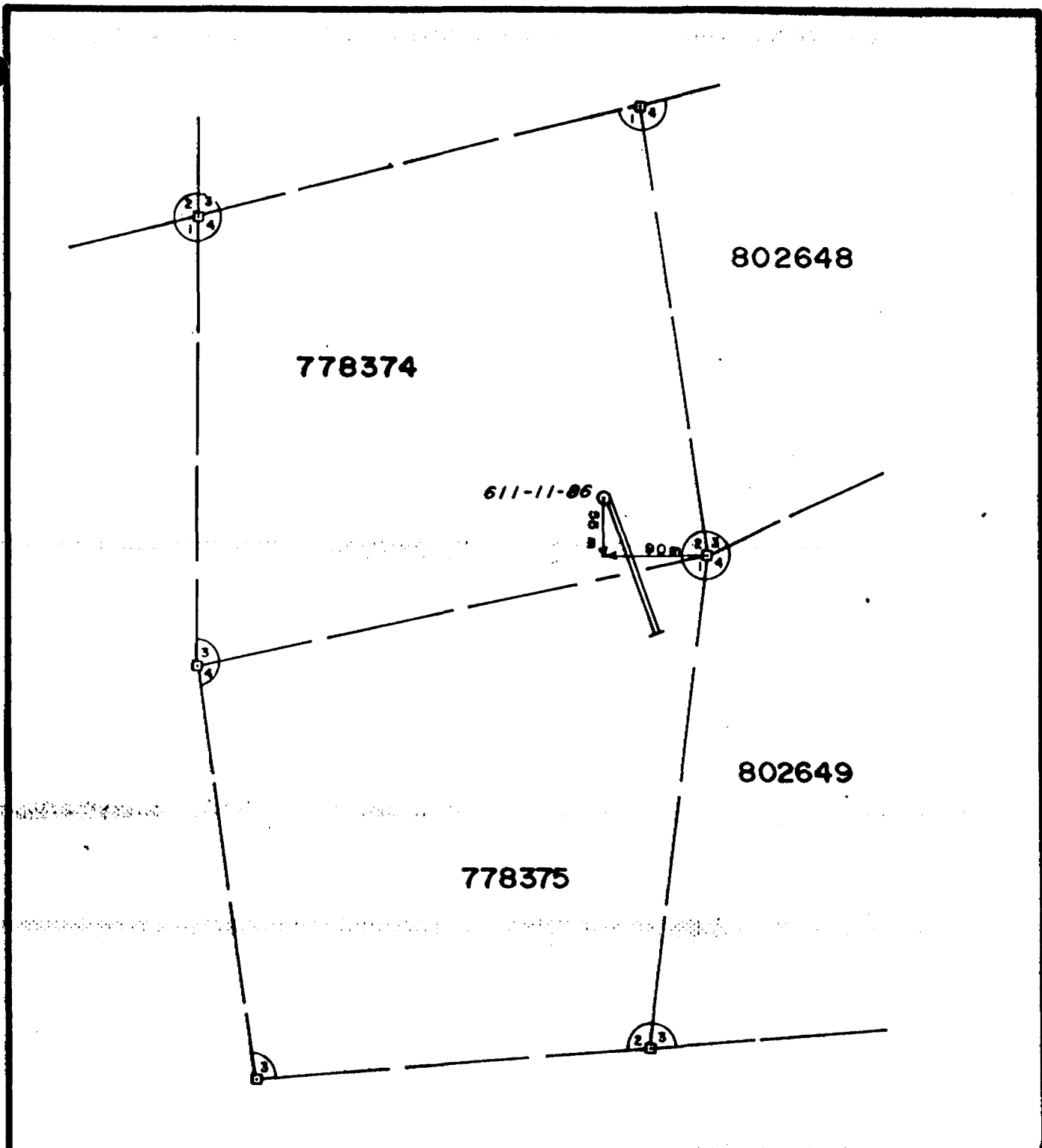
HOLE NO: 611-11-86 PAGE: 5-5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	As (ppb)			
			9638	189.0	190.0	1.0m	Nil			
			9639	190.0	191.0	1.0m	Nil			
			9640	191.0	192.0	1.0m	Nil			
200.86		End of Hole								

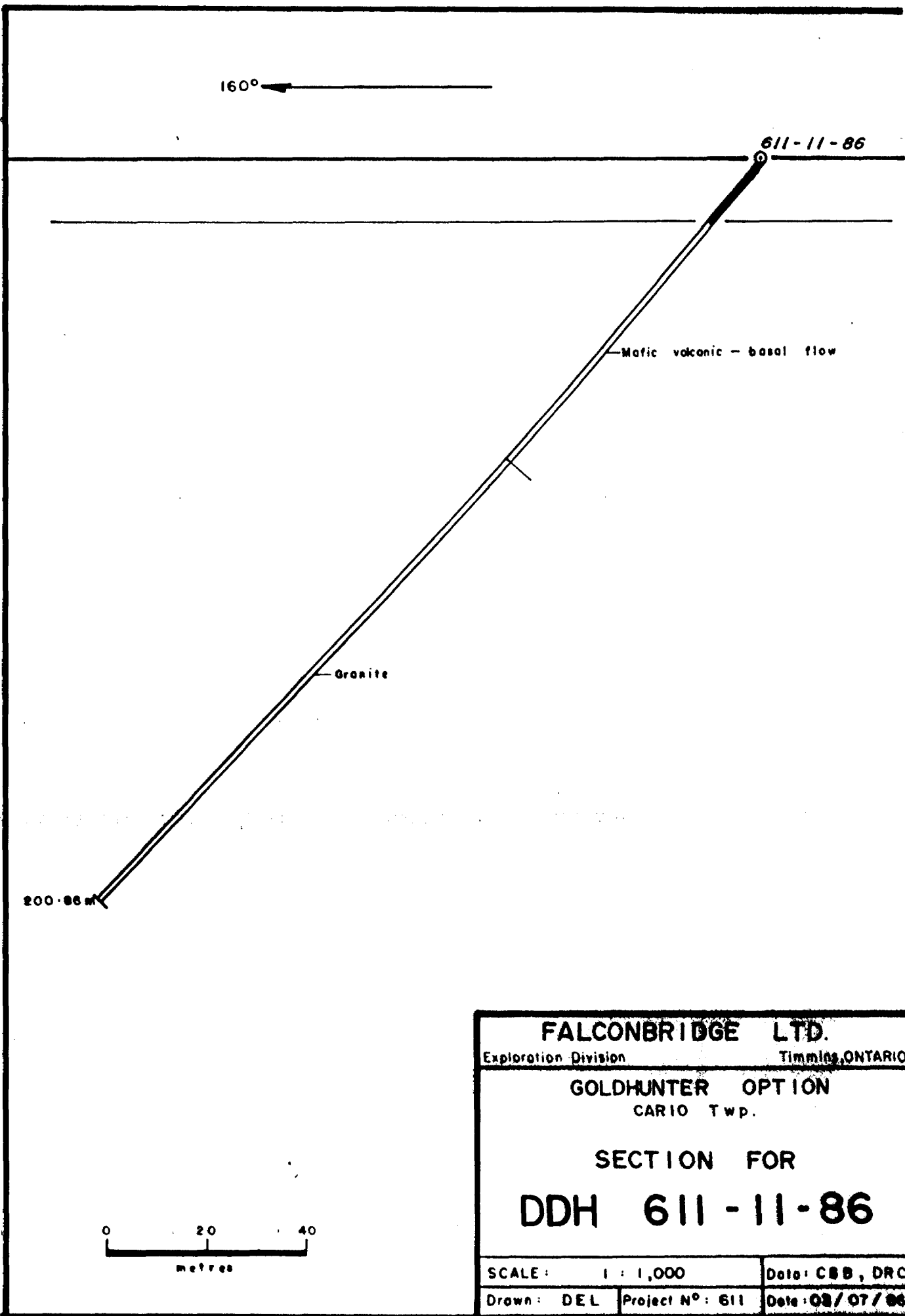
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DDH 611-11-86	
SCALE: 1 : 5,000	Date: DC
Drawn: DEL	Project N°: 611
	Date: 04 / 06 / 86



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GOLDHUNTER OPTION	
CARIO Twp.	
SECTION FOR	
DDH 611-11-86	
SCALE: 1 : 1,000	Date: CBB, DRC
Drawn: DEL	Project No: 611
	Date: 02/07/86

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HOLE NO: 611 - 12 - 86 PAGE:

Drilled by: Philippon Diamond Drilling Inc. Property: Goldhunter 611
 Started: April 24/86 Township: Cairo Twp.
 Ended: April 27/86 Logged by: D.R. Cruij

Latitude: Grid 87 50 E Longitude: CORR.
 Location 103 N 18.29m 48°
 Azimuth: 090° 45.72m 48°
 Élévation: Length: 127.7m 91.44m 45°

BQ.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
0	18.29 m	Casing								
18.29	31.54 m	<u>Felsic Volcanic - Dacitic</u> Pink to buff to green colour. Tuffaceous and generally well laminated at 50° to the core axis. The laminations are often disrupted to brecciated, with fragments of up to 4cm, especially at the contacts: 18.29 to 22.98m and 30.0 to 31.54m. Variably silicified to chloritic, sericitic. Carbonated and minor quartz blebs. Finely disseminated pyrite ±1%. 22.98 - 29.5m Well laminated tuffaceous, sericitic section	9641 9642 9643 9644 9645 9646 9647 9648 9649 9650 9651 9652 9653 9654	18.29 19.29 20.29 21.29 22.29 22.98 23.98 24.98 25.98 26.98 27.98 28.98 29.98 30.98	19.29 20.29 21.29 22.29 22.98 23.98 24.98 25.98 26.98 27.98 28.98 29.98 31.54	1.0m 1.0m 1.0m 1.0m 0.69m 1.0m 1.0m 1.0m 1.0m 1.0m 1.0m 1.0m 1.0m 0.56m	Nil Nil Nil Nil Nil 130 70 50 220 10 10 Nil Nil 60			
31.54	37.8m	<u>Mafic Dyke - Diabase</u> Dark green to dark grey colour. Massive, fine to medium grained. Epidote alteration. Silicified, thready								

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HOLE NO: 611-12-86 PAGE: 3-6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppb)			
		60% vein material. Coarse disseminated pyrite <1%. Trending at 30° to the core axis.								
			9658	41.2	42.2	1.0m	Nil			
			9659	42.2	43.2	1.0m	Nil			
			9660	43.2	44.1	0.9m	Nil			
			9661	44.1	45.1	1.0m	Nil			
			9662	45.1	46.1	1.0m	Nil			
			9663	46.1	47.1	1.0m	Nil			
			9664	47.1	48.1	1.0m	Nil			
			9665	48.1	49.1	1.0m	Nil			
48.57	65.63m	<u>Intermediate to Felsic Tuff</u> Light grey colour. Well laminated tuffaceous with sections lapilli and disrupted (appears brecciated). Lamination at ~ 25° to core axis. Chloritic and sericitic with variable silicification. Minor quartz veins from at 10 to 15° to the core axis to irregular orientation. 58.04 - 58.6m Quartz vein at 10 to 15° to the core axis. Composed of 30% quartz with ~1% pyrite. 62.22 - 62.6m Quartz vein at 10° to 15° to the core axis. Composed of 20% quartz vein with ~1% pyrite at the contacts.								

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HOLE NO: 611-12-86 PAGE: 4-6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Am (ppb)			
65.63	95.1m	<u>Intermediate Tuff</u> Steel grey to green grey colour. Well laminated tuffaceous at 25 to 30° to the core axis. Narrow sections are lapilli tuff (veiging on pyroclastic). Silicified, cherty sections Sericitized and a lesser proportion of chlorite. Quartz veins at from 0 to 35° to the core axis. Potash occurs along the fractures. Pyrite is disseminated and along fractures, ~1%. 80.00 - 95.1 Generally becoming more mafic in composition.								
			9666	65.63	67.13	1.5m	10			
			9667	67.13	68.63	1.5m	Nil			
			9668	68.63	69.9	1.27m	Nil			
			9669	69.9	71.3	1.4m	Nil			
			9670	71.3	72.75	1.45m	Nil			
			9671	72.75	74.2	1.45m	Nil			
			9672	74.2	75.6	1.4m	10			
			9673	75.6	77.11	1.51m	10			
			9674	77.11	78.55	1.44m	Nil			
			9675	78.55	80.00	1.45m	Nil			
			9676	80.00	81.21	1.21m	Nil			
			9677	81.21	83.0	1.79m	Nil			
			9678	83.0	83.64	0.64m	Nil			
			9679	83.64	85.05	1.41m	Nil			
			9680	85.05	86.43	1.38m	Nil			
			9681	89.44	90.6	1.16m	Nil			
			9682	90.6	92.07	1.47m	Nil			
			9683	92.07	93.5	1.43m	Nil			
			9684	93.5	95.1	1.6m	Nil			

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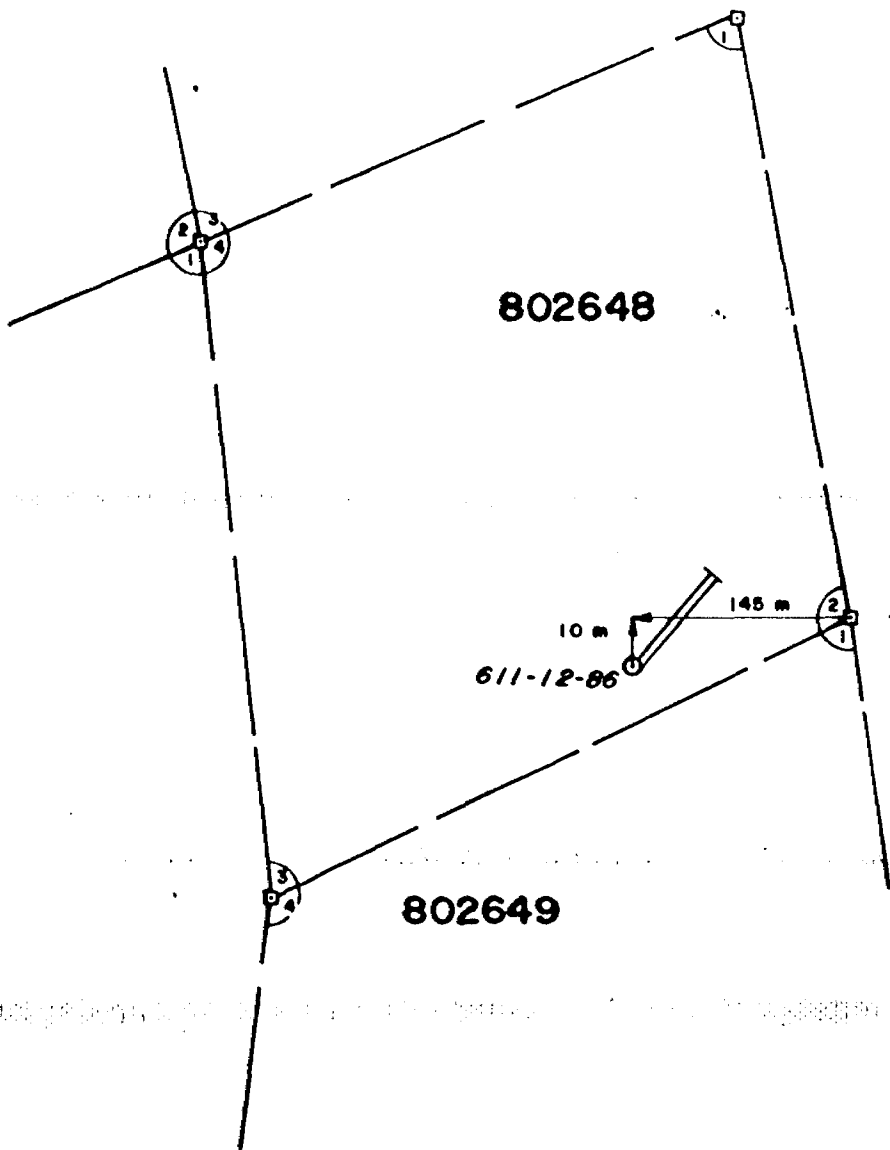
HOLE NO: 611-12-86 PAGE: 5-6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au (ppm)			
95.1	116.4 m	<u>Mafic Volcanic</u> Dark green colour. Vague to well foliated but generally becoming medium grained and more massive below 108.8m. Foliation at 40-45° to the core axis. Epidote and chlorite alteration, often occurring with quartz lenses. Arcuate epidote sections possibly represent pillow margins. Silicified. Carbonated along fractures. Disseminated pyrite < 1%.								
		108.4 - 108.8 m Syenite Grey - rusty red colour. Porphyritic, subangular feldspar phenocrysts of up to 4mm in an aphanitic groundmass. Fractured at 50° to the core axis. Very fine pyrite ± 1%.	9685	108.4	108.8	0.4 m	Nil			
116.4	125.05m	<u>Felsic Volcanic</u> Purple grey colour. Aphanitic (chert-like), foliated, possibly tuffaceous texture, at 50° to the core axis. Disrupted to pyroclastic in sections. Very siliceous. Interlaminated carbonate. Thready carbonate veinlets cross-cut the foliation at 45 - 50° to the core axis. Irregular quartz lenses, dark grey colour, occur throughout. Minor disseminated pyrite.	9686 9687 9688 9689 9690 9691 9692	116.4 117.4 118.4 119.4 120.4 121.4 122.4	117.4 118.4 119.4 120.4 121.4 122.4 123.7	1.0 m 1.0 m 1.0 m 1.0 m 1.0 m 1.0 m 1.3 m	Nil 10 10 Nil Nil Nil Nil			
		122.4 - 122.45 m Fine grained carbonaceous section at 45° to the core axis. Magnetic								
		123.7 - 125.05 Gradational change into dark grey to black carbonaceous								

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HOLE NO: 611-12-86 PAGE: 6-6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Av (ppb)			
		unit. continues to be fine grained to aphanitic tuff. Silicified, well laminated.								
		123.7 - 124.4 Magnetic.	9693	123.7	125.05	1.35m	10			
125.05	127.3	<u>Mafic Dyke</u> Black colour. Fine grained, massive. Salt and pepper texture. Magnetic								
		126.95 - 127.3m More strongly altered section. Chloritized and carbonate along the fractures. The fractures trend at 30-35° to the core axis	9694 9695	125.05 126.5	126.5 127.3	1.45m 0.8m	Nil Nil			
127.3	~127.7	<u>Fault Zone</u> . The core is strongly altered, carbonated. The section is composed of subrounded mafic (chloritic) fragments at the top and becomes very earthy and ground up until the hole was lost. Also gravel sized quartz veined breccia found in this section.								
127.7m		End of hole								



802648

802649

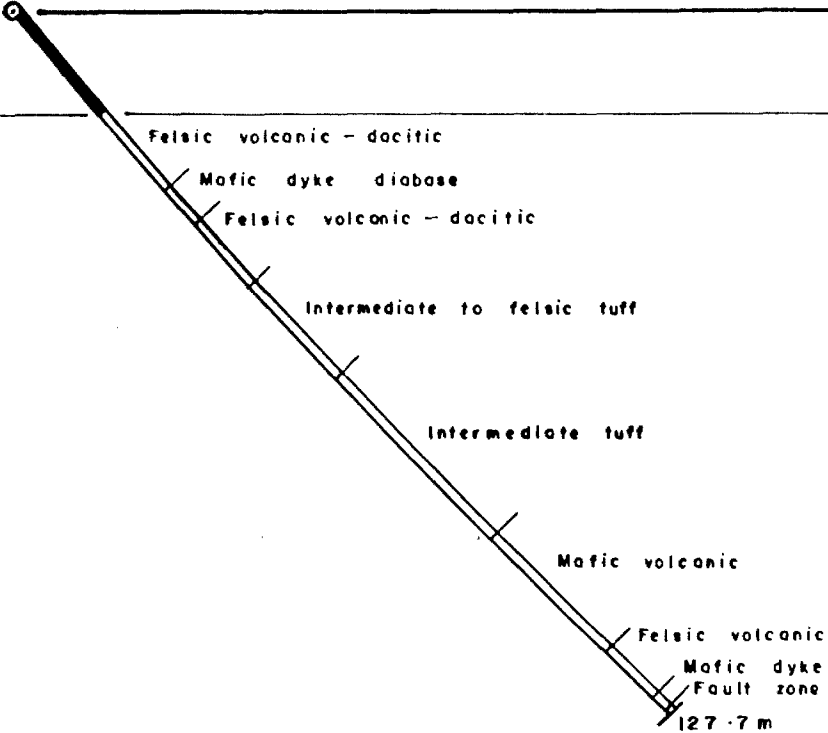
10 m
145 m
611-12-86



FALCONBRIDGE LTD.	
Exploration Division	Timmins, ONTARIO
GOLDHUNTER OPTION	
CARIO Twp.	
DRILL PLAN	
DDH 611-12-86	
SCALE: 1 : 5,000	Date: DC
Drawn: DEL	Project N°: 611
	Date: 05/06/86

040°

611-12-86



FALCONBRIDGE LTD.

Exploration Division

Timmins, ONTARIO

GOLDHUNTER OPTION

CARIO Twp.

SECTION FOR

DDH 611-12-86

SCALE: 1 : 1,000

Date: CSB, DRC

Drawn: DEL

Project No: 611

Date: 03/07/86

AU GEOCHEMISTRY

Drill Hole no: Goldhunter 611-2-86

Township: Cairo

Log Summary			Geochemistry Sample				
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remark
0	4.27	Casing					
4.27	13.97	Variolitic Basalt	8211	4.27	11.18	3	Composit
				11.28	13.97		Split
13.97	24.94	Silicified Fe Tholeiite					Split
24.94	27.41	Brecciated Felsic Fragment					Split
27.41	32.61	Silicified Fe Tholeiite					Split
32.61	38.1	Altered Ultramafic	8212	32.61	38.1	<1	Composit
38.1	125.97	Interm-Felsic Volcanics	8213	38.1	46.9	<1	"
				46.9	47.04		Split
			8214	47.04	63.69	<1	Composit
				63.69	64.9		Split
			8215	64.9	85.0	<1	Compos.
			8216	85.0	105.96	<1	"
			8217	105.96	107.22	1800	"
				104.96	108.22		Split
			8218	107.22	122.2	<1	Composit
				122.2	125.97		Split
125.97	167.8	Interbedded Mafic Pyroclastic & Graphite	8219	125.97	138.5		Composit
				138.5	138.71	<1	Split
			8219	138.71	140.16		Composit
				140.16	142.94		Split
			8220	142.94	148.03	<1	Composit
				148.03	149.9		Split
			8221	149.9	151.6	<1	Composit
				151.6	151.9		Split
			8221	151.9	161.62		Compos.
				161.62	162.52		Split
			8222	162.52	167.8	<1	Composit.
167.8	168.15	contact zone or poss. Mafic Dyke					
168.15	170.08	Mafic Tuff	8223	167.8	170.08	<1	Compos.
170.08		End of Hole					

AU GEOCHEMISTRY

Diamond Drill Hole no: Goldhunter 611-4-86

Township: Cairo

Log Summary

Geochemistry Sample

<u>Location (m)</u> From To		<u>Rock type</u>	<u>Sample no.</u>	<u>Location (m)</u> From To		<u>Au (ppb)</u>	<u>Remarks</u>
0	3.05	Casing					
3.05	67.91	Mafic/Interm. Vlc. - Andesite	8236	3.05	26.3	<1	Composite
			8237	26.3	49.54	10	"
			8238	49.54	61.91	5	"
				61.91	67.91		Split
67.91	68.48	Felsic Volcanics		67.91	68.48		"
68.48	73.15	Silicified Mafic/Interm Pyroclastic		68.48	73.15		"
73.15	79.87	Diorite	8239	73.15	79.87	<1	Composite
79.87	124.36	Mafic/Interm. Volcanics		79.87	91.44		Split
			8240	91.44	98.93	<1	Composite
				98.93	101.31		Split
			8240	101.31	106.64		Composite
			8241	106.64	107.93	4	"
			8240	107.93	116.04		"
				116.04	119.54		Split
			8240	119.54	124.36		Composite
124.36		End of Hole					

AU GEOCHEMISTRY

Diamond Drill Hole no: Goldhunter 611-5-86 Township: Cairo

Log Summary			Geochemistry Sample				
<u>Location (m)</u> From To		<u>Rock type</u>	<u>Sample no.</u>	<u>Location (m)</u> From To		<u>Au (ppb)</u>	<u>Remarks</u>
0	2.44	Casing					
2.44	27.88	Tuff wacke	82 42	2.44	27.88	3	Composite
27.88	33.48	Mafic Flaw-Tholeiite	82 43	27.88	30.1	1	"
				30.1	30.58		Split
			82 43	30.58	33.48		Composite
33.48	106.43	Interflow Sediment		33.48	35.12		Split
			82 44	35.12	43.0	2	Composite
				43.0	53.65		Split
			82 45	53.65	59.86	< 1	Composite
			82 46	59.86	89.9	1	"
			82 47	89.9	92.61	1	"
			82 46	92.61	96.24		"
			82 48	96.24	97.72	< 1	"
			82 46	97.72	106.43		"
106.43	108.31	Feldspar porphyry	82 49	106.43	108.31	< 1	"
108.31	116.1	Chloritic Mafic Tuff	82 50	108.31	109.04	< 1	"
			82 49	109.04	109.14		"
			82 50	109.14	109.95		"
			82 49	109.95	110.17		"
			82 50	110.17	116.1		"
116.1	129.95	Mafic Volcanic	82 51	116.1	124.47	6	"
				124.47	129.95		Split
129.95	137.02	Altered Ultramafic	82 52	129.95	137.02	3	Composite
137.02	159.41	Diorite	82 53	137.02	146.58	< 1	"
			82 54	146.58	159.41	< 1	"
159.41		End of Hole					

AU GEOCHEMISTRY

Drill Hole no: Goldhunter 611-8-86 Township: Cairo

Log Summary			Geochemistry Sample				
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remark
0	2.44	Casing					
2.44	20.7	Tholeiite	8270	2.44	4.88	3	Composite
				4.88	6.16		Split
			8270	6.16	20.0		Composite
				20.0	20.7		Split
20.7	48.0	Altered Mafic Volcanic	8271	20.7	22.0	<1	Composite
				22.0	23.5		Split
			8271	23.5	48.0		Composite
48.0	69.5	Silicified Mafic Volcanic	8272	48.0	50.93	<1	"
				50.93	51.8		Split
			8272	51.8	59.38		Composite
				59.38	69.5		Split
69.5	97.3	Tholeiite	8273	69.5	82.74	<1	Composite
			8274	82.74	95.2	<1	"
				95.2	97.3		Split
97.3	108.65	Felsic Pyroclastic		97.3	108.65		Split
108.65	176.42	Tholeiite	8275	108.65	109.33	<1	Composite
				109.33	110.6		Split
			8275	110.6	123.48		Composite
			8276	123.48	134.9	<1	"
			8277	134.9	146.46	<1	"
			8278	146.46	158.03	<1	"
			8279	158.03	169.88	<1	"
			8280	169.88	176.42	1	"
176.42	193.85	Mafic Volcanic	8281	176.42	177.5	<1	"
				177.5	189.4		Split
			8281	189.4	193.85		Composite
193.85		End of Hole					

AU GEOCHEMISTRY

Diamond Drill Hole no: Goldhunter 611-9-86 Township: Cairo

Log Summary			Geochemistry Sample				
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remarks
0	7.93	Casing					
7.93	8.16	Silicified Mafic Volcanic		7.93	8.45		Split
8.16	31.99	Mafic Pyroclastic	8282	8.45	9.00	<1	Composite
				9.00	10.0		Split
			8282	10.0	20.57		Composite
			8283	20.57	22.9	<1	"
			8282	22.9	28.4		"
				28.4	31.99		Split
31.99	39.85	Silicified Mafic Volcanic	8284	31.99	39.85	<1	Composite
39.85	54.55	Massive Mafic Volcanic	8285	39.85	45.9	<1	"
			8286	45.9	47.76	<1	"
			8285	47.76	54.55		"
54.55	61.58	Mafic Tuff		54.55	61.58		Split
61.58	69.05	Interflow Sediment		61.58	69.05		Split
69.05	70.93	Alteration Zone		69.05	70.93		Split
70.93	72.95	Syenite		70.93	72.95		Split
72.95	75.8	Alteration Zone		72.95	75.8		Split
75.8	105.35	Altered Ultramafic		75.8	76.8		Split
			8287	76.8	78.2	58	Composite
			8288	78.2	79.1	<1	"
			8287	79.1	88.9		"
				88.9	92.35		Split
			8289	92.35	96.0	2	Composite
			8290	96.0	96.73	6	"
			8289	96.73	105.35		"
105.35	123.44	Felsic Tuff		105.35	123.44		Split
123.44		End of Hole					

Assess. Lib.

268/86



41P15NE8667 17 CAIRO

900

Cairo Sup.

Mining /

Name and Postal Address of Recorded Holder: **Falconbridge Limited 'Cairo Township'**
 P.O. Box 1140, 571 Moneta Avenue, Timmins, Ontario P4N 7H9

Prospector's Licence No.: **A-21647**

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 5792	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only)		see							
<input type="checkbox"/> Manual Work		attached							
<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work.		list							
<input type="checkbox"/> Compressed Air, other Power driven or mechanical equip.		63 days							
<input type="checkbox"/> Power Stripping									
<input checked="" type="checkbox"/> Diamond or other Core drilling									
<input type="checkbox"/> Land Survey									

All the work was performed on Mining Claim(s): see attached list

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Philippon Diamond Drilling
829 Boul. Quebec
Box 788
Rouyn, Quebec
J9X 5C7
819-762-7731

1766.91 metres Drilling (5797 feet)

*note 5797 Days of work submitted

Drilling started: March 11, 1986
finished: April 27, 1986

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE

AUG 13 1986

RECEIVED

RECORDED

JUL 16 1986

Receipt #

RECEIVED

JUL 16 1986

9:30 am

Date of Report July 15, 1986	Recorded Holder or Agent (Signature) <i>C. S. Bruce</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
C.S. Bruce P.O. Box 1140, 571 Moneta Avenue
Timmins, Ontario P4N 7H9

Date Certified: July 15, 1986
Certified by (Signature): *C. S. Bruce*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work /operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		

All the work was performed on Mining Claims:

802370, 802458, 802649, 843882, 778374, 802607, 843158, 843160, 843159,
821306, 778375, 802648

Distribution of credits:

<u>Mining Claim</u> <u>Number</u>	<u>Work</u> <u>Days Credit</u>	<u>Mining Claim</u> <u>Number</u>	<u>Work</u> <u>Days Credit</u>
842978	200	821314	88
843882	200	821315	88
843890	200	821585	88
		821591	88
843159	88	821592	88
843160	88	821593	88
843161	88	842977	88
843162	88	843153	88
843163	88	843154	88
843164	88	843155	88
843165	88	843156	88
843166	88	843157	88
843167	88	843158	88
843168	88	778374	88
843169	88	778375	88
843170	88	800638	88
843347	88	800639	88
843348	88	800640	88
843349	88	800641	88
843350	88	800642	88
843883	88	800643	88
802602	88	802370	88
802603	88	802455	88
802607	88	802456	88
802648	88	802457	88
802649	88	802458	88
803508	88	802459	88
803509	88	802460	88
821304	88	802461	88
821306	88	802600	88
821312	88	802601	88
821313	88		

Total Days credit: 5792

62 claims

1986 DIAMOND DRILLING
GOLDHUNTER OPTION
CAIRO TOWNSHIP
NTS: 41-P-15

<u>DRILL HOLE</u>	<u>DEPTH</u>
611-1-86	168.25
611-2-86	170.08
611-3-86	154.23
611-4-86	124.36
611-5-86	159.41
611-6-86	131.67
611-7-86	81.08
611-8-86	193.85
611-9-86	123.44
611-10-86	131.98
611-11-86	200.86
611-12-86	<u>127.70</u>

Total 1799.91 metres
5797.00 feet

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
Area west of West Montreal River	NRW 6583	08/11/83	M.R. & S.R.	

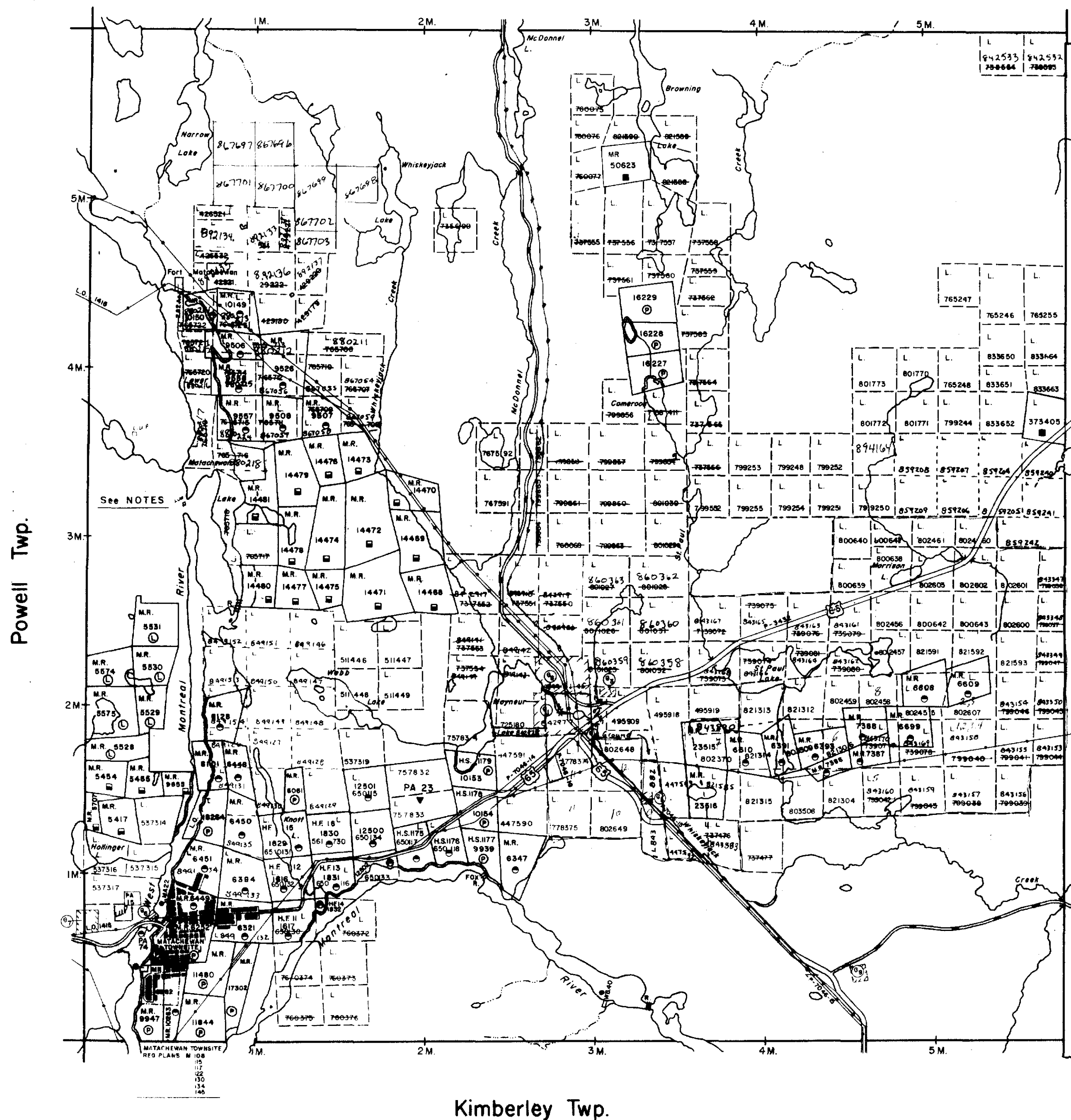
SAND and GRAVEL

⊙	M.T.C.	Gravel	Pit 206
⊙	M.T.C.	Gravel	Pit 1313
⊙	Gravel	Pit	205
⊙	Gravel	Pit 204, File	127307
⊙	Gravel	Pit	
⊙	M.T.C.	Pit 3F-4, File	127307
⊙	M.T.C.	Gravel	Pit 3F-21
⊙	M.T.C.	Pit	3F-28

NOTES

AREA WEST OF WEST MONTREAL RIVER CLOSED TO STAKING SUBJECT TO SEC 38(f) OF THE MINING ACT, 20 SEPT. 1978.

Alma Twp.



LEGEND

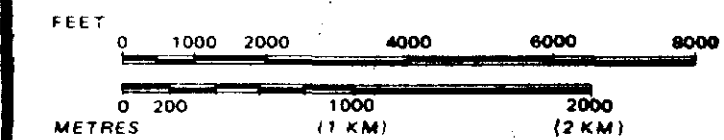
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- 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	⊙ or ●
" SURFACE RIGHTS ONLY	⊙
" MINING RIGHTS ONLY	●
LEASE, SURFACE & MINING RIGHTS	⊙ or ●
" SURFACE RIGHTS ONLY	⊙
" MINING RIGHTS ONLY	●
LICENCE OF OCCUPATION	L.O. or ▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊙
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 43, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

CAIRO

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

TIMISKAMING



Date JANUARY 1985

Number

G-3209



41P15NE6687 17 CAIRO