GM 13251

16 DDH LOGS WITH ASSAYS (HOLE D-9 DEEPENED)

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DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 9 (deepened)

Core size : AX

Logged by : R. J. M. Miller

Bearing : North

Latitude : 15 ± 00 North

Departure : 25 ± 00 East

Started : July 30, 1962

Finished : August 7, 1962

Dip at collar : 65°

" " 1,100' : 39°

" " 1,364' : 38°

D- 9 (deepened)

862- 877 Meta-Gabbro

Medium-grained, relatively fresh. 5 to 8% magnetite. Minor epidote.

877- 935 Ditto

Very fine-grained, possible basalt except appears to have chilled edges. Contacts at 50° and 20° CN. Central part is slightly coarser-grained than edges. Slightly magnetic, coarser section has 3 to 5% magnetite.

935- 969 Meta-Gabbro

Same as section 862-877.

969- 984 Ditto

Very fine-grained. Same as section 877-935. Scattered epidote veinlets with hematite along joint surfaces.

984-1,004 Ditto

Medium to coarse-grained. Light shearing at 45° CN from 989' to 992'. Scattered epidote veinlets at 45° to 60° CN. Hematite along joint planes. App. 5% magnetite.
Lower contact at 50° CN.

D- 9 (deepened)

1,004-1,196 Meta-Gabbro

Coarse-grained. Acicular amphibole, moderately magnetic.

1,018-1,035 somewhat finer grainer, scattered opalescent quartz eyes and minor sulphides, mostly Py, slight increase in chlorite and epidote alteration.

From 1.035 ,medium to coarse-grained, scattered quartz eyes. Traces of sulphides.

1,069-1,071 epidotized along joints.

From 1,071 very coarse to coarse-grained meta-gabbro. Some sections approach anorthosite in composition.

1,196-1,304 Tuffite

Uniformly layerred at 30° to 40° Cn. This rock is actually a chlorite-quartz-amphibole schist. Scattered sulphide veinlets with minor Cp i.e. 1,232', 1,272', 1,291' etc.. Moderately jointed along banding.

1,304-1,335 Transition Zone

Largely amphibole, possible basic meta-volcanic or amphibolitized tuffite.

1,317-1,320 abundant magnetite veinlets at 10° to 20° CN.

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 13

Core size : AX

Logged by : R. J. M. Miller

Bearing : N 48° E

Latitude : 3 ± 50 NORTH [redacted]

Departure : 6 ± 00 East

Started : July 5, 1962

Finished : July 7, 1962

Dip at collar : 45°

" " 200' : 43°

D- 9 (deepened)

1,335-1,404 Meta-Gabbro

Medium to fine-grained. Light to medium chlorite alteration throughout. Moderately magnetic throughout.

End of hole : 1,404'

Note; casing left in hole

D- 13

0 - 92 Casing

92 - 104 Meta-Rhyolite
Has appearance of a breccia. Fragments are actually composed of concentric layers of chalcedonic silica. Matrix is chlorite and sericite mostly. Possibly few relict quartz eyes.

104 - 105 Lost core

105 - 150 Same as 92-104 except no longer has brecciated appearance. Abundant opalescent quartz eyes. Light schistosity at 45°- 50° CN. Moderate sericite, appears to be more siliceous in depth. Lost core: 112-113, 117-119.

150 - 166 Meta-Rhyolite.
Same as 92-104. Has brecciated appearance due to chalcedonic silica in concentric layers. May be a flow top. At 153' has banded appearance resembling tuffite, banding at 60° CN.

166 - 176 Dyke ?
Possible rhyolite porphyry (i.e. origin uncertain, but appears to be acid). Upper contact distinct at 20° CN, lower is less distinct at 30° CN.

D- 13

176 - 281 Meta-Rhyolite

Has variolitic appearance. Abundant spherulites of white silica in fairly acid matrix. Poor banding at 10°- 30° CN. Small slip at 178' at 70° CN, slickensides at 90° CN. More homogeneous in depth (i.e. below 225'). Some sections with banded appearance at 20°- 60° CN. Fine-grained from 270' to 281'.

281 - 313 Dyke

Sericitized, chloritized, with traces of biotite, probable lamprophyre.

313 - 360 Chlorite Schists

Probably altered basic meta-volcanic rock. Schistosity at 30° - 60° CN. Few quartz and sulphide veinlets; mostly Py, only few traces of Cp.

End of hole : 360'

Note : Stopped because of gravel and sand and caving near surface of bedrock. Unable to continue because hole was blocked. Casing has been pulled out.

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 14

Core size : AX

Logged by : R. J. M. Miller

Bearing : S 48° W

Latitude : 8 ± 00 North

Departure : 6 ± 00 East

Started : July 10, 1962

Finished : July 13, 1962

Dip at collar : 45°

" " 100' : 42°

" " 300' : 42°

" " 402' : 42°

D- 14

0 - 54 Casing

54 - 121 Porphyritic Meta-Rhyolite

To 67' largely bleached (zoisitized ?). Below 67', bleached along joints mostly. Few scattered but distinct quartz eyes (phenocrysts). Very fine-grained, almost cherty. Highly fractured and jointed.

121 - 184 Tuffite

Well banded at 40° to 50° CN. Mostly scattered sulphides along banding, mostly Py, not more than 3%. Very siliceous, cherty. Fractured and jointed along banding. Few carbonate veinlets.

184 - 217 Porphyritic Meta-Rhyolite

Only few scattered but distinct quartz eyes. Few slips along upper contact at 45° CN, slickensides at 30° CN. Bleached, same as section 54-121

Moderate to heavy shearing from 212' to 217' at 50° CN.

217 - 282 Meta-Gabbro ?

Very highly altered. Highly sheared to 230'

D- 14

at 40° to 50° CN. Lost core 223-224. Mostly chlorite and sericite with some talc and carbonate. From 236 to 277' has mottled appearance resembling polka-dot gabbro except patches are largely quartz. Generally non-magnetic. Trace of Cp especially in quartzose section. Scattered to abundant leucoxene and talc. Scattered shearing at 60° to 80° CN.

282 - 330 Dyke

Probable lamprophyre. Abundant carbonate and talc along with minor chlorite. Very highly altered. Original character of rock is uncertain. Moderately to highly sheared at 60°- 80° CN. Slickensides at 30°- 45° CN Sheared contact with :

330 - 402 Meta - Rhyolite

Very acid, abundant secondary silica. Light to medium shearing at 362-372' at 85° CN. Sections at 346' and 352', banded at 50° CN. From 365-395 has variolitic to brecciated appearance due to chalcedonic silica in concentric layers. These variolites are concentrated along veinlets of silica. Near

D- 14

400-402', has banded appearance (coarse) at 70° CN. Traces of Cp in veinlets at 372', 393', 399-400'.

End of hole : 402 '

Note : Casing left in hole.

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ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. B - 15

Core size : AX

Logged by : R. J. M. Miller

Bearing : N 48° E

Latitude : 3 ± 00 North

Departure : 4 ± 35 East

Started : July 16, 1962

Finished : July 22, 1962

Dip at collar : 45°

" " 100' : 38°

" " 300' : 39°

" " 500' : 41°

" " 700' : 37°

D- 15

0 - 84	Casing
84 - 108	Basic Dyke Slightly magnetic. Probable meta-diabase or meta-gabbro. Slightly chloritized, hematite along joints.
108 - 114	Ditto Except relatively fresh. Visible feldspar laths, dense, has almost acid appearance.
114 - 203	Chlorite Schists Moderately magnetic throughout. Possible basic dyke or meta-volcanic rock.
203 - 208	Dyke Fine-grained. Possible lamprophyre. Ground core at both contacts.
208 - 279	Chlorite Schists Same as 114-203. Progressively fresher and less schistose in depth, except at 254' where it is very schistose and has a quartz vein with traces of Cp. This rock is either a fine-grained gabbro nor a relatively coarse-grained meta-basalt.
279 - 283	Dyke

D- 15

Good chilled contacts at 70° and 35° CN. Relatively acid appearance. Feldspatic, including laths of feldspar?

283 - 288 Basic Meta-Volcanic or Meta-Gabbro

Same as 208-279

288 - 305 Dyke

Same as above. Probably acid composition. Good chilled upper contact at 60° CN. Very fine-grained and relatively fresh.

305 - 360 Chlorite Schists

Basic volcanics. Scattered sulphide veinlets mainly Py but traces of Po and Cp i.e. 327'.

360 - 361 Acid Dykelet

Good chilled contacts at 55° CN.

361 - 401 Chlorite Schists

At 397', one-quarter inch with Cp.

401 - 406 Silicified Section

Contains scattered euhedral magnetite crystals, minor Py and Cp, has granitic appearance, possible dyke.

D- 15

406 - 409 Chlorite Schists

Same as above

409 - 414 Ditto

Dark green, relatively hard, massive.

414-415 Acid Dyke

Same as above. Has granitic appearance.

415 - 468 Chlorite Schists

Numerous quartz-calcite stringers. Relatively soft. Cp grains at 459'

468 - 499 Dyke

Possible rhyolite porphyry. Acid, massive, fine-grained, hematite along joints. Good chilled contact at 25° CN.

499 - 513 Tuff

Poor banding at 45° to 65° CN. Light shearing along banding. Siliceous and chloritized. Stringers and veinlets of Py with minor Cp.

513 - 515 Dyke

As above. Possible rhyolite porphyry. Chilled contacts at 30° and 80° CN.

515 - 517 Tuff

As above

D- 15

517 - 526 Dyke

As above. Possible rhyolite porphyry. Chilled contacts, upper contact irregular at 60° CN.

526 - 666 Tuff

As above. Mineralization consists mainly of chlorite and Py with minor Cp and Sp

Sample 632 - 640 Py, Sp , app. 4%

Sample 640 - 648 Py, Sp , app. 4%

666 - 700 Porphyritic Meta-Rhyolite

Gradational contact. Elongated amygdules near top of flow. More massive and siliceous, less chloritic than tuff above. Absence of banding. Only minor Py.

End of hole : 700'

Note : Casing left in hole

D - 15

ASSAYS

Section from	to	Sample No.	Zinc %	Copper %	Silver Ozs.
632	640	1253	Trace	0.03	0.04
640	648	1254	0.02	0.02	Nil

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 16

Core size : AX

Logged by : R. J. M. Miller

Bearing : North

Latitude : 19 ∠ 50 North

Departure : 26 ∠ 00 East

Started July 23, 1962

Finished : July 29, 1962

Dip at collar : 45°

" " 120' : 41°

" " 300' : 42°

" " 500' : 41°

" " 635' : 42°

D- 16

0 - 116 Casing

116 - 213 Meta-Gabbro

Only minor magnetite to 135'. Medium-grained. From 135', relatively coarse and fresh, app. 5% magnetite. Scattered quartz veinlets at 50° to 60° CN.

213- 295 Talc-Amphibole Schist

Either basic meta-volcanic or fine-grained edge of gabbro.

295 - 303 Talc-Chlorite Schist

Well banded at 45° CN. May be a tuffaceous rock. Scattered sulphides, mostly Py.

303 - 304 Acid Dyke

304 - 312 Chlorite Schist

Probable basic meta-volcanic.

312 - 337 Basic Dyke

Probable lamprophyre. Highly altered.

337 - 376 Chlorite Schists

Moderate quartz. Banded at 20° CN. Possible tuff, scattered minor Py.

D- 16

376 - 449 Basic Meta-Volcanic

Chlorite schists in part. Very fine-grained.

449 - 635 Meta-Gabbro

Contact is indistinct. Fine to medium-grained. Light to medium chlorite alteration. Possible multiple dyke.

532-542 Possible fine-grained dyke of same composition. 3 to 8% magnetite.

At 542', coarse-grained section, moderately magnetic up to 625'.

625-635 very fine-grained.

At 616', epidote alteration, minor Py. Light shearing at 65° CN.

End of hole : 635'

Note: casing left in hole.

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D-17

Core size : AX

Logged by : R. J. M. Miller

Bearing : N 17° W

Latitude : 4 ≠ 00 South

Departure : 11 ≠ 00 South

Started August 12, 1962

Finished August 22, 1962

Dip at collar : 50°

" " 50' : 48°

" " 300' : 42°

" " 500' : 40°

" " 769' : 39°

D-17

0 - 44 Casing

44 - 50 Quartz-Chlorite Schist

Schistosity at app. 45° CN. Probable intermediate meta-volcanic except some sections resemble the fine-grained edge of a basic dyke.

50 - 65 Quartz-Chlorite Schist

Probably an altered rhyolite. Some of the quartz is probably secondary. Minor sericite.

65 - 73 Ditto

Sample. Moderately abundant sulphides, banded at 40° to 45° CN. Po, Cp, Py, app 8%.

73 - 170 Quartz-Chlorite-Sericite Schist

Very abundant sericite. Mottled appearance due to patches of sericite. Scattered sections with moderately abundant biotite. At 90', two inches of massive Py with traces of Cp in quartz. At 140', one inch magnetite vein.

170 - 182 Quartz-Chlorite Schist

Well banded at 45° CN. Has tuffaceous appearance. Possible flow top.

182 - 185 Hornblende Diorite Dyke

Abundant laths of amphibole.

D- 17

185 - 194 Quartz-Chlorite Schist

Same as section 170-182. Moderately abundant sulphides, up to 5%, mostly Py.

194 - 342 Meta-Volcanic

Fine-grained, composed mostly of feldspar and more or less chloritized amphibole with minor quartz. Abundant disseminated magnetite. Few scattered saussuritized feldspar phenocrysts, resembling those found in polka-dot gabbro. This may be a fine-grained equivalent of the quartz diorite. Scattered sulphides including minor Cp at 288' and 298'. This is probably a sill or a dyke.

342 - 348 Talc-Chlorite Schist

Schistosity at 45° to 55° CN. Light to moderate shearing along schistosity.

348 - 511 Basic Meta-Volcanic

5% to 8% magnetite. Medium to high chlorite alteration.

511 - 532 Meta-Diabase

Distinct ophitic texture. Fine-grained along edges, scattered epidote veinlets with euhedral Py and hematite. Contacts indistinct.

D- 17

532 - 572 Tuffite

Well banded at 30° to 45° CN. Scattered to abundant sulphides throughout. Section 538-564 contains 15% Py and Po. Minor magnetite throughout.

572 - 578 Dyke

Fine-grained, basic. May be a lamprophyre.

578 - 592 Amygdaloidal Meta-Rhyolite

Amygdules elongated along schistosity at 20° CN. Some amygdules are clear and partly chalcedonic silica and resemble quartz eyes.

592 - 600 Chlorite Dyke

Few relict phenocrysts near upper contact. Resembles polka-dot gabbro.

600 - 676 Meta-Rhyolite

Partly amygdaloidal. Resembles section above,i.e. 578-592. May be a porphyritic meta-rhyolite.

676 - 769 Meta-Diabase

Moderately magnetic. Fine-grained in depth. Slight increase in chlorite below 750'. Epidote veinlets with minor Py along joints at various angles to CN. Below 750', fine-grained, resembles

D- 17

a meta-volcanic rock.

End of hole: 769'

Note: casing left in hole.

ASSAYS

Section from	to	Sample No.	Copper %	Gold Ozs.	Silver Ozs.
65	73	1255	0.19	Nil	Trace

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 18

Core size : AX

Logged by : R. J. M. Miller

Bearing : S 17°E

Latitude : 2 ≠ 50 South

Departure : 11 ≠ 00 East

Started August 24 1962

Finished August 25, 1962

Dip at collar : 50°

" " 100' : 45°

" " 255' : 42°

D- 18

0 - 25 Casing

25 - 39 Chloritized Basic Dyke

Probable meta-diabase. Abundant magnetite throughout. Schistosity near contact at 60° CN.

39 - 154 Quartz-Sericite Schist

Possible altered meta-rhyolite. Scattered Py, distinct schistosity at 30° to 45° CN. Abundant biotite at 39'.

154 - 164 Ditto

Well banded at 45° CN. Some sections resemble tuffite. Py, Po, trace of Cp.

164 - 170 Ditto

Moderately abundant chlorite. Mineralization is Po, Py, Cp, app 6%. Sample.

170 - 201 Quartz-Chlorite-Sericite Schist

Scattered minor Cp at 178'; 186-187 and 188-189 lost core.

201 - 211 Meta-Diabase

Distinct ophitic texture. Relatively fresh except for minor epidote alteration. Distinct chilled contacts at 5° and 15° CN. Magnetite along lower contact.

D- 18

211 - 241 Quartz Dirite

Relatively abundant quartz. Up to 15% magnetite. Scattered minor Py. Light to medium epidote alteration, specially along joints. Minor chlorite with epidote.

241 - 255 Hybrid Rock

Probably composed of rhyolitic meta-volcanic and quartz-diorite. Scattered Py, trace of Cp at 253'.

End of hole : 255'

Note: casing left in hole.

ASSAYS

Section from	to	Sample No.	Copper %	Gold Ozs.	Silver Ozs.
164 -	170	1256	o.13	Nil	Nil

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 19

Core size: AX

Logged by : R. J. M. Miller

Bearing : S 17° E

Latitude : 2 ± 00 South

Departure : 14 ± 00 East

Started August 27, 1962

Finished August 30, 1962

Dip at collar : 50°

" " 100' : 47°

" " 359' : 42°

D- 19

0 - 25	Casing
25 - 40	Meta-Diabase Few scattered saussuritized phenocrysts. Abundant magnetite.
40 - 47	Quartz Diorite Dyke Minor magnetite. Scattered Py with traces of Cp.
47 - 50	Meta-Diabase Same as section 25-40.
50 - 160	Meta-Volcanic Rock Probable basic composition. Composed of quartz, chlorite and lesser sericite. Scattered sulphides, mainly Py. Minor to moderate magnetite throughout. Near 125', substantial quartz replacement.
160 - 172	Meta-Volcanic Rock Probable intermediate to acid composition.
172 - 200	Quartz-Sericite Schist Possible tuffite, schistosity at 40° CN. Scattered sulphides. At 181', 1/4 inch sphalerite veinlet.

D- 19

200 - 233 Hybrid Rock

Dioritic in composition. Some sections are relatively fine-grained. May be partly digested volcanics. Scattered epidote alteration. Minor Py in veinlets at 65° CN.

233 - 235 Dyke

Composed mostly of amphibole and feldspar, probable lamprophyre.

235 - 299 Hybrid Rock

Same as section 200-233.

299 - 346 Mixed Dyke Rock

Mostly gabbro or meta-diabase, but contains scattered dykelets of dioritic composition.

346 - 359 Chlorite Schists

Includes few sections of meta-gabbro. Scattered to abundant Py along schistosity at 30° CN. Some of the schist may be an altered meta-volcanic.

End of hole : 359'

Note: casing left in hole.

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 20

Core size : AX

Logged by : R. J. M. Miller

Bearing : N 17° W

Latitude : 2 ± 00 South

Departure : 14 ± 00 East

Started : August 30, 1962

Finished : September 4, 1962

Dip at collar : 50°

" " 100' : 46°

" " 473' : 44°

D- 20

0 - 30 Casing

30 - 90 Hybrid Rock

Probably mixed volcanics and diorite. Few scattered metacrysts resembling those found in polka-dot gabbro.

90 - 92 Dyke

Chloritized. Very abundant feldspar metacrysts, possible polka-dot gabbro.

92 - 97 Hybrid Rock

Same as section 30-90

97 - 194 Meta-Diabase

Very fine-grained, few scattered metacrysts. Resembles a basic meta-volcanic in some sections. Few Py veinlets.

194 - 316 Hybrid Rock

Fairly distinct volcanic features. Soaked with dioritic material. Abundant large quartz phenocrysts, some of them chalcedonic.

316 - 338 Meta-Rhyolite

Amygdaloidal. Scattered quartz eyes.

D- 20

338 - 353 Meta-Volcanic Rock

Chloritized. Probably acid in composition but not amygdaloidal. Scattered Py.

353 - 473 Meta-Diabase

Magnetic throughout. Relatively coarse-grained and gabroic near 425'. Sulphides along crystal faces.

End of hole : 473'

Note : Casing left in hole.

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D - 21

Core size : AX

Logged by : R. J. M. Miller

Bearing : S 17° E

Latitude : 2 ⁄ 50 South

Departure : 12 ⁄ 00 East

Started : September 5, 1962

Finished : September 6, 1962

Dip at collar : 75°

" " 100' : 75°

D- 21

0 - 12	Casing
12 - 133	Meta-Diabase Polka-dot gabbro in part. Moderate to abundant magnetite. Medium chlorite and light epidote alteration.
133 - 134	Quartz Dirite Dyke Trace of sulphides.
134 - 150	Meta-Diabase Very fine-grained. Probable edge of dyke. 145-150 mostly chlorite schist. Schistosity and light shearing at 60° to 80° CN.

End of hole : 150'

Note : casing has been pulled out.

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D - 22

Core size : AX

Logged by : R.J.M. Miller

Bearing : S 17° E

Latitude : 2 ≠ 50 South

Departure : 12 ≠ 00 East

Started: September 6, 1962

Finished : September 8, 1962

Dip at collar : 45°

" " 100' : 41°

" " 266' : 35°

D- 22

0 - 18	Casing
18 - 51	Meta-Diabase Polka-dot gabbro in part. Medium chlorite. 46 - 51 Mostly chlorite schists. Scattered sulphides, mostly Py, traces of Cp.
51 - 70	Meta-Rhyolite Fine-grained, dense, blocky. Moderate to substantial amount of secondary chalcedonic silica. 59 - 65 Sample, Py, Cp, app. 5%
70 - 73	Quartz-Sericite Schist Well banded at 40° CN. Has a tuffaceous appearance. Sample
73 - 77	Ditto Sample
77 - 79	Ditto Sample. Py, Cp, app. 20%
79 - 83	Ditto
83 - 88	Quartz-Biotite- Feldspar Schist Sample Py, Cp, app. 6%

D- 22

88 - 93	Ditto
93 - 95	Quartz-Sericite Schist No visible sulphides
95 - 110	Quartz-Biotite-Chlorite Schist Distinct schistosity at 50° CN. Scattered minor Py with traces of Cp.
110 - 136	Quartz-Sericite-Feldspar Schist Probably an altered rhyolite. At 135', minor Py and Cp.
136 - 137	Basic Dyke Abundant magnetite. Probable meta-diabase. Contacts at 45° CN.

D- 22

137 - 190 Quartz-Sericite Schists

With feldspar and minor to moderate chlorite. Distinct schistosity at 45° CN. Light shearing at 45° to 60° CN. Scattered sulphides, mostly Py. Section 175-178 is well banded at 45° CN. Contains 10% Po and Py with traces of Cp. This rock is probably an altered rhyolite.

190 - 194 Chlorite Schists

Probably an altered volcanic.

194 - 200 Hybrid Rock

Mixture of meta-volcanics and quartz diorite, largely altered to chlorite and biotite.

200 - 217 Chlorite Schists

Very finely schistose at 35° to 45° CN. May include some talcose sections. Banding resembles that found in tuffite.

217 - 266 Hybrid Rock

Mostly quartz diorite with probably some hybridized meta-volcanics. Abundant, very fine magnetite sufficient to cause magnetic anomaly.

Hole D- 22

258-266 The rock has a gabroic appearance.

End of hole : 266'

Note : Casing left in hole.

ASSAYS

Section from	to	Sample No.	Copper %	Gold Ozs.	Silver Ozs.
59 -	65	1257	0.03	Nil	0.03
70 -	73	1258	0.03	Nil	0.03
73 -	77	1259	0.01	Nil	Nil
77 -	79	1260	0.09	Nil	0.03
83 -	88	1261	0.05	Nil	0.03

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 23

Logged by : R. J. M. Miller

Core size : AX

Bearing : S 17° E

Latitude : 3 ± 00 South

Departure : 12 ± 00 East

Started : September 9, 1962

Finished : September 11, 1962

Dip at collar : 75°

" " 100' : 75°

" " 300' : 70°

D- 23

0 - 17 Casing

17 - 149.5 Quartz Sericite Schist

Schistosity at 60° to 70° CN. At 27', 29', 33', and 39', magnetite veins with Py and traces of Cp, these are along schistosity. At 34', traces of Mo along joint. From 46 to 70, the rock has a nodular appearance, these are elliptical patches of sericite. This may have been a spherulitic meta-rhyolite.

100-150', scattered sulphide veinlets along schistosity, composed mainly of Py, but some with patches of Cp at 100', 113', 117', 144'.

149.5 - 153 Basic Dyke

Chloritized. Highly magnetic. Probably a meta-diabase. Contacts at 60° CN.

153 - 244 Quartz Sericite Schist

Probable altered rhyolite or silicified andesite. From 190', increased chlorite, moderate talc in some sections and biotite in others. Schistosity fairly uniform at 60° CN.

Section 195-205 has 10% sulphides including up to 1% Cp in some parts. At 235', some Cp.

D- 23

244 - 273 Chlorite Schists

Well banded at 60° CN. Contains several patches of biotite and several small diorite dykes along schistosity.

273 - 304 Quartz Diorite

Abundant magnetite. Highly epidotized.

285-287, scattered Py .

304 - 321 Hybrid Rock

Meta-volcanic and quartz diorite.

321 - 325 Meta-Diabase

325 - 343 Meta-Gabbro

Distinct polka-dot appearance. Some sections may include partly digested meta-volcanic.

343 - 350 Meta-Diabase

Distinct ophitic texture. Lower contact at 60° CN.

350 - 364 Meta-Gabbro

Same as 325-343.

End of hole : 364'

Note: Casing left in hole.

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 24

Core size : AX

Logged by : R. J. M. Miller

Bearing : N 17° W

Latitude : 8 ≠ 00 South

Departure : 11 ≠ 00 East

Started : September 13, 1962

Finished : September 21, 1962

Dip at collar : 50°

" " 100' : 46°

" " 300' : 44°

" " 500' : 41°

" " 855' : 38°

D- 24

0 - 16 Casing

16 - 228 Meta- Diabase

Highly magnetic. Moderately to heavily chloritized, i.e. at 60', is highly chloritized and schistose at 60° to 80° CN. Contains a few dioritic sections with quartz veins i.e. at 80', 92', 103', 110', 123', 140'. Few sections with very distinct ophitic texture l.e. at 217'. Minor scattered sulphides, mainly Py.

228 - 248 Ditto

Except largely chlorite schists.

248 - 271 Mixed Dyke

Chloritized meta-diabase and relatively fresh diorite.

271 - 324 Chlorite Schists

Same as section 228-248. Very talcose at 321'.

324 - 376 Altered Quartz Diorite ?

Few sections relatively fresh, others are relatively chloritized. Moderately sheared at 370' with abundant Py. Shearing at 80° CN .

376 - 380 Quartz Diorite

D- 24

Abundant magnetite. Contacts at 50° CN.

380 - 425 Hybrid Rock
Probable quartz diorite with some meta-volcanic rock.

425 - 439 Resembles a Meta-Gabbro

439 - 462 Hybrid Rock
Same as section 380-425.

462 - 579 Quartz Diorite
Abundant magnetite in a steep vein at 477'.
Scattered epidote alteration with Py.
Slip at 90° CN.

579 - 588 Possible Basic Dyke
Scattered quartz eyes. Highly chloritized and schistose at 50° CN .

588 - 599 Quartz Diorite
Chloritized. Joints at 45° CN and 80° CN. Minor Py.

599 - 612.5 Quartz-Chlorite-Sericite Schist
Probably an altered meta-volcanic. Schistosity at 35° to 45° CN .

612.5 - 613 Quartz Diorite Dyke

D- 24

613 - 637 Quartz- Chlorite-Sericite Schists
Same as section above (599-612.5). Few scattered Py veinlets.

637 - 638 Lamprophyre
Contacts at 10° CN.

638 - 651 Quartz-Sericite Schists
With minor Py. Very acid appearance, probably an altered rhyolite. Schistosity at 45° CN.

651 - 652 Chlorite-Biotite Schist
Possible tuff. Well banded at 50° CN. Scattered Py and Cp.

652 - 656 Quartz-Chlorite Schist
Altered meta-rhyolite. Minor sulphides, mainly Py.

656 - 698 Quartz-Chlorite Schist
Possible tuffite. Schistosity and banding at 45° CN . Scattered sulphides, mainly Py.

698 - 762 Quartz-Sericite Schist
Altered meta-rhyolite. Some sections have structure resembling elongated nodules or amygdules. Moderately abundant sulphides, up to 8%, mostly Py, and Po but with minor Cp, i.e. at

D- 24

726', 737'.
From 736' to 738', it is chloritic and up to 10% sulphides.
From 749', increased biotite.
At 754', four-inches lamprophyre dyke with biotite and magnetite, contacts at 50° CN.
Three-inch magnetite veinlet at 754'.

762 - 770 Gabbro
Polka-dot appearance, coarse-grained, chloritized.

770 - 864 Chlorite Schist
Probable altered gabbroic rock, i.e. meta-diabase or basalt. 5% magnetite. Schistosity at 40° CN . Sections at 804', 811', 830' and 850' resemble lamprophyre, i.e. biotite-rich and with euhedral Py.

864 - 868 Volcanics
Spherulitic and pillowed. 1% Cp, sample. Composition seems to be rhyolitic. Abundant sulphides, mostly Py.

868 - 918 Ditto
Except less Cp. Except for few places with up to 0.5% Cp over one-foot sections. Schistosity at 45° CN .

D- 24

918- 955 Chlorite Schists

Same as 770-864.

End of hole : 955'

Note: Casing has been left in hole

ASSAYS

Section fom	to	Sample No.	Copper %	Gold Ozs.	Silver Ozs.
700 -	710	1263	0.08	Nil	0.01
864 -	868	1262	0.15	Nil	Nil

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 25

Logged by : R. J. M. Miller

Core size : AX

Bearing : Due North

Latitude : 24 ∕ 00 South

Departure : 98 ∕ 00 West

Started : September 22, 1962

Finished : September 28, 1962

Dip at collar : 45°

" " 100' : 43°

" " 300' : 42°

" " 651' : 40°

D- 25

0 - 62 Casing

62 - 120 Gabbroic Anorthosite
Scattered epidote patches. Has porphyritic appearance. Possibly two kinds of feldspar. A few carbonate veinlets and joints at 45° to 70° CN.

120 - 123 Pegmatitic Gabbro
Coarse-grained with crystals up to one inch.

123 - 154 Meta-Gabbro
Light to medium chlorite alteration, few scattered Py veinlets at 70° to 90° CN and containing traces of Cp.

154 - 204 Ditto
Except increased chlorite alteration and scattered carbonate veinlets at 50° to 70° CN.

204 - 220 Altered Rock
Composed mostly of quartz, carbonate, and feldspar or zoisite. There is a two-foot quartz vein at 212'. Moderate shearing at 80° CN from 214 to 215'.

220 - 290 Chloritized Meta-Gabbro
Same as section 154-204. Some sections with

D- 25

abundant leucoxene, exhibit Widmanstetten texture.

290 - 329 Meta-Gabbro

Fairly coarse-grained. Light to medium chlorite alteration, except at 307-308 where it is heavily chloritized and has abundant magnetite and Py and minor Cp.

329 - 361 Ditto

Altered section. Has anorthositic appearance from 329 to 339. 339 and on, chloritized and probably zoisitized.

361 - 394 Meta-Gabbro

Same as section 290-329, except there is medium epidote alteration throughout. Lower contact at 45° CN.

394 - 462 Quartz Diorite

Opalescent quartz. Scattered magnetite. Blocky. Minor Chlorite.

462 - 473 Ditto

Except it is moderately chloritized and epidotized.

473 - 493 Ditto

Silica and carbonate alteration.

D- 25

493 - 508 Ditto

Except it is epidotized.

508 - 651 Meta-Rhyolite

Extremely siliceous, probably soaked with granitic material and may include some sections of quartz diorite I.e. at 524-530, 633-651.

From 540 to 550, highly sheared at 60° to 90° CN.

At 549', slickensides at 60° CN, indicate a reverse fault. Also, minor fault gouge at 549'.

600-615, 40% white bull-quartz vein. Scattered Py, no visible gold.

End of hole : 651'

Note : casing left in hole.

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 26

Logged by : R. J. M. Miller

Core size : AX

Bearing : South

Latitude : 24 ± 50 South

Departure : 100 ± 00 West

Started : September 29, 1962

Finished : October 5, 1962

Dip at collar : 45°

" " 100' : 40°

" " 300' : 41°

" " ~~345'~~ 435' : 40°

D- 26

0 - 80 Casing

80 - 87 Meta-Gabbro
Contains some anorthositic sections. Abundant feldspar grains up to one-half inch.

87 - 92 Carbonate Chlorite Schist
Possible sheared gabbro. Schistosity at 30° to 45° CN. Scattered leucoxene and minor Py.

92 - 150 Anorthositic Gabbro
Scattered darker sections. Epidote common as patches and veins, specially in schistose sections. Schistosity at 45° CN. Light to moderate amount of magnetite.

150 - 200 Meta-Gabbro
50 to 60% ferromagnesian minerals and chlorite. Very fine-grained from 195 to 200. Abundant magnetite up to 8%.

200 - 213 Pegmatitic Gabbro
50% to 60% feldspar and crystals up to one-half inch.

213 - 230 Sheared Gabbro
Sericitized and chloritized. Schistosity at 50° to

D- 26

60° CN. Scattered leucoxene. Light shearing around 220' and schistosity at 60° CN.

230 - 355 Meta-Gabbro

With scattered anorthositic sections, some of which are epidote-rich. Light to medium magnetite, up to 5%. 1' dyke at 351 (same as 355-381).

355 - 381 Meta-Diabase

Moderately to strongly magnetic. Fine-grained near edges. Near 377' contains phenocrysts, rock resembles polka-dot gabbro. Brecciated with hematite cement at 364. Scattered minor Py and light to moderate epidote.

381 - 392 Meta-Gabbro

Sericitized, lightly schistose, abundant leucoxene. Possibly anorthositic.

392 - 396 Ditto

Except highly silicified.

396 - 412 Ditto

Except more schistose (section 381-392). Schistosity and light shearing at 60° CN. Section 407-412 may be an altered meta-diabase.

D- 26

412 - 422 Meta-Gabbro

With anorthositic sections. Same as section 230-355.

422 - 428 Meta-Gabbro

Same as section 396-412.

428 - 432 Meta-Diabase

Epidotized. Fine-grained at the edges, contacts at 30° CN.

432 - 435 Anorthositic Meta-Gabbro

Lightly epidotized, minor Py, trace of Cp.

End of hole : 435'

DUMAGAMI MINES LIMITED

ISLE - DIEU TOWNSHIP PROPERTY

Diamond Drill Core Log of Hole No. D- 27

Logged by : R. J. M. Miller

Core size : AX

Bearing : S 17° E

Latitude : 2 ± 60 North

Departure : 11 ± 12 East

Started : October 7, 1962

Finished : November 6, 1962

Dip at collar : 70°

" " 50' : 70°

" " 200' : 67°

" " 400' : 65°

" " 600' : 64°

" " 800' : 63°

" " 1200' : 55°

" " 1470' : 55°

D- 27

0 - 36 Casing

36 - 163 Meta-Diabase

Mostly fine-grained. Magnetic, up to 10% magnetite. Lightly chloritized throughout. Some sections with moderate chlorite alteration i.e. from 91' to 93', chlorite schist in part with quartz, Py and Cp, this section might run 0.5 % Cu. Highly epidotized from 39 to 42 and from 64 to 66. Traces of Cp at 76'.

163 - 173 Lamprophyre Dyke

Abundant amphibole, carbonitized. Contacts at 60° and 70° Cn.

173 - 394 Meta-Diabase

Alternating sections of medium and finer grained rocks. Fine-grained sections have light to medium chlorite alteration. From 290 to 295, up to 10% Py with traces of Cp as disseminated crystals and patches. Small dioritic section from 301 to 302.

394 - 398 Banded Dyke

Relatively acid appearance. Banding at 60° CN.

D- 27

398 - 491 Meta-Diabase

Same as above

491 - 492 Amygdaloidal Meta-Rhyolite

492 - 494 Magnetite in a chlorite schist.

Schistosity at 60° CN.

494 - 519 Amygdaloidal Meta-Rhyolite

Amygdules up to 3 mm. Scattered Py. Light chlorite alteration. Few quartz veinlets at 45° Cn.

519 - 530 Dyke

Extremely fine-grained. Probable meta-diabase.

530 - 560 Amygdaloidal Meta-Rhyolite

Amygdules are larger but less distinct than in previous section. Lost core : 533.5 to 535, 536 to 538, 553.5 to 555, 555.5 to 557.

560 - 565 Chlorite Dyke

Probable meta-diabase.

565 - 581 Meta-Rhyolite

Scattered Py throughout. Biotite alteration at 594.

581 - 596 Chlorite Dyke (Meta-Diabase)

Phenocrysts resembling those found in polka-dot

D- 27

gabbro, except they are smaller.

596 - 621 Meta-Rhyolite

Abundant small quartz phenocrysts. Possible Porphyritic Meta-Rhyolite.

621 - 640 Chlorite Rock

Resembles highly altered polka-dot gabbro. Metacrysts may be secondary.

640 - 650 Ditto

Sample. Abundant Py veinlets and disseminated particles.

650 - 658 Ditto

Sample. Slightly increased Cp.

658 - 661 Ditto.

Note: there is magnetite throughout the section, i.e. from 621 to 661.

661 - 680 Quartz Sericite Schist

Minor chlorite. Schistosity at 60° CN. Scattered sulphides along schistosity. This is probably an altered rhyolite. Some scattered amygdaloidal sections, i.e. at 674. From 674 to 680, well

D- 27

banded at 60° CN.

680 - 712 Quartz-Sericite-Chlorite Schist
Some light shearing at 60° to 70° CN. Scattered Py and patches of biotite.

712 - 714 Basic Dyke
Feldspar phenocrysts. Probable meta-diabase or polka-dot gabbro. Contacts at 50° CN.

714 - 749 Quartz-Chlorite Schist
Schistosity may be parallel to primary banding at 50° CN. Abundant Py from 747 to 749.

749 - 885 Basic Meta-Volcanic
Medium to heavy chlorite. Light to medium schistosity at 45° CN. Scattered minor Py.

885 - 987 Meta-Rhyolite
Has nodular appearance, which may be caused by ghost amygdules. This is a schist in part with schistosity at 45° to 55° CN.

987 -1023 Meta-Diabase
Relatively fresh. Up to 5% magnetite.

D- 27

1023 - 1026 Fractured and altered section.
Carbonatized. Some sections resemble lamprophyre.
Scattered biotite.

1026 - 1103 Meta-Diabase
Same as above (section 987-1023). Considerable variation in grain size from medium to very fine-grained. Up to 5% magnetite.

1103 - 1135 Chlorite Schist
Probable altered meta-diabase. Schistosity at 45° to 50° CN. Light to medium shearing at 45° and 60° CN.

1135 - 1142 Dyke
Possible lamprophyre, highly altered. Schistosity and minor sulphide veinlets at 45° to 60° CN.

1142 - 1147 Quartz Diorite Dyke
Contacts at 40° CN.

1147 - 1154 Dyke
Same as above (1135 - 1142). With minor shearing at 1153.

1154 - 1216 Meta-Volcanic Rock
Few biotite-rich sections, possible inter-pillow

D- 27

material. From 1200 to 1216, scattered sulphides including traces of Cp.

1216 - 1224 Ditto

Except silicified as well as chloritized.

1224- 1253 Chlorite Schist

Probably includes some talc. Schistosity and light shearing at 50° to 70° CN. Trace Cp at 1246-1247.

1253 - 1271 Meta-Volcanic Rock

Probably rhyolite. Relatively massive.

1271 - 1275 Feldspatic Rock. Possible Dyke

Abundant euhedral Py.

1275 - 1455 Chlorite Schist

Probably, mostly altered intermediate or basic meta-volcanic rock, although some sections are moderately magnetic and may be meta-diabase. Schistosity at 20° - 30° CN. Scattered Py with traces of Cp, especially in or near small quartz veins.

1455 - 1470 Quartz-Sericite- Chlorite Schists.

Schistosity at 20° CN. Moderately abundant Py. Minor Cp near qtz vein at 1456.

D- 27

End of hole : 1470'

Note : Casing left in hole.

ASSAYS

Section from	to	Sample No.	Copper %	Gold Ozs.	Silver Ozs.
91	92	1264	0.35	0.005	0.03
640	650	1265	0.14	Nil	Nil
650	658	1266	0.15	Nil	0.01