PROPERTY: Bruce Lake Mines, Y.T.

LOCATION:
LAT. Line 24 W. - 93' South of base line

ELEVATION OF COLLAR: 3' approx. above lake

DATUM:

BEARING:

DIRECTION AT START:

LOGGED BY: N.R.C. Fraser, M. Comp.

PURPOSE OF HOLE: VER. COMP.

DRILLED BY: Arsenault Diamond Drilling Limited

DIAMOND DRILL RECORD

HOLE NUMBER: D.D.H. 1

SECTION FROM: TO:

STARTED: May 10, 1966

COMPLETED: May 13, 1966

ULTIMATE DEPTH: 297'

PROPERTY DIAMOND DRILL RECORD

TESTS

<table>
<thead>
<tr>
<th>Sample</th>
<th>Length</th>
<th>Analysis</th>
</tr>
</thead>
</table>

DESCRIPTION

<table>
<thead>
<tr>
<th>Distance</th>
<th>ROCK</th>
<th>Sample</th>
<th>Length</th>
<th>Analysis</th>
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<tbody>
<tr>
<td>0 - 45</td>
<td>Overburden</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 - 62</td>
<td>Granoblastic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62 - 92</td>
<td>Brecciated and altered basic intrusive; mica, chlorite and serpentine developed; scattered patches of pyrite</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>92 - 96</td>
<td>Basic intrusive</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>96 - 103</td>
<td>Basic intrusive</td>
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<tr>
<td>103 - 143</td>
<td>Basic intrusive</td>
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<tr>
<td>143 - 147</td>
<td>Basic intrusive</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>147 - 196</td>
<td>Basic intrusive</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>196 - 297</td>
<td>Basic intrusive</td>
<td></td>
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</table>

ANALYSIS

<table>
<thead>
<tr>
<th></th>
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<td>Sample</td>
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<tr>
<td>No.</td>
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<tr>
<td>Length</td>
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<td></td>
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</tr>
<tr>
<td>Au.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ag.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pb.</td>
<td></td>
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</table>

MONEY PRINTING SERVICE, TORONTO--1966
ROCK
Sediments

DESCRIPTION
Grey siliceous sediments, brecciated; some quartz veins and 203 - 204 may be vein quartz.
Lost core: 204 - 224 no core and bit lost 220 - 224
224 - 232 only 1 piece of cherty rock
232 - 266 only a few small fragments of dark siliceous sediments recovered

Sludge Samples:
232 - 246
244 - 256
256 - 262
262 - 266
197 - 203 Brecciated siliceous rock dark grey to black with some pyrite and graphite

PROPERTY Bruce Lake Mines, Y.T.

DIAMOND DRILL RECORD

SHEET NO. 2 HOLE NUMBER 1

SAMPLE No. LENGTH

ANALYSIS

oz/ton % %

 property: Bruce Lake Mines, Y.T.

DIAMOND DRILL RECORD

SHEET NO. 2 HOLE NUMBER 1

PROPERTY Bruce Lake Mines, Y.T.

DIAMOND DRILL RECORD

SHEET NO. 2 HOLE NUMBER 1

PROPERTY Bruce Lake Mines, Y.T.

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SHEET NO. 2 HOLE NUMBER 1

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DIAMOND DRILL RECORD

SHEET NO. 2 HOLE NUMBER 1

PROPERTY Bruce Lake Mines, Y.T.
**PROPERTY**
Bruce Lake Mines, Y.T.

**LOCATION**
Lat. Line 26 N - 41' S of base line
Dep. and 5' east

**ELEVATION OF COLLAR**
25' approx. above lake

**DATUM**

**DIRECTION AT START**
N 45° E

**LOGGED BY**
K.H.G. Fraser HOR. COMP.

**PURPOSE OF HOLE**
VER. COMP.

**DIAMOND DRILL RECORD**

<table>
<thead>
<tr>
<th>Distance</th>
<th>ROCK</th>
<th>DESCRIPTION</th>
<th>Sample</th>
<th>Length</th>
<th>ANALYSIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Overburden</td>
<td>Casing - overburden to 80' and 4' in broken bedrock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>Diorite or gabbro</td>
<td>Commences with 1' fine grained dark green rock grading to coarser greenish rock showing lath shaped hornblende crystals; at 95' grades to fine grained dark green rock; contact at 30 - 35 deg. to core axis; appears to be dike or sill with chilled margins.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>96.5</td>
<td>Sediments</td>
<td>Light to dark grey siliceous sediments with pyrite in thin seams or patchy locally and very finely disseminated generally; graphite on slick surfaces and also finely disseminated in places; from 108.5' to 120' sediments very light grey to nearly white; from 120' sediments dark grey with some dark amphibole crystals; at 99' and 107' bending at very low angle to core axis; at 108.5' bending 30 deg. to core axis and between 138 and 142 at about 70 degrees.</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**STARTED** May 14/66
**COMPLETED** May 18/66
**ULTIMATE DEPTH** 403'
**PROPOSED DEPTH**

**HOLE NUMBER** 2
**SHEET NO.** 1

**PROPOSED DRILLING SERVICE**
Arsonault Diamond Drilling Ltd.
<table>
<thead>
<tr>
<th>Sample</th>
<th>Length</th>
<th>Au</th>
<th>Ag</th>
<th>Pb</th>
<th>Zn</th>
<th>Cu</th>
<th>Co</th>
<th>Ave</th>
</tr>
</thead>
<tbody>
<tr>
<td>240 - 245</td>
<td>5</td>
<td>nil</td>
<td>2.76</td>
<td>Tr.</td>
<td>0.12</td>
<td></td>
<td></td>
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<tr>
<td>246 - 252</td>
<td>6</td>
<td>nil</td>
<td>1.98</td>
<td>Tr.</td>
<td>0.24</td>
<td></td>
<td></td>
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<tr>
<td>253 - 255</td>
<td>1</td>
<td>nil</td>
<td>Tr.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>240 - 245</td>
<td>5</td>
<td>nil</td>
<td>2.76</td>
<td>Tr.</td>
<td>0.12</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>246 - 252</td>
<td>6</td>
<td>nil</td>
<td>1.98</td>
<td>Tr.</td>
<td>0.24</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Rocks and Description**

- **Gabbro**
  - Fine grained greenish rock (containing several narrow quartz stringers) grading to coarse grained gabbroic type which at about 167' grades into massive, medium coarse, even-grained rock with a dark brownish colour - probably pyroxenite; grades to gabbroic type about 207' which becomes fine grained toward 229' at 229 contact with sediments at 10 - 15 deg. to core axis; from 229 to 233 mixture of fine gabbro and sediments indicating possible repetition of contact along small slips or faults and suggesting attitude of contact may be close to that of hole - Basic intrusive would appear to be a dike or sill with chilled margins.

- **Sediments**
  - Light grey to white fractured siliceous sediments grading to dark grey sediments at 239; very finely disseminated pyrite and graphite (?)

- **Diorite-gabbro**
  - Greyish rock with fine to medium grain; possibly a dike or sill.

- **Sediments**
  - Grey siliceous sediments; at 318.5' bedding about 60 deg. to core axis.

- **Lost Core**

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<table>
<thead>
<tr>
<th>Sample</th>
<th>Length</th>
<th>Au</th>
<th>Ag</th>
<th>Pb</th>
<th>Zn</th>
<th>Cu</th>
<th>Co</th>
<th>Ave</th>
</tr>
</thead>
<tbody>
<tr>
<td>327 - 330</td>
<td>2.0</td>
<td>nil</td>
<td>0.40</td>
<td>Tr.</td>
<td>0.02</td>
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<td></td>
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<tr>
<td>331 - 337</td>
<td>10</td>
<td>nil</td>
<td>Tr.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>337 - 339</td>
<td>5</td>
<td>nil</td>
<td>Tr.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>339 - 340</td>
<td>11</td>
<td>nil</td>
<td>Tr.</td>
<td></td>
<td></td>
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<tr>
<td>340 - 341</td>
<td>12</td>
<td>nil</td>
<td>Tr.</td>
<td></td>
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<td></td>
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<tr>
<td>341 - 342</td>
<td>13</td>
<td>nil</td>
<td>Tr.</td>
<td></td>
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<td></td>
<td></td>
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</table>
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<table>
<thead>
<tr>
<th>Distance</th>
<th>Rock</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>341-347</td>
<td>Diorite-gabbro</td>
<td>Fine grained greenish rock probable intrusive</td>
</tr>
<tr>
<td>347-379</td>
<td>Sediments</td>
<td>Light grey siliceous sediments</td>
</tr>
<tr>
<td></td>
<td>Lost Core</td>
<td>3(54 \text{ to } 357) at least 2.5', 355-360, 360-365, 365-370, 370-375, 375-380</td>
</tr>
<tr>
<td>379-382</td>
<td>Diorite-gabbro (?)</td>
<td>Greenish rock - possibly basic dike</td>
</tr>
<tr>
<td>382-403</td>
<td>Sediments</td>
<td>Grey siliceous sediments; banded at 391' and 396' nearly parallel to core.</td>
</tr>
<tr>
<td></td>
<td>Lost Core</td>
<td>3(86 \text{ to } 388) at least 0.5', 386-396, 396-403</td>
</tr>
</tbody>
</table>

**END OF HOLE**
<table>
<thead>
<tr>
<th>Distance</th>
<th>ROCK</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-99</td>
<td>Overburden</td>
<td>Due to wearing out the casing shoe and binding of the casing in several large boulders through which it passed, the hole could be cased to 56' only. Drilling continued ahead of the casing to bedrock at 99'. The hole was then cemented to prevent caving of the overburden and enabled it to be drilled to 127 where bad caving ultimately forced its abandonment.</td>
</tr>
<tr>
<td>99-127</td>
<td>Pyroxenite</td>
<td>Commences with rock having brecciated appearance - grey angular fragments in a dense black matrix; gradation into dark grey to nearly black medium grained crystalline basic rock which probably is a phase of the pyroxenite.</td>
</tr>
</tbody>
</table>

END OF HOLE
Plan of D.D. Holes

Scale: 1" = 50'