



31M04SW0117 11 RIDDELL

010

## Diamond Drilling

Township of Riddell

Report N<sup>o</sup>: 11

Work performed by: Goldex Mines Ltd.

| Claim N <sup>o</sup> | Hole N <sup>o</sup> | Footage | Date    | Note |
|----------------------|---------------------|---------|---------|------|
| L 317218             | G-1-72              | 748'    | Aug/72  | (1)  |
|                      | G-2-72              | 701'    | Sept/72 | (1)  |
| L 296696             | G-3-72              | 865'    | Sept/72 | (1)  |

### Notes:

(1) 87/73

GOLDEX MINES LIMITED

Report covering the diamond drill program on the 30 claim group in Riddell Township, Temagami Area, Ontario. During the period August and September 1972.

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MAPS ACCOMPANYING THIS REPORT

- Map No. 1 Surface geology and diamond drill hole locations  
Map No. 2 Diamond drill hole sections

*Riddell Twp.  
Report # 87-73.  
Goldex Mines Ltd.*

REPORT ON BOULTON LAKE CLAIMS, RIDDEL TOWNSHIP, TEMAGAMI AREA, ONTARIO.

ADDRESS OF CLAIM OWNERS

Goldex Mines Limited, Suite 300-365 Bay Street, Toronto, Ontario.

LOCALITY

The group comprises 30 contiguous claims in Riddell Township, Ontario. The claims are situated  $5\frac{1}{2}$  miles southeast of Temagami Township and Boulton Lake lies almost wholly within the area of this claim group.

Claim Nos. are 296696 to 296708 inclusive (13 claims)  
and 317205 to 317219 inclusive (15 claims)

ACCESSIBILITY

The claim group may be reached by light aircraft from Temagami, flying time 10 minutes — or by boat via Snake Lake and Cassels Lake and by a  $1\frac{1}{2}$  mile bush road from Cassels Lake to Boulton Lake. The diamond drill equipment was barged by water and hauled over the bush road to the site of drilling.

TERRAIN AND VEGETATION

The surface elevations vary rapidly between 1,000 feet and 1,150 feet above sea level on the eastern half of the group, while the western half of the area is relatively flat lying. The ground is thickly wooded by trees of spruce, jack pine and birch.

GENERAL GEOLOGY

The northern  $7/2$  of the claim group is overlain by Mississauga Diabase while the southern  $1/2$  by conglomerates of the Coleman Formation. A small patch of "slate-like-greywacke" overlies the conglomerates on the east shore of Boulton Lake. The strike of the bedding is northwest and dips  $15^{\circ}$  to  $20^{\circ}$  to the northeast.

On the east shore of Boulton Lake a prospect pit was excavated at the foot of a cliff, in the face of which is a  $12''$  to  $18''$  calcite breccia zone. The strike of this break, with an azimuth of  $81^{\circ}$  and dip  $80^{\circ}$  N, has been followed eastward on surface by a trench and shallow pits for 200'. 460 feet east of the main pit the same break may be seen in a second cliff on the opposite side of a small valley where the "slate-like-greywacke" is fractured and calcite stringers are visible but without significant mineralisation.

The breccia zone on which the pit was sunk is a strong structure but other than weak chalcopyrite and pyrite mineralisation no other mineralisation of significance was observed. Vein material assayed trace of silver.

### DIAMOND DRILL PROGRAM

Three Ax<sup>T</sup>core diamond drill holes were drilled for a total footage of 2,314 feet.

Holes No. 1 and No. 2 are located on claim #317218,

Hole No. 1 was collared 416 feet north of #2 post and 166 feet east of the east boundary.

Hole No. 2 was collared 386 feet north of #2 post and 199 feet east of the east boundary.

Hole No. 3 is located on claim 296696 and collared 498 feet south of #1 post and 123 feet east of the east boundary.

The first drill hole was drilled, on an azimuth of 209° and dip at collar of -47°, to cut the structure seen in the prospect pit 220 feet down dip beneath the pit. A weak 3/4" pink calcite structure was cut in the target area. The hole was continued beneath the lake to 748'.

The second hole was drilled to intersect the same structure 300 feet down dip from surface and 350 feet eastward along strike from the first hole. A 4" calcite breccia zone with quartz was cut in the target area. (This breccia zone maybe a flat lying structure) No mineralization was noted. The length of the hole is 701 feet.

The third hole, collared 2,166' northwest of the first hole and drilled on an azimuth of 305° and dip of -80°. The objectives were to determine the attitude of the Nipissing diabase sill, the type of underlying basement rock and the significance of gullies and depressions seen on surface at depth.

The hole collared in Nipissing diabase cut the lower contact at 510 feet and continued in greywacke, pebble greywacke and conglomerate beds to 865' when the hole was stopped in a break filled with sand. No veins were encountered and the basement rock type was not penetrated.

### CONCLUSIONS

The break on which the pitting and trenching was carried out in the original prospect appears to be well developed in the vicinity of the contact with the Nipissing diabase sill but becomes less well defined in depth below the contact, so that it was difficult to recognize in the core.

CONCLUSIONS CONT'D

The attitude of the diabase is flat lying, thus the limit of the diabase rock type in this area as portrayed on O.D.M. map #34b by A.G. Burrows are probably all lower contact. Whether the basement rock type is volcanic or granite was not determined.

Further drilling on the break tested by this exploration program is not expected to be beneficial, since the break is thought to post date the diabase intrusive and probably developed as a result of the intrusion and further, the area most favoured for mineralisation is adjacent to the Nipissing diabase contact which in this area has been eroded away.

*B. H. Thorniley.*

B. H. Thorniley, P. Eng.,  
Cobalt, Ontario.

# DIAMOND DRILL RECORD

PROPERTY GOLDEX MINES LTD, RIDGEWAY, HOLE No. S-1-72  
 SHEET NUMBER 1 F/W TO COL. IN FT. \_\_\_\_\_ LEVEL SURFACE  
 LATITUDE 41° 16' N COLLAR EL. 1048 WORK PLACE Claim # 2172/3  
 DEPARTURE and 160' E of E. Bdy AZIMUTH 209° DEPTH 74.8'  
 DATE 28<sup>th</sup> Aug to 7<sup>th</sup> Sept 72 DIP -47° CORE TYPE EX HORIZ. PROJ. 510'

| DEPTH FEET | ROCK TYPE  | ASSAY VALUES |      |    |       |                 |
|------------|--|--------------|------|----|-------|-----------------|
|            |  | Sample No.   | From | To | Width | Ozs. Ag per Ton |
| 0-23       | Casing 5-12' Incl. down  |              |      |    |       |                 |
| 23-32      | 2 1/2" pipe (boulder?) Dark grey-black - med. grained. w/ small black spots (boulders) 3'-32' in appearance - coarse boulders broken at 32' - no visible contact |              |      |    |       |                 |
| 32-74      | COHENAN FORMATION SEDIMENTS  |              |      |    |       |                 |
| 32-86      | Conglomerate w/ red granite boulders - med. grained. matrix 60% - matrix grey, coarse med. grained   |              |      |    |       |                 |
|            | @ 56.9 feet - zone of white stanger tuff and stained w/ hematite 40° N   |              |      |    |       |                 |

TPC - NL

DRILLED BY .....

SIGNED B. A. Thorsen

# DIAMOND DRILL RECORD

PROPERTY ..... HOLE No. 3-1-72

SHEET NUMBER 5 SECTION FROM ..... TO ..... STARTED .....

LATITUDE ..... DATUM ..... COMPLETED .....

DEPARTURE ..... BEARING ..... ULTIMATE DEPTH .....

ELEVATION ..... DIP ..... PROPOSED DEPTH .....

| DEPTH FEET | FORMATION   | SAMPLE NO. | FROM | TO | WIDTH | ASSAY VALUES |  |  |  |
|------------|---|------------|------|----|-------|--------------|--|--|--|
|            |   |            |      |    |       |              |  |  |  |
| 86-23      | Shale - massive - light gray to brownish, silty<br>6" to 1" thick. Light gray to brownish, silty<br>compact, massive. No visible bedding. Contact<br>at the quadrantal. |            |      |    |       |              |  |  |  |
| 17-113     | Zone of 6" to 1" thick, light gray to brownish, silty<br>shale. Contact at 17-113.  |            |      |    |       |              |  |  |  |
| 2035       | Thin, brown, coarse - 1/2" to 1" thick, silty, silty<br>fine-grained, silty, stained - no marked alteration   |            |      |    |       |              |  |  |  |
| 2035-209   | 209 - left guard + last core  |            |      |    |       |              |  |  |  |

NORTHERN MINER FORM 505 REV. 54

DRILLED BY \_\_\_\_\_ SIGNED \_\_\_\_\_





# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE No. G+1-72  
 SHEET NUMBER 4 SECTION FROM \_\_\_\_\_ TO \_\_\_\_\_ STARTED \_\_\_\_\_  
 LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ PROPOSED DEPTH \_\_\_\_\_

| DEPTH FEET    | FORMATION  | SAMPLE NO. | FROM | TO | WIDTH | ASSAY VALUES |  |  |  |
|---------------|--|------------|------|----|-------|--------------|--|--|--|
|               |  |            |      |    |       |              |  |  |  |
|               | @ 399.5 $\frac{1}{2}$ " white Ca 40°   |            |      |    |       |              |  |  |  |
| 364.5 - 368.5 | Black basic Intrusive similar to that at start of hole - contacts steep (45°) & very fine grained w/ to mag. only - med to coarse grained w/ black min flint - dark grey groundmass. |            |      |    |       |              |  |  |  |
| 368.5 - 406.5 | Grey rock - as above - bedding at 393.3 (45°) Coarser grained than above.  |            |      |    |       |              |  |  |  |
| (399)         | @ 392.9 395.2 & 395.6 Reddish pink layers of Ca (50°) n.v.m. - do not look significant structures  |            |      |    |       |              |  |  |  |
| 406.5 - 407.7 | Black basic Intrusive as above - contact at 406.5 -> steep 50° - at 407.7 indistinct. - @ 407.3 $\frac{1}{2}$ " zone of  |            |      |    |       |              |  |  |  |

# DIAMOND DRILL RECORD

PROPERTY ..... HOLE No. G-1-72  
 SHEET NUMBER 5 SECTION FROM ..... TO ..... STARTED .....  
 LATITUDE ..... DATUM ..... COMPLETED .....  
 DEPARTURE ..... BEARING ..... ULTIMATE DEPTH .....  
 ELEVATION ..... DIP ..... PROPOSED DEPTH .....

| DEPTH FEET    | FORMATION   | SAMPLE NO. | FROM | TO | WIDTH | ASSAY VALUES |  |  |  |
|---------------|---|------------|------|----|-------|--------------|--|--|--|
|               |   |            |      |    |       |              |  |  |  |
|               | <p>Traces of white Ca // to contact - non. core w/ 5<br/>concentric fractures over 4".</p>                        |            |      |    |       |              |  |  |  |
| 407.5 - 436.2 | Pebble greywacke - (as above)   |            |      |    |       |              |  |  |  |
|               | @ 418.1 1/8" off-white Ca structure 60° n.w.m.  |            |      |    |       |              |  |  |  |
| 436.2 - 444.5 | Pebble greywacke hit w/ very coarse grained gneiss contact at 436.2 sharp 30°.                                    |            |      |    |       |              |  |  |  |
| 444.5 - 485   | Pebble greywacke - conglomerate - Pebbles chiefly derived from red-felspathic granite. Vol. pebbles = vol gneiss. |            |      |    |       |              |  |  |  |
|               | @ 446.8 1/2" white Q lens // to contact   |            |      |    |       |              |  |  |  |
|               | @ 478.2 + 478.8 lenses of white Ca (45°) n.w.m. - 1 foot zone of base core.                                       |            |      |    |       |              |  |  |  |

# DIAMOND DRILL RECORD

PROPERTY .....

HOLE No. 19-1-72

SHEET NUMBER .....

SECTION FROM .....

TO .....

STARTED .....

LATITUDE .....

DATUM .....

COMPLETED .....

DEPARTURE .....

BEARING .....

ULTIMATE DEPTH .....

ELEVATION .....

DIP .....

PROPOSED DEPTH .....

| DEPTH FEET  | FORMATION   | SAMPLE NO. | FROM | TO | WIDTH | ASSAY VALUES |  |  |  |
|-------------|---|------------|------|----|-------|--------------|--|--|--|
|             |   |            |      |    |       |              |  |  |  |
| 485 - 502   | Pebbly greywacke -  |            |      |    |       |              |  |  |  |
|             | and ground mass becomes coarser grained                           |            |      |    |       |              |  |  |  |
|             | Contact at 502 arbitrary.   |            |      |    |       |              |  |  |  |
| 502 - 608   | Greywacke - grey - fine grained w/ only very weak bedding         |            |      |    |       |              |  |  |  |
|             | 45°   |            |      |    |       |              |  |  |  |
|             | 409 - 411 Zone of refers of white Ca - not a competent            |            |      |    |       |              |  |  |  |
|             | structural zone 45° to 60°  |            |      |    |       |              |  |  |  |
| 5582 - 5588 | fractures of refers of Ca ~ 60° w/ fine stringers                 |            |      |    |       |              |  |  |  |
|             | of calcareous quartzite - Cannot see bedding to be sure if 11° to |            |      |    |       |              |  |  |  |
|             | or 1 to same  |            |      |    |       |              |  |  |  |
| → 603.5     | 1/4" grey-white Ca structure of grain - cp 50° - no               |            |      |    |       |              |  |  |  |

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE No. 6-1-72

SHEET NUMBER 7 SECTION FROM \_\_\_\_\_ TO \_\_\_\_\_ STARTED \_\_\_\_\_

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ PROPOSED DEPTH \_\_\_\_\_

| DEPTH FEET | FORMATION  | SAMPLE NO. | FROM | TO | WIDTH | ASSAY VALUES |  |  |  |
|------------|--|------------|------|----|-------|--------------|--|--|--|
|            |  |            |      |    |       |              |  |  |  |
|            | <i>no bed</i>  |            |      |    |       |              |  |  |  |
| 608-645    | <i>Quartzite - brownish coarse grained with white feldspar - finely mottled thin matrix. Light grey colour</i> |            |      |    |       |              |  |  |  |
| 624        | <i>Due to too fast rate excessive amount of sand falling into hole from 536'</i>                               |            |      |    |       |              |  |  |  |
| 635-725    | <i>quartzite - very fine grained - mottled dark and light grey - weakly bedded</i>                             |            |      |    |       |              |  |  |  |
|            | <i>@ 646' 36'</i>  |            |      |    |       |              |  |  |  |
|            | <i>@ 652' 47'</i>  |            |      |    |       |              |  |  |  |
|            | <i>@ 702' 31'</i>  |            |      |    |       |              |  |  |  |
|            | <i>@ 735.5' 53'</i>  |            |      |    |       |              |  |  |  |

SIGNED \_\_\_\_\_

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE No. G-1-11-  
 SHEET NUMBER 8 SECTION FROM \_\_\_\_\_ TO \_\_\_\_\_ STARTED \_\_\_\_\_  
 LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ PROPOSED DEPTH \_\_\_\_\_

| DEPTH FEET           | FORMATION   | SAMPLE NO. | FROM | TO | WIDTH | ASSAY VALUES |  |  |  |
|----------------------|---|------------|------|----|-------|--------------|--|--|--|
|                      |   |            |      |    |       |              |  |  |  |
| 725 -                | 28' Green shale - w/ sparsely scattered pebbles - occasionally<br>up to 1" dia (quartzite) usually light gray - white pebbles<br>in the zone some pebbles - washed w/ light - yellow-green<br>shale |            |      |    |       |              |  |  |  |
|                      | bed is composed of white to light bedding w/ trace of 50°   |            |      |    |       |              |  |  |  |
|                      | found 200' and below but no marked UP attraction  |            |      |    |       |              |  |  |  |
|                      | has been expected below lake not encountered  |            |      |    |       |              |  |  |  |
| End of hole 748 feet |   |            |      |    |       |              |  |  |  |

# DIAMOND DRILL RECORD

PROPERTY Golden Mines, Inc., Redoubt HOLE No. G-2-72  
 SHEET NUMBER 1 F/W TO COL. IN FT. \_\_\_\_\_ LEVEL SURFACE  
 LATITUDE 64° 10' 30" N COLLAR EL. 1045' WORK PLACE 37218  
 DEPARTURE 8199 E AZIMUTH 103° DEPTH 201'  
 DATE Sept 21st 1952 DIP -60° CORE TYPE 6 HORIZ. PROJ. 350'

| DEPTH FEET | ROCK TYPE  | ASSAY VALUES |      |    |       | Ozs. Ag. per Ton |
|------------|--|--------------|------|----|-------|------------------|
|            |  | Sample No.   | From | To | Width |                  |
| 0-21       | Quartzite  |              |      |    |       |                  |
| 13-701     | QUARTZ FOUNDATION, QUARTZITE   |              |      |    |       |                  |
| 18-70      | quartzite - fine grained light grey - very weakly bedded<br>white - fine grained quartz mass.                                    |              |      |    |       |                  |
| 2-20       | quartzite  |              |      |    |       |                  |
| 70-138     | Quartzite - fine grained light grey - very weakly bedded   |              |      |    |       |                  |
| 138-201    | Quartzite - coarse grained and relatively<br>soft - at 146' - 160' possible<br>intrusive within intrusive. Contacts distinct 45' |              |      |    |       |                  |

DRAILED BY \_\_\_\_\_ SIGNED \_\_\_\_\_

# DIAMOND DRILL RECORD

PROPERTY .....

HOLE No. 5-2-72

SHEET NUMBER 22

SECTION FROM .....

TO .....

STARTED .....

LATITUDE .....

DATUM .....

COMPLETED 21<sup>st</sup> Sept. 72

DEPARTURE .....

BEARING .....

ULTIMATE DEPTH 251

ELEVATION .....

DIP .....

PROPOSED DEPTH 250'

| DEPTH FEET | FORMATION                       | SAMPLE NO. | FROM | TO | WIDTH | ASSAY VALUES |  |  |     |
|------------|---------------------------------|------------|------|----|-------|--------------|--|--|-----|
|            |                                 |            |      |    |       |              |  |  |     |
|            | 24 3' 1/2" green chert sec.     |            |      |    |       | 350          |  |  |     |
|            | 25 - 205" 1/2" white chert sec. |            |      |    |       | 400          |  |  | 60° |
|            | 27 1/2" 1/2" white chert sec.   |            |      |    |       | 300          |  |  | 30° |
|            | 28 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 29 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 30 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 31 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 32 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 33 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 34 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 35 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 36 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 37 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 38 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 39 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 40 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 41 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 42 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 43 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 44 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 45 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 46 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 47 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 48 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 49 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 50 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 51 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 52 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 53 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 54 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 55 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 56 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 57 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 58 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 59 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 60 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 61 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 62 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 63 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 64 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 65 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 66 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 67 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 68 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 69 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 70 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 71 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 72 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 73 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 74 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 75 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 76 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 77 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 78 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 79 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 80 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 81 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 82 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 83 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 84 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 85 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 86 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 87 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 88 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 89 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 90 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 91 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 92 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 93 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 94 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 95 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 96 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 97 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 98 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 99 1/2" 1/2" white chert sec.   |            |      |    |       |              |  |  |     |
|            | 100 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 101 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 102 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 103 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 104 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 105 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 106 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 107 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 108 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 109 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 110 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 111 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 112 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 113 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 114 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 115 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 116 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 117 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 118 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 119 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 120 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 121 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 122 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 123 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 124 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 125 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 126 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 127 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 128 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 129 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 130 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 131 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 132 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 133 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 134 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 135 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 136 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 137 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 138 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 139 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 140 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 141 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 142 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 143 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 144 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 145 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 146 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 147 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 148 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 149 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 150 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 151 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 152 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 153 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 154 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 155 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 156 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 157 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 158 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 159 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 160 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 161 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 162 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 163 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 164 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 165 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 166 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 167 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 168 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 169 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 170 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 171 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 172 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 173 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 174 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 175 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 176 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 177 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 178 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |
|            | 179 1/2" 1/2" white chert sec.  |            |      |    |       |              |  |  |     |

# DIAMOND DRILL RECORD

PROPERTY .....

HOLE No. G-2

SHEET NUMBER 3

SECTION FROM .....

TO .....

STARTED .....

LATITUDE .....

DATUM .....

COMPLETED .....

DEPARTURE .....

BEARING .....

ULTIMATE DEPTH .....

ELEVATION .....

DIP .....

PROPOSED DEPTH .....

| DEPTH FEET  | FORMATION   | SAMPLE NO. | FROM | TO | WIDTH | ASSAY VALUES |  |  |  |
|-------------|---|------------|------|----|-------|--------------|--|--|--|
|             |   |            |      |    |       |              |  |  |  |
|             | parallel to strike 60°  |            |      |    |       |              |  |  |  |
| 272 - 46    | red browned left grey very weakly<br>red yellowish white        |            |      |    |       |              |  |  |  |
| 2965 - 2980 | zone of irregularly of white - some<br>faintly bedding          |            |      |    |       |              |  |  |  |
|             | massive zone - granitic - matrix of -<br>limestone pure calcite |            |      |    |       |              |  |  |  |
|             | 3363 (3370) 1" white Q slates - 60 + 45°                        |            |      |    |       |              |  |  |  |
|             | 3514 1/2" zone of white interlocking shingles 30°               |            |      |    |       |              |  |  |  |
|             | 3715 + 3740 1/2" white Q slates - parallel bedding              |            |      |    |       |              |  |  |  |



# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE No. 9.2

SHEET NUMBER 4 SECTION FROM \_\_\_\_\_ TO \_\_\_\_\_ STARTED \_\_\_\_\_

LATITUDE \_\_\_\_\_ DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_

DEPARTURE \_\_\_\_\_ BEARING \_\_\_\_\_ ULTIMATE DEPTH \_\_\_\_\_

ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_ PROPOSED DEPTH \_\_\_\_\_

| DEPTH FEET | FORMATION  | SAMPLE NO. | FROM | TO | WIDTH | ASSAY VALUES |  |  |  |
|------------|--|------------|------|----|-------|--------------|--|--|--|
|            |  |            |      |    |       |              |  |  |  |
| 464 - 480  | Reddish gray sandstone - pebbles mostly of pink siliceous or pink quartzite type -<br>at 469 some siliceous pebbles - probably 50' cut - 1/2 inch core<br>was - 469 - 479 - 480 - 481 - 482 - 483 - 484 - 485 - 486 - 487 - 488 - 489 - 490<br>quartzite fragments |            |      |    |       |              |  |  |  |
| 480 - 560  | Conglomerate of red granite pebbles & cobbles  |            |      |    |       |              |  |  |  |
| 560 -      | Gray sandstone - fine grained light gray weakly bedded to<br>unbedded<br>Some conc. frags to 646   |            |      |    |       |              |  |  |  |
|            | @ 662 1/2' white Ca. Sludge 25' n.v.m. // bedding  |            |      |    |       |              |  |  |  |

End of hole 701' SIGNED B.H. Thornley P. Eng.

# DIAMOND DRILL RECORD

PROPERTY GOLDEN MINES LTD. RIDDER TWP. HOLE No. G-3-72  
 SHEET NUMBER 1 F/W TO COL. IN FT. \_\_\_\_\_ LEVEL SURFACE  
 LATITUDE 49° 58' N COLLAR EL. 1000 WORK PLACE CLAY # 296696  
 DEPARTURE 120' E AZIMUTH 30° DEPTH 965'  
 DATE 27 Sept 53 DIP 30 1/2° CORE TYPE EX HORIZ. PROJ. 110 B

| DEPTH FEET  | ROCK TYPE   | ASSAY VALUES |      |     |       |                  |
|-------------|---|--------------|------|-----|-------|------------------|
|             |   | Sample No.   | From | To  | Width | Ozs. Ag. per Ton |
| 0-25        | Dark shale  |              |      |     |       |                  |
| 25-510.6    | Dark shale with red stain                                     |              |      |     |       |                  |
| 510.6-511.5 | 3' interval change of color of shale - core 760 mm            |              |      |     |       |                  |
| 511.5-512.5 | Shale with red stain  |              |      |     |       |                  |
| 512.5-513.5 | Shale with red stain  | G-3-1        | 765  | 782 | 17    | Trace            |
| 513.5-514.5 | Shale with red stain - fracture of 1/16" chert                |              |      |     |       |                  |
| 514.5-515.5 | Shale with red stain  |              |      |     |       |                  |
| 515.5-516.7 | Shale with red stain - irregular fracture of 1/16" chert      |              |      |     |       |                  |
| 516.7-517.9 | Shale with red stain - small inclusions (100) mm              |              |      |     |       |                  |
| 517.9-518.5 | Shale with red stain and pink red color - center              |              |      |     |       |                  |
| 518.5-519.5 | Shale with red stain  |              |      |     |       |                  |
| 519.5-520.5 | Fractures with chert filling and core of white chert (100) mm |              |      |     |       |                  |

TPC - 14

DRILLED BY \_\_\_\_\_ SIGNED \_\_\_\_\_

# DIAMOND DRILL RECORD

PROPERTY..... HOLE No. 0122

SHEET NUMBER 2 SECTION FROM..... TO..... STARTED.....

LATITUDE..... DATUM..... COMPLETED.....

DEPARTURE..... BEARING..... ULTIMATE DEPTH.....

ELEVATION..... DIP..... PROPOSED DEPTH.....

| DEPTH FEET | FORMATION  | SAMPLE NO. | FROM  | TO      | WIDTH | ASSAY VALUES |  |  |  |
|------------|--|------------|-------|---------|-------|--------------|--|--|--|
|            |  |            |       |         |       |              |  |  |  |
|            | @ 430 Irregular block of white Co followed by sheared fractures<br>to 432 110  |            |       |         |       |              |  |  |  |
|            | @ 497 dk brown fine grained - contact at 510.6<br>marked due to 510.6. No sherd margin visible                           |            |       |         |       |              |  |  |  |
| 506-       | HURONIAN SEDIMENTS - Greenish - very fine grained  |            |       |         |       |              |  |  |  |
| 510.6-517  | bedded near contact 60° - very weakly bedded over<br>rest of greenish - @ 556 70° brown masses from<br>hard to dark grey |            |       |         |       |              |  |  |  |
|            |  | G3-2       | 510.5 | 5120.15 |       | Trace        |  |  |  |
|            |  | G3-3       | 512.0 | 5130.10 |       | Trace        |  |  |  |
|            | Flat break at about 512. Nuggy mud (grey) w/ ca. 1% talc   |            |       |         |       |              |  |  |  |

# DIAMOND DRILL RECORD

PROPERTY ..... HOLE No. 5-3-72

SHEET NUMBER 3 SECTION FROM ..... TO ..... STARTED .....

LATITUDE ..... DATUM ..... COMPLETED .....

DEPARTURE ..... BEARING ..... ULTIMATE DEPTH .....

ELEVATION ..... DIP ..... PROPOSED DEPTH .....

| DEPTH FEET | FORMATION                      | SAMPLE NO. | FROM | TO  | WIDTH | ASSAY VALUES                             |  |  |  |
|------------|--------------------------------|------------|------|-----|-------|--|--|--|--|
|            |                                |            |      |     |       |  |  |  |  |
|            |                                | 53-4       | 53   | 514 | 515   | Nil                                      |  |  |  |
| 362-       | low sandy shale                |            |      |     |       | Kematite stain at 555'                   |  |  |  |
| (black)    |                                |            |      |     |       |  |  |  |  |
| 567-572.5  | Alteration down                |            |      |     |       | color change to grey                     |  |  |  |
|            | Fractures 10° of true S. W. N. |            |      |     |       |  |  |  |  |
| 567-586    | Grey shale lit                 |            |      |     |       | small pebbles appear scattered thru core |  |  |  |
| (572.5)    |                                | 93-5       | 569  | 570 | 1'0   | Tiaca                                    |  |  |  |
|            |                                |            |      |     |       |  |  |  |  |
|            |                                |            |      |     |       |  |  |  |  |
|            |                                |            |      |     |       |  |  |  |  |
|            |                                |            |      |     |       |  |  |  |  |

# DIAMOND DRILL RECORD

PROPERTY ..... HOLE No. 9-3-72  
 SHEET NUMBER ..... F/W TO COL. IN FT. .... LEVEL .....  
 LATITUDE ..... COLLAR EL. .... WORK PLACE .....  
 DEPARTURE ..... AZIMUTH ..... DEPTH .....  
 DATE ..... DIP ..... CORE TYPE ..... HORIZ. PROJ. ....

| DEPTH FEET | ROCK TYPE  | ASSAY VALUES |      |    |       |                  |
|------------|--|--------------|------|----|-------|------------------|
|            |  | Sample No.   | From | To | Width | Ozs. Ag. per Ton |
| 52-586     | Geywahe w/ scattered pebbles - matrix dark grey & fine grained - unbedded.   |              |      |    |       |                  |
| 586-619    | Geywahe - fine grained, dark grey unbedded.<br>@ 582.5 1' lost core due to grinding  |              |      |    |       |                  |
| 619-650    | Geywahe - light grey with brown tinge bedding about 60° - medium grained<br>@ 618.5 1' lost core.<br>@ 621.0 1/8" white Ca string 85° nvm.<br>@ 631.4 1/8" white Ca 90° nvm. |              |      |    |       |                  |
| 650-660    | Geywahe light grey - coarse grained, weakly bedded   |              |      |    |       |                  |

SIGNED .....

# DIAMOND DRILL RECORD

PROPERTY ..... HOLE No. G-3-72  
 SHEET NUMBER ..... F/W TO COL. IN FT. .... LEVEL .....  
 LATITUDE ..... COLLAR EL. .... WORK PLACE .....  
 DEPARTURE ..... AZIMUTH ..... DEPTH .....  
 DATE ..... DIP ..... CORE TYPE ..... HORIZ. PROJ. ....

| DEPTH FEET  | ROCK TYPE  | ASSAY VALUES |      |          |                  |
|-------------|--|--------------|------|----------|------------------|
|             |  | Sample No.   | From | To       | Ozs. Ag. per Ton |
| 660-675     | Greywacke - dark grey - medium grained   |              |      |          |                  |
|             | @ 667 Irregular pink ophiolite inclusions                                      | 6"           | side | Contacts | 70°              |
| 675-753     | Greywacke - med grained unbedded w/ scattered pebbles.                         |              |      |          |                  |
| 753-803     | Greywacke - light grey - medium grained - bedding about 60°                    |              |      |          |                  |
|             | few scattered pebbles. 803.5-804.5   |              |      |          | Weak congl. bed. |
|             | @ 804 Irregular pink (a wedge 40° n.w.)  |              |      |          |                  |
| 808-865     | Greywacke - dark grey - fine grained w/ bedding becoming evident after 800 45° |              |      |          |                  |
| 796.2-798.7 | Dark congl. bed.   |              |      |          |                  |
|             | End of hole 865'   |              |      |          | Bad core & sand  |
|             | encountered in bottom of hole - cement if we were to continue.                 |              |      |          |                  |

DRAINED BY ..... SIGNED B.H. Thorniley P. Eng.

Cassels Twp.

THE TOWNSHIP OF  
OF

**RIDDELL**

DISTRICT OF  
NIPISSING

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

|                       |        |
|-----------------------|--------|
| PATENTED LAND         | Ⓟ      |
| CROWN LAND SALE       | C.S.   |
| LEASES                | Ⓞ      |
| LOCATED LAND          | Loc.   |
| LICENSE OF OCCUPATION | L.O.   |
| MINING RIGHTS ONLY    | M.R.O. |
| SURFACE RIGHTS ONLY   | S.R.O. |
| ROADS                 | —      |
| IMPROVED ROADS        | —      |
| KING'S HIGHWAYS       | —      |
| RAILWAYS              | —      |
| POWER LINES           | —      |
| MARSH OR MUSKEG       | —      |
| MINES                 | Ⓜ      |
| CANCELLED             | C.     |

NOTES

This Twp. Lies Within The  
**TIMAGAMI PROVINCIAL FOREST**

400' Surface Rights Reservation around  
all Lakes and Rivers.

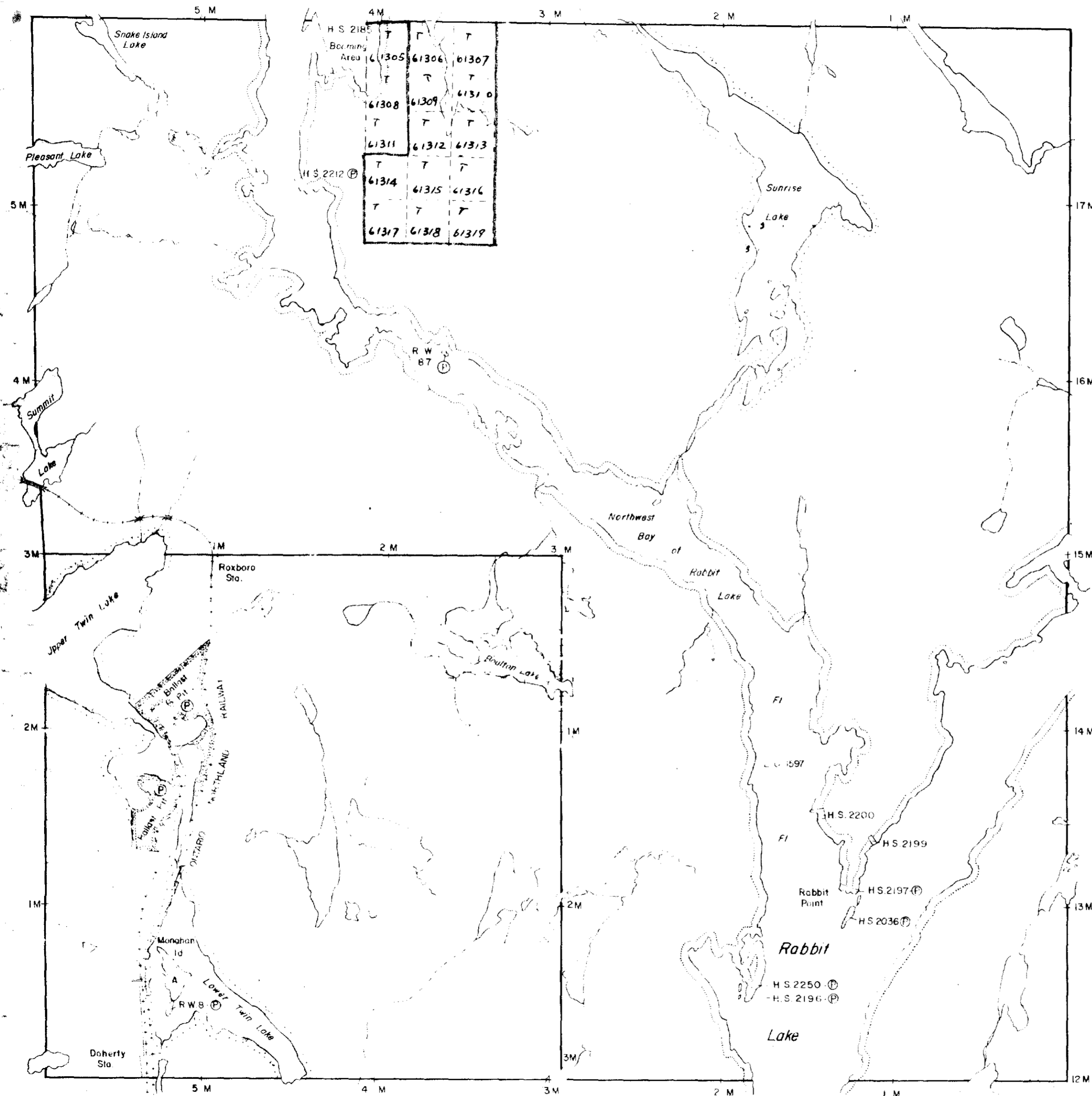
Flooding Rights on Rabbit Lake to contour 5'  
L.O. 1597 - File: 1165

Ballast Pits along Ont. Northland Railway covered  
by Order-in-Council 24 Jan 1906 File: 3170/06

PLAN NO.- **M.578**

DEPARTMENT OF MINES

— ONTARIO —



Stratton Twp.

Eldridge Twp.

Askin Twp.



31M045W0117 11 RIDDELL

Best Twp.M.417

THE TOWNSHIP OF  
OF  
**CASSELS**

DISTRICT OF  
NIPISSING

LARDER LAKE  
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

|                       |           |
|-----------------------|-----------|
| PATENTED LAND         | Ⓟ         |
| CROWN LAND SALE       | C.S.      |
| LEASES                | Ⓛ         |
| LOCATED LAND          | Loc.      |
| LICENSE OF OCCUPATION | L.O.      |
| MINING RIGHTS ONLY    | M.R.O.    |
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| ROADS                 | — — — — — |
| IMPROVED ROADS        | — — — — — |
| KING'S HIGHWAYS       | — — — — — |
| RAILWAYS              | — — — — — |
| POWER LINES           | — — — — — |
| MARSH OR MUSKEG       | — — — — — |
| MINES                 | Ⓧ         |
| CANCELLED             | C.        |

NOTES

400' Surface rights reservation around all lakes and rivers.

DATE OF ISSUE  
  
ONTARIO DEPT. OF MINES

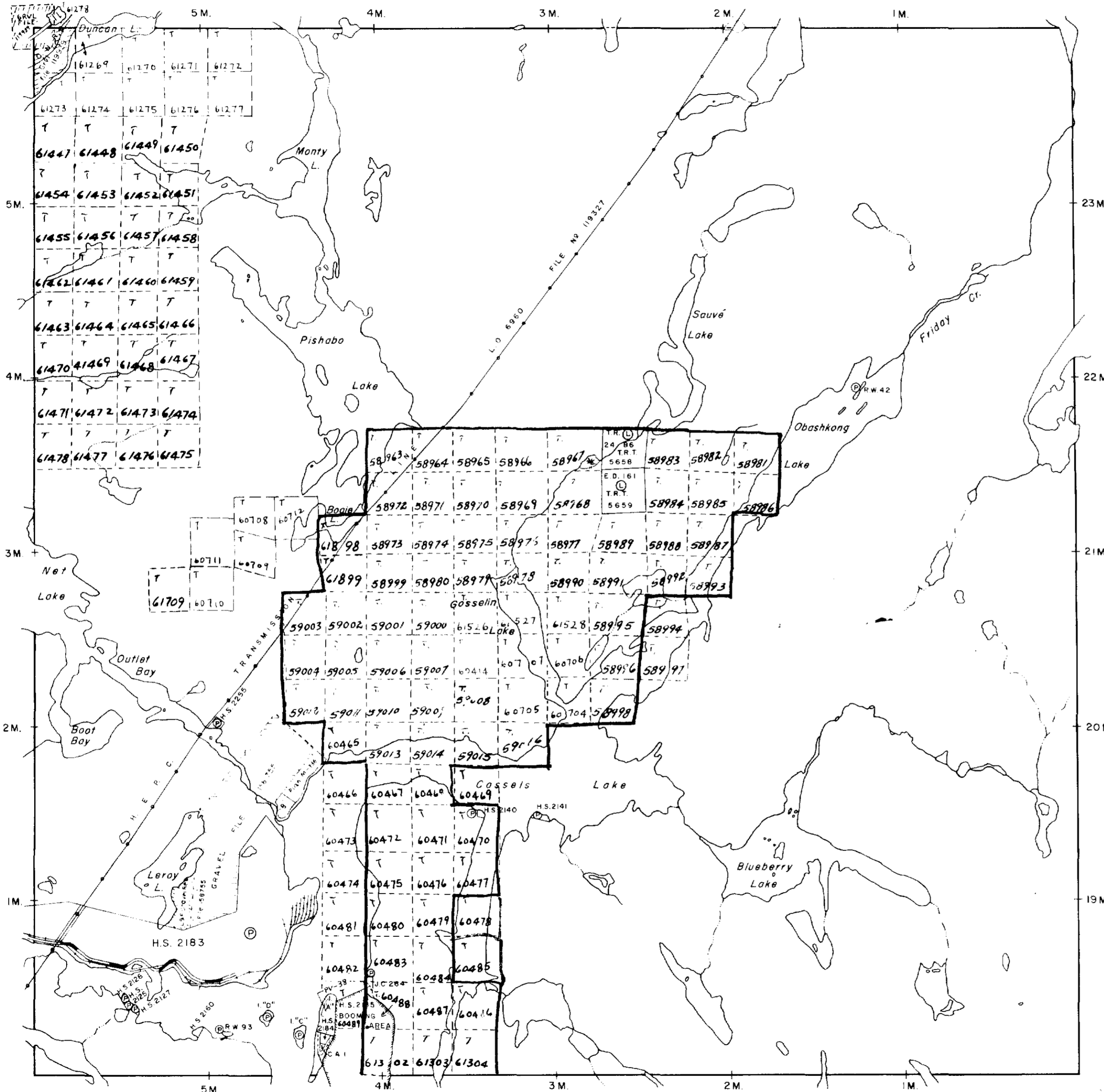
PLAN NO.- **M-444**

DEPARTMENT OF MINES

— ONTARIO —

South Lorrain Twp.M.591

Strathy Twp.M.596

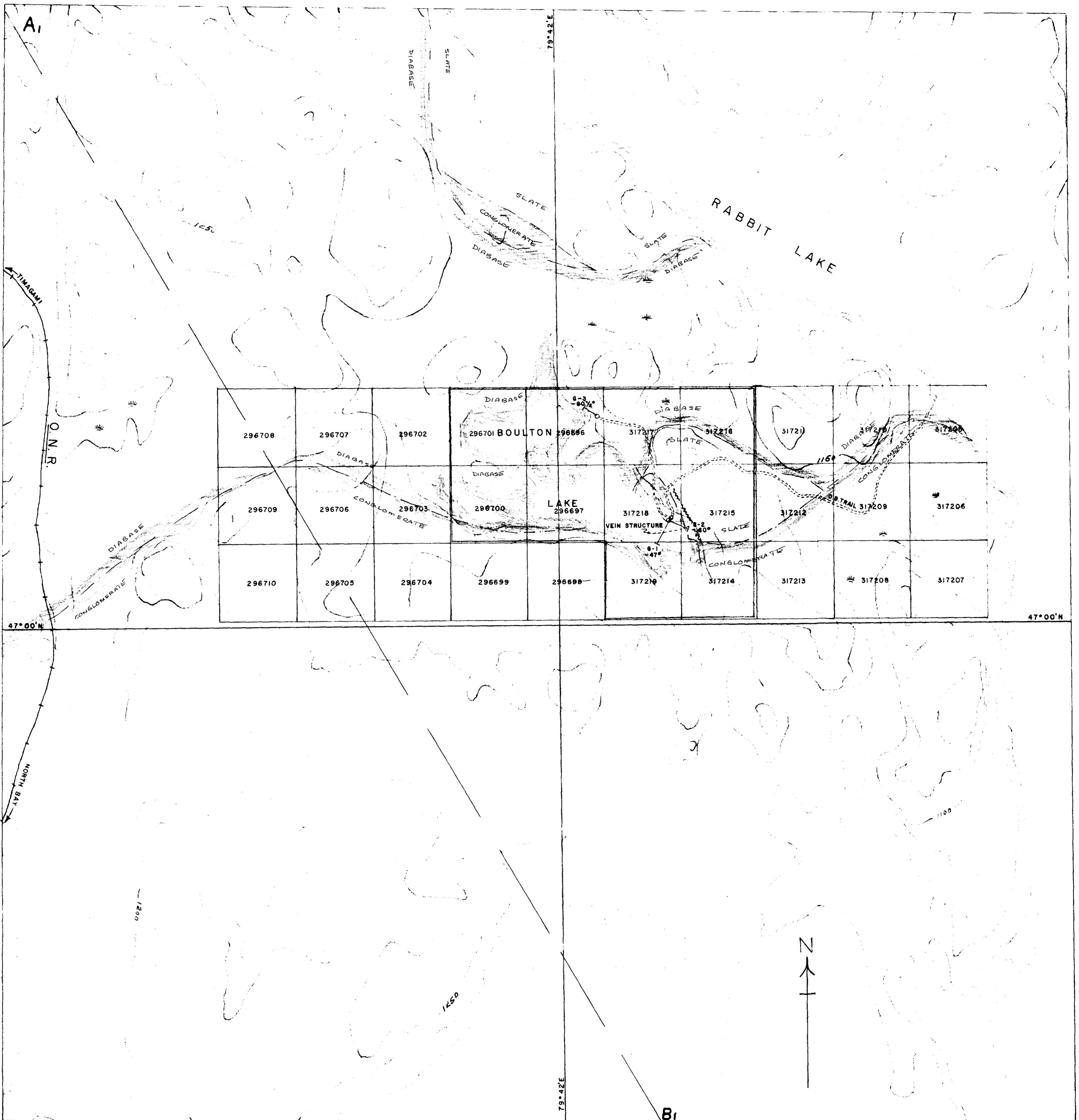


Riddell Twp.M.578



31M045W0117 11 RIDDELL





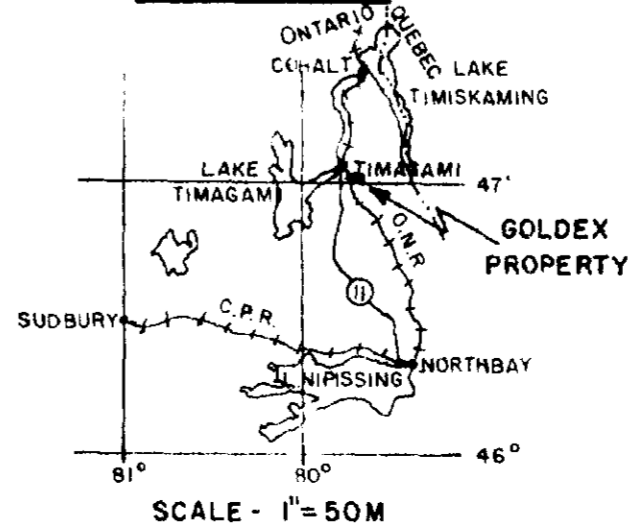
**LEGEND**

- NIPISSING DIABASE
  - SLATE LIKE GREYWACKE
  - CONGLOMERATES
  - KEEWATIN ROCK TYPES
  - CALCITE STRUCTURES
- LOWER COLEMAN FORMATION  
ABSENT FROM MAP AREA

**SYMBOLS**

- CLAIM LINES
- BUSH ROADS
- LAKES
- SWAMP
- TOPOGRAPHIC CONTOURS
- DIAMOND DRILL HOLES
- D.D. TRAILS

**AREA MAP**



**GOLDEX MINES LIMITED**

TORONTO—ONTARIO

|          |                              |
|----------|------------------------------|
| PLAN     | SURFACE GEOLOGY & D.D. HOLES |
| LOCATION | BOULTON LAKE—RIDDELL TW'P    |
| SCALE    | 1 10,000 or 1" = 833'        |
| DATE     | AUGUST — 1972                |
| MAP No.  | 1 B.H. Thorsley P. Eng       |



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RiddeLL Twp.  
Boulton Lake  
Report # 87-73

