



32012SE0041 13 HOLLOWAY

DIAMOND DRILL

010

TOWNSHIP: Holloway

REPORT No.: 13

WORK PERFORMED BY: Amax Ltd.

| <u>CLAIM No.</u> | <u>HOLE No.</u> | <u>FOOTAGE</u> | <u>DATE</u> | <u>NOTE</u> |
|------------------|-----------------|----------------|-------------|-------------|
| L 596246 | 839-42-28 | 531.49 | June/82 | (1) |
| L 579664 | 839-42-29 | 482.28 | June/82 | (1) |
| L 596245 | 839-42-30 | 403.54 | June/82 | (1) |
| L 586632 | | | | |
| L 596257 | 839-42-31 | 354.33 | June/82 | (1) |
| L 628048 | 839-42-32 | 561.02 | June/82 | (1) |
| L 596247 | 010-42-33 | 600.39 | June/82 | (1) |
| L 579655 | 010-42-34 | 925.20 | June/82 | (1) |
| L 628048 | 010-42-35 | 841.53 | June/82 | (1) |
| L 579671 | 010-42-36 | 662.73 | June/82 | (1) |
| L 628048 | 010-42-37 | 458.33 | June/82 | (1) |
| | 010-42-38 | 610.24 | June/82 | (1) |
| | 010-42-39 | 585.63 | June/82 | (1) |

NOTES: (1) #82-83

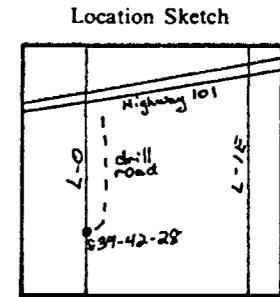
DATA PERTAINING TO DIAMOND DRILL LOGS BEING SUBMITTED FOR ASSESSMENT CREDITS:

| Hole No. | Depth | | Core Size | Co-ords. | Dip | Grid | Claim No. |
|----------------|----------|---------|-----------|----------------|------------------|------|--|
| | (Metres) | (Feet) | | | | | |
| 839-42-28 | 162.0 | 531.49 | BQ | L-0+00; 4+75S | -45 ⁰ | N | L-596246 ✓ |
| 839-42-29 | 147.0 | 482.28 | BQ | L-1200E; 050N | -50 ⁰ | N | L- <u>579664</u> ? |
| 839-42-30 | 123.0 | 403.54 | BQ | L-600E; 75N | -45 ⁰ | N | L-596245 (67.78 L- <u>586632</u> (335.76) |
| 839-42-31 | 108.0 | 354.33 | BQ | L-600W; 600N | -50 ⁰ | N | L-596257 (14.44 L-596257 (339.89) |
| 839-42-32 | 171.0 | 561.02 | BQ | L-600E; 587.5N | -45 ⁰ | N | L- <u>628048</u> |
| 010-42-33 | 183.0 | 600.39 | BQ | L-400E; 450S | -42 ⁰ | N | L-596246 ✓ |
| 010-42-34 | 282.0 | 925.20 | BQ | L-2000E; 37.5N | -45 ⁰ | N | L-579656 ✓ |
| 010-42-35 | 256.5 | 841.53 | BQ | L-2600E; 3+12N | -60 ⁰ | N | L- <u>628048</u> |
| 010-42-36 | 202.0 | 662.73 | BQ | L-800E; 325S | -45 ⁰ | N | L-579671 ✓ |
| 010-42-37 | 139.70 | 458.33 | BQ | L-2600E; 3+30N | -55 ⁰ | N | L- <u>628048</u> |
| 010-42-38 | 186.0 | 610.24 | BQ | L-2650E; 305N | -60 ⁰ | N | L- <u>628048</u> |
| 010-42-39 | 178.50 | 585.63 | BQ | L-2550E; -310N | -60 ⁰ | N | L- <u>628048</u> |
| Total Footage: | | 7016.71 | | | | | |

AMAX MINERALS EXPLORATION
 (A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 839-42-28

| | | | |
|----------------------------|---------------------|--------------------------------|------------------|
| Hole No. 839-42-28 Sheet 1 | Length 162.0 metres | Commenced June 16, 1982 | Dip: Collar -45° |
| Property N. W. Holloway | Bearing True North | Completed June 18, 1982 | Etch Test 1 |
| Township Holloway | Dip -45° | Drilling Co. St. Lambert | Depth 162.0m |
| Location L - 0+00 4+75S | | Core Size BQ | Rdg. 48° |
| Logged By John Walmsley | | Casing Left/ Lost in Hole none | True 41° |
| Core Location Perry Lake | | | |



North
 ↑
 Claim No. L-596246
 Scale: 1:10,000

| Metres | | DESCRIPTION |
|--------|--------|----------------------------|
| From | To | |
| 0 | 28.00 | OVERBURDEN |
| 28.00 | 105.90 | MAFIC VOLCANICS |
| 105.90 | 107.86 | CONTACT BRECCIA |
| 107.86 | 108.97 | GREYWACKE |
| 108.97 | 119.80 | QUARTZITE - ARKOSE |
| 119.80 | 121.89 | FAULT ZONE |
| 121.89 | 123.00 | IRON FORMATION - JASPILITE |
| 123.00 | 130.29 | ARKOSE |
| 130.29 | 144.84 | QUARTZITE |
| 144.84 | 162.00 | GREYWACKE |
| | 162.00 | END OF HOLE |

John Walmsley

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 839-42-28

Sheet No. 4

| Metres | | D E S C R I P T I O N |
|--------|--------|--|
| From | To | |
| 0 | 28.00 | OVERBURDEN |
| | | sand, clay, gravel and boulders |
| 28.00 | 105.90 | MAFIC VOLCANICS |
| | | A fine, grading to coarse grained, moderately hard, greenish rock. The rock is quite carbonated and numerous quartz and quartz-carbonate veins are present, many running at 10° and 20° to the core axis. The veins increase in number on moving down hole and in zones of dense veining. The rock is quite hard due to silicification. The rock is quite chlorite rich and patches of sulphides occurring around the veining make up less than 1% of the rock. The rock becomes weakly magnetic around 30 metres. |
| | | Beginning at about 42 metres, the rock begins to grade finer and quartz veining is slightly greater with a higher percentage of sulphides in and around the veins. Pyrite is coarsely disseminated and in patches making up less than 1% of the total rock but 1% over the section from 43.14 to 43.23. |
| | | Beginning at 45.0 metres, little quartz and quartz-carbonate veining exists other than a few stringers. The rock remains medium grained and still highly carbonated. Quartz veins run 45° to the core axis. Some veins are slightly hematite stained. At about 69.50 metres, the rock becomes weakly to moderately magnetic. |
| | | 71.34 - 75.22, The rock becomes fine grained, less carbonate rich with numerous quartz and quartz-carbonate stringers causing much sericite alteration around them. The rock is quite fractured and brecciated. At 71.67 a specularite stringer runs 40° to the core axis. About 25% of the rock is quartz. |
| | | The rock remains fine grained below the above section but is much less disturbed. Coarsely disseminated pyrite, patches and pyrite stringers make up less than 1% of the rocks. |
| | | At about 80.10 metres, the rock becomes non-magnetic. Quartz-carbonate veins are small but contain up to 35% (of the vein) pyrite. |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-28

Sheet No. 5

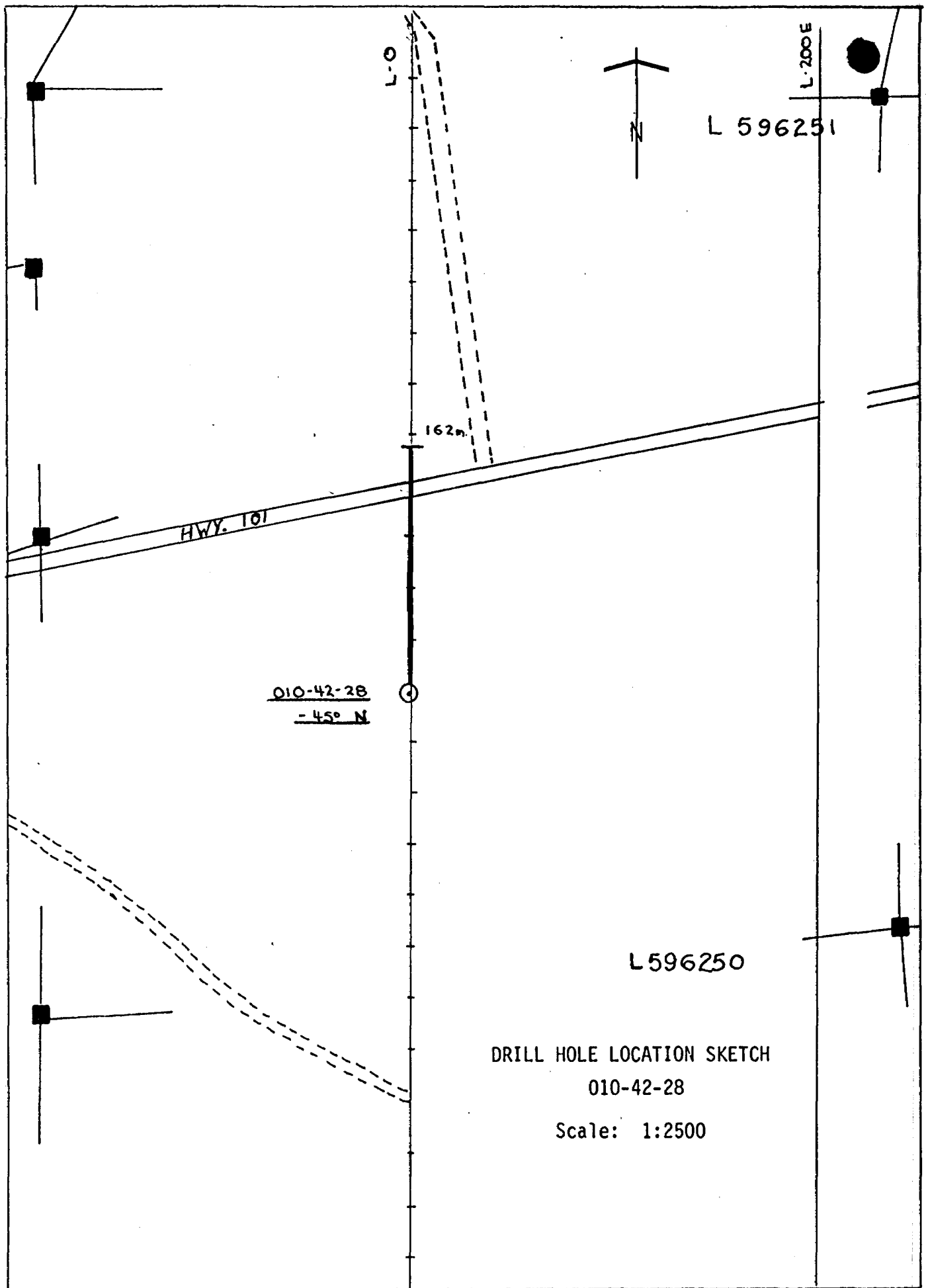
| Metres | | DESCRIPTION |
|--------|--------|---|
| From | To | |
| 28.00 | 105.90 | MAFIC VOLCANICS (continued) |
| | | 85.36 - 102.35, The rock becomes more fractured with numerous quartz-carbonate veins, some up to 9cm thick, making up about 45% of the section. Some slight sericitic alteration. Finely disseminated pyrite is up to about 15% around some veins and close to 1% of the whole section. At least two phases of quartz veining is visible. |
| | | From 96.37 to 97.14 the rock is 80% rust stained and quartz is slightly reddish. |
| | | The rock texture becomes schistose with schistosity running about 40° to the core axis. Quartz veins become more carbonate rich towards the lower boundary of this section. The rock becomes weakly to moderately magnetic around 98.17 metres. |
| | | Around areas of less veining, the rock is very soft and very chlorite rich. |
| 105.90 | 107.86 | CONTACT BRECCIA |
| | | The section has several zones of very siliceous, sericite altered fragments in a siliceous matrix. It is quite fractured and tectonically disturbed. Magnetism persists through most of the rock which suggest the rock is still a mafic flow. |
| 107.86 | 108.97 | GREYWACKE |
| | | A fine grained greenish rock that's soft and non-magnetic with patches of pyrite less than 1%. A sharp down hole contact runs 50° to the core axis. |
| 108.97 | 119.80 | QUARTZITE - ARKOSE |
| | | A coarse grained, grey-green, hard, massive rock containing 40% to 45% quartz-clasts and less than 1% jasper clasts. Clasts are subangular and up to 3mm in diameter. |

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DIAMOND DRILL RECORD

Hole No. 839-42-28

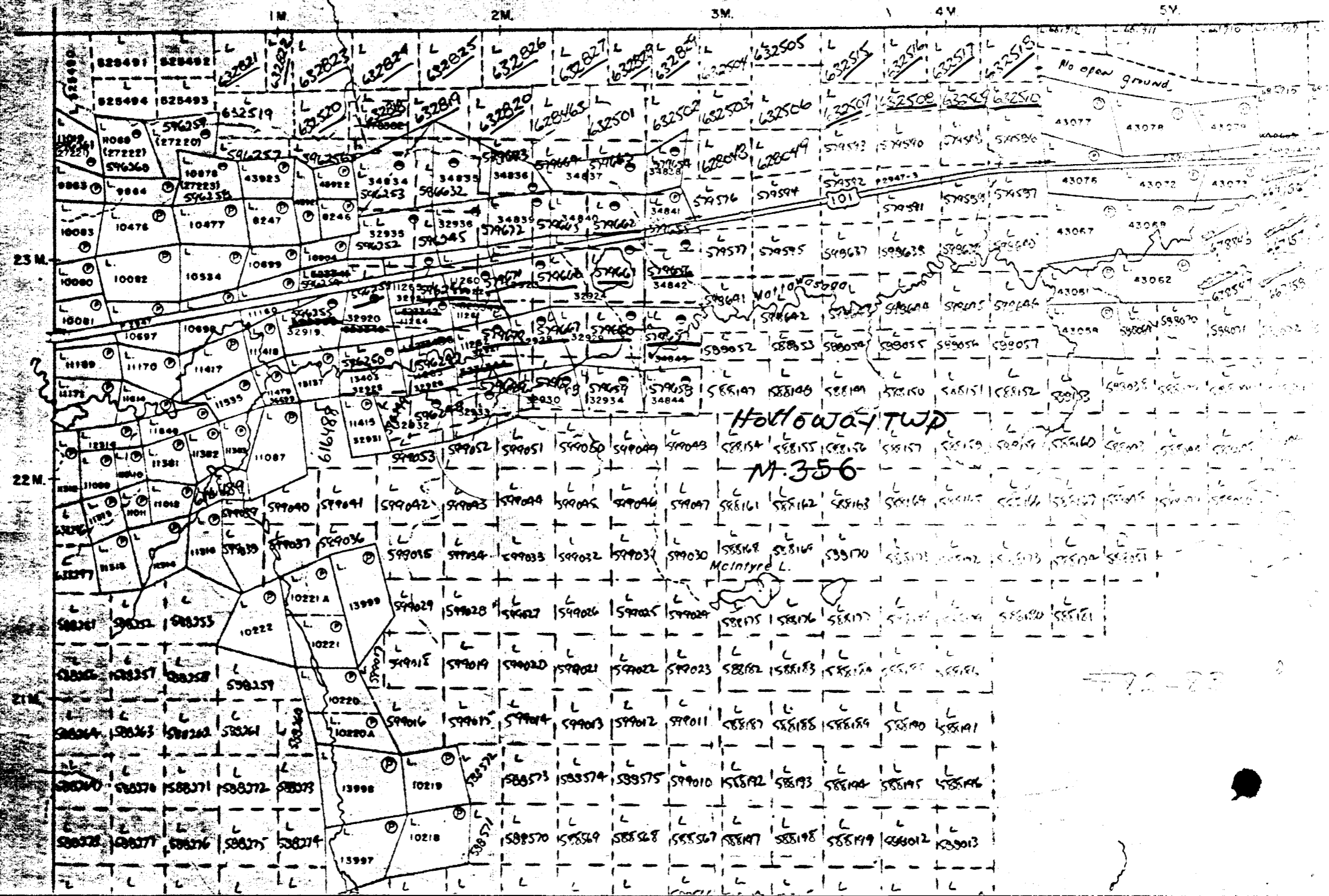
Sheet No. 6

| Metres | | DESCRIPTION |
|--------|--------|--|
| From | To | |
| 108.97 | 119.80 | <p>QUARTZITE - ARKOSE (continued)</p> <p>Finely disseminated pyrite less than 1%. Numerous quartz-carbonate stringers making up about 35% of the rock has caused much sericitic alteration. Moving down hole, the rock becomes finer grained and more fractured. Stringers show much folding on a small scale.</p> |
| 119.80 | 121.89 | <p>FAULT ZONE</p> <p>Highly brecciated, and sericite altered chert having a slight pinkish colour probably due to hematite staining from iron formation below. Actual fault is from 120.83 - 120.94 and runs 15° to the core axis.</p> |
| 121.89 | 123.00 | <p>IRON FORMATION - JASPILITE</p> <p>A hematite rich, highly fractured, reddish-brown sediment with quartz-carbonate veins and stringers making up about 30% of the rock. It is moderately soft with laminations, where not too disturbed, running 40° to the core axis. It is non-magnetic.</p> |
| 123.00 | 130.29 | <p>ARKOSE</p> <p>A coarse grained, fairly hard, greenish-grey rock, slightly sericite altered around quartz-carbonate stringers. 25% of the rock is quartz stringers. Two large quartz veins at 128.0 metres and 128.30 metres run about 10° to the core axis. Finely disseminated pyrite makes up less than 1% of the rock.</p> |
| 130.29 | 144.84 | <p>QUARTZITE</p> <p>As described from 108.97 to 119.80 but with fewer jasper fragments. More highly sericite altered and about 40% of the rock is quartz veins. Pyrite stringers and disseminated pyrite makes up less than 1% of the rock. Rock grades into arkose and then into a greywacke.</p> |



DRILL HOLE LOCATION SKETCH
010-42-28
Scale: 1:2500

HARKER TWP. M. 353



AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

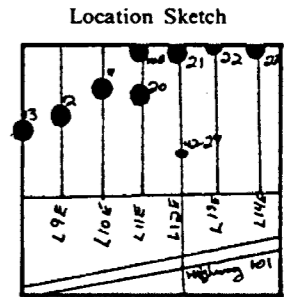
Hole No. 839-42-29

Hole No. 839-42-29 Sheet 1
 Property Holloway-2
 Township Holloway
 Location L 1200E
 050N
 Logged By John Walmsley
 Core Location Perry Lake

Length 147.0 metres
 Bearing True North
 Dip -50°

Commenced June 19, 1982
 Completed June 23, 1982
 Drilling Co. St. Lambert
 Core Size BQ
 Casing Left/ Lost in Hole all

Dip: Collar -50°
 Etch Test 1 Depth 129.0m Rdg. -45° True -39°



North
 Claim No. L-579664
 Scale: 1:10,000

| Metres | | DESCRIPTION |
|--------|--------|--|
| From | To | |
| 0 | 6.76 | OVERBURDEN |
| 6.76 | 19.17 | INTERMEDIATE VOLCANIC (QUARTZ CHLORITE SCHIST) |
| 19.17 | 39.40 | BLEACHED ANDESITE (SERICITE ALTERED) |
| 39.40 | 48.70 | QUARTZ - CHLORITE - SERICITE SCHIST (SHEARED TUFF ?) |
| 48.70 | 75.03 | LAPILLI TUFF |
| 75.03 | 76.18 | GRAPHITIC - CHERT BRECCIA |
| 76.18 | 103.71 | ANDESITE / ANDESITIC TUFF |
| 103.71 | 147.00 | FELSIC TUFF BRECCIA |
| | 147.00 | END OF HOLE |

D. G. D. D.

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-29

Sheet No. 6

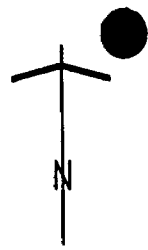
| Metres | | DESCRIPTION |
|--------|-------|--|
| From | To | |
| 39.40 | 48.70 | <p>QUARTZ - CHLORITE - SERICITE SCHIST (SHEARED TUFF ?)</p> <p>A fine to medium grained, light green to grey-green, fairly hard rock with schistosity 30° to the core axis. Colour varies with amount of sericite alteration. No sharp lower contact. Pyrite is finely disseminated and less than 1%.</p> <p>39.40 - 39.79, Graphitic - Chert Shear</p> <p>This sub unit marks the upper contact of this unit. Shearing is 30° to the core axis. The graphitic matrix shows moderate to strong conductivity. The rock is very hard though brittle. Pyrite is in stringers around fragments and less than 1%.</p> <p>46.37 - 47.30, Graphitic - CHERT BRECCIA</p> <p>As described from 39.40 to 39.79 but very little shearing. Extremely brecciated with sulphides less than 1%.</p> |
| 48.70 | 75.03 | <p>LAPILLI TUFF</p> <p>A fairly hard (can be scratched with a knife), light greenish, foliated rock with foliations 40° to the core axis and quite feldspar rich. Fracturing becomes intense on moving down hole. Brecciation also increases, with fragments in quartz and black chert matrix. Sulphide stringers occur within the zones but are less than 1%. "S" folds occur through the core (ie. at 51.0 metres). Some zones of slightly carbonated rock. At 69.50 and 69.42, two rust weathered veins, each about 4cm. thick run about 55° to the core axis. These veins are non-carbonated and non-magnetic.</p> <p>69.97 - 75.03, Breccia. Extremely hard, siliceous fragments in a quartz matrix. Sulphides occur in patches and stringers making up about 1% of this section.</p> |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-29
 Sheet No. 7

| Metres | | DESCRIPTION |
|--------|--------|---|
| From | To | |
| 75.03 | 76.18 | GRAPHITIC - CHERT BRECCIA |
| | | As described from 46.37 - 47.30. Very black matrix and moderately conductive. |
| 76.18 | 103.71 | ANDESITE / ANDESITIC TUFF |
| | | A fine to medium grained, greyish-green to light green, moderately soft, massive rock with lenses of tuff throughout running at 25° to the core axis. Some brecciated zones with fragments in a very fine grained, black, siliceous matrix or a quartz-carbonate matrix. Some sulphide stringers cling to fragment edges but are in the matrix. Some sericitic alteration around veining. Brecciation increases on moving towards down hole contact as do sulphide patches. Foliation around 97.00 metres is 45° to the core axis. Sulphides make up less than 1% of this section. Foliation around 103.0 metres is 50-55° to the core axis. |
| 103.71 | 147.00 | FELSIC TUFF BRECCIA |
| | | Highly sericite altered, fairly soft, angular fragments in a fine grained, dark green, chloritic matrix. Some laminations are slightly crenulated. Foliations run about 50° to the core axis. Fragments become smaller (ie. from 15mm to less than 4mm) on moving down hole. Sulphides occur in patches and stringers and also coarsely to very finely disseminated and average about 1% to 2% of the section. Rock becomes very hard moving down hole. Around 106.5 metres, foliation is 35° to the core axis. Rock is quite siliceous and very hard (ie. can't be scratched with a knife) and fragments are in a quartz matrix. Tuff breccia fragments are altered with the matrix making edges indistinct. Some zones have fragments in a black graphitic - chert matrix and are moderately conductive (ie. at 120.0m). Shatter breccia. |

L-579664



L1400E

L1200E

147.0 m.

58.3°

⊕ 010-42-29
-50° N

L-579665

DRILL HOLE LOCATION SKETCH

010-42-29

Scale: 1:2500

B.L. 0+00

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

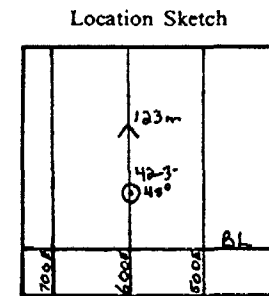
Hole No. 839-42-30

Hole No. 839-42-30 Sheet 1
Property Holloway-2, 839-42
Township Holloway
Location L 600E; 75N; -45°
Grid North
Logged By R. J. Roussain
Core Location Perry Lake

Length 123.0 metres
Bearing Grid North
Dip -45°

Commenced June 24, 1982
Completed June 26, 1982
Drilling Co. St. Lambert
Core Size BQ
Casing Left/ Lost in Hole none

Dip: Collar -45°
Etch Test Depth Rdg. True
1 123.0m 58° -50°



North
↑
L-596245
Claim No. L-586632
Scale: 1:10,000

| Metres | | DESCRIPTION |
|--------|--------|------------------------------------|
| From | To | |
| 0 | 7.05 | OVERBURDEN |
| 7.05 | 28.00 | CARBONATE ROCK |
| 28.00 | 38.45 | QUARTZ - SERICITE - TUFF - BRECCIA |
| 38.45 | 38.65 | BLACK CHERT |
| 38.65 | 51.18 | INTERMEDIATE TUFF |
| 51.18 | 68.00 | SERICITE - QUARTZ - BRECCIA |
| 68.00 | 68.60 | ULTRAMAFIC |
| 68.60 | 69.57 | INTERMEDIATE TUFF |
| 69.57 | 106.61 | ULTRAMAFIC - TALC CHLORITE SCHIST |
| 106.61 | 108.95 | ALTERED MAFIC TUFF |
| 108.95 | 123.00 | TALC CHLORITE SCHIST |
| | 123.00 | END OF HOLE |

R. J. Roussain

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 839-42-30

Sheet No. 4

| Metres | | DESCRIPTION |
|--------|-------|--|
| From | To | |
| 0 | 7.05 | OVERBURDEN |
| | | clay |
| 7.05 | 28.00 | CARBONATE ROCK |
| | | Light grey, mottled streaked appearance due to abundant quartz veins, masses, swirls, and crenulation cutting the core at all angles. Rock is generally hard due to the amount of quartz present. |
| | | Quartz-silica content of the rock is 20%-60%. Matrix is composed of carbonate and carbonatized remanent country rock fragments. Rock could be termed a quartz-carbonate-fragmental probably derived from a mafic to intermediate tuff breccia. Veins vary from .5 to 5mm in size and are dominantly milky white. |
| | | Only rare py as isolated clots and splashes near margins of quartz-veins. |
| | | Zones of strong carbonatization show up as rusty-stained areas and react vigorously to HCl. |
| | | 14.50 - 14.72, Fault Zone - Broken Core |
| | | Rock becomes increasingly more sericitic down the hole and becomes more identifiable as a sericite-quartz tuff breccia. |
| | | Fold and remanent bedding structures are visible at 27.0-30.0. Core intersected noses of folds and is crenulated. Foliation becomes more prominent and distinct locally. 50° to core axis at 27.72. |
| | | Quartz is present as masses and swirls, sericitic matrix. |

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 839-42-30
Sheet No. 5

| Metres | | DESCRIPTION |
|--------|-------|---|
| From | To | |
| 28.00 | 38.45 | <p>QUARTZ - SERICITE - TUFF - BRECCIA</p> <p>Light yellow-green rock with abundant (+50%) quartz veins as swirls, folds, veins, clots and clasts. Only rare py as specks. Strongly carbonatized areas are stained rusty red. Core angles vary highly over short sections indicating strong tectonic folding.</p> |
| 38.45 | 38.65 | <p>BLACK CHERT</p> <p>Black siliceous cherty-tuff carrying abundant white quartz. Fragments - distinctive. Unit marking end of above sequence. Contacts sharp but irregular.</p> |
| 38.65 | 51.18 | <p>INTERMEDIATE TUFF</p> <p>Light grey, massive, fine grained texture, moderately hard. Faint foliation at 50° to core axis. Section is cut by milky white 5-10cm white quartz veins and is highly carbonatized. Minor py near margins of quartz veins as tiny specks.</p> <p>41.08 - 41.47, Fault Zone - badly broken core 41.48 - 43.42, Zone of silicification; rock is very hard and light coloured.</p> <p>Down section, the tuff becomes folded as exhibited by changes in core axis. Foliation is visible as mineral grain orientation. White feldspar fleck and elongated chloritic grains. Foliation changes from 0° to 10° over 1 metre sections. Sulphides are common as tiny streaks and specks less than 1%. 10% white quartz veins throughout the section, unit is highly carbonatized throughout. Section is highly contorted near the lower contact area with well developed laminae, quartz veining most abundant near the contact area with disseminated py up to 2% locally. Highly silicified lower contact area - lighter in colour and weakly brecciated.</p> |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-30
Sheet No. 6

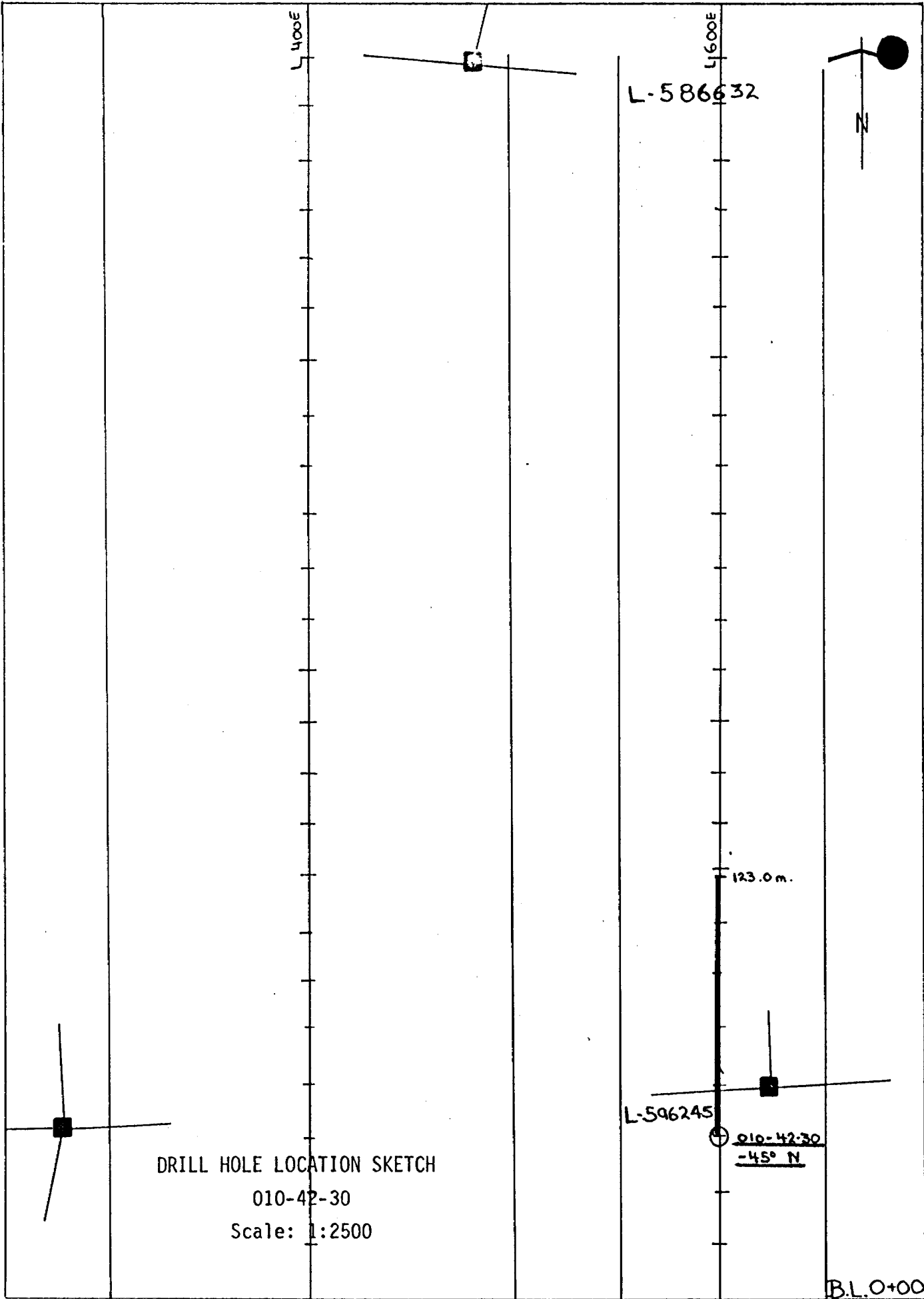
| Metres | | DESCRIPTION |
|--------|--------|--|
| From | To | |
| 51.18 | 68.00 | SERICITE - QUARTZ - BRECCIA |
| | | Upper contact is gradational with sericite and angular quartz-fragments marking the transition. Rock is highly folded with veins, masses, clots and fragments of white to rose quartz. |
| | | Dark yellow to brown chloritic matrix. Country rock is obliterated and altered to a sericite-chlorite gangue. Rock is 50-60% quartz by volume. Py as rare speck or splash. |
| | | Highly variable foliation indicating strong tectonic folding. Section is similar to rock at 28.0 - 38.45. |
| | | 51.18 - 52.31, large angular quartz fragments, pink alteration, cemented with brown sericite. |
| | | 52.31 - 52.58, Fault Zone - broken core, rusty |
| | | Section becomes less folded and disturbed down the hole with remnant bedding visible. Core axis 60° at 66.0 metres. Core axis 90° at 67.5 metres. |
| | | 67.66 - 68.00, highly silicified |
| 68.00 | 68.60 | ULTRAMAFIC |
| | | Dark grey-green, soft, talcose, folded - deformed. |
| 68.60 | 69.57 | INTERMEDIATE TUFF |
| | | as described from 38.46 - 51.18 |
| | | Upper contact a mass of quartz veins - rare py less than 1%. Bedding prominent at 60° to the core axis. |
| 69.57 | 106.61 | ULTRAMAFIC - TALC CHLORITE SCHIST |
| | | Often mafic fragmented. Light grey to dark green talcose, soft greasy rock, abundant quartz veins cut the core at all angles as individuals and masses of threads. |

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 839-42-30

Sheet No. 7

| Metres | | D E S C R I P T I O N |
|--------|--------|--|
| From | To | |
| 69.57 | 106.61 | ULTRAMAFIC - TALC CHLORITE SCHIST (continued) |
| | | Rock is fragmented and is strongly deformed, tectonically folded and twisted. Lighter coloured fragments in a black chloritic matrix. Intersection of fold noses are evident as circular structures. Upper contact is sharp but irregular. |
| | | Foliation 68° to core axis at 75.82. |
| | | Scattered zones of quartz-veining and intense silicification stand out as lighter coloured sections with 20-30% with quartz veins as breccia matrix. |
| | | 74.44 - 74.87, typifies one such zone. |
| | | 77.14 - 77.85, altered tuff breccia, quartz fragments in sericitic matrix. Strong fault gouge at 77.42 - 77.53. |
| | | 79.67 - 80.76, Silicified zone - pale green fragments, hard, siliceous, cemented in a quartz-sericite matrix. Fragments resemble upper tuff horizon as described from 68.60 - 69.57 although highly altered. |
| | | Fragments react to HCL. Rare py streaks in the quartz matrix. |
| | | 83.30 - 83.54, Milky white quartz-vein |
| | | From 88.00 rock becomes increasingly more mafic - soft talcose. Brecciated U.M. fragmental - chloritic matrix. Quartz veins are common .5-2. cm in width and cut the core predominantly at 85-90°. |
| | | 98.45 - 98.57, Fault gouge - green mud |
| | | 99.68 - 100.06, Fault Zone - gouge, broken core |
| | | From 100.06 metres, quartz veins are less common less than 5% of core. |
| | | 106.61 - 107.06, Fault zone - gouge, broken core |



DRILL HOLE LOCATION SKETCH

010-42-30

Scale: 1:2500

L-586632

123.0m.

L-596245

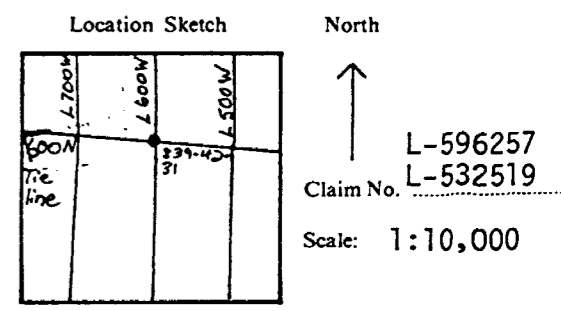
010-42-30
-45° N

B.L. 0+00

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 839-42-31

| | | | |
|--|----------------------------|--------------------------------------|--|
| Hole No. <u>839-42-31</u> Sheet <u>1</u> | Length <u>108.0 metres</u> | Commenced <u>June 28, 1982</u> | Dip: Collar <u>-50°N</u> |
| Property <u>Holloway-2</u> | Bearing <u>Grid North</u> | Completed <u>July 1, 1982</u> | Etch Test Depth Rdg. True |
| Township <u>Holloway</u> | Dip <u>-50°N</u> | Drilling Co. <u>St. Lambert</u> | <u>1</u> <u>108.0m</u> <u>52°</u> <u>45°</u> |
| Location <u>L-600W, 600N</u> | | Core Size <u>BQ</u> | |
| | | Casing Left/Lost in Hole <u>none</u> | |
| Logged By <u>John Walmsley</u> | | | |
| Core Location <u>Perry Lake</u> | | | |



| Metres | | DESCRIPTION |
|--------|--------|---|
| From | To | |
| 0 | 36.16 | OVERBURDEN |
| 36.16 | 37.99 | INTERMEDIATE FRAGMENTAL TUFF |
| 37.99 | 40.00 | ALTERED ULTRAMAFIC (CHLORITE-TALC SCHIST) |
| 40.00 | 48.96 | INTERMEDIATE LAPILLI TUFF |
| 48.96 | 108.00 | FELSIC FRAGMENTAL/TUFF |
| | 108.00 | END OF HOLE |

D. J. Pearson

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-31
Sheet No. 3

| Metres | | D E S C R I P T I O N |
|--------|-------|--|
| From | To | |
| 0 | 36.00 | OVERBURDEN sand, clay, boulders |
| 36.00 | 37.99 | INTERMEDIATE FRAGMENTAL TUFF An extremely hard, jade green, highly fractured rock with fragments barely noticeable and aligned 55° to the core axis. Fractures are both quartz-carbonate filled and chlorite filled. Pyrite exists in stringers, showing moderate conductivity, and making up about 40% of the sulphides present; 60% of the sulphides are pyrrhotite showing moderate magnetism and occurring as stringers in the quartz veining. The total sulphide content of the rock is less than 1%. The last 15cm of the section is a brecciated contact. Fragments are siliceous and green carbonated, set in a siliceous chlorite matrix. Some fragments are more carbonate rich and react more violently to HCL than others. |
| 37.99 | 40.00 | ALTERED ULTRAMAFIC (CHLORITE-TALC SCHIST) A greenish, soft rock that is soapy to feel and the core is quite broken. Breaks are mainly along cleavage planes running 70° to the core axis. There is a weak to moderate reaction to HCL. The down hole contact is 70° to the core axis. |
| 40.00 | 48.96 | INTERMEDIATE LAPILLI TUFF A bedded, greenish, hard rock with laminations 65° to 70° to the core axis. Felsic zones and brecciated zones occur throughout. Fragments are few and vary in size up to 3cm wide. Quartz-carbonate stringers are few, randomly oriented and show no mineralizations. 42.22 - 48.96. A less layered, more massive/fragmented tuff with fragments up to 3cm. The composition of the fragments and matrix is more siliceous. Very finely disseminated pyrite cubes make up much less than 1%. Quartz- |

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DIAMOND DRILL RECORD

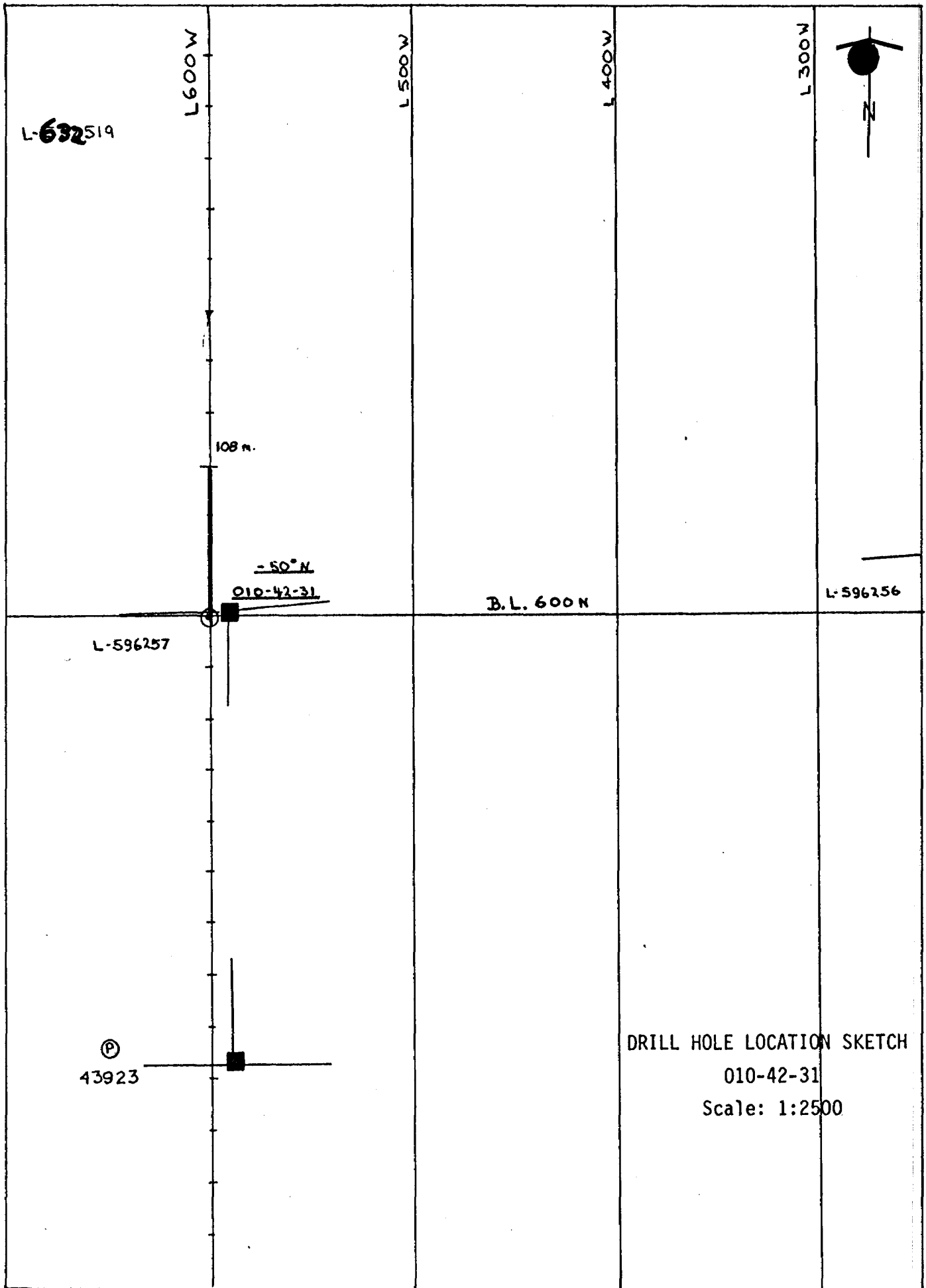
Hole No. 839-42-31
Sheet No. 4

| Metres | | DESCRIPTION |
|--------|--------|--|
| From | To | |
| 40.00 | 48.96 | INTERMEDIATE LAPILLI TUFF (continued) |
| | | 42.22 - 48.96 (continued) |
| | | carbonate veins and stringers are slightly more numerous (ie. about 15% of the subsection), but barren. |
| 48.96 | 108.00 | FELSIC FRAGMENTAL/TUFF |
| | | A light grey-green, extremely hard rock which grades from the up hole unit. |
| | | 48.96 - 49.81, Fine grained lapilli tuff. The rock is quite fractured and slightly bleached around quartz-carbonate veins. Some fractures are chlorite filled. |
| | | 49.81 - 51.19, As described above but starts out medium grained and grades to very fine. From 50.33 to 50.68 the core is laminated at 60° to the core axis. Large patches of quite conductive pyrrhotite also occur within this section contained in the quartz-carbonate veins. Over this 0.35 metre section, the sulphides make up about 10% to 15%. |
| | | 51.19 - 64.50, Felsic Fragments/Tuff. Alternating layers, averaging 0.5 metres thick, of very fine tuff and fragmental tuff. Alignment of fragments is about 65° to the core axis. Some of the very fine ash tuff is shattered and brecciated (ie. chlorite seams are about as numerous as quartz-carbonate stringers (ie. about 5% to 10% of the rock). Lithic fragments and feldspars are set in an ash matrix. Graded bedding from coarse to fine occurs both in the up hole and down hole directions so tops cannot be determined. Some areas of fine grained ash tuff are less siliceous and almost like a greywacke. |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-31
 Sheet No. 5

| Metres | | DESCRIPTION |
|--------|--------|--|
| From | To | |
| 48.96 | 108.00 | FELSIC FRAGMENTAL/TUFF (continued) |
| | | 41.19 - 64.50, Some pyrite exists in quartz-carbonate stringers but much less than 1%. |
| | | At 60.0 metres, pyrrhotite begins as clots making up less than 1%. |
| | | 64.50 - 69.00, As described from 51.19 - 64.50 but more brecciated and veined. Pyrrhotite is coarsely disseminated throughout and in fairly massive veins making up 20% to 25% of the rock and showing high conductivity through vein systems. The pyrrhotite content grades in and out. |
| | | Some cherty fragments up to 4cm thick exist. |
| | | At 81.76, a 4cm thick quartz-carbonate vein runs 65° to the core axis and is 10% green carbonate and 1% pyrrhotite. |
| | | At 83.41 is another 8cm thick zone but less than 1% pyrrhotite. |
| | | Below 71.47, ash tuff layers are few and much thinner. The rock consists of fragmental lava with fragments varying from a few millimetres thick to about 4cm thick. Angles of bedding relative to the core axis remain at about 65° |
| | | At 84.44, amygdaloidal rhyolitic flows are intercalated with the fragmentals. These average about 10cm thick but range up to 1.0 metres. The rhyolite is about 30% feldspar phenocrysts about 2-3mm thick. Amygdules are quartz (milky around edges and clear centres) filled. |
| | | Fragments become larger below 99.0 metres and the layers come close to being an agglomerate in some places. |
| | | Some pyrrhotite exists in quartz-green carbonate veins making up less than 1% of the veins (ie. at 96.35, 101.31). |
| 108.00 | | END OF HOLE |



L-632519

L 600 W

L 500 W

L 400 W

L 300 W



108 m.

- 50° N

010-42-31

B.L. 600 N

L-596256

L-596257

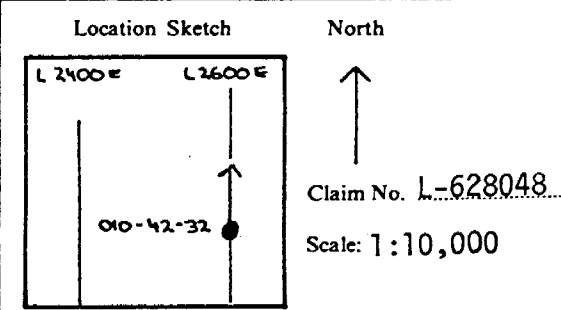
Ⓟ
43923

DRILL HOLE LOCATION SKETCH
010-42-31
Scale: 1:2500

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 54010-42-32

| | | | |
|------------------------------|---------------------|--------------------------------|---------------------------|
| Hole No. 54010-42-32 Sheet 1 | Length 171.0 metres | Commenced August 20, 1982 | Dip: Collar -45° |
| Property Holloway-2 | Bearing Grid North | Completed August 25, 1982 | Etch Test Depth Rdg. True |
| Township Holloway | Dip -45° | Drilling Co. St. Lambert | 1 171.0m 49° 42° |
| Location L-2E00E, 587.5N | | Core Size BQ | |
| | | Casing Left/ Lost in Hole none | |
| Logged By G. Kent | | | |
| Core Location Perry Lake | | | |



| Metres | | DESCRIPTION |
|--------|--------|---------------------------------|
| From | To | |
| 0 | 12.50 | OVERBURDEN |
| 12.50 | 47.10 | CARBONATIZED MAFIC FLOWS (V7) |
| 47.10 | 72.21 | KOMATIITE |
| 72.21 | 94.52 | GRADATIONAL CONTACT - CARBONATE |
| 94.52 | 171.00 | TUFF BRECCIA / AGGLOMERATE |
| | 171.00 | END OF HOLE |

R. J. Fawcett

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 54010-42-32
Sheet No. 3

| Metres | | DESCRIPTION |
|--------|-------|--|
| From | To | |
| 0 | 12.50 | OVERBURDEN |
| 12.50 | 47.10 | CARBONATIZED MAFIC FLOWS (V7) |
| | | Variolitic pillow lavas, grey to grey-white in colour with 10-15% carbonate as veins and varioles. The rock is non-magnetic and moderately hard. Cherty bands are seen along the pillow rims formed by coalescing varioles. These cherty layers may be up to 2 metres in width and are similar to those observed near the Munro Croesus Mine (West Shaft). |
| | | Mineralization occurs as pyrite stringers in pyrite-carbonate veins from 15.55 to 16.68 metres with average content of 2-3% in the section. |
| | | 30.64 - 30.67, Pyrite-calcite vein |
| | | 31.07 - 31.47, Calcite vein stockwork |
| | | - Flow contact breccia |
| | | 41.85 - 41.95, Flow contact breccia |
| | | 42.45 - 42.52, Flow contact breccia |
| | | A gradational contact downhole changes from 47.10 - 43.90 becoming progressively darker in colour and serpentized. |
| 47.10 | 72.21 | KOMATIITE |
| | | Ultramafic flow rocks consisting of spinifex textured, dark green serpentinite. Serpentine and talc have replaced the olivine / pyroxene, however primary textures have been maintained. |
| | | Definite younging can be ascertained and shows that the flows face down the hole (ie north). Flow contacts are at 45° to the core axis. |
| | | (Rep. sample taken 66.72 - 68.21 metres) |
| 72.21 | 94.52 | GRADATIONAL CONTACT - CARBONATE |
| | | Carbonatized komatiite with remnant textures. A soft greenish-white coloured rock with fragments of spinifex flow rock and consisting of 50% carbonate. |

L 2400E

L-628048

L 2600E



L 2800E

DRILL HOLE LOCATION SKETCH

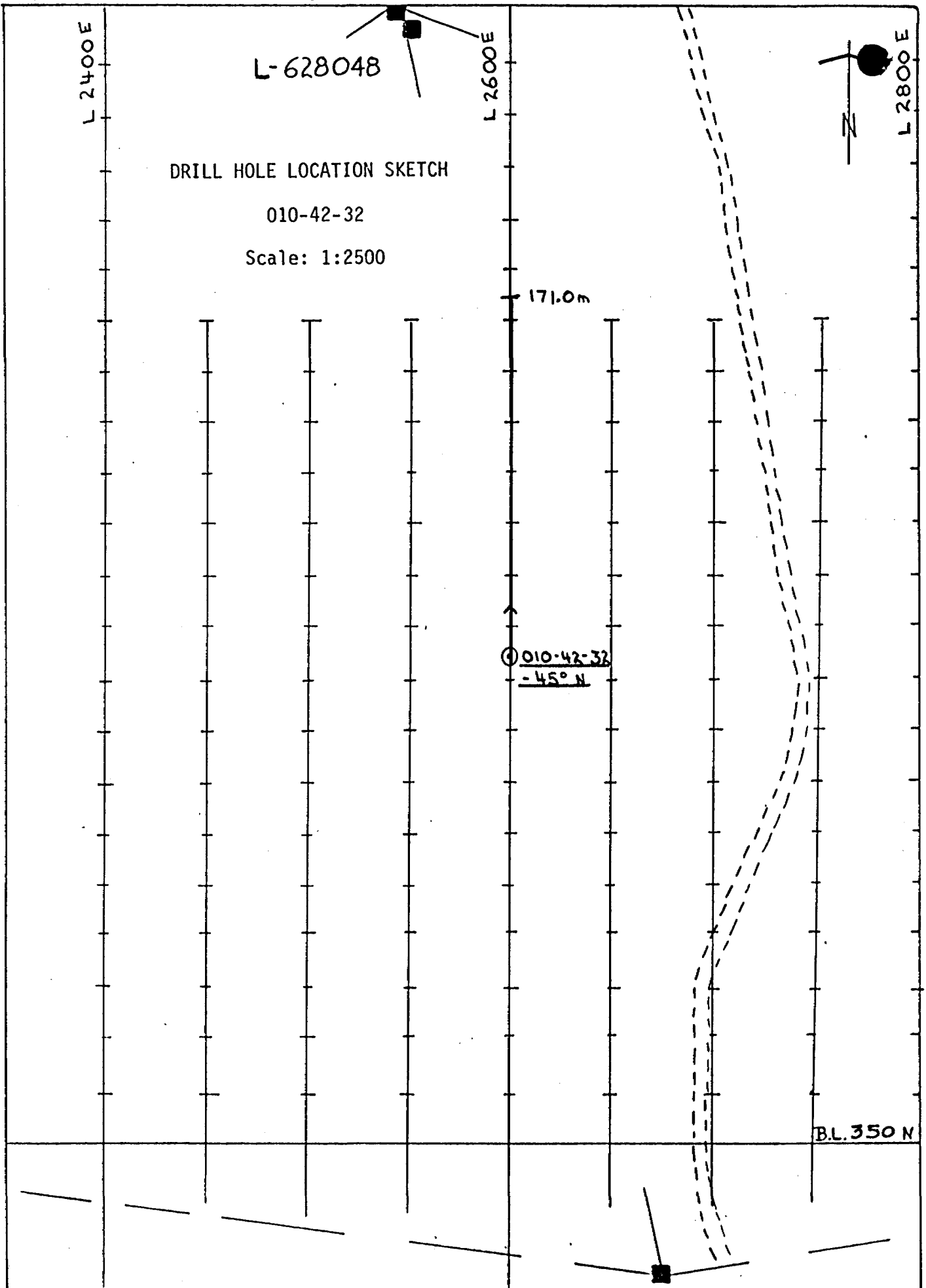
010-42-32

Scale: 1:2500

171.0m

① 010-42-32
- 45° N

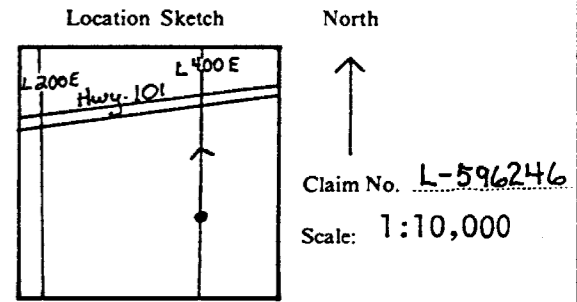
BL. 350 M



AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 54010-42-33

| | | | |
|--|----------------------------|---------------------------------------|--|
| Hole No. <u>010-42-33</u> Sheet <u>1</u> | Length <u>183.0 metres</u> | Commenced <u>August 29, 1982</u> | Dip: Collar <u>-42°</u> |
| Property <u>Holloway-2</u> | Bearing <u>Grid North</u> | Completed <u>September 1, 1982</u> | Etch Test Depth Rdg. True |
| Township <u>Holloway</u> | Dip <u>-42° at collar</u> | Drilling Co. <u>St. Lambert</u> | <u>1 broken 175.0m 39° 32°</u> |
| Location <u>L 400E, 450S</u> | | Core Size <u>BQ</u> | |
| Logged By <u>Gene Kent</u> | | Casing Left/ Lost in Hole <u>none</u> | |
| Core Location <u>Perry Lake</u> | | | |



| Metres | | DESCRIPTION |
|--------|--------|--------------------------|
| From | To | |
| 0 | 37.00 | OVERBURDEN |
| 37.00 | 38.70 | GREYWACKE |
| 38.70 | 41.87 | JASPERLITE - GREYWACKE |
| 41.87 | 121.23 | GREYWACKE - MUDSTONE |
| 121.23 | 183.00 | QUARTZ - SERICITE SCHIST |
| | 183.00 | END OF HOLE |

Rg Panson

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DIAMOND DRILL RECORD

Hole No. 54010-42-33

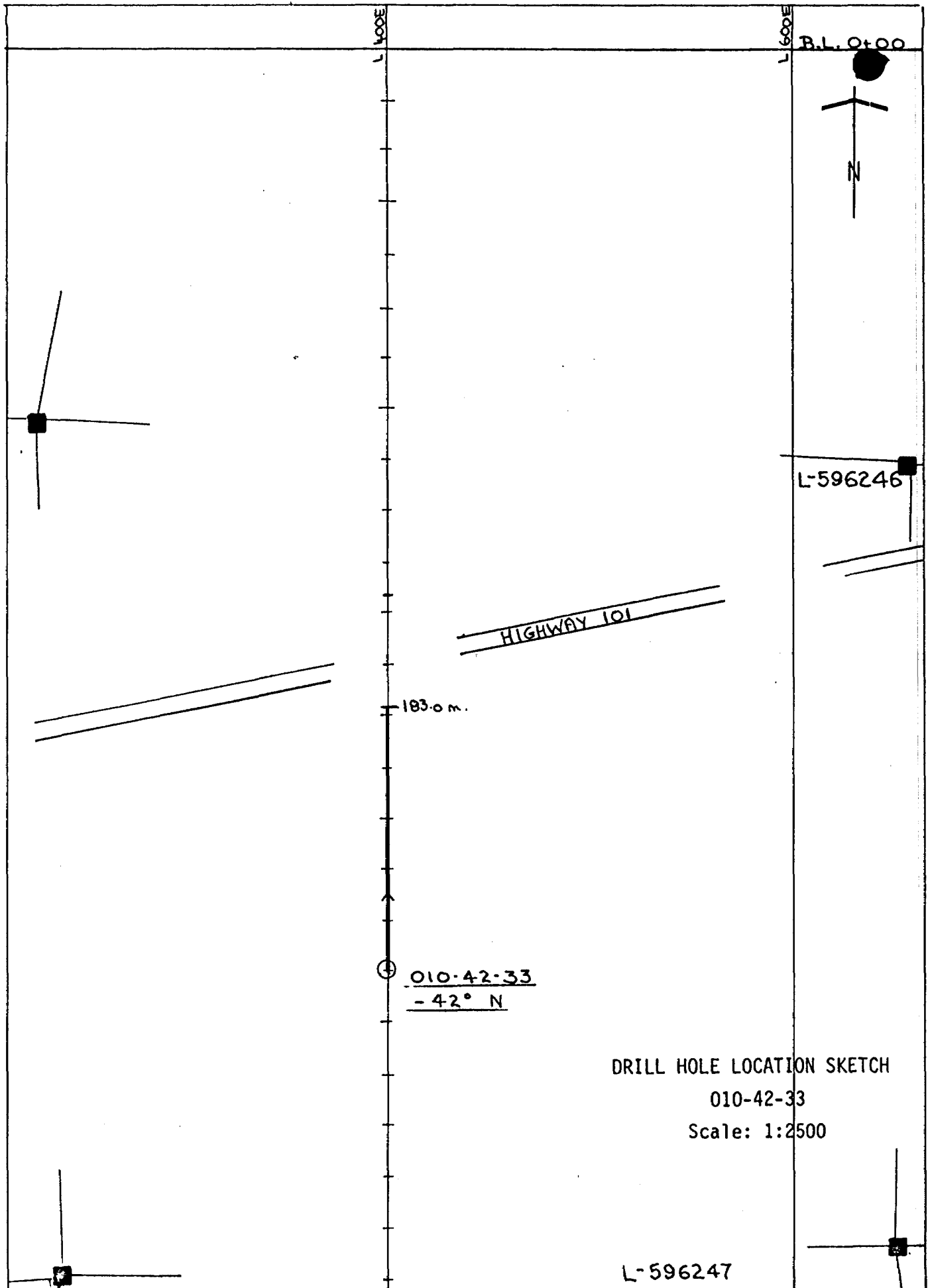
Sheet No. 4

| Metres | | DESCRIPTION |
|--------|--------|---|
| From | To | |
| 0 | 37.00 | OVERBURDEN clay 0-13, boulders 13-27.0 |
| 37.00 | 38.70 | GREYWACKE Grey to whitish grey sediment showing poorly defined lamination and bedding. The laminae are consistently at 55° to the core axis. Graded bedding is poor but seems to indicate tops downhole. The rock is soft and chloritic and shows variable grain size from mudstone to greywacke. |
| 38.70 | 41.87 | JASPERLITE - GREYWACKE Bright red jasperlite, laminations in mudstone and greywacke. Jasper laminae constitute 2-4% of the rock and are moderately magnetic. The matrix sediment contains minor sulphide laminae, as extremely fine grained pyrites. |
| 41.87 | 121.23 | GREYWACKE - MUDSTONE As described 37.00 - 38.70 metres. Increasing quartz vein content downhole. Sericitic and pyrite rich bands are seen conformable with the lamination. Sericite is most strongly developed in the vicinity of quartz veins. The quartz veins are crosscutting and show white to rose colour. 75.82 - 76.92, Carbonatized rock whitish colour with 1% pyrite laminae and 1-2mm cubes of pyrite. 77.50 - 77.60, Carbonatized mudstone. 81.77 - 81.92, Carbonatized mudstone 1% pyrite 81.12 - 81.29, Lamination at 65° to the core axis. Fault: 112.54 - 114.14, mud + broken core shearing at 50° to core axis. Gradational contact area with increasing sericite and quartz development. |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 54010-42-33
Sheet No. 5

| Metres | | DESCRIPTION |
|--------|--------|---|
| From | To | |
| 121.23 | 183.00 | QUARTZ - SERICITE SCHIST |
| | | A yellowish-white rock, strongly schisted and strongly quartz veined. This unit is moderately to extremely hard. Quartz veins occur both as crosscutting and conformable layers. Strong folding and crenulation of quartz and sericite layers is seen. Pyrite occurs as extremely fine grained cubes and streaks surrounding quartz veins and quartz fragments. |
| | | 121.23 - 127.36, Quartz-Sericite Schist |
| | | 127.36 - 127.61, Quartz vein |
| | | 127.70 - 129.12, 70% Quartz veins |
| | | Bleached/Silicified: 129.12 - 146.00, Very light coloured rock with 10% quartz veins. Veins are up to 4cm in width and show minor crenulated and boudinage. Quartz and sericite layers cut the core at all angles, indicating strong folding. |
| | | Quartz - Sericite Breccia 146.00 - 162.45, A strongly brecciated rock with yellowish-white colour. The rock is extremely hard and contains 50% free quartz. Fragments consist of broken quartz veins pink to white in colour and fragments of silicified wallrock. Fine grained pyrite occurs as matrix disseminations, sericite-pyrite veins and as rims surrounding quartz fragments. The overall sulphide content is less than 1%. |
| | | Bleached/Silicified: 162.45 - 183.00, As described from 129.12 - 146.00. A progressive decrease in quartz and sericite occurs downhole from this point. Folding is still evident with a wavelength of several metres. The rock grades back into greywacke - mudstone. |
| | 183.00 | END OF HOLE |



B.L. 0+00



L-596246

HIGHWAY 101

183.0 m.

⊕ 010-42-33
-42° N

DRILL HOLE LOCATION SKETCH

010-42-33

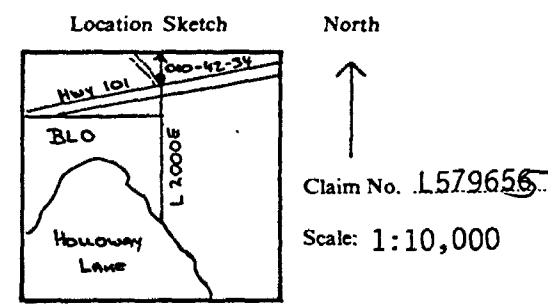
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L-596247

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 54010-42-34

| | | | |
|------------------------------|--------------------|--------------------------------|------------------|
| Hole No. 54010-42-34 sheet 1 | Length 282m | Commenced September 14, 1982 | Dip: Collar -45° |
| Property Holloway-2 | Bearing Grid North | Completed September 21, 1982 | Etch Test |
| Township Holloway | Dip -45° | Drilling Co. St. Lambert | Depth Rdg. True |
| Location L2000E, 37.5N | | Core Size BQ | 1 132.0m 40° 33° |
| Logged By Gene Kent | | Casing Left/ Lost in Hole none | 2 282.0m 33° 27° |
| Core Location Perry Lake | | | |



| Metres | | DESCRIPTION |
|--------|--------|---------------------------|
| From | To | |
| 0 | 23.55 | OVERBURDEN |
| 23.55 | 47.29 | MAFIC TUFF/GREYWACKE |
| 47.29 | 54.60 | IRON-STONE-CARBONATE ROCK |
| 54.60 | 65.43 | EPICLASTIC SEDIMENT (V9b) |
| 65.43 | 71.58 | ARKOSE |
| 71.58 | 83.02 | GREEN AND BROWN CARBONATE |
| 83.02 | 91.51 | ARKOSE-SANDSTONE |
| 91.51 | 122.03 | GREYWACKE-MUDSTONE |
| 122.03 | 122.87 | SULPHIDE-CARBONATE |
| 122.87 | 168.23 | MAFIC TUFF (V9b) |
| 168.23 | 213.14 | ANDESITE |
| 213.14 | 237.27 | SERICITIC-GRAPHITIC TUFFS |

Gene Kent

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DIAMOND DRILL RECORD

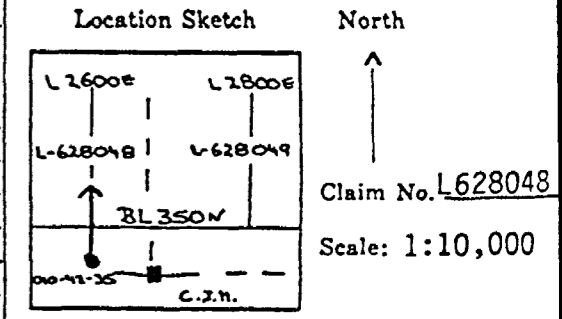
Hole No. 54010-42-34
Sheet No. 5

| Metres: | | DESCRIPTION |
|---------|--------|--|
| From | To | |
| 122.87 | 168.23 | MAFIC TUFF (V9b) |
| | | A well laminated, dirty-grey colored rock with lapilli sized fragments set in a fine grained matrix. Lapilli's occur as either lath-like or stretched elliptical clasts. These clasts are irregular in size and matrix supported, thus indicating a pyroclastic origin. The rock is moderately soft and non-magnetic. Strong chlorite alteration has occurred, thus giving the rock grey-green color. The upper contact is strongly sericitized and conformable (90° to the core axis). The lower contact is weakly sericitized and gradational. Some pyrite-carbonate veins are seen from 154.89 to 156.56. |
| 168.23 | 213.14 | ANDESITE |
| | | A light-grey to grey-green colored rock showing a massive crystalline texture. This rock is of medium hardness and is cut by quartz-carbonate veins at all angles. Magnetic sections occur within 3 metres of the upper contact. |
| | | 192.88-193.14: Calcite vein with minor pyrite content. |
| | | 212.71-213.14: Fault - mud and broken core. |
| 213.14 | 237.27 | SERICITIC AND GRAPHITIC TUFF |
| | | A layered, fragmental rock, yellow-green to black in color. This rock is moderately hard in quartz veined sections and soft in sericitic or graphitic sections. The graphites are cut by quartz veins and are generally non-conductive. Pyrite occurs as veins and rosettes within the graphitic beds. |
| | | Graphite and Black Chert: |
| | | 213.14 - 214.0 |
| | | 214.41 - 214.57 |
| | | 225.50 - 226.98 |
| | | Subsection: 226.74 - 226.84 20% pyrite |
| | | 232.0 - 232.58 |
| | | 237.15 - 237.27 |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 010-42-35

| | | | |
|-----------------------------------|----------------------------|--|--|
| Hole No. <u>010-42-35 Sheet 1</u> | Length <u>256.5 metres</u> | Commenced <u>September 28, 1982</u> | Dip: Collar <u>-60°</u> |
| Property <u>Holloway-2</u> | Bearing <u>Grid North</u> | Completed <u>October 5, 1982</u> | Etch Test Depth Rdg. True |
| Township <u>Holloway</u> | Dip <u>-60° at collar</u> | Drilling Co. <u>St. Lambert</u> | |
| Location <u>L2600E, 3 + 12N</u> | | Core Size <u>BQ</u> | 2 255.0 38° 31° |
| <u>on claim boundary</u> | | Casing Left/Lost in Hole <u>ABS plastic pipe</u> | |
| Recorded By <u>E. Kent</u> | | | |
| Site Location <u>Perry Lake</u> | | | |



| METRES | | DESCRIPTION |
|--------|--------|---|
| From | To | |
| 0.00 | 17.65 | OVERBURDEN |
| 17.65 | 41.95 | INTERMEDIATE LAPILLI TUFF (V9i1) |
| 41.95 | 81.50 | ANDESITE/BASALT (V7) |
| 81.50 | 94.46 | QUARTZ BRECCIA (QzΔ) |
| 94.46 | 110.10 | QUARTZ FUCHSITE ZONE (Q.F.Z.) |
| 110.10 | 133.02 | BLEACHED/SILICIFIED PILLOW BASALT (V7-Si) |
| 133.02 | 140.16 | QUARTZ-FUCHSITE ZONE (Q.F.Z.) |
| 140.16 | 256.50 | SERICITE-QUARTZ ASH TUFF (V9i) Se |
| | 256.50 | END OF HOLE |

(Handwritten signature)

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 010-42-35

Sheet No. 2

| Metres | | DESCRIPTION |
|--------|-------|--|
| From | To | |
| 0.00 | 17.65 | OVERBURDEN Clay and sand. |
| 17.65 | 41.95 | INTERMEDIATE LAPILLI TUFF (V9il) Grey-green in colour and strongly layered. This unit contains sections of yellow sericitized rock and bleached carbonatized rock. This unit is moderately hard and non-magnetic. Quartz veins intrude the rock at all angles and are crenulated, and fragmented by boudinage. Sericite alteration halos surround the quartz veins. Limonite is also noted in contact with quartz veins and is formed by the weathering of Ankerite/Siderite. The iron carbonates occur as euhedral crystals, sometimes broken by weathering. Lapilli's are dominantly of quartz or feldspar and range up to 1cm in diameter. The large lapilli are supported by a fine grained, well laminated ash matrix. Layering is at 40° to the core axis. 17.65-33.22: Sericitic lapilli tuff with less than 1% disseminated pyrite. 33.22-40.60: Strongly carbonatized, with up to 15% pyrite as coarse layered crystals. Broken quartz fragments are rimmed by pyrite halos. |
| 41.95 | 81.50 | ANDESITE/BASALT (V7) A bleached, carbonatized rock showing primary volcanic textures as well as later shearing and alteration. Pillow rims are visible as silicified quartz pyrite veined sections up to 10cm in width occurring periodically |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 010-42-35
 Sheet No. 3

| Metres | | DESCRIPTION |
|--------|-------|--|
| From | To | |
| | | 41.95-81.50 continued |
| | | at 50 centimetres to 1 metre spacings |
| | | 66.67-68.41: Interflow Tuff |
| | | 72.09-74.77: Interflow Tuff |
| | | 74.77-78.11: Porphyritic basalt with lath-shaped feldspar phenocrysts partially to wholly altered to sericite. |
| | | 78.38-81.50: Basalt-breccia, mafic flow rock infused with quartz veins |
| 81.50 | 94.46 | QUARTZ BRECCIA (QzA) |
| | | A tuffaceous or tectonic breccia with up to 10%+ fine grained pyrite surrounding brecciated and granulated quartz fragments. |
| | | 81.50-85.50: Quartz sulphide breccia estimated 2% pyrite |
| | | 82.21-82.37: 20% fine cubic pyrite in grey smokey quartz. |
| | | 85.50-85.54: Fault gouge-chlorite mud |
| | | 85.54-87.20: Sericite-quartz breccia. Creamy yellow in colour and extremely hard. |
| | | 87.20-87.67: Smokey quartz - Quartz-sulphide breccia. Up to 5% pyrite surrounding brecciated quartz fragments. |
| | | 87.67-88.81: Quartz-sericite-carbonate-breccia. Quartz content ranges from 70% to 80% with ankerite, calcite and sericite as accessory minerals. |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 010-42-35

Sheet No. 4

| Metres | | DESCRIPTION |
|--------|--------|---|
| From | To | |
| | | 81.50-94.46 continued |
| | | 89.78-94.46: Sericite-quartz breccia. Light yellow to yellow-green in colour. This section contains wholly sericitized rock fragments set in a matrix of blue-grey quartz veins. |
| | | Fine crystalline pyrite occurs throughout up to 2% locally. |
| | | Molybdenite, magnetite and galena occur as accessory minerals. The molybdenite occurs as fracture coatings and small splashes, commonly in proximity to pyrite mineralization. |
| | | Small fragments of fuchsite or green carbonate rock are noted throughout the quartz+breccia zone. |
| 94.46 | 110.10 | QUARTZ FUCHSITE ZONE (Q.F.Z.) |
| | | An extremely hard, green-white banded rock consisting of white quartz, emerald green fuchsite, yellowish sericite and brown and white dolomite. Stockwork and ladder type quartz veins cut the core at all angles and cement the breccia fragments. Disseminated pyrite occurs throughout the section (less than 1%) and is concentrated in sericite and fuchsite layers. Carbonate occurs as a minor constituent with both the quartz and fuchsite bands. The carbonate is reactive with acid when crushed and appears to be dolomitic. Ankerite surrounds quartz veins and increases towards the base of the section. |
| | | 107.33-108.85: Quartz-sericite breccia with up to 3% pyrite surrounding sericite and quartz fragments. |
| | | The lower contact is brecciated and gradational. |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 010-42-35
Sheet No. 5

| Metres | | DESCRIPTION |
|--------|--------|---|
| From | To | |
| 12.10 | 133.02 | BLEACHED/SILICIFIED PILLOW BASALT (V7-Si) A highly altered flow rock containing primary volcanic textures in the form of pillow rims and variolitic flow rock. The rock is very hard and a light yellow-cream colour. Individual pillows vary from 30 to 100cm in width. |
| 13.02 | 140.16 | QUARTZ-FUCHSITE ZONE (O.F.Z.) Fine grained cubic pyrite is noted throughout and small smears and fracture coating of molybdenite also are seen. A silver coloured metallic mineral is noted in trace amounts. This mineral appears to be galena. Trace chalcopyrite is noted ie; 137.87 metres. |
| 15.16 | 256.50 | SERICITE-QUARTZ ASH TUFF (V9i)-Se A fine grained, well laminated tuffaceous rock. This unit contains coarse lapilli tuff beds and quartz-graphite (black chert) beds. The rock is moderately hard containing more than 50% quartz. Grey-black quartz veins cut the core at all angles and are strongly folded. Graphitic sections contain boudinaged and crenulated veins of white quartz and are non conductive due to their high silica content. 145.70-146.00: Black chert 194.80-197.64: Black chert 213.50-214.00: Black chert Pyrite is ubiquitous, occurring as thin laminae and fragments up to 1cm in length. Sulphide mineralization appears to be primary in this section, although on the microscopic scale pyrite can be seen rimming quartz grains. Quartz fragments or lapilli are intensely smashed and when observed under the microscope they have a detrital appearance. |

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 010-42-35

Sheet No. 6

| Metres | | D E S C R I P T I O N | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--------------------|---|-----------------|--------------------|--------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|-----|-----|
| From | To | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 140.16-256.50 continued | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Carbonate occurs along with quartz as a cement in the rock matrix. A weak reaction with HC is noted everywhere in the section. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Sericite occurs in black cherts and surrounding quartz veins. The rock becomes progressively less altered and sericitic down the section. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | The average orientation of laminae is approximately 70° to the core axis. Some angles are noted below. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">METRES</th> <th style="text-align: center;">ANGLE TO CORE AXIS</th> <th style="text-align: center;">METRES</th> <th style="text-align: center;">ANGLE CORE AXIS</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">180</td> <td style="text-align: center;">75°</td> <td style="text-align: center;">227</td> <td style="text-align: center;">70°</td> </tr> <tr> <td style="text-align: center;">204</td> <td style="text-align: center;">55°</td> <td style="text-align: center;">233</td> <td style="text-align: center;">60°</td> </tr> <tr> <td style="text-align: center;">209</td> <td style="text-align: center;">70°</td> <td style="text-align: center;">239</td> <td style="text-align: center;">80°</td> </tr> <tr> <td style="text-align: center;">215</td> <td style="text-align: center;">90°</td> <td style="text-align: center;">245</td> <td style="text-align: center;">75°</td> </tr> <tr> <td style="text-align: center;">221</td> <td style="text-align: center;">70°</td> <td style="text-align: center;">250</td> <td style="text-align: center;">70°</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">256</td> <td style="text-align: center;">70°</td> </tr> </tbody> </table> | METRES | ANGLE TO CORE AXIS | METRES | ANGLE CORE AXIS | 180 | 75° | 227 | 70° | 204 | 55° | 233 | 60° | 209 | 70° | 239 | 80° | 215 | 90° | 245 | 75° | 221 | 70° | 250 | 70° | | | 256 | 70° |
| METRES | ANGLE TO CORE AXIS | METRES | ANGLE CORE AXIS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180 | 75° | 227 | 70° | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 204 | 55° | 233 | 60° | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 209 | 70° | 239 | 80° | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 215 | 90° | 245 | 75° | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 221 | 70° | 250 | 70° | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 256 | 70° | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Locally, variation of core angles occur on the centimetre and metre scale and range from 20° to 90° to the core axis. Intense near isoclinal folding is indicated. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 256.50 | END OF HOLE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | *ALTERATION* | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Intense hydrothermal alteration is noted throughout the hole in the form of introduced carbonate, quartz, sericite and pyrite. The section from 78.38-140.16 metres shows the most intense alteration with fuchsite and molybdenite mineralization added to the intense silicification. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

L 2400E

L-628048

L 2600E

L 2800E

DRILL HOLE LOCATION SKETCH

010-42-35

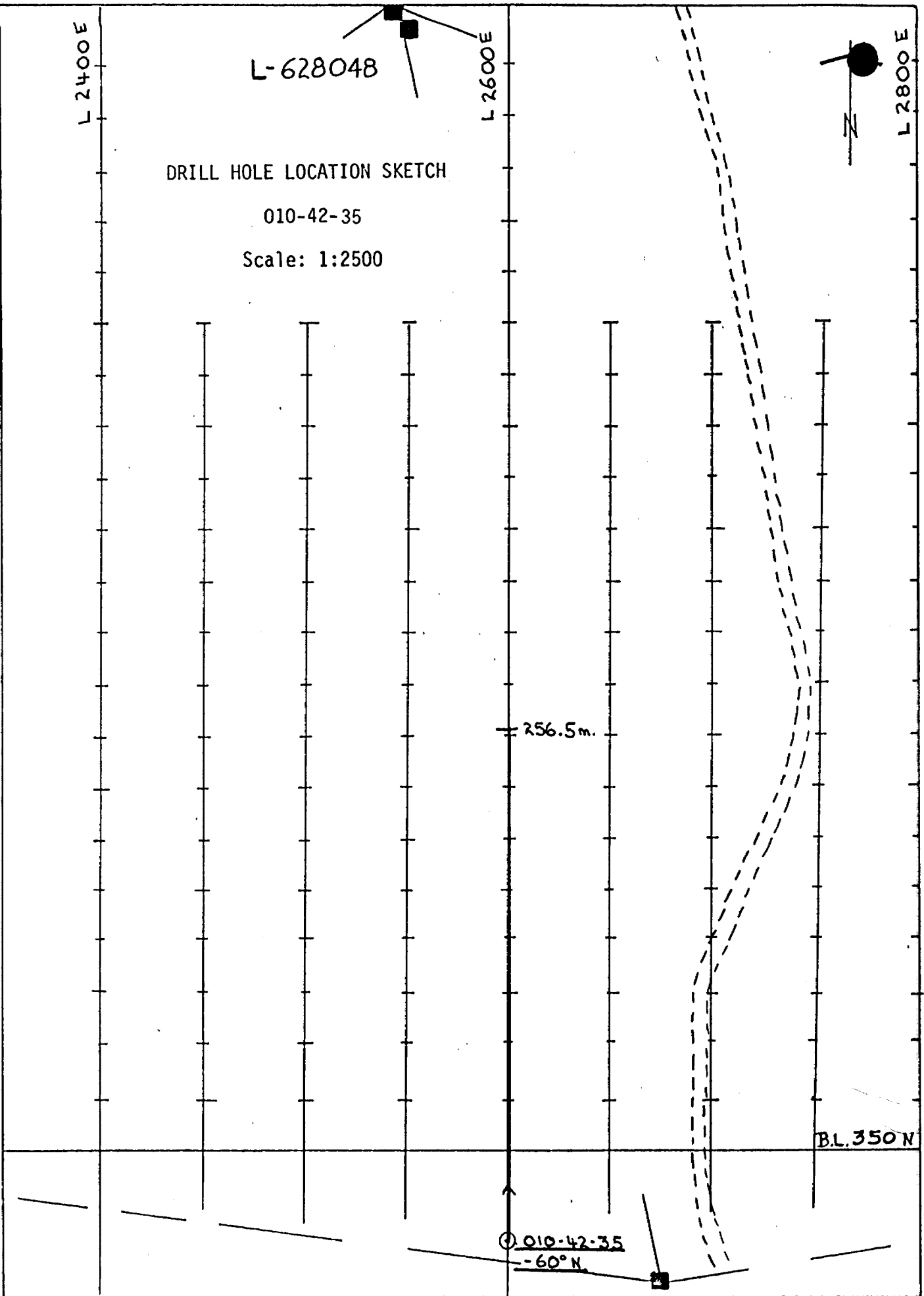
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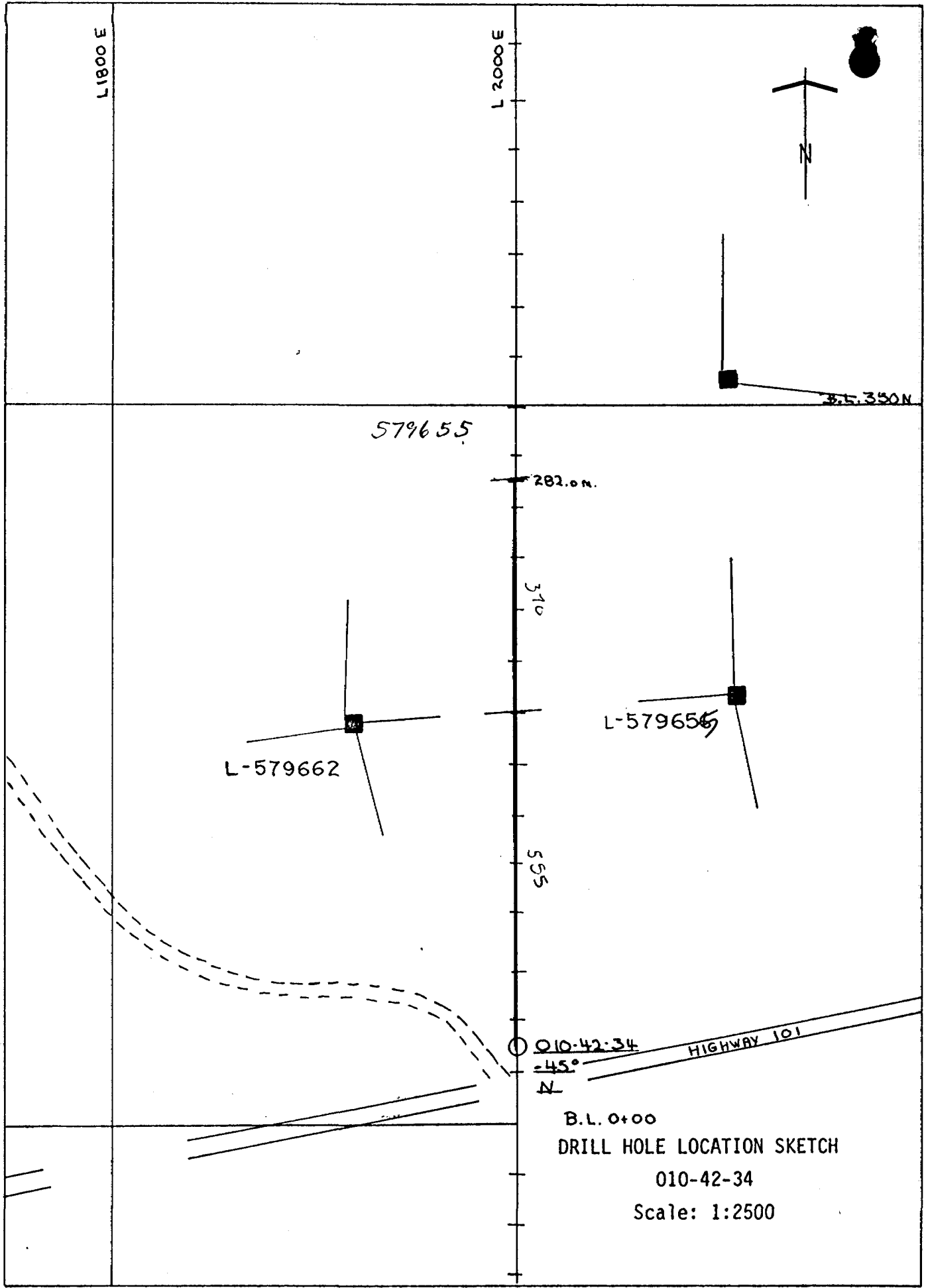


256.5m.

BL. 350 N

① 010-42-35
- 60° N.





B.L. 0+00
 DRILL HOLE LOCATION SKETCH
 010-42-34
 Scale: 1:2500

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

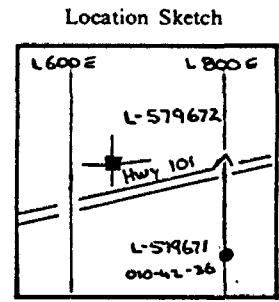
Hole No. 010-42-36

Hole No. 010-42-36 Sheet 1
 Property Harker-4
 Township Harker
 Location L 800 E; 325 S
 Logged By G. Kent
 Core Location Perry Lake

Length 202 metres
 Bearing Grid North
 Dip -45°

Commenced October 6, 1982
 Completed October 9, 1982
 Drilling Co. St. Lambert
 Core Size BQ
 Casing Left/Lost in Hole none

Dip: Collar -45°
 Etch Test Depth Rdg. True
1 202m 45° 38°



North ↑
 Claim No. L-579671
 Scale: 1:10,000

| Metres | | DESCRIPTION |
|--------|--------|---------------------------------|
| From | To | |
| 0 | 31.0 | OVERBURDEN |
| 31.0 | 90.93 | GREYWACKE |
| 90.93 | 124.02 | QUARTZ ARENITE AND CONGLOMERATE |
| 124.02 | 159.47 | GREYWACKE/MUDSTONE |
| 159.47 | 174.39 | SILICIFIED SEDIMENT |
| 174.39 | 202.0 | WACKE/MUDSTONE |
| | 202.0 | END OF HOLE |

G. Kent

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

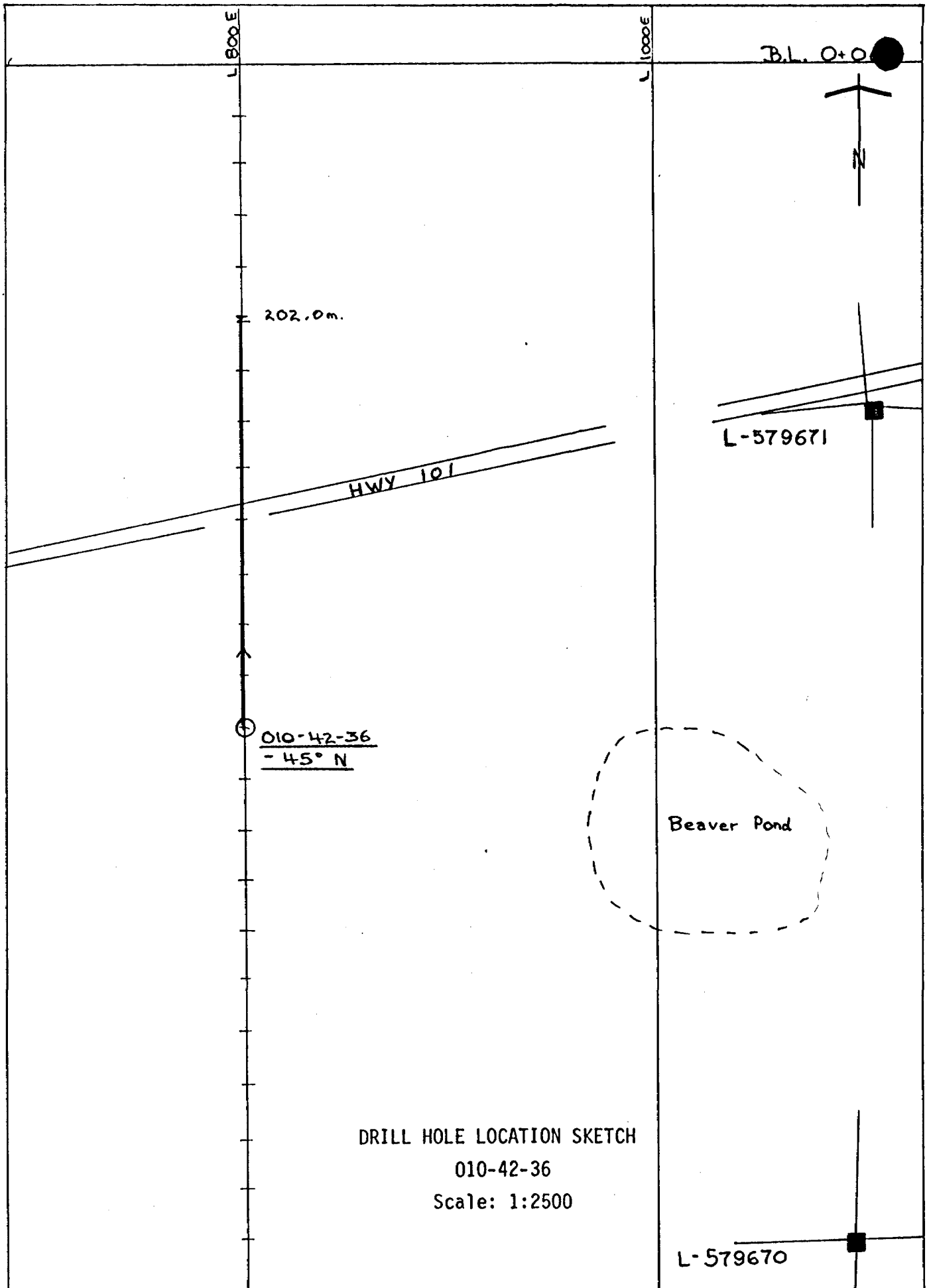
Hole No. 010-42-36
Sheet No. 2

| Metres | | DESCRIPTION |
|--------|--------|---|
| From | To | |
| 0 | 31.00 | OVERBURDEN |
| 31.00 | 90.93 | GREYWACKE |
| | | A soft, grey-green coloured sediment with medium grain size and consistent layering at 60° to core axis. Narrow quartz veins cut the core but are generally conformable to the primary layering. These quartz veins may represent interlaminated chert. Many quartz veins are vuggy and contain limonite and/or brown carbonates. Limonitic rock continues down to 54 metres and appears to represent the zone of groundwater alteration. |
| | | The rock lacks any grain sorting and graded bedding is not apparent. Clasts up to 1 cm in size occur, but the rock is composed dominantly of sand size and finer grained clasts. The rock has been bleached as a result of quartz and carbonate alteration. |
| | | Fault Gouge: 44.97 to 45.80 Limonite sand, broken and lost core. |
| | | Fine crystalline pyrite is disseminated through this section but the overall content is in trace amounts. |
| | | Fault Gouge: 51.38 to 51.76 Broken rock plus 25 cm of lost core. |
| | | Chert-sericite laminae becomes prominent towards the bottom of the section: 86.80 - 90.93 metres. Fine pyrite and specularite are veined and disseminated in this section up to 1% by volume. Layering is at 60° to 70° to core axis. The lower contact is brecciated and quartz veined and may represent a non-conformity. |
| 90.93 | 124.02 | QUARTZ ABENITE AND CONGLOMERATE |
| | | A light, white-yellow coloured sediment with medium to coarse grain size. Quartz and jasper pebbles are noted throughout the section and are elongate and rounded. These clasts constitute only 1-2% of the rock and are supported by a sandstone matrix. |
| | | Syngenetic pyrite occurs as thin laminae at widely spaced intervals. These pyrite bands constitute 2-3% of the section from 106.11 to 106.61 metres. |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 54010-42-36
Sheet No. 3

| Metres | | DESCRIPTION |
|--------|--------|---|
| From | To | |
| 90.93 | 124.02 | QUARTZ ARENITE AND CONGLOMERATE (continued) |
| | | These laminae are conformable to other layering at 50° to the core axis. Secondary pyrite occurs as disseminations surrounding quartz veins. Intense sericite alteration also is noted in the vicinity of quartz veins. |
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| 124.02 | 159.47 | GREYWACKE/MUDSTONE |
| | | As described from 31.00 to 90.93 metres, but more highly altered due to quartz veining and sericitization. |
| | | 131.20-132.00: Quartz veined and altered with 2% pyrite-specularite. |
| | | 135.11-135.55: Quartz-sericite rock with 1% specularite and pyrite. |
| | | 139.58-140.10: Quartz-sericite " " " " |
| | | 147.51-148.34: " " " " " " |
| | | 155.00-159.47: Quartz-sericite with minor specularite bands. Core angles vary from 0-90° to the core axis indicating severe folding in this section. |
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DRILL HOLE LOCATION SKETCH

010-42-36

Scale: 1:2500

L-579670

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

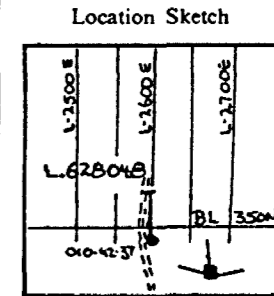
Hole No. 010-42-37

Hole No. 42-37 Sheet 1
Property Holloway -2
Township Holloway
Location L2600E, 3+30N
Logged By G. Kent
Core Location Perry Lake

Length 139.70 metres
Bearing Grid North
Dip -55° at collar

Commenced December 4, 1982
Completed December 7, 1982
Drilling Co. St. Lambert
Core Size BQ
Casing Left/ Lost in Hole none

Dip: Collar -55°
Etch Test Depth Rdg. True
1 80.0 57° 50°
2 139.7 55° 48°



North ↑
Claim No. L628048
Scale: 1:10,000

| Footage/ Metres | | DESCRIPTION |
|-----------------|--------|---|
| From | To | |
| 0.0 | 13.80 | OVERBURDEN |
| 13.80 | 53.57 | MAFIC TUFF/PILLOW BASALT |
| 53.57 | 94.89 | CARBONATIZED ULTRAMAFIC FLOW (FRAGMENTAL QUARTZ BRECCIA) |
| 94.89 | 114.00 | BLEACHED FLOW (SILICIFIED AND SERICITIZED BASALT) |
| 114.00 | 124.84 | CARBONATIZED ULTRAMAFIC FLOW (QUARTZ-SERICITE-FUCHSITE BRECCIA) |
| 124.84 | 126.30 | FAULT ZONE - QUARTZ-GRAPHITE BRECCIA |
| 126.30 | 139.70 | LAPILLI TUFF V9i |
| | 139.70 | END OF HOLE |

R. J. Curran

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 010-42-37
Sheet No. 2

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 0.0 | 13.80 | OVERBURDEN |
| 13.80 | 53.57 | MAFIC TUFF/PILLOW BASALT |
| | | Intercalated mafic tuffs and flows showing signs of weak but pervasive carbonatization and strong carbonate veining. The rock is moderately hard, non-magnetic and well foliated. Laminations within the tuffs and flow contacts vary from 40 to 60° to the core axis. The core is badly fractured and weathered from 13.80 to 17.10 metres. Limonitic staining in the carbonate zones continue throughout the hole indicating strong fracturing. |
| | | 21.72 to 25.66: Bleached/carbonatized rock containing many pyrite-carbonate veins up to 5 cm in width. These veins have a preferred orientation of 45° to the core axis. Pillow rims are silicified and appear as a greenish-yellow color. |
| | | 39.50 to 41.45: Marker - porphyritic basalt flow with sericitized feldspar laths. The lower contact is abrupt and faulted at 50° to the core axis. |
| 53.57 | 94.89 | CARBONATIZED ULTRAMAFIC FLOW (FRAGMENTAL QUARTZ BRECCIA) |
| | | A highly altered and brecciated rock directly correlatable to the fragmental quartz breccia and quartz-fuchsite zone (81.50 to 110.10) of DDH 42-35. |
| | | The rock is greenish to yellowish in color as determined by the relative proportion of sericite to fuchsite. The rock is carbonatized and silicified and is infused with quartz veins. These veins and breccia fillings often consist of a black-smokey quartz. Fragments of ultramafic flow rock are wholly altered to fuchsite, sericite and carbonates. |
| | | Sericitic sections appear to contain a higher percentage of sulphides. Pyrite occurs as fine grained disseminations up to 1% locally. |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

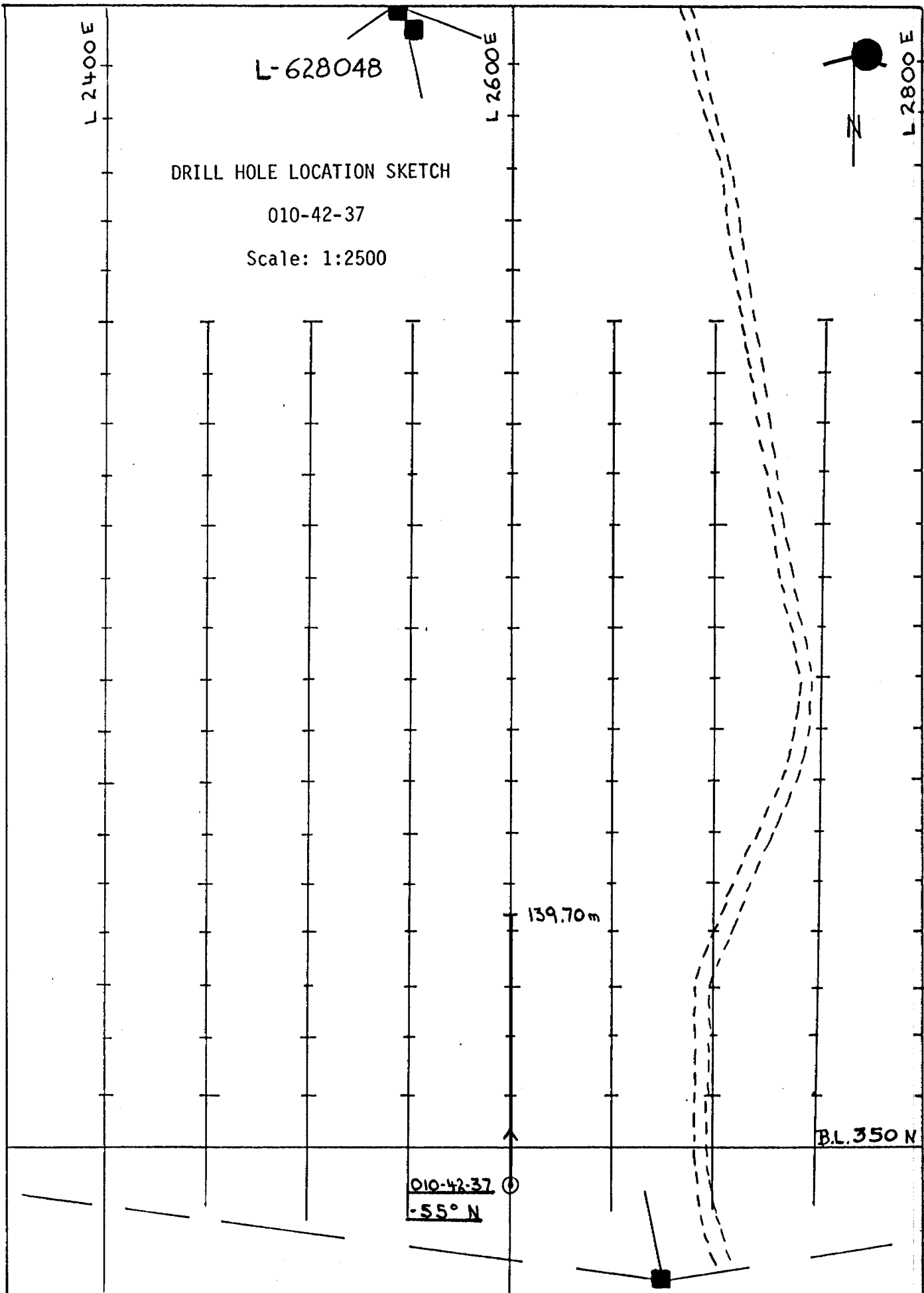
Hole No. 010-42-37
Sheet No. 3

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| 53.57 | 94.89 | CARBONATIZED ULTRAMAFIC FLOW (continued) |
| | | This rock is fairly hard due to silicification. Ultramafic flow textures are well preserved within individual breccia fragments with spinifex needles often replaced by white quartz-carbonate. |
| | | 61.33-62.96: Quartz-sulphide breccia - dark grey colored rock containing up to 2% pyrite and correlatable to 81.50-85.50 m in drill hole 010-42-35. |
| | | 62.96-64.34: Fault gouge, ultramafic breccia with narrow section of mud at 40° to the core axis |
| | | 66.40-68.33: Dark yellow sericite-breccia. A yellowish-olive-grey colored section consisting of 70% quartz and sericite and 20 of an olive drab colored mineral. This rock appears similar to its' auriferous equivalent 88.81-89.78 in hole 42-35. |
| | | 68.33-94.89: Quartz-fuchsite zone - bright green to yellow in color. This ultramafic breccia contains 70% sericite-fuchsite-carbonate fragments with smokey quartz veins cutting the rock at all angles. |
| | | 86.54-87.30 smokey-quartz breccia contains abundant pyrite in a dark, quartz rich breccia. Some wisps of limonitic, weathered pyrite which may include some visible gold. |
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| 94.89 | 114.00 | BLEACHED FLOW (SILICIFIED & SERICITIZED BASALT) |
| | | A pillow basalt unit which has been wholly replaced by quartz, carbonate sericite and zoisite. This rock is a light cream color and is extremely hard. The rock is massive and retains spherulitic flow contacts. See 010-42-35; 110.10 to 133.02 metres. |
| | | Abrupt contact at 114.00 metres orientated at 48° to the core axis. |
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AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 010-42-37
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| 114.00 | 124.84 | <p>CARBONATIZED ULTRAMAFIC FLOW (QUARTZ-SERICITE-FUCHSITE BRECCIA)</p> <p>This unit is similar to that described from 68.33 to 94.89 metres, but contains much less fuchsite. It appears to be correlatable to the quartz-fuchsite zone seen from 133.02 to 140.16 metres in hole 010-42-35.</p> <p>The rock is highly silicified and carbonatized. Only traces of pyrite are seen.</p> <p>This unit is in fault contact with the foot wall rock.</p> |
| 124.84 | 126.30 | <p>FAULT ZONE - QUARTZ-GRAPHITE BRECCIA</p> <p>Contains broken and sheared core. Quartz and graphite cement fragments of highly altered host rock.</p> |
| 126.30 | 139.70 | <p>LAPILLI TUFF V9i</p> <p>A greyish-yellow colored rock, moderately hard and non-magnetic. Lapilli sized fragments are rounded and elongated at 60° to the core axis. Sericite bands are orientated at 60° to the core axis and may represent clay rich laminae.</p> <p>The core is massive with poor to non-existent bedding-lamination.</p> |
| | 139.70 | END OF HOLE |



L-628048

DRILL HOLE LOCATION SKETCH

010-42-37

Scale: 1:2500

L 2400E

L 2600E

L 2800E

139.70m

B.L. 350 N

010-42-37 ①
-55° N

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

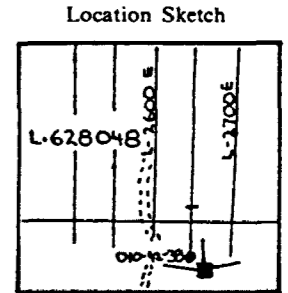
Hole No. 010-42-38

Hole No. 010-42-38 Sheet 1
Property Holloway - 2
Township Holloway
Location L2650E, 305N
Logged By G. Kent
Core Location Perry Lake

Length 186.0 metres
Bearing Grid North
Dip -60°

Commenced December 7, 1982
Completed December 10, 1982
Drilling Co. St. Lambert
Core Size BQ
Casing Left/Lost in Hole 14 metres
left in hole for
water source.

Dip: Collar -60°
Etch Test Depth Rdg. True
1 123.0 60° 54°
2 186.0 not visible



North ↑
Claim No. L628048
Scale: 1:10,000

| Footage / Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| 0.0 | 14.20 | OVERBURDEN |
| 14.20 | 32.05 | CARBONATE SEDIMENT/INTERMEDIATE TUFF |
| 32.05 | 56.48 | PILLOW BASALT |
| 56.48 | 91.67 | PORPHYRITIC BASALT |
| 91.67 | 93.90 | FAULT ZONE - QUARTZ-GRAPHITE BRECCIA |
| 93.90 | 114.25 | PORPHYRITIC BASALT |
| 114.25 | 131.77 | CARBONATIZED AND SILICIFIED FLOW ROCK (ALTERED ULTRAMAFIC) |
| 131.77 | 186.00 | WELDED TUFF/PILLOW BRECCIA |
| | 186.00 | END OF HOLE |

G. Kent

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 010-42-38
Sheet No. 3

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| 56.48 | 91.67 | PORPHYRITIC BASALT A dark grey-black coloured rock with well developed porphyritic texture. Feldspar laths from 1-3 mm in length are wholly altered to sericite. The rock matrix is massive and appears unaltered. This unit was observed in drill hole 42-35; 74.77 to 78.11 metres. |
| 91.67 | 93.90 | FAULT ZONE - QUARTZ-GRAPHITE BRECCIA An intensely brecciated zone contains 50% quartz and graphite. The section is non-conductive but does contain numerous sand seams. |
| 93.90 | 114.25 | PORPHYRITIC BASALT As described 56.48-91.67, but with an amygdaloidal section from 93.90 to 101 metres. These varioles are up to 3 cm in width near the base and become progressively smaller downhole. This rock becomes increasingly bleached and carbonatized towards the lower contact. |
| 114.25 | 131.77 | CARBONATIZED AND SILICIFIED FLOW ROCK (ALTERED ULTRAMAFIC) Sericitic, carbonatized and silicified rock showing extensive veining and brecciation. This unit appears to be altered ultramafic rock and represents the stratigraphic equivalent of auriferous carbonate rock drilled in hole 42-35. Breccia fragments are altered to quartz/sericite and are cemented by quartz-carbonate veins. |
| | | 120.0-128.85 Quartz-sericite breccia with smokey quartz veins and minor pyrite mineralization. |
| | | 128.85-129.10 Fault gouge |
| | | 129.10-131.30 Sericite breccia. Bright yellow coloured sericitized rock, showing |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 010-42-38
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| 114.25 | 131.77 | CARBONATIZED AND SILICIFIED FLOW ROCK (continued) |
| | | intense granulation of the quartz matrix. |
| | | Fuchsite is noted within fractures |
| | | and as small clots. Pyrite occurs as |
| | | small aggregates up to 5mm in size. |
| 131.77 | 186.00 | WELDED TUFF/PILLOW BRECCIA |
| | | A highly altered and silicified tuffaceous rock. Clasts |
| | | range up to 30 centimeters in size, and are unsorted and poorly |
| | | laminated. |
| | | Clots of pyrite are noted throughout and range up to 5 mm |
| | | in size. Fuchsite grains are disseminated throughout the rock and are |
| | | commonly noted within pillow fragments. The pillows are light grey to |
| | | whitish in colour and are wholly replaced by quartz carbonate and |
| | | sericite. Pillow rims are chilled and commonly show a dark glassy |
| | | texture. Quartz filled vesicles are noted within the pillow fragments |
| | | and may be replaced by fuchsite or ankerite. |
| | | Dark, smokey coloured quartz veins cut the rock at angles and |
| | | are noted within pillow fragments and the hyaloclastite matrix. |
| | | 164.00 to 166.52 - quartz-sericite tuff |
| | | - a highly altered sequence showing |
| | | laminae of quartz-carbonate and |
| | | sericite. The rock is strongly |
| | | folded with a crenulation cleavage |
| | | developed in the sericite bands. |
| | | Pyrite clots up to 1 mm in size |
| | | make up 1/2-1% of this section. |
| | | The pillow breccia may represent a stratigraphic equivalent to |
| | | the bleached pillow basalt of drill hole 42-35, 37. Colour and texture |
| | | are similar in the basalt mentioned above and in the pillow breccia |
| | | described here. |
| 186.00 | | END OF HOLE |

L 2400E

L-628048

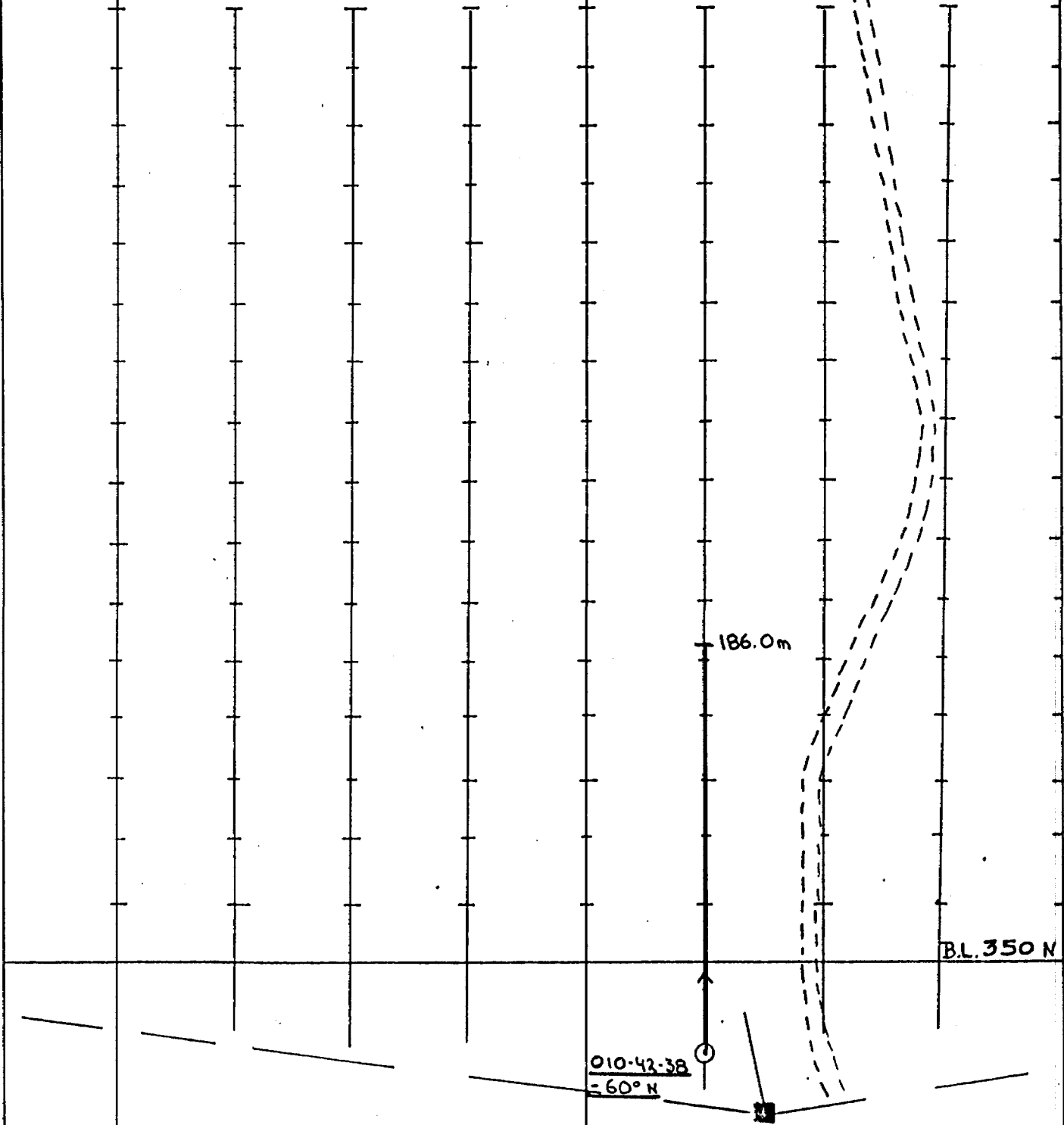
L 2600E

L 2800E

DRILL HOLE LOCATION SKETCH

010-42-38

Scale: 1:2500



186.0m

B.L. 350 N

010-42-38
= 60° N

AMAX MINERALS EXPLORATION
(A Division of Amax of Canada Limited)
DIAMOND DRILL RECORD

Hole No. 010-42-39

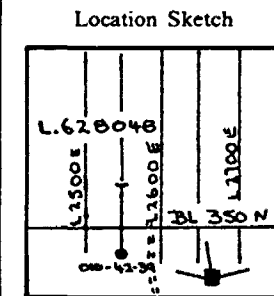
Hole No. 010-42-39 Sheet 1
Property Holloway - 2
Township Holloway
Location L2550E, 310N

Logged By G. Kent
Core Location Perry Lake

Length 178.50 metres
Bearing Grid North
Dip -60°

Commenced December 10, 1982
Completed December 12, 1982
Drilling Co. St. Lambert
Core Size BQ
Casing Left/ Lost in Hole

| Etch Test | Depth | Rdg. | True |
|-----------|-------|------|------|
| 1 | 105 m | 62° | 56° |
| 2 | 178 m | 60° | 54° |



North
↑
Claim No. L628048
Scale: 1:10,000

Footage Metres

DESCRIPTION

| From | To | DESCRIPTION |
|--------|--------|---|
| 0.0 | 11.70 | OVERBURDEN |
| 11.70 | 16.14 | CARBONATE TUFF/BLEACHED PILLOW BASALT |
| 16.14 | 18.61 | PORPHYRITIC BASALT |
| 18.61 | 28.83 | PILLOW BASALT |
| 28.83 | 29.03 | INTERFLOW TUFF |
| 29.03 | 40.03 | PORPHYRITIC BASALT |
| 40.03 | 102.57 | QUARTZ-CARBONATE-SERICITE-FUCHSITE BRECCIA (Q.F.Z.) |
| 102.57 | 152.79 | SERICITIZED ASH TUFF AND MAFIC FLOWS |
| 152.79 | 159.00 | ANDESITE |
| 159.00 | 173.82 | MAFIC LAPILLI TUFF |
| 173.82 | 178.50 | AMYGDULAR ANDESITE |
| | 178.50 | END OF HOLE |

Signature

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DIAMOND DRILL RECORD

Hole No. 010-42-39
Sheet No. 2

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| 0.0 | 11.70 | OVERBURDEN |
| 11.70 | 16.14 | CARBONATE TUFF/BLEACHED PILLOW BASALT A light grey coloured rock with abundant carbonate in the unit as co formable laminae and crosscutting veins. Pyrite occurs in association with the carbonate as coarse cubic crystals and gives this unit the distinctive nature of a marker formation. |
| 16.14 | 18.61 | PORPHYRITIC BASALT A dark grey-black coloured unit with a well developed porphyritic texture. Feldspar laths from 1-3 mm in length are wholly altered to sericite. The rock matrix is moderately hard and appears massive and unaltered. |
| 18.61 | 28.83 | PILLOW BASALT Similar to the unit described from 11.70 to 16.14 but with fewer calcite-pyrite laminae/veins. Although this rock has been bleached and carbonatized primary textures are still visible. Pillow rims are spaced from .5-2 metres apart and show light coloured, variolitic and silicified selveges. |
| 28.83 | 29.03 | INTERFLOW TUFF Bubbly at the top and fining downhole. This unit is laminated at 65° to the core axis. |
| 29.03 | 40.03 | PORPHYRITIC BASALT As described previously from 16.14 to 18.61 metres. Becomes chilled and carbonatized from 38.39 to 40.03. The lower contact is sheared and contains a 1 cm mud seam at 45° to the core axis. |

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Hole No. 010-42-39
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| 102.57 | 152.79 | SERICITIZED ASH TUFF AND MAFIC FLOWS (continued) |
| | | 123.5 - 127.0 Broken, blocky ground |
| | | The rock becomes progressively less altered downhole. The lower contact is faulted and veined with pink carbonate. |
| 152.79 | 159.00 | ANDESITE |
| | | A grey coloured, fine grained and massive textured rock cut by rose-calcite veins. |
| 159.00 | 173.82 | MAFIC LAPILLI TUFF |
| | | A dark coloured fragmental rock with lapilli sized clasts orientated at approximately 30° to the core axis. No mineralization or alteration is noted in this section. |
| 173.82 | 178.50 | AMYGDULAR ANDESITE |
| | | A grey coloured fine grained and massive textured rock. This unit shows a few vesicles with pink-calcite fillings. |
| | 178.50 | END OF HOLE |

