

DIAMOND DRILLING



32012SE0043 12 HOLLOWAY

010

TOWNSHIP: Holloway

REPORT NO.: 12

WORK PERFORMED BY: Amax Mineral Exploration

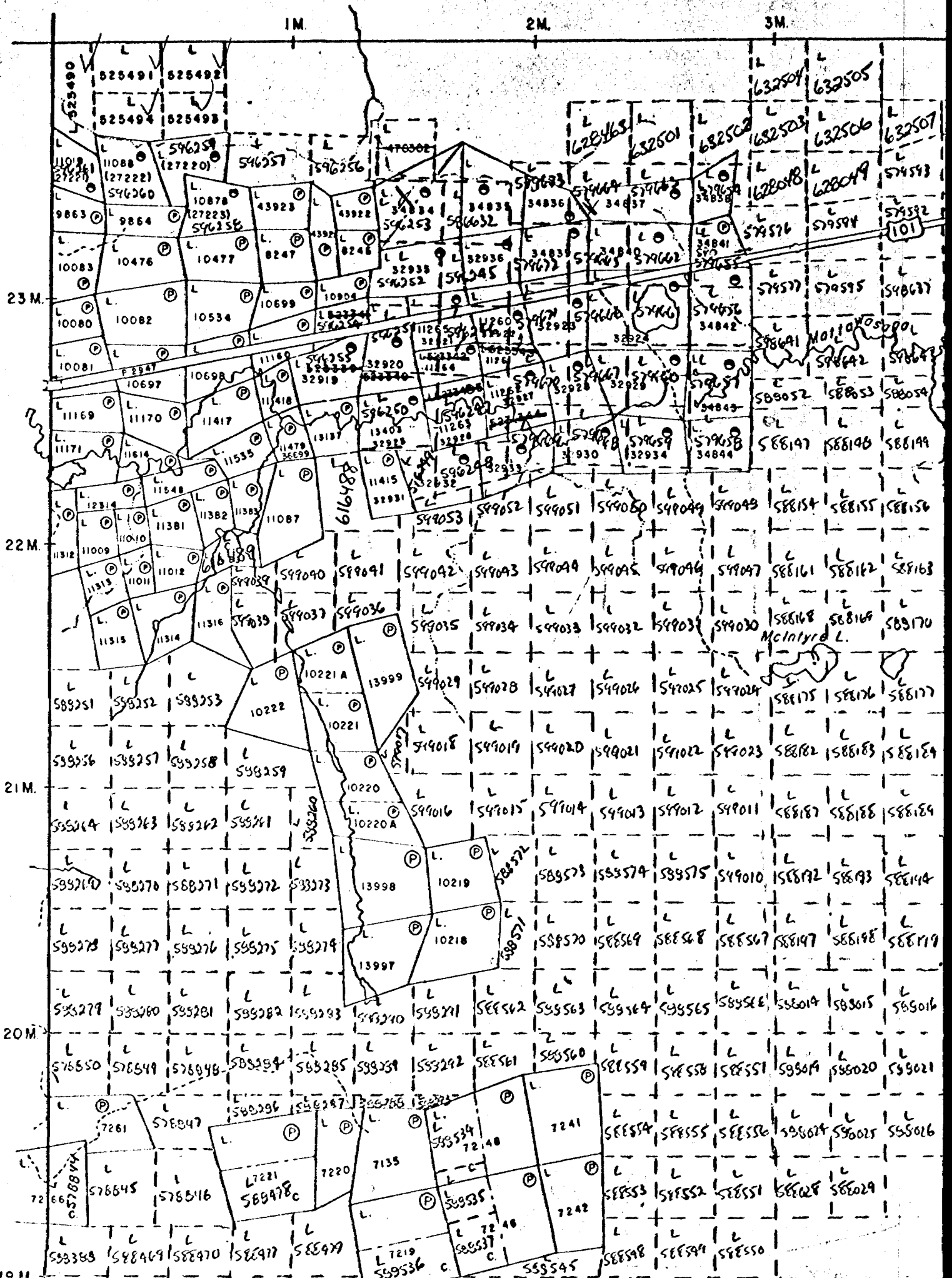
<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L 579664	839-42-3	78.62 m	July/81	(1)
L 596253	839-42-5	96.00 m	Aug/81	(1)
L 579664	839-42-7	120.00 m	Sept/81	(2)
L 579664	839-42-8	113.60 m	Sept/81	(2)
L 579662	839-42-1	252.0 m	July/81	(3)
L 579667	839-42-2	255.0 m	July/81	(3)
L 596252	839-42-4	180.0 m	Aug/81	(3)
L 579664	839-42-6	130.6 m	Aug/81	(3)
L 579664	839-42-10B	140.0 m	Sept/81	(3)
L 579672	839-42-12	147.0 m	Oct/81	(3)
L 579672	839-42-13	121.5 m	Oct/81	(3)
L 579664	839-42-15	119.0 m	Oct/81	(3)
L 579664	839-42-16	114.0 m	Oct/81	(3)
L 579663	839-42-17	103.1 m	Oct/81	(3)
L 579663	839-42-18	153.0 m	Oct/81	(3)
L 579663	839-42-19	138.0 m	Nov/81	(3)
L 579664	839-42-21	123.0 m	Nov/81	(3)
L 579664	839-42-22	126.0 m	Nov/81	(3)
L 579664	839-42-23	150.0 m	Nov/81	(3)
L 579663	839-42-25	135.0 m	Nov/81	(3)
L 579664	839-42-26	151.7 m	Nov/81	(3)
L 579664	839-42-27	153.0 m	Nov/81	(3)

NOTES: (1) #496-81
(2) #497-81
(3) #65-82 (Harker Twp).

Holloway twp
m356

496-81

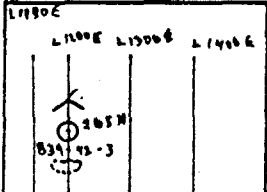
FRECHEVILLE TWP M.348



1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

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

Hole No. 839-42-3

| | | | | |
|---|---------------------------------|--------------------------------------|--|--|
| Hole No. <u>839-42-3</u> Sheet <u>1</u> | Length <u>78.62 metres</u> | Commenced <u>July 15, 1981</u> | Dip: Collar <u>-45°</u> | Location Sketch
 |
| Property <u>Holloway</u> | Bearing <u>Grid North</u> | Completed <u>July 16, 1981</u> | Etch Test Depth Rdg. True | |
| Township <u>Holloway</u> | Dip <u>-45°</u> | Drilling Co. <u>St. Lamberts</u> | 78.62m 54° 45° | Claim No. <u>L579664</u>

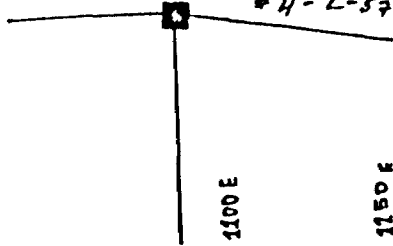
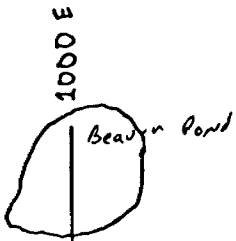
Scale: <u>1:12500</u> |
| Location <u>1200E</u> | Objective <u>HLEM conductor</u> | Core Size <u>BQ</u> | | |
| <u>265N</u> | | Casing Left/Lost in Hole <u>None</u> | | |
| Logged By <u>K. Guy</u> | | | | |
| Core Location <u>Perry Lake</u> | | | | |

Remarks

| Footage/ Metres | | DESCRIPTION | Sample No. | From | To | Length (metres) | Au ppm | Ag ppm | | | |
|-----------------|-------|---|------------|------|----|-----------------|--------|--------|--|--|--|
| From | To | | | | | | | | | | |
| 0 | 36.0 | CASING - OVERBURDEN | | | | | | | | | |
| 36.0 | 37.5 | ACID LAPILLI TUFF | | | | | | | | | |
| 37.5 | 43.0 | ACID TUFF BRECCIA | | | | | | | | | |
| 43.0 | 52.2 | TUFF BRECCIA - ACID FRAGMENTS WITH MAFIC MATRIX | | | | | | | | | |
| 52.2 | 59.0 | TUFF BRECCIA - MAFIC FRAGMENTS WITH ACID MATRIX | | | | | | | | | |
| 59.0 | 64.5 | TALCOSE - CHLORITE SCHIST - SHEARED | | | | | | | | | |
| 64.5 | 78.62 | CARBONATE BRECCIA | | | | | | | | | |
| | 78.62 | END OF HOLE | | | | | | | | | |

R.G. Dawson

#2-L-579673
#4-L-579664



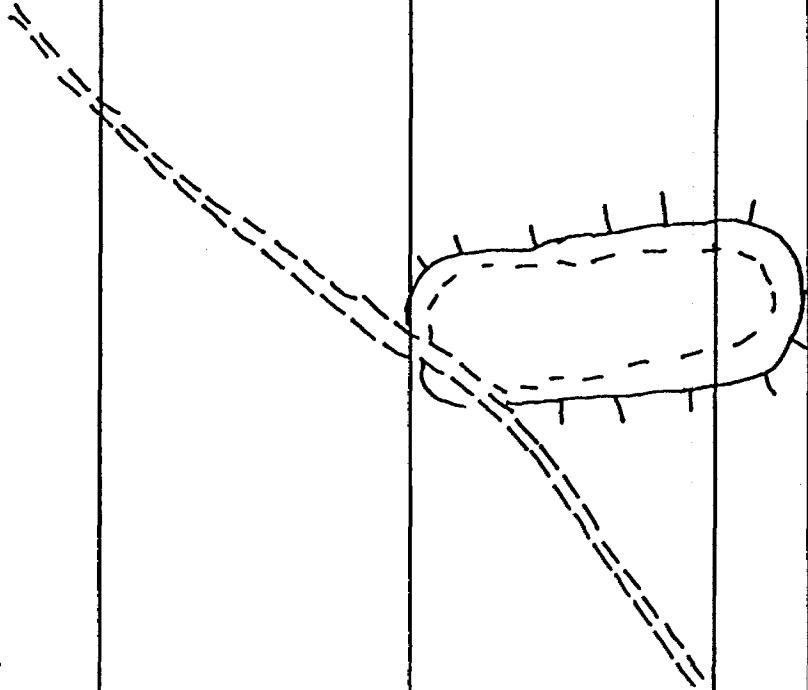
1100 E

1150 E

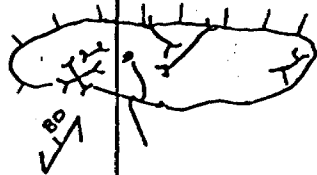
1200 E

1300 E

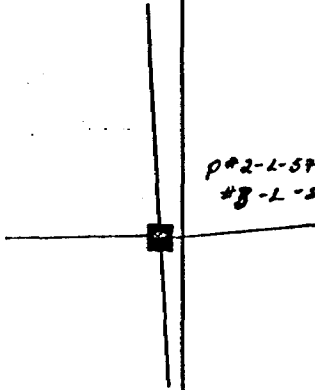
1400 E



839-42-3
265 m North



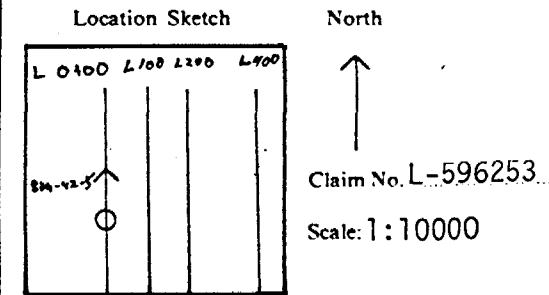
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#8-L-579664



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DIAMOND DRILL RECORD

Hole No. 839-42-5

| | | | |
|----------------------------------|---------------------------------|-------------------------------|---------------------------|
| Hole No. 839-42-5 Sheet 1 | Length 96.0 metres | Commenced August 9, 1981 | Dip: Collar -45° |
| Property Ghostmount - Holloway-2 | Bearing North Grid | Completed August 10, 1981 | Etch Test Depth Rdg. True |
| Township Holloway | Dip -45° | Drilling Co. St. Lambert | |
| Location 335N, 0+02 | Objective To test HEM conductor | Core Size BQ | |
| Logged By E. Ludwig | | Casing Left/ Lost in Hole Nil | |
| Core Location Perry Lake Lodge | | | No Etch test |



Remarks

| Footage/Metres | | DESCRIPTION | Sample No. | From | To | Length (metres) | Au ppm | Ag ppm | | | |
|----------------|-------|--|------------|------|----|-----------------|--------|--------|--|--|--|
| From | To | | | | | | | | | | |
| 0 | 15.35 | OVERBURDEN | | | | | | | | | |
| 15.35 | 24.00 | MAFIC CHLORITIC TUFF | | | | | | | | | |
| 24.0 | 25.8 | PYRITIFEROUS CHLORITE - WITH MINOR GRAPHITE BEDS | | | | | | | | | |
| 25.8 | 53.0 | MAFIC CHLORITIC TUFF | | | | | | | | | |
| 53.0 | 54.0 | GRAPHITIC ARGILLITE SCHIST | | | | | | | | | |
| 54.0 | 56.75 | MAFIC CHLORITIC BRECCIATED TUFF | | | | | | | | | |
| 56.75 | 60.75 | MAFIC CARBONATE TUFF | | | | | | | | | |
| 60.75 | 61.45 | GRAPHITIC ARGILLITE SCHIST | | | | | | | | | |
| 61.45 | 71.25 | CARBONATE TUFF (INTERMEDIATE) | | | | | | | | | |
| 71.25 | 73.30 | MAFIC CHLORITIC TUFF (ALTERED SEDIMENT?) | | | | | | | | | |
| 73.30 | 86.5 | CARBONATE TUFF - ANDESITIC | | | | | | | | | |
| 86.5 | 88.5 | GRAPHITIC ARGILLITE SCHIST | | | | | | | | | |
| 88.5 | 96.0 | MAFIC FLOWS - BASALT | | | | | | | | | |
| | 96.0 | END OF HOLE | | | | | | | | | |

E. Ludwig

300 W

200 W

100 W

0 00

100 E

CREEK

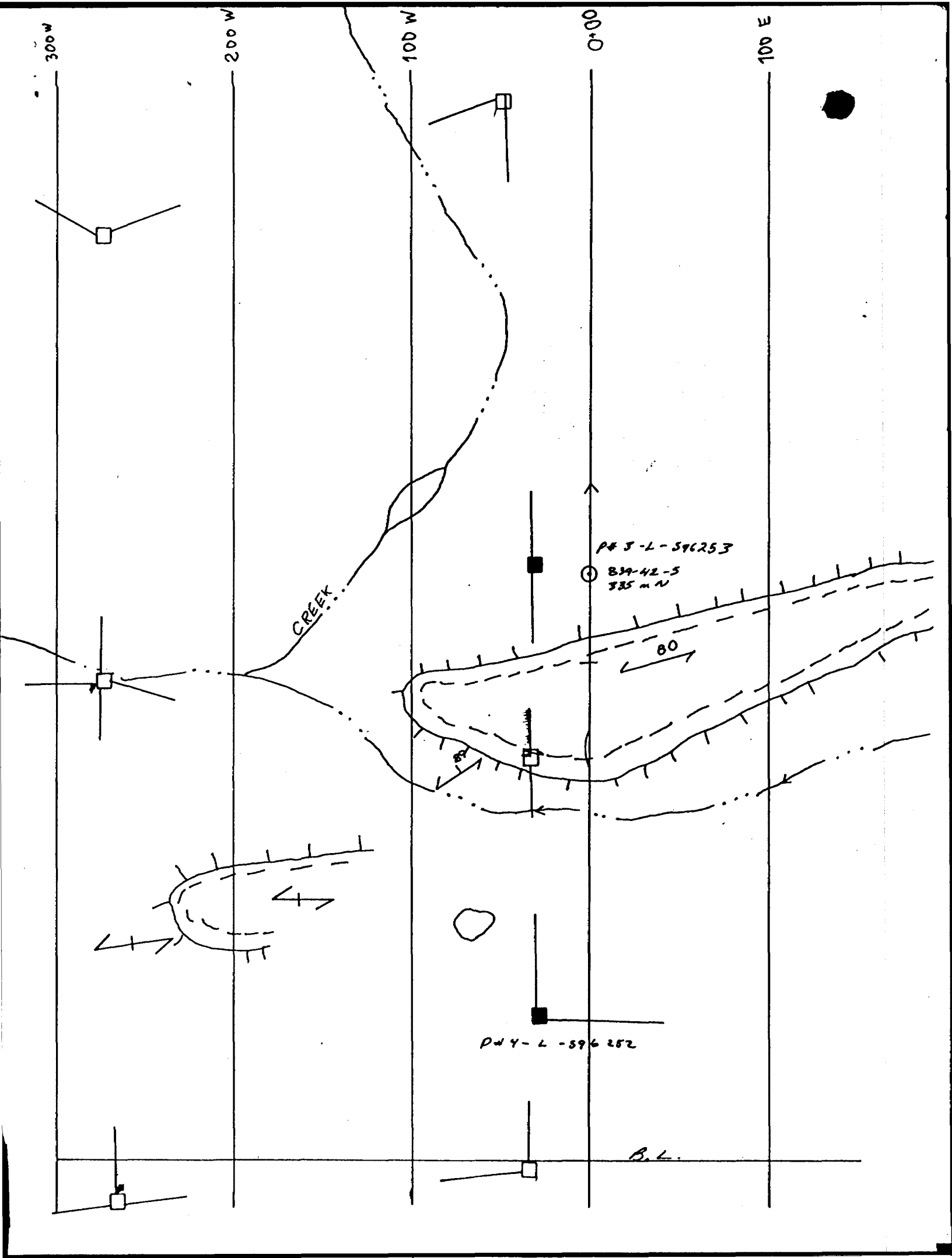
PA 3-L-596253

839-42-5
335 m N

80

PA 4-L-596252

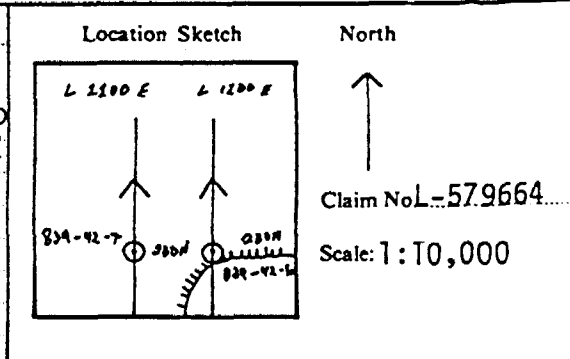
B.L.



AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-7

| | | | | |
|--------------------------|------------------------------------|-----------------------------|--------------------------------|------------------|
| Hole No. 839-42-7 | Sheet 1 | Length 120 metres | Commenced September 1, 1981 | Dip: Collar -45° |
| Property Holloway-2 | Bearing Grid North | Completed September 3, 1981 | Etch Test | Depth 120m |
| Township Holloway | Dip -45° | Drilling Co. St. Lambert | Rdg. 53° | True 45° |
| Location 1100W | Objective To test H.E.M. conductor | Core Size BQ | Casing Left/ Lost in Hole None | |
| 230N | | | | |
| Logged By B. Benoit | | | | |
| Core Location Perry Lake | | | | |

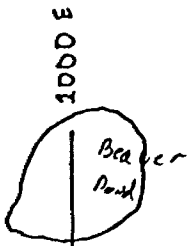


Remarks

| Footage/ Metres | | DESCRIPTION | Sample No. | From | To | Length (metres) | Au ppm | Ag ppm | | | |
|-----------------|-------|--------------------------|------------|------|----|-----------------|--------|--------|--|--|--|
| From | To | | | | | | | | | | |
| 0 | 36.2 | OVERBURDEN | | | | | | | | | |
| 36.2 | 40.0 | ULTRA MAFICS | | | | | | | | | |
| 40.0 | 60.2 | INERMEDIATE TUFF BRECCIA | | | | | | | | | |
| 60.2 | 88.0 | ULTRA MAFICS | | | | | | | | | |
| 88.00 | 120.0 | INTERMEDIATE TUFF | | | | | | | | | |
| | 120.0 | END OF HOLE | | | | | | | | | |

RG Perrain

#2-L-579673
#4-L-579664



1000 E

1100 E

1150 E

1200 E

1300 E

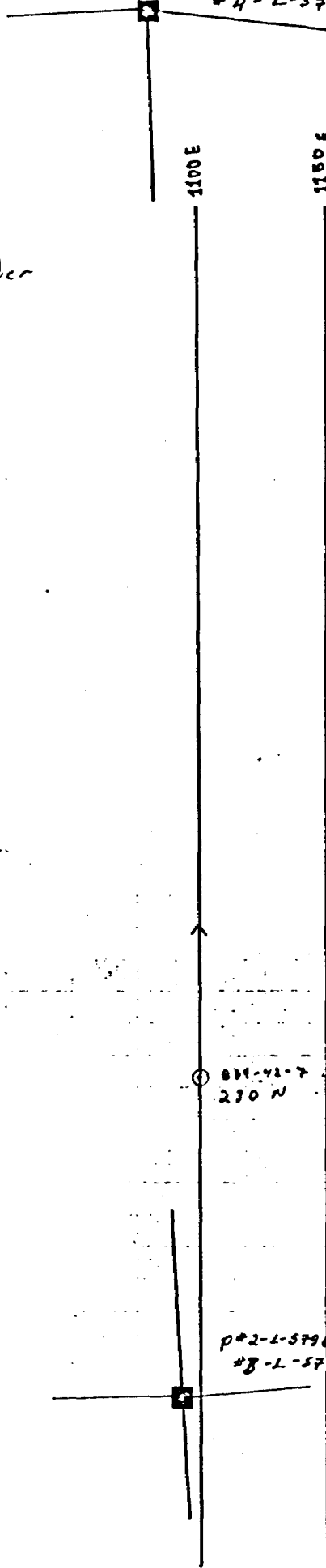
1400 E

031-41-7
270 N



150

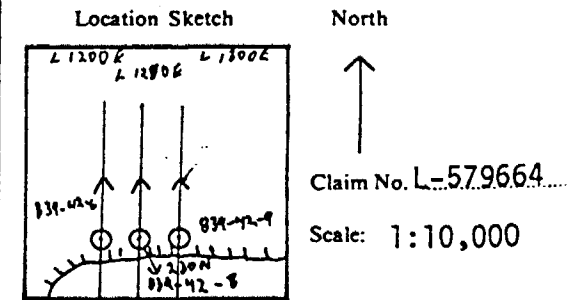
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#8-L-579664



AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-8

| | | | |
|---|---|---------------------------------------|---|
| Hole No. <u>839-42-8</u> Sheet <u>1</u> | Length <u>113.60</u> | Commenced <u>September 3, 1981</u> | Dip: Collar <u>-45°</u> |
| Property <u>Holloway-2</u> | Bearing <u>Grid North</u> | Completed <u>September 7, 1981</u> | Etch Test Depth Rdg. True |
| Township <u>Holloway</u> | Dip <u>-45</u> | Drilling Co. <u>St. Lambert</u> | <u>1</u> <u>113.6m</u> <u>54</u> <u>45°</u> |
| Location <u>1250E</u> | Objective <u>To test H.E.W. conductor</u> | Core Size <u>BQ</u> | |
| <u>230N</u> | | Casing Left/ Lost in Hole <u>None</u> | |
| Logged By <u>B. Benoit</u> | | | |
| Core Location <u>Perry Lake</u> | | | |
| Remarks | | | |



| Footage/ Metres | | DESCRIPTION | Sample No. | From | To | Length (metres) | Au ppm | Ag ppm | | | |
|-----------------|--------|--|------------|------|----|-----------------|--------|--------|--|--|--|
| From | To | | | | | | | | | | |
| 0 | 2.11 | OVERBURDEN | | | | | | | | | |
| 2.11 | 8.57 | ANDESITE | | | | | | | | | |
| 8.57 | 46.61 | ACID FRAGMENTAL 8.57 TO 36.0 - ACID TUFF | | | | | | | | | |
| 46.61 | 49.15 | INTERMEDIATE SERICITE TUFF | | | | | | | | | |
| 49.15 | 55.31 | ACID TUFF | | | | | | | | | |
| 55.31 | 65.34 | INTERMEDIATE TUFF | | | | | | | | | |
| 65.34 | 66.95 | ACID TUFF | | | | | | | | | |
| 66.95 | 83.05 | INTERMEDIATE TUFF | | | | | | | | | |
| 83.05 | 86.51 | LAPILLI TUFF | | | | | | | | | |
| 86.51 | 96.20 | ACID TUFF | | | | | | | | | |
| 96.20 | 100.87 | INTERMEDIATE TUFF | | | | | | | | | |
| 100.87 | 113.60 | MAFIC TUFF | | | | | | | | | |
| | 113.60 | END OF HOLE | | | | | | | | | |

R. G. Cousens

P# 4-L-579673
4-L-579664



1000 E

1100 E

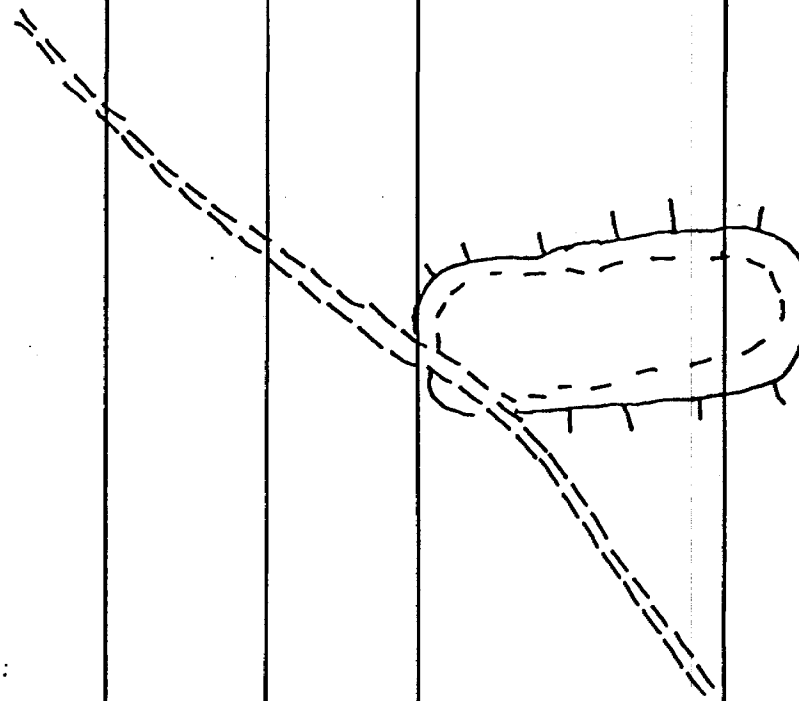
1150 E

1200 E

1250 E

1300 E

1400 E



871-42-8



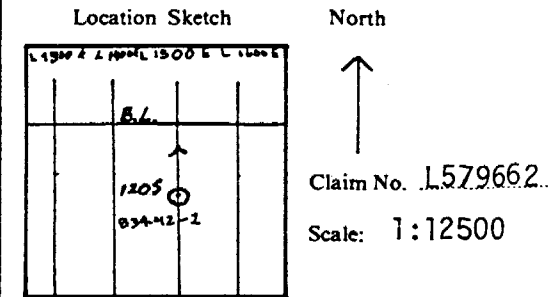
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8-L-579664



AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-1

| | | | |
|--------------------------|--|--------------------------------|---|
| Hole No. 839-42-1 | Length 252.0 metres | Commenced July 9, 1981 | Dip: Collar -45° |
| Property 839-42 | Bearing Grid North | Completed July 12, 1981 | Etch Test Depth Rdg. True
1 252.00 39° 31° |
| Township Holloway | Dip -45 | Drilling Co. St. Lamberts | |
| Location 1500E
120S | Objective Repeat of Hoyle Mining
hole to confirm geology
- no assays available | Core Size BQ | |
| Logged By K. Guy | | Casing Left/ Lost in Hole none | |
| Core Location Perry Lake | | | |



Remarks

| Footage: Metres | | DESCRIPTION |
|-----------------|-------|--|
| From | To | |
| 0 | 24.2 | OVERBURDEN |
| 24.2 | 38.5 | MAFIC FLOW - ANDESITE |
| 38.5 | 41.0 | CARBONATE ROCKS - LIKELY ALTERED MAFIC FLOW |
| 41.0 | 53.0 | MAFIC TUFF - ANDESITE |
| 53.0 | 105.0 | VOLCANOCLASTIC SEDIMENTS - GREYWACKE ARKOSE |
| 105.0 | 113.0 | MAFIC TUFF - ANDESITE |
| 113.0 | 122.0 | INTERBANDED MAFIC TUFFS AND VOLCANOCLASTIC SEDIMENTS |
| 122.0 | 151.5 | MAFIC TUFF - ANDESITE |
| 151.5 | 157.5 | VOLCANOCLASTIC SEDIMENT |
| 157.5 | 170.0 | MAFIC TUFF - ANDESITE |
| 170.0 | 172.4 | QUARTZ - CARBONATE - SULPHIDE - BRECCIA |
| 172.4 | 210.3 | MAFIC TUFF - ANDESITE |
| 210.3 | 222.2 | ULTRAMAFIC TUFF |

eg Rancan

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-1
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 0 | 24.2 | OVERBURDEN |
| 24.2 | 38.5 | MAFIC FLOW - ANDESITE |
| | | - chloritic - fine grained |
| | | - occasional tuffaceous sections between flows - sericitic 32.0 - 33.3 |
| | | - many quartz - carbonate veins - often with ankerite |
| | | - veins often parallel to schistosity $\approx 50^\circ$ |
| | | - many quartz ankerite veins |
| | | 27.5 metres is 45° to core axis. |
| | | 32.0 metres is 50° to core axis. |
| | | at 38.5 is a 1cm quartz - ankerite vein - below here rock contains much carbonate grading to: |
| 38.5 | 41.0 | CARBONATE ROCKS - LIKELY ALTERED MAFIC FLOW |
| | | - fine - medium grained, pinkish black |
| | | - sericitic, ankerite |
| | | - many quartz rich veins at random attitudes |
| 41.0 | 53.0 | MAFIC TUFF - ANDESITE |
| | | - fine grained, chloritic, well foliated |
| | | - 41.0 - 45.0 much carbonate |
| | | - thereafter carbonate is confined to quartz - carbonate - ankerite veins |
| | | 44.7 - 45.2 2cm quartz - ankerite vein at 10° to core axis. |
| | | Schistosity at 44.0 is 45° to core axis. |
| | | 46.9 - 47.4 - quartz carbonate vein at 60° to core axis. |
| | | 47.4 - 51.0 increase carbonate / ankerite |
| | | 51.5 - 52.2 increase carbonate / ankerite |
| | | 48.0 Schistosity at 75° to core axis. |
| 53.0 | 105.0 | VOLCANOCLASTIC SEDIMENTS - GREYWACKE ARKOSE |
| | | - fine to medium grained, foliated and layered |
| | | - light grey to pinkish in colour |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-1
 Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| | | - very few mafic minerals
- plagioclase, K-spar, quartz, ankerite
- many epidote rich sections
- many arkose sections with ankerite up to 2 metres thick
66.9 - small shear zone |
| | | epidote
ankerite
arkose
ankerite |
| | | arkose / ankerite |
| | | Schistosity at 75.0 metres at 60° to core axis. |
| | | arkose / ankerite |
| | | arkose / ankerite |
| | | Schistosity at 97 metres is 65° to core axis. |
| | | arkose / ankerite |
| | | arkose / ankerite |
| | | quartz carbonate veins
" " "
" " " |
| | | arkose / ankerite
" " |
| 105.0 | 113.0 | MAFIC TUFF - ANDESITE |
| | | - fine - to medium grained, green colour
- well foliated
- chloritic
- much carbonate and / or ankerite
- many quartz - carbonate veins parallel to foliation
17.32 |
| 113.0 | 122.0 | INTERBANDED MAFIC TUFFS AND VOLCANOCLASTIC - SEDIMENTS |
| | | - tuffs as above
- sediments as above - greywacke and arkosic greywacke |
| | | Schistosity at 116.0 is 65° to core axis. |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-1

Sheet No. 6

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 122.0 | 151.5 | MAFIC TUFF - ANDESITE |
| | | - fine to medium grained - chloritic, sericitic, ankerite |
| | | - well foliated |
| | | - occasional chert bands to 5cm |
| | | - occasional conformable quartz - ankerite sections to 20cm. |
| | | - to 129.0 metres medium to coarse grained, in homogenous 129 - 133 fine grained chloritic tuff |
| | | 129 - more sericitic with quartz - ankerite and chloritic sections |
| | | at 133.7 quartz - carbonate vein with 5% py |
| | | occasional lapilli tuff sections with quartz / ankerite fragments to 2cm |
| | | Schistosity at 133 metres is 55° to core axis. |
| | | 141.5 - 143.0 very fine grained, sericitic - greywacke |
| | | 149.8 - 151.5 quartz / ankerite vein at 60° to core axis. |
| 151.5 | 157.5 | VOLCANOCLASTIC SEDIMENT |
| | | - very fine grained, fairly massive, chloritic |
| | | - occasional sections to 1% disseminated |
| | | - occasional sections of quartz, chloritic band with slumping features and brecciation |
| | | Schistosity at 152.0 metres is 65° to core axis. |
| 157.5 | 170.0 | MAFIC TUFF - ANDESITE |
| | | - medium grained, chloritic, well developed schistosity at 45° to core axis. |
| | | - many sections of lapilli and fragmental tuffs with fragments of ankerite, silica and chlorite |
| | | - carbonatized |
| | | - increasing carbonate / ankerite down hole. |
| | | - many quartz / ankerite / carbonate sections parallel to schistosity |
| 170.0 | 172.4 | QUARTZ - CARBONATE - SULPHIDE - BRECCIA |
| | | - fine grained py as laminations and fragments to 5cm |
| | | - Quartz and carbonate / ankerite matrix and fragments |
| | | - conformable contacts at top and bottom |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-1
Sheet No. 8

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 172.4 | 210.3 | MAFIC TUFF - ANDESITE |
| | | - as before - very fine grained |
| | | - slightly carbonatized |
| | | - many small quartz / carbonate stringers to 1cm parallel to schistosity at 60° to core axis. |
| | | - very tuffaceous and well bedded |
| | | - occasional argillaceous laminations in py |
| | | Schistosity at 181.0 is 65° to core axis. |
| | | 189 - 192 - section of tuff with cherty bands |
| | | 191.0 - 191.2 - stringers of py |
| | | after 196 medium grained and decrease in quartz / carbonate veining, increase in schistosity and a more bedded tuff, in places of lapilli tuff. |
| | | - in places more of a cherty tuff with argillaceous laminations |
| | | - decreasing carbonatization |
| | | Schistosity at 209 is 70° to core axis. |
| 210.3 | 222.2 | ULTRAMAFIC TUFF |
| | | - fine grained, chloritic and talcose |
| | | - occasional fibrous sections |
| | | - occasional quartz / carbonate vein to 3cm |
| | | - no carbonates in rock only veins |
| | | 219.6 - 219.93 very fine grained section, massive and no fibre. |
| | | 2-5% disseminated py + stringers of py |
| 222.2 | 234.2 | S HEARED MAFIC TUFF - ANDESITE |
| | | - Andesite tuff as before except pronounced shearing with irregular quartz - carbonate developed along shear planes and in boudinage structures |
| | | 225.4 - 226.9 fault zone - sheared weathered and broken core - ankerite and calcite crystals along fault plane - at small angle to core axis |
| | | 10° - 30°. |
| | | 226.9 - 231.8 slightly weathered sections in brecciation and ankerite |



252 m

L1500E
BL. 0+00

L1400E

BL. 0+00

HWY 101

● 839-42-1
- 45°
CAND N

(2) L-579665 #3 Post L-579662
(1) L-579666 #4 L-579661

DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

D.D.H. #839-42-1

Scale: 1:1000

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

Hole No. 839-42-2

| | | | | |
|--------------------------|---------|---|-------------------------------|--------------------|
| Hole No. 839-42-2 | Sheet 1 | Length 255.0 metres | Commenced July 12, 1981 | Dip: Collar -45° |
| Property 839-42 | | Bearing South Grid | Completed July 15, 1981 | Etch Test |
| Township Holloway | | Dip -45° | Drilling Co. St. Lamberts | Depth |
| Location 1200E | | Objective HEI conductor + volcanic / sediment contact | Core Size BQ | Rdg. |
| 685S | | | Casing Left/Lost in Hole None | True |
| Logged By K. Guy | | | | 100m 100m 52.0 43° |
| Core Location Perry Lake | | | | 200m 43.5 35° |
| | | | | 250m 40.0 32° |

Location Sketch

L 1100E
L 1200E L 1300E L 1400E

839-42-2
① 685 m S

North

Claim No. L579667

Scale: 1:12500

Remarks

| Footage / Metres | | DESCRIPTION |
|------------------|--------|-----------------------------------|
| From | To | |
| 0 | 33.7 | CASING - OVERBURDEN |
| 33.7 | 166.6 | GREYWACKE |
| 166.6 | 167.5 | GRAPHITIC ARGILLITE |
| 167.5 | 176.5 | GREYWACKE AND ARGILLITE |
| 176.5 | 176.9 | GRAPHITIC ARGILLITE |
| 176.9 | 191.5 | CARBONATE ROCK |
| 191.5 | 195.47 | GRAPHITIC ARGILLITE |
| 195.47 | 203.96 | CARBONATE ROCK - GREYWACKE |
| 203.96 | 210.1 | GRAPHITIC ARGILLITE AND GREYWACKE |
| 210.1 | 225.0 | CHLORITIC GREYWACKE |
| 225.0 | 255.0 | MAFIC TUFF - ANDESITE |
| | 255.0 | END OF HOLE |

Rg Reunri

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

Hole No. 839-42-2
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| 0 | 33.7 | CASING - OVERBURDEN |
| 33.7 | 166.6 | GREYWACKE |
| | | - fine grained, massive |
| | | - light grey colour |
| | | - siliceous |
| | | - carbonatized |
| | | - many quartz / carbonate veins crosscutting at a high angle 50 - 80° |
| | | - occasional argillaceous sections to 2cm thick with pyrite |
| | | Schistosity at 43 metres at 30° to core axis. |
| | | 65.2 - 65.4 graphite + pyrite |
| | | 67.0 - 67.4 graphite seams |
| | | 67.0 - 70.1 possible fault zone - core is broken and sheared |
| | | 71.5 - 72.7 argillaceous section with up to 10% pyrite in places -
argillaceous beds at very low angle ≈ 10 - 20° to core axis. |
| | | Schistosity at 74.0 metres is 25° to core axis. |
| | | 86.0 - 87.1 Carbonate rock with ankeritic sections |
| | | after 86.0 more argillaceous sections and more carbonatizations |
| | | Schistosity at 109.0 metres is 25° to core axis. |
| | | Schistosity at 165.0 metres is 45° to core axis.
increasingly argillaceous |
| 166.6 | 167.5 | GRAPHITIC ARGILLITE |
| | | - with quartz carbonate and 5% pyrite |
| | | - conductive |
| 167.5 | 176.5 | GREYWACKE AND ARGILLITE |
| | | - greywacke is carbonatized |
| | | 170.6 - 171.2 quartz - carbonate veins |

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

Hole No. 839-42-2
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| 176.5 | 176.9 | GRAPHITIC ARGILLITE |
| | | - only slightly conductive - very argillaceous
- no sulphides |
| 176.9 | 191.5 | CARBONATE ROCK |
| | | - very fine grained carbonate
- siliceous or cherty in places
- occasional argillaceous sections
- in places medium grained
- most original fabric destroyed during carbonatization
- likely originated as a sediment - greywacke |
| | | 182.4 - 182.6 graphitic argillite with 5% pyrite |
| | | 185.3 - 185.6 graphitic argillite |
| | | 191.0 - 191.5 5 - 10% disseminated pyrite |
| 191.5 | 195.47 | GRAPHITIC ARGILLITE |
| | | - very fine grained
- very conductive
- up to 10% colloidal pyrite
- laminations of massive pyrite to 1cm thick
- very well bedded graphitic argillite, pyrite, chert at 194.0 - 195.47
- bed of carbonate rock from 193.3 - 194.0
- bedding at 40° to core axis. |
| 195.47 | 203.96 | CARBONATE ROCK - GREYWACKE |
| | | - as before
- very abrupt contacts at both ends at 45° to core axis. |
| 203.96 | 210.1 | GRAPHITIC ARGILLITE AND GREYWACKE |
| | | - only slightly conductive
- 2 - 10% pyrite with graphitic argillite
- argillite and greywacke in bands
- greywacke is carbonatized
- much quartz - carbonate as laminations and as veins |

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

Hole No. 839-42-2
 Sheet No. 6

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| | | Schistosity at 210.0 is 50° to core axis. |
| 210.1 | 225.0 | CHLORITIC GREYWACKE |
| | | - 210.0 - 216.0 contains occasional argillaceous laminations |
| | | - greywacke in fine grained, as chloritic, siliceous |
| | | - grain size and chloritic increasing down hole |
| | | - many quartz - carbonate veins |
| | | - rock is carbonatized |
| | | Schistosity at 223.0 metres is 40° to core axis. |
| | | gradational to mafic tuff |
| 225.0 | 255.0 | MAFIC TUFF - ANDESITE |
| | | - medium grained, chloritic |
| | | - foliated, carbonatized, quartz - carbonate veins |
| | | 230 - 235 massive, diabasic section - carbonatized |
| | | 235 - 245 very fine grained, chloritic |
| | | 237 - 238.2 euhedral, disseminated pyrite - to 5% |
| | | 245 - 255 tuffaceous |
| | | 252.7 - 255 ankeritic |
| | | Schistosity at 254.0 metres is 50° to core axis. |
| | 255.0 | END OF HOLE |

L-1100 E

L-1150 E

L-1200 E

L-1250 E

839-42-2
-45°
Grid S

7005



255m

DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

D.D.H. #839-42-2

Scale: 1:1000

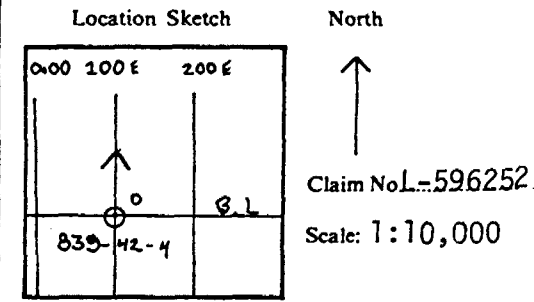
125m W to claim post #3
L-579667

246m S

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

Hole No. 839-42-4

| | | | | |
|--------------------------------|---------|-------------------------------------|------------------------------|-------------------|
| Hole No. 839-42-4 | Sheet 1 | Length 186.0m | Commenced August 5, 1981 | Dip: Collar -45°N |
| Property Ghostmount Holloway-2 | | Bearing North | Completed August 8, 1981 | Etch Test 1 |
| Township Holloway | | Dip -45° | Drilling Co. St. Lambert | Depth 100m |
| Location L100E, OBL | | Objective To drill the stratigraphy | Core Size BQ | Rdg. 53° |
| | | | Casing Left/Lost in Hole Nil | True 45° |
| Logged By K. Guy + E. Ludwig | | | | |
| Core Location Perry Lake Lodge | | | | |



Remarks

| Footage/ Metres | | DESCRIPTION |
|-----------------|--------|---|
| From | To | |
| 0 | 17.4 | CASING |
| 17.4 | 23.1 | MAFIC FLOW - ANDESITE - BASALT |
| 23.1 | 32.2 | MAFIC TUFF - ANDESITE - BASALT |
| 32.2 | 49.0 | CARBONATE |
| 49.0 | 59.9 | MAFIC FLOW - BASALT |
| 59.9 | 72.8 | MAFIC FLOW - BASALT |
| 72.8 | 78.0 | MAFIC TUFF |
| 78.0 | 87.8 | MAFIC FLOW - BASALT |
| 87.8 | 95.7 | MAFIC FLOW |
| 95.7 | 105.5 | CARBONATIZED MAFIC FLOW - BASALT |
| 105.5 | 107.0 | SERICITIC MAFIC FLOW - NOT CARBONATIZED |
| 107.0 | 108.25 | INTERMEDIATE TUFF |
| 108.25 | 111.0 | MAFIC TO INTERMEDIATE TUFF - ALTERED |

R. J. Pearson

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

Hole No. 839-42-4
Sheet No. 3

| Footage - Metres | | DESCRIPTION |
|------------------|------|---|
| From | To | |
| 0 | 17.4 | CASING |
| 17.4 | 23.1 | MAFIC FLOW - ANDESITE - BASALT |
| | | - very fine grained, massive |
| | | - chloritic |
| | | - highly carbonatized |
| | | - many quartz/ankerite veins |
| 23.1 | 32.2 | MAFIC TUFF - ANDESITE - BASALT |
| | | - fine grained |
| | | - chloritic |
| | | - well laminated |
| | | - siliceous sections |
| | | - many quartz/carbonate veins parallel to schistosity |
| | | - sections of laminated medium grained py |
| | | - argillaceous laminations |
| | | - rock is not carbonatized |
| | | Schistosity at 25m is 55° to core axis. |
| 32.2 | 49.0 | CARBONATE TUFF - ANDESITE |
| | | - medium grained, laminated |
| | | - pale green, carbonatized |
| | | - sericite, chlorite |
| | | - increased feldspar from above |
| | | - decreased quartz/carbonate veining |
| | | - increasing fragmental |
| | | - occasional argillaceous sections |
| | | - trace py throughout |
| | | Schistosity at 45m is 50° to core axis. |
| 49.0 | 59.9 | MAFIC FLOW - BASALT |
| | | - from 49.0 to 50.0 flow top breccia |
| | | - black, massive, fine grained |
| | | - py as blebs and veinlets throughout |

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

Hole No. 839-42-4

Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|------|---|
| From | To | |
| | | - sericitic
- not carbonatized |
| | | - fault zone 54.0 - 59.5
badly fractured core at both ends with a shattered rock between
which has been infilled with silica, trace disseminated py |
| 59.9 | 72.8 | MAFIC FLOW - BASALT -

highly carbonatized

- very fine grained, massive, black colour
- quartz - carbonate stringers throughout unit
- sericitic - splashy pyrite mineralization within the unit
- gradational contact into next unit |
| 72.8 | 78.0 | MAFIC TUFF

interbanded argillite
- medium → fine grained, dark green → black - carbonatized
- increasingly fragmented
- quartz - carbonate stringers cutting entire unit
- occasional quartz rich sections - talcose in places
- 5-10% between some laminations
- lapilli tuffaceous sections - 4 → 6cm wide within unit
- schistosity at 75-65 is 50° to core axis.
- sericitic |
| 78.0 | 87.8 | MAFIC FLOW - BASALT

medium - fine grained, dark green, sericitic - carbonated
- quartz - carbonate stringers throughout unit
- 7-10% py located in quartz stringers in places throughout unit -
Gradational contact |
| 87.8 | 95.7 | MAFIC FLOW - NOT CARBONATIZED - BASALT

- quartz - carbonate stringers cutting unit
- minor disseminated py cubes throughout unit
- sericitic |

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

Hole No. 839-42-4
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| | | - Dark green medium - fine grained - massive
- Unit becomes more intermediate - with depth gradational contact |
| 95.7 | 105.5 | CARBONATIZED MAFIC FLOW BASALT |
| | | - Quartz - carbonate stringers
- sericitic
- Dark green - medium grained
- 99.8 - 100.1 - quartz vein - mafic fragmental contamination |
| 105.5 | 107.0 | SERICITIC MAFIC FLOW - NOT CARBONATIZED |
| | | - quartz - carbonate stringers throughout unit
- medium to coarse grained
- dark green |
| 107.0 | 108.25 | INTERMEDIATE TUFF - NOT CARBONATIZED |
| | | - silica rich - up to 15% py at start of unit
- schistosity at 50° to core axis at 108.0 metres
- quartz cutting unit at many different angles |
| 108.25 | 111.00 | MAFIC TO INTERMEDIATE TUFF - ALTERED |
| | | - Mafic tuff brecciated from 108.25 - 108.85
- Chloritic mafic fragments with a silica matrix - 5-10% py
- Shattered core from 108.85 - 109.4
- minor laminated argillite - no carbonate
- unit becomes more intermediate and talcose with depth
- minor faults at 110.5 and 110.0
- coarse grained |
| 111.00 | 114.00 | HIGHLY ALTERED MAFIC TUFF FAULT ZONE |
| | | - very chloritic, talcose
- not carbonatized - sericitic
- many quartz veinlets cutting beds |

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

Hole No. 839-42-4
Sheet No. 6

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| 114.00 | 129.00 | ALTERED ULTRAMAFICS - SERPENTENITE

- fibrous stringers throughout section
- not carbonatized, dark green to black - coarse grained
- soft chloritic - quartz cutting unit in places
- gradational contact - grades into intermediate tuff
- minor disseminated pyrite with quartz stringers |
| 129.00 | 132.00 | HIGHLY ALTERED MAFIC TO INTERMEDIATE TUFF

- weakly carbonatized
- interbedded argillite
- laminated pyrite
- dark to light green - medium grained |
| 132.00 | 139.40 | ANDESITE - SILICA RICH

- massive, medium - fine grained
- laminated pyrite seams
- extensive quartz veining throughout unit
- weakly carbonated
- some fragmented section, 135.7 - 136.1
- black, hard amphibole - silica matrix
- 1% pyrite with matrix |
| 139.40 | 141.90 | ANDESITE BRECCIA

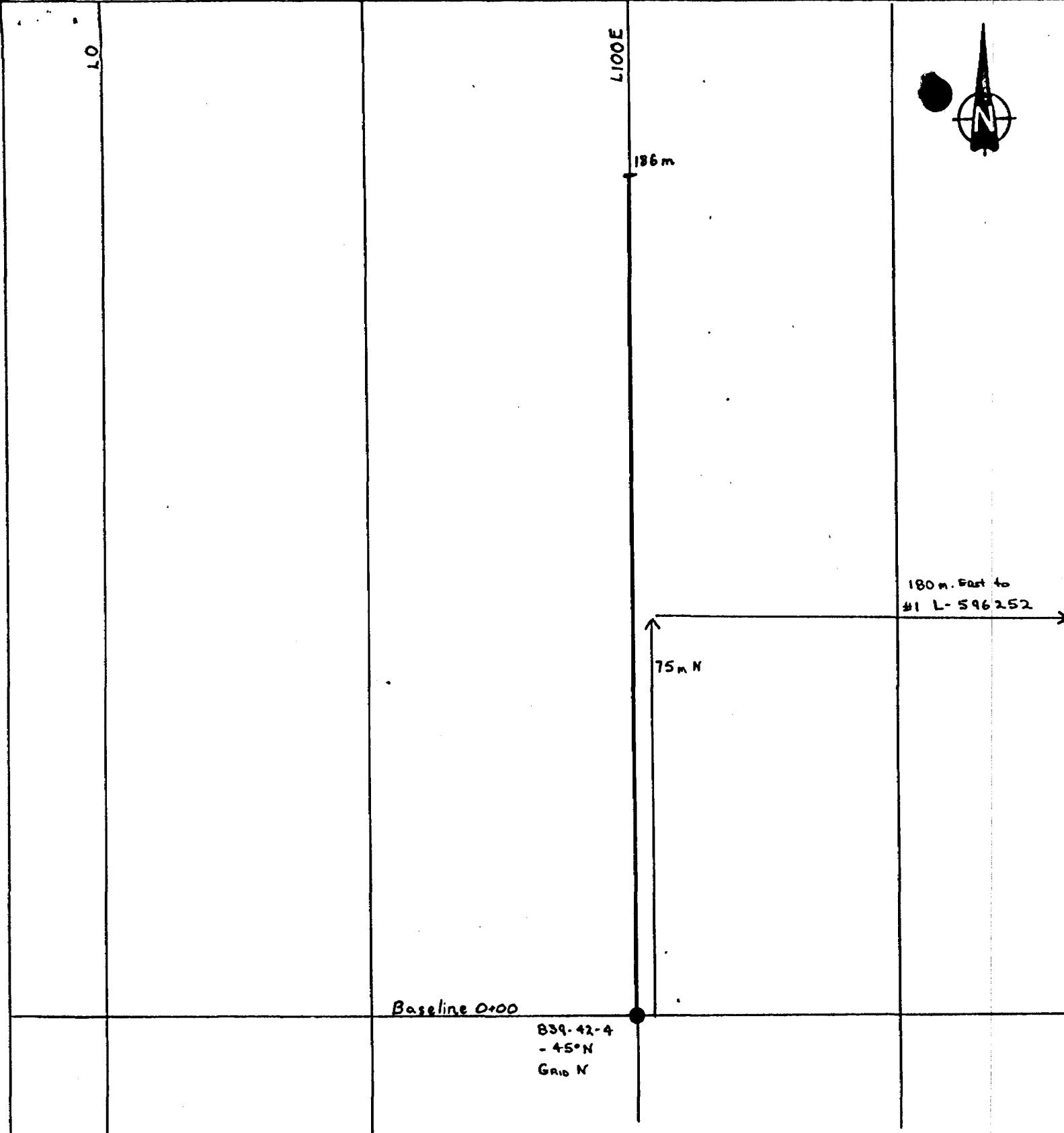
- silica matrix - carbonated
- graphitic argillite from 139.4 to 139.7
- up to 50% pyrite in places within the graphite
- graphite extremely conductive
- minor 2cm wide beds of graphitic argillites (pyrite laden) throughout unit |
| 141.90 | 145.50 | ANDESITE TUFF - CARBONATED

- serictic
- quartz - carbonate stringers
- foliation at 31° to core axis.
- light - medium green - fine grained |

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

Hole No. 839-42-4
Sheet No. 7

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| 145.50 | 147.50 | MAFIC CHLORITIC TUFF |
| | | - 145.50 - 146.00 - 10cm of extreme quartz - carbonate veining |
| | | - dark green - medium + coarse grained |
| | | - highly carbonatized |
| | | - serictic |
| | | - quartz - carbonate veining throughout |
| | | - Schistosity 30° to core axis at 146.6 metres. |
| 147.50 | 168.80 | MAFIC FLOW - BASALT |
| | | - carbonatized |
| | | - serictic |
| | | - Unit grades into a more intermediate type of flow rock |
| | | - frequent quartz - carbonate stringers |
| | | - medium to coarse grained - dark green |
| | | - pyrite seams around quartz - carbonate stringers - up to 15% |
| | | - within unit - white flecks appear - vesicules? |
| | | - crystal tufts grade in and out constantly throughout unit - slight magnetic in places. |
| | | - shattered core 163.4 to 163.7 |
| 168.80 | 173.40 | MAFIC TUFF |
| | | - coarse grained, dark green to black |
| | | - highly carbonated |
| | | - Schistosity 52° to core axis at 171.1 metres. |
| | | - argillaceous laminations from 168.8 to 171.0 |
| | | - pyrite seams around edges of some quartz - carbonate veinlets |
| | | - quartz - carbonate veinlets throughout unit |
| 173.40 | 180.00 | INTERMEDIATE FLOW - ANDESITE |
| | | - tuffaceous section from 177.8 to 179.1 |
| | | - fine to medium grained, light to medium green |
| | | - pyritic seams - quartz - carbonate veining |
| | | - carbonated |
| | | Flow - Andesite |
| | | - medium green - fine grained - pyrite blebs + seams throughout unit |
| | | - carbonated - quartz-carbonate veinlets |



Baseline 0+00

839-42-4
- 45°N
GRID N

L100E

186 m

75 m N

180 m. East to
#1 L-596252



DRILL HOLE LOCATION SKETCH

Project 839

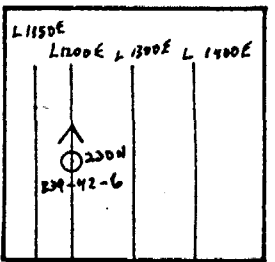
Holloway Township

D.D.H. #839-42-4

Scale: 1:1000

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

Hole No. 839-42-6

| | | | | |
|---------------------------|---------------------|--------------------------------------|--|--|
| Hole No. 839-42-6 Sheet 1 | Length 130.5 metres | Commenced August 11, 1981 | Dip: Collar -45° | Location Sketch
 |
| Property 839-42 | Bearing Grid North | Completed August 12, 1981 | Etch Test Depth Rdg. True | |
| Township Holloway | Dip -45° | Drilling Co. St. Lambert | 1 128.0m 48° 40° | |
| Location L12E, 230N | Objective | Core Size BQ | | |
| Logged By K. Guy | | Casing Left/Lost in Hole 15.25 metre | | Claim No. L-579664 |
| Core Location Perry Lake | | Left in hole for geophysics | | Scale: 1: 10,000 |
| Remarks | | | | |

| Footage/ Metres | | DESCRIPTION |
|-----------------|-------|---------------------------------|
| From | To | |
| 0 | 15.25 | CASING |
| 15.25 | 20.50 | INTERMEDIATE TUFF |
| 20.50 | 24.50 | ACID TUFF |
| 24.50 | 33.60 | SEDIMENTARY ACID TUFF |
| 33.60 | 39.50 | ACID FRAGMENTED TUFF |
| 39.50 | 45.00 | ACID TUFF |
| 45.00 | 45.63 | GRAPHITIC ARGILLITE WITH PYRITE |
| 45.63 | 46.00 | ACID FRAGMENTAL TUFF |
| 46.00 | 53.50 | ACID TUFF |
| 53.50 | 57.50 | CHERTY TUFF |
| 57.50 | 65.50 | ACID TUFF |
| 65.50 | 70.50 | ACID TUFF BRECCIA |
| 70.50 | 72.00 | TUFF BRECCIA |

R. J. Passani

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

Hole No. 839-42-6

Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| 0 | 15.25 | CASING |
| 15.25 | 20.5 | INTERMEDIATE TUFF |
| | | - chloritic, sericitic, siliceous |
| | | - medium grained |
| | | - occasional fragmental sections |
| | | - in places well bedded |
| | | - 19.5 - 20.5 potassic |
| 20.5 | 24.5 | ACID TUFF |
| | | - very fine grained to medium grained |
| | | - well bedded |
| | | - occasional lapilli sections |
| | | - occasional argillaceous bed |
| | | - occasional laminations of py, with trace py throughout |
| 24.5 | 33.6 | SEDIMENTARY ACID TUFF |
| | | - more distal facies of above |
| | | - increased argillaceous beds |
| | | - very fine grained |
| | | - occasional splashes of py associates with more argillaceous sections |
| | | - sections of felsic fragments in argillaceous matrix |
| | | Schistosity at 25m is 60° to core axis. |
| | | 32.9 - 33.6 tourmaline rich sections |
| 33.6 | 39.5 | ACID FRAGMENTAL TUFF |
| | | - fine grained siliceous and sericitic matrix argillaceous with rhyolite fragments to 3cm. |
| | | - occasional argillaceous beds |
| | | - slight carbonate |

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

Hole No. 839-42-6
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 39.5 | 45.0 | ACID TUFF |
| | | - as before |
| | | - increasing argillaceous down hole seam of py |
| | | Shistosity as 43m is 75° to core axis. |
| 45.0 | 45.63 | GRAPHITIC ARGILLITE WITH PYRITE |
| | | - slightly conductive |
| | | - py is fine to coarse grained, laminated and in fragments
15%py |
| 45.63 | 46.0 | ACID FRAGMENTAL TUFF |
| | | - acid fragments with py matrix |
| | | - conductive over length of core |
| | | - py is fine to coarse grained
<50%py |
| 46.0 | 53.5 | ACID TUFF |
| | | - as before |
| | | - medium grained |
| | | - slightly carbonatized |
| | | from 51.4 pyritiferous in disseminated py, veinlets of py and splashes
of py |
| | | - 10%py with local 10cm sections of 25% |
| 53.5 | 57.5 | CHERTY TUFF |
| | | - very fine grained, well laminated and bedded |
| | | - laminated Acid Tuff and chert |
| | | - occasional massive chert sections to 10cm 10%py |
| | | - occasional laminations of coarse grained py |
| | | - occasional brecciation and soft sediment deformation features |
| | | Schistosity at 57m is 65° to core axis. |

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

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

| Footage - Metres | | DESCRIPTION |
|------------------|------|--|
| From | To | |
| 57.5 | 65.4 | ACID TUFF |
| | | - as before 10%py |
| | | - occasional lapilli sections |
| | | - occasional fragmented sections |
| | | - cherty laminations 5-10%py |
| | | - py as disseminations throughout and coarse grained laminations |
| 65.4 | 70.5 | ACID TUFF BRECCIA |
| | | - Felsic fragments to 5cm in a Felsic matrix 15%py |
| | | - 50% fragments 25%py |
| | | - matrix chloritized - up to 50%py in matrix over 5cm, coarse and fine grained, conductive over 2cm or through the core in various locations |
| 70.5 | 72.0 | TUFF BRECCIA |
| | | - Felsic fragments, intermediate matrix |
| | | - very siliceous fragments |
| | | - matrix is Intermediate volcanic to argillaceous often carbonatized 10%py |
| | | - much py in matrix to 10% locally |
| 72.0 | 72.5 | ARGILLITE |
| | | - massive black, very fine grained |
| | | - rounded siliceous fragments |
| 72.5 | 73.5 | TUFF BRECCIA |
| | | - Felsic fragments, Intermediate matrix as before |
| 73.5 | 76.5 | CARBONATE TUFF |
| | | - green carbonate |
| | | - siliceous |
| | | - occasional cherty sections |

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

Hole No. 839-42-6

Sheet No. 7

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 76.5 | 85.6 | CARBONATE BRECCIA |
| | | - Carbonate fragments to 5cm in a siliceous matrix |
| | | - fragments originally Intermediate volcanic |
| | | - occasional argillaceous sections |
| | | Schistosity 89m is 50° to core axis. |
| 85.6 | 88.3 | FAULT GOUGE |
| | | - talcose, chloritic |
| | | - very badly weathered |
| 88.3 | 91.3 | CARBONATE BRECCIA |
| | | - as before |
| | | - tuffaceous sections |
| | | - argillaceous sections |
| | | - faulted contact at 91.0 - 91.3 |
| 91.3 | 94.4 | MAFIC TUFF |
| | | - chloritic sericitic |
| | | - well bedded |
| | | - fine to medium grained |
| | | - many quartz/carbonate veins parallel to schistosity |
| | | - occasional lapilli tuff sections |
| | | - gradational contact |
| | | - tr py in seams |
| | | Schistosity at 94m is 70° to core axis. |
| 94.4 | 130.5 | CARBONATE TUFF |
| | | - Mafic to Intermediate |
| | | - carbonatized, siliceous |
| | | - well bedded |
| | | - many siliceous beds |
| | | - occasional lapilli sections |
| | | - trace py in argillaceous beds |

L 1100E

L1150E

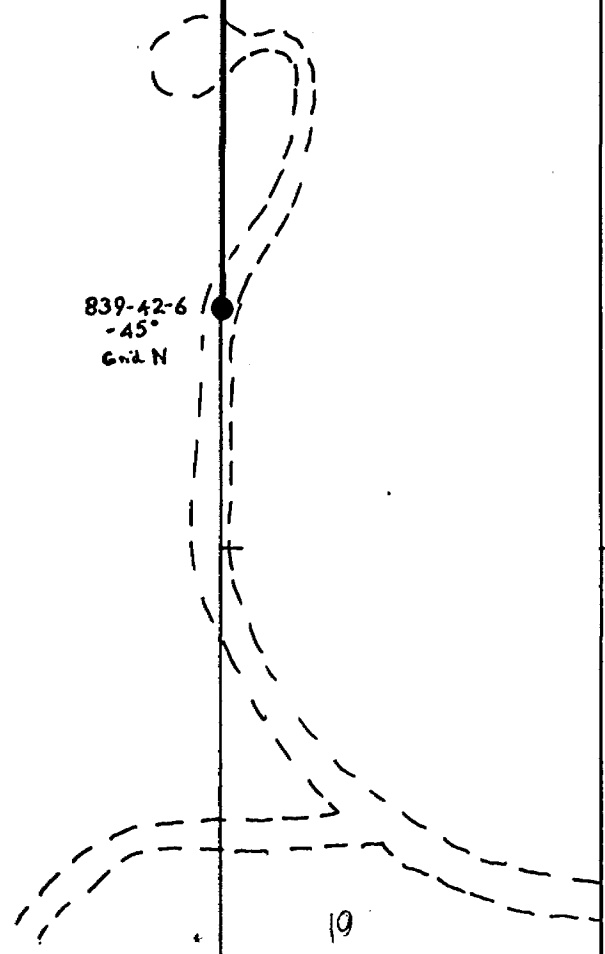
L1200E

L 1250E

130.6 m.



839-42-6
-45°
Grid N



(3) L-579664

(4) L-579665

DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

D.D.H. #839-42-6

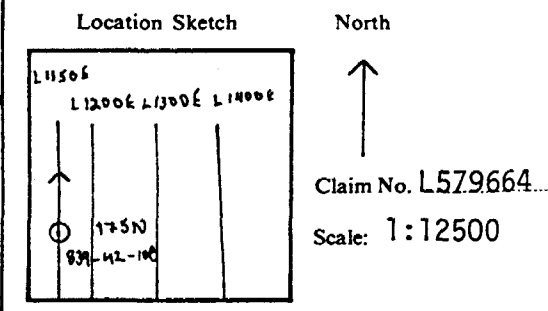
Scale: 1:1000

1

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

Hole No. 839-42-10B

| | | | |
|--|---------------------|------------------------------|--------------------------------|
| Hole No. 839-42-10B Sheet 1 | Length 140.0 metres | Commenced September 11, 1981 | Dip: Collar -50° |
| Property Holloway-2 | Bearing Grid North | Completed September 16, 1981 | Etch Test |
| Township Holloway | Dip -50° | Drilling Co. St. Lambert | Depth 137.0m Rdg. 45° True 40° |
| Location Line 1150E
175N | Objective | Core Size BQ | Casing Left/ Lost in Hole None |
| Logged By B. Benoit | | | |
| Core Location Perry Lake | | | |
| Remarks Hole had to be relocated 25 metres South because of casing deflection. Hole was drilled at 175 North instead of 200 North. | | | |



| Footage/ Metres | | DESCRIPTION |
|-----------------|--------|----------------------|
| From | To | |
| 0 | 35.25 | OVERBURDEN |
| 35.25 | 96.67 | ACID TUFF |
| 96.67 | 101.64 | TUFF BRECCIA |
| 101.64 | 102.25 | MAFIC TUFF BAND |
| 102.25 | 108.00 | ACID TUFF |
| 108.00 | 124.92 | TALC CHLORITE SCHIST |
| 124.92 | 140.00 | MAFIC BRECCIA |
| | 140.00 | END OF HOLE |

Robert Benoit

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

Hole No. 839-42-10B
Sheet No. 3

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 0 | 35.25 | OVERBURDEN |
| | | sand, clay, gravel |
| 35.25 | 96.67 | ACID TUFF |
| | | light grey, green, hard to medium hard, fine grained, siliceous, chloritic, highly sericitized in some areas, some sections weathered and has a rusty brown colour, core contains many quartz veins, these range from 1mm to 2cm wide, they cut the core at all angles and are irregular. The core contains small Jasper specks. The core also contains some areas that contain pink feldspar giving the core a pinkish purple colour. The core is also slightly carbonatized, the core is also very sericitized in areas, in these areas the core is softer. Some of the well sericitized core is very crenulated. Some of the core is a tuff breccia yielding stretched quartz fragments. Pyrite is present, 1% to 2% locally. The pyrite is finely disseminated and found generally near quartz veins or fragments. Foliation of the fragments is at 85° to the core axis. |
| | | 36.46 - 36.93 Weathered core, rusty brown colour, soft, carbonitized, less than 1% pyrite. |
| | | 43.63 - 43.84 Weathered core, same as 38.46 - 39.93. |
| | | 44.45 - 44.81 Weathered core, rusty brown, soft, carbonitized, more sericitic. |
| | | 48.43 - 48.63 Weathered core, same as 40.63 - 40.84 |
| | | 41.71 - 46.47 Quartz sericite tuff, grey to green, soft fine grained, slightly carbonatized, chloritic and very sericitic. Core is softer due to the sericite alteration. Quartz veins are present these range from 2cm to 1mm wide, they are irregular also folded and crenulated. They cut the core at all angles. Pyrite is present 1% to 2%, it is finely disseminated and found generally near quartz veins or fragments. |

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

Hole No. 839-42-10B

Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 46.47 | 47.07 | Acid tuff, purplish to pink grey, fine grained, hard, core, slightly carbonatized and sericitized, colour due to feldspars. Contains some quartz veins, these range from 5mm to 1mm wide, some of the veins are vuggy. The veins are irregular and cut the core at all angles. Pyrite is present 1%, the pyrite is finely disseminated. It is found in small splashes or spots in the core. Foliation is at 80° to core axis. |
| 47.07 | 48.18 | Quartz sericite tuff, yellow green, fine grained, medium hard, slightly carbonatized and chloritic, very sericitic. Contains some quartz veins, these range from 1cm to 2cm wide, they cut the core at all angles. This core is not as crenulated and folded as 38.71 - 43.47. Pyrite is present, 1%, small cubes and finely disseminated with the sericite. |
| 48.18 | 49.33 | Acid tuff, same as 43.47 - 44.07, less pyrite, less than 1%. |
| 49.33 | 51.90 | Quartz sericite tuff, same as 47.07 - 48.18, less than 1% pyrite. |
| 51.90 | 53.07 | Acid tuff, same as 48.18 - 49.33 |
| 53.07 | 58.50 | Acid tuff, hard siliceous, grey to green, fine grained, slightly carbonatized, chloritic, and sericitic. Quartz veins are present, these range from 2cm to 1mm wide, they are irregular and cut the core at all angles. Some of the core is crenulated and folded. Foliation is at 86° to the core axis. Pyrite is present less than 1%. Pyrite is finely disseminated and is found with the sericite near quartz veins. |
| 58.50 | 96.67 | Acid tuff, hard, softer where sericitization is present, light grey to green, very fine grained. The core is chloritic, sericitic, slightly carbonatized. Core contains some weathered rock. Some of the core is a quartz breccia. The core also contains some quartz veins these are crenulated and irregular. The veins range from 2cm to 1mm wide. |

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

Hole No. 839-42-10B
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|----|---|
| From | To | |
| | | Core also contains crenulated and folded sections. These sections are well sericitized. Pyrite is present 1% to 5% locally. The pyrite is finely disseminated and found near quartz vein seams and in the sericitic matrix. Foliation is at 85° to the core axis. |
| 63.60 - 63.87 | | Quartz breccia, very siliceous, hard chlorite + sericite matrix. Some pyrite 1% to 5%, finely disseminated in the matrix. |
| 63.67 - 64.16 | | Weathered core, rusty brown colour, softer than the rest of the core. Core is more carbonatized. Some pyrite less than 1%. |
| 64.23 - 65.39 | | Quartz sericite breccia, hard, siliceous, contains some fuchsite, chloritic sericite matrix, contains pyrite 1% to 5% locally. The pyrite is found in the matrix, and close to the quartz seams. Some of the core is very crenulated and folded. 63.23 - 63.42 |
| 66.20 - 69.00 | | Acid tuff, medium hard, very sericitic, very fine grained. Core is very crenulated and folded. Pyrite is present 1% to 2%, pyrite is very finely disseminated and is found in small bands in the core. |
| 69.00 - 72.24 | | Acid tuff, grey to green, hard, very fine grained, not as sericitic, contains some quartz veins, 1cm to 1mm wide, they are crenulated and irregular. Some of the core is sericitic, these areas are folded and crenulated. Pyrite is present, 1% to 3%, finely disseminated and found near quartz seams and is also found in the sericite. Foliation at 86° to the core axis. |
| 72.24 - 75.00 | | Acid tuff, hard, light grey to green, slightly carbonatized sericitized, and is also chloritic. The core is also very crenulated and folded. Some pyrite is present 1%, finely disseminated and found in the sericitic matrix. |
| 75.00 - 96.67 | | Acid tuff, same as 35.25 - 96.67. |

AMAX MINERALS EXPLORATION
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DIAMOND DRILL RECORD

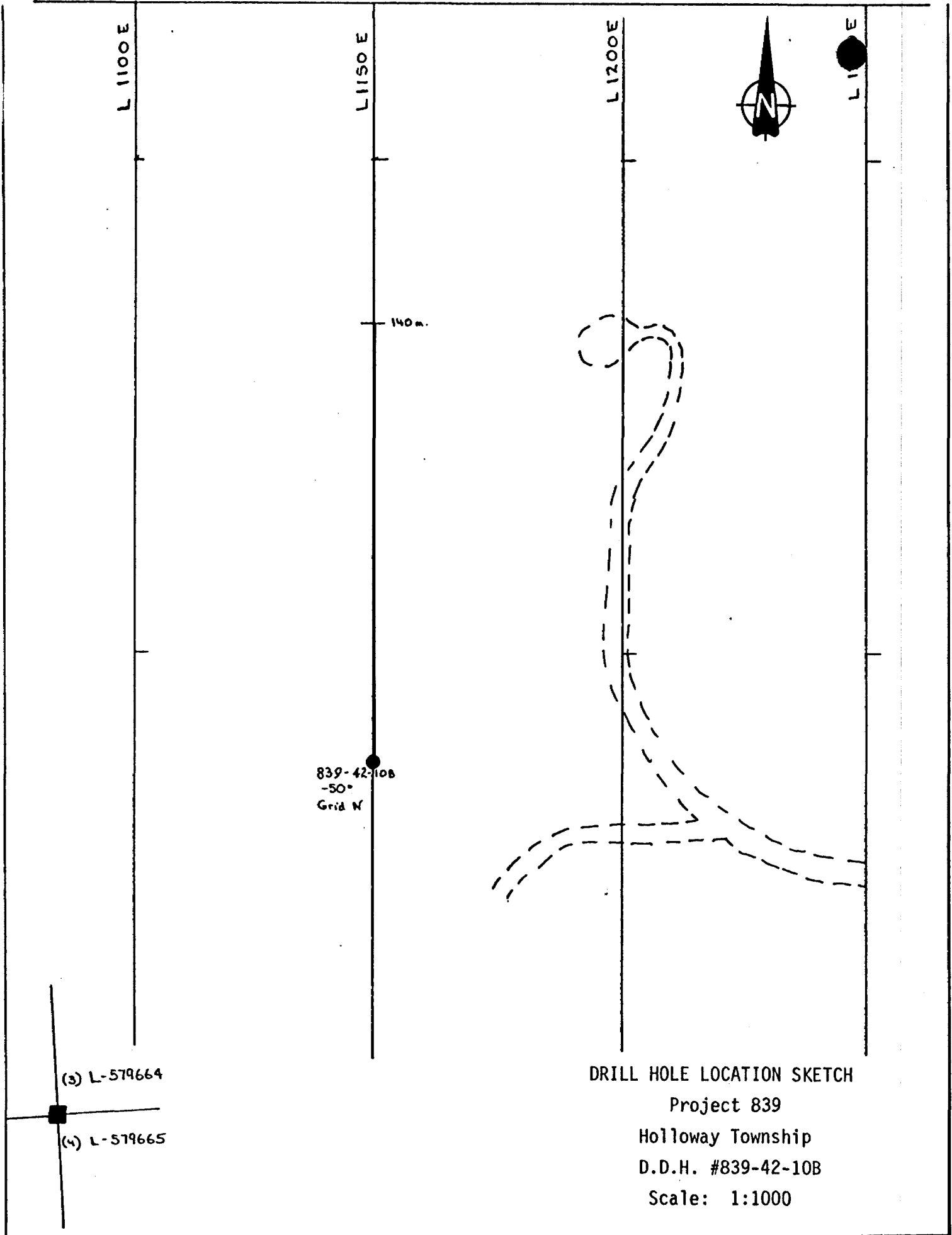
Hole No. 839-24-10B
Sheet No. 6

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| | | 77.86 - 78.07 Acid tuff, same as 72.24 - 75.00. |
| | | 78.35 - 78.51 Quartz breccia, same as 63.60 - 63.87 |
| | | 80.63 - 81.10 Quartz breccia, same as 78.35 - 78.51 but more pyrite 1% to 2%, pyrite is found near quartz vein or fragment seams. The pyrite is finely disseminated and found in the matrix. The matrix is a chlorite + sericite mix. Some of the pyrite is found in small cubes throughout the core. |
| | | 82.02 - 82.27 Quartz breccia, same as 63.60 - 63.87. |
| | | 83.04 - 83.10 Quartz breccia, same as 82.02 - 82.27 |
| | | 83.52 - 83.92 Quartz breccia, very sericitic, the core is soft where sericite occurs. The core has some pyrite 1% to 2%. The pyrite is found near the quartz seams, it is finely disseminated and in the matrix. |
| | | 84.41 - 84.50 Quartz breccia, same as 80.04 - 80.10. |
| | | 89.84 - 90.00 Quartz breccia, more sericitic, slightly chloritic, less than 1% pyrite. |
| | | 90.11 - 90.78 Quartz breccia, same as 89.84 - 90.00. |
| | | 92.78 - 93.00 Quartz breccia same as 90.11 - 90.78. |
| 96.67 | 101.64 | TUFF BRECCIA |
| | | Light to dark grey, hard, very siliceous, slightly sericitic and chloritic, contains small quartz veins, these range from 3mm to 1mm wide. The quartz veins are irregular and cut the core at all angles. The core also contains some brecciated sections. Pyrite is present from 1% to 10%, the pyrite is found either in small spots or cubes or finely disseminated near quartz seams or between the fragments. Matrix is slightly graphitic. |

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

Hole No. 839-42-10B
Sheet No. 7

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| | | 97.06 - 97.21 Quartz breccia, grey dirty quartz, chlorite + sericite matrix, very hard siliceous rock. Pyrite is present 1% to 3%, finely disseminated in the matrix. |
| | | 101.08 - 101.23 Quartz breccia, same as 97.06 - 97.21, less pyrite, less than 1%. |
| 101.64 | 102.25 | MAFIC TUFF BAND |
| | | Soft, dark green grey, greasy feel, fine grained. Contains some quartz carbonate veins, these range from 5mm to 1mm, these are irregular and cut the core at all angles. The core is also very chloritic. The core is broken up suggesting a small fault. Pyrite is present less than 1%. |
| 102.25 | 108.00 | ACID TUFF |
| | | Medium hard, light grey to olive green, slightly carbon tized, sericitic and chloritic, contains some quartz veins, these range from 1cm to 1mm wide, the veins are irregular and cut the core at all angles. The core is folded and crenulated in some areas. The foliation is at 85° to the core axis. Pyrite is present less than 1%. The pyrite is finely disseminated and found in the sericitic + chloritic matrix. |
| 108.00 | 124.92 | TALC CHLORITE SCHIST |
| | | Dark grey to green, soft, fine grained, greasy feel, talcy. Chloritic, sericitic. Core contains quartz carbonate veins, these range from 3cm to 1mm wide. These veins are irregular and cut the core at all angles. The core is slaty and broken up. Pyrite is present 1%, cubes and finely disseminated. Fault is present in the chlorite schist. |
| | | Fault - 118.43 - 119.00 Fault, core is a talc chlorite mud. Very soft. Compressed mud. Green colour. |
| 124.92 | 140.00 | MAFIC BRECCIA |
| | | Grey to green, hard siliceous, chloritic, carbonatized, slightly sericitic. Quartz veins present, these range from 4cm to 1mm, these are |



L 1100 E

L 1150 E

L 1200 E

L 1250 E



140 m.

839-42-10B
-50'
Grid N

(3) L-579664

(4) L-579665

DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

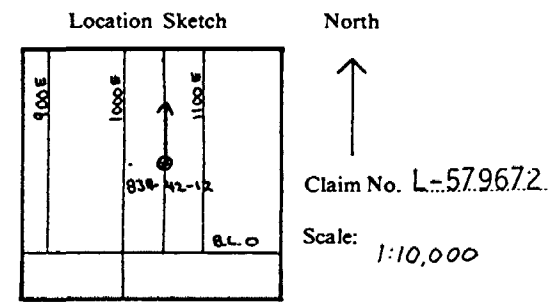
D.D.H. #839-42-10B

Scale: 1:1000

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

Hole No. 839-42-12

| | | | | |
|--------------------------|---------|---------------------|--------------------------------|------------------|
| Hole No. 839-42-12 | Sheet 1 | Length 147.0 metres | Commenced October 20, 1981 | Dip: Collar -50° |
| Property 839-42 | | Bearing Grid North | Completed October 22, 1981 | Etch Test 1 |
| Township Holloway | | Dip -50° | Drilling Co. St. Lambert | Depth 147.0m |
| Location L1050E, 100N | | Objective | Core Size BQ | Rdg. 56° |
| Logged By S. Davies | | | Casing Left/ Lost in Hole None | True 49° |
| Core Location Perry Lake | | | | |



Remarks

| Footage/ Metres | | DESCRIPTION |
|-----------------|--------|----------------------|
| From | To | |
| 0 | 17.25 | OVERBURDEN |
| 17.25 | 54.30 | ALTERED LAPILLI TUFF |
| 54.30 | 63.50 | MAFIC FLOW OR TUFF |
| 63.5 | 130.75 | ALTERED LAPILLI TUFF |
| 130.75 | 147.00 | TALC CHLORITE SCHIST |
| | 147.00 | END OF HOLE |

R. J. Passari

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

Hole No. 839-42-12
Sheet No. 6

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| | | Angle of bedding at 10° to the core axis at 36.5 metres. |
| | | Angle of bedding at 40° to the core axis at 51.0 metres. |
| | | From 35.34 to 35.43 |
| | | 41.50 to 42.06 |
| | | 42.44 to 42.81 |
| | | 51.73 to 52.26 |
| | | } rusty alteration associated with shear zones |
| | | Quartz veins cut the core at all angles and constitute about 30% of the core by volume. Minor disseminated sulphides. |
| | | 52.75 - 54.2 fault zone. Core is highly broken rusty and altered to talc. |
| | | From 54.0 to 55.0 the amount of quartz veining increases to about 80%. |
| 54.3 | 63.5 | MAFIC FLOW OR TUFF |
| | | Dark grey to black in colour, very fine grained and soft. Most of the rock has been chloritized. The amount of quartz is about 25% which occurs as veins that cut the core at random angles. |
| | | Cubic disseminated sulphides are found throughout the core and in the quartz/carbonate veins. Overall the total is about 3-4%. At 63.0 metres, angle to the core axis is 20°. The lower contact is gradational. |
| 63.5 | 130.75 | ALTERED LAPILLI TUFF |
| | | as per 17.25 to 54.3 |
| | | 63.5 to 69.9 as per 22.9 to 54.3, the rock is highly brecciated and siliceous. Silica content =75%. |
| | | At 66.0 metres, angle to the core axis is 20°. Minor disseminated pyrite. There is more sericite in this section than the previous section and it occurs almost interbedded between silica layers. |
| | | 69.9 to 83.28 chert breccia. The tuff is highly brecciated and siliceous. The fragments range in size from 3mm to 3cm. The amount of silica is about 60%. Quartz veins cut the core at random angles and some contain fuchsite. Minor disseminated pyrite ±1%. Lower contact is sharp at 45° to the core axis. |
| | | 83.28 to 84.68 more mafic unit with some sericite. Dark green to black and massive. Tiny sericite laminae at 50° to core axis. |
| | | From 84.0 to 84.68 the unit is brecciated by quartz (smokey) veining. |

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

Hole No. 839-42-12
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 0 | 17.25 | OVERBURDEN |
| 17.25 | 54.30 | ALTERED LAPILLI TUFF |
| | | In this unit, the original tuff has been highly altered by the presence of silica; both as chert and as quartz. |
| | | Some relict fragments can be noted but these have also been altered. The fragments are very siliceous in places, cherty, sericitized and chloritized. The size varies from <2mm to over 4cm. |
| | | In some places the amount of silica exceeds 80% and the core is highly brecciated. |
| | | Many shear zones and faults (with rusty alteration) are found throughout. These could be off-shoots or splays from the major fault system which is associated with the chloritic carbonate schist at the end of the hole. |
| | | The bedding angle changes from $\approx 50^\circ$ to 60° to sections where we were drilling down dip. This could be caused by over turned folding or by hinge faulting. |
| | | The overall sulphide content is $\pm 1\%$ but is more highly concentrated in areas. |
| | | 17.25 to 19.7 the tuff is dark grey in colour, fine grained and siliceous. The fragments are medium grey and up to 4cm in size. The amount of silica is about 25%. There is also fuchsite and sericite in the veins and around the fragments. |
| | | 19.15 to 19.2 a quartz vein cuts the core at 40° to the core axis. Associated with this vein is rusty alteration, ankerite and fuchsite. Angle of bedding is 45° to the core axis. |
| | | Sulphides - cubes (infrequent) and disseminated $\pm 1\%$. |
| | | 19.7 to 22.9 this unit is very siliceous and is characterized by a yellowish colour due to the presence of sericite. The fragments are up to 2cm in size and have a preferred angle of orientation of 40° to the core axis. There is also evidence of minor folding or soft sediment slumping. Amount of silica $\approx 20\%$. |
| | | 22.9 to 54.3 light grey in colour and cherty. The original rock may have been an ash tuff since there are fragments <2mm in size. Downhole the rock is highly brecciated due to an increase in quartz veining. The total silica content is 80-90%. Angle of bedding is 25° to the core axis at 30.0 metres. |

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

Hole No. 839-42-12

Sheet No. 7

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| | | 84.68 to 89.50 Yellowish in colour due to a high percentage of sericite. Sericite is well bedded with quartz at 35-40° to the core axis. Minor sulphides. |
| | | 89.50 to 92.3 Agglomerate. Fragments of various compositions up to 8cm in size. They have a preferred angle of orientation of 40° to the core axis. Silica content ≈10%. Disseminated sulphides ±1% around some of the fragments. |
| | | 92.3 to 97.1 Graphitic argillite
Black and very soft. From 92.3 to 94.7 the graphite is brecciated by smokey quartz veining at random angles. |
| | | From 94.7 to 95.46 massive with <1mm laminae at 20° to the core axis. |
| | | 95.46 to 97.1 brecciated again with a preferred angle of orientation of 15° to the core axis. |
| | | 97.1 to 102.1 the tuff has been altered to sericite with the characteristic yellow colour. It is well bedded with silica at 10° to the core axis. Silica content ≈30%. Minor sulphides. |
| | | 97.97 to 98.56 white quartz vein with ankerite and wall rock fragments. |
| | | 102.1 to 114.3 fault zone. The core is highly broken with rusty alteration around the fragments. Brecciated zone flanking the fault. |
| | | 106.5 to 109.8 brecciated zone with about 40% silica siliceous. |
| | | 112.62 to 114.2 light green chert which is faulted and has white quartz veining at random angles. |
| | | 119.5 to 121.6 breccia and shearing with chloritic alteration along the fractures. Also carbonatization. |
| | | 121.6 to 125.24 sericitic tuff yellowish in colour with fragments up to 7cm in size.
Minor sulphides ±1% as disseminated pin head size and about 15% silica. |
| | | 125.24 to 126.0 shear zone with chloritic alteration. |
| | | 126.0 to 130.75 chert
Light grey in colour, massive and crystalline. On closer examination the chert has been brecciated. Quartz veining at random angles throughout. |
| 130.75 | 147.0 | TALC CHLORITE SCHIST |
| | | Dark green and white in colour, and soft. The original rock has been highly altered to chlorite and carbonate by the presence of a fault. |

L 1000 E

L 1050 E

L 1100 E



147 m

839-42-12
- 50°
Grid N

(2) L-579673

(3) L-579664

(1) L-579672

(4) L-579665

DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

D.D.H. #839-42-12

Scale: 1:1000

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

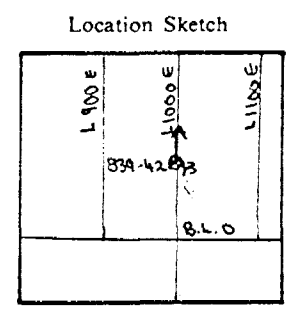
Hole No. 839-42-13

Hole No. 839-42-13 Sheet 1
 Property 839-42
 Township Holloway
 Location L1000E, 80N
 Logged By S. Davies
 Core Location Perry Lake

Length 121.5 metres
 Bearing Grid North
 Dip -50°
 Objective

Commenced October 20, 1981
 Completed October 23, 1981
 Drilling Co. St. Lambert
 Core Size BQ
 Casing Left/ Lost in Hole

Dip: Collar -50°
 Etch Test 1 Depth 121.5m Rdg. 54° True 47°



North
 Claim No. L-579672
 Scale: 10,000

Remarks

| Footage Metres | | DESCRIPTION |
|----------------|-------|-----------------------|
| From | To | |
| 0 | 16.5 | OVERBURDEN |
| 16.5 | 28.26 | TUFF BRECCIA |
| 28.26 | 121.5 | INTERMEDIATE ASH TUFF |
| | 121.5 | END OF HOLE |

R. Dawson

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DIAMOND DRILL RECORD

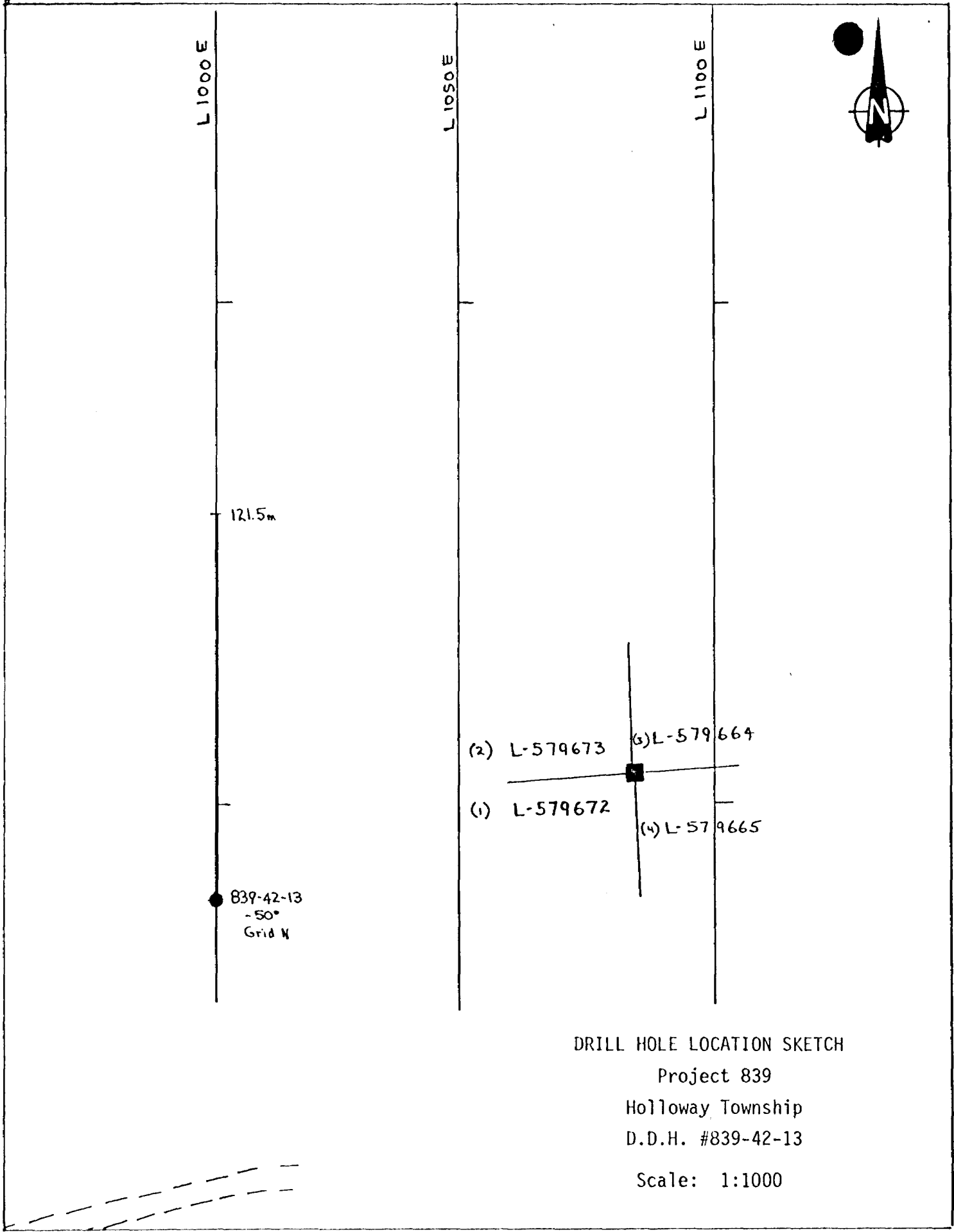
Hole No. 839-42-13
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| 0 | 16.5 | OVERBURDEN |
| 16.5 | 28.26 | TUFF BRECCIA |
| | | Fine grained, siliceous, light to dark grey in colour. Overall silica content is about 30%. The core is highly brecciated in places such as from 16.5 metres to 18.1 metres. The fragments are cherty and up to 2cm in size. |
| | | Numerous rusty sections up to 20.0cm wide accompany fractures in the rock. Quartz veining totals about 8% and many are highly crenulated. $\pm 1\%$ sulphides. Massive - the fragments do not have a preferred angle of orientation. |
| | | Lower contact is gradational. |
| 28.26 | 121.15 | INTERMEDIATE ASH TUFF |
| | | Very fine grained and in most places the fragments are too small to be seen with the naked eye. From 28.26 to 29.7 there are green chloritic blebs with a preferred angle of orientation of 45 to 50° to the core axis. |
| | | The overall colour is a greenish-grey and it is fairly massive. $\pm 1\%$ sulphides but it is concentrated in sulphide beds. Quartz content is about 5%. |
| | | From 29.49 to 30.5 breccia. Cherty fragments of various sizes up to 3cm in a quartz matrix. |
| | | From 31.81 to 31.85 sericitic bands. |
| | | From 40.6 to 46.2 the core is well banded with sericite at 40° to the core axis. The bands are from 1mm to 2cm in width. |
| | | There are also bands of silica (quartz) with an overall content of about 8%. |
| | | From 46.2 to 46.65 shear zone |
| | | From 49.69 to 50.7 beds of sulphides up to 1.5cm wide occur. These beds have a content of about 90% and are conformable. |
| | | 51.12 to 52.5 quartz veining increases to about 10%. Some cubic pyrite associated with the veins. |
| | | 53.58 to 54.23 quartz veins brecciate the core with associated sericite about 5%. Band of sulphides 1cm wide at 53.58 with an overall content of about 3%. |
| | | 60.64 to 60.77 two 1cm wide sulphide beds. |
| | | At 64.5 angle of bedding is 40° to the core axis. |

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

Hole No. 839-42-13
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|----|---|
| From | To | |
| | | From 66.0 to 66.67 breccia zone with ≈3% sulphides. |
| | | From 68.9 to 69.15 ≈30% quartz and sericite. |
| | | From 73.35 to 73.72 white quartz veins with minor sulphides around to rims |
| | | From 75.0 to 76.9 the sericite content increases to about 60% of the core
by volume. Quartz also increases to about 30%. Banded
at 30° to the core axis. |
| | | 76.9 to 80.9 the core is brecciated by smokey quartz veins ≈5%. Sulphide
content is ±2%. |
| | | 81.6 to 82.4 ≈40% sericite and 20% crenulated quartz veining. |
| | | 91.28 to 91.74 about 30% sulphides associated with a more cherty section. |
| | | At 92.8 a 3mm wide sulphide stringer. |
| | | 93.6 to 95.0 breccia with a quartz matrix. Numerous patches of sulphides
with an overall content of ±2%. |
| | | From 95.0 to 97.76 the rock is no longer brecciated but sulphides occur
in 1cm size patches throughout ±2% overall. |
| | | 99.3 to 103.0 breccia which is associated with a fault from 101.2 to 101.6
Fragments of wallrock in a quartz matrix. Sericite around
some of the fragments. |
| | | 105.7 to 113.1 the core is faulted and brecciated with about 20% quartz. |
| | | 116.8 to 117.06 brecciated quartz vein. |
| | | 108.3 to 109.1 quartz content about 60% with associated sericite. |
| | | 118.7 to 121.5 breccia. Fragments of tuff in a quartz matrix. Quartz
veins are highly crenulated with sulphides along the
margins. Also some sericite ≈5%. |
| 121.5 | | END OF HOLE |



DRILL HOLE LOCATION SKETCH

Project 839

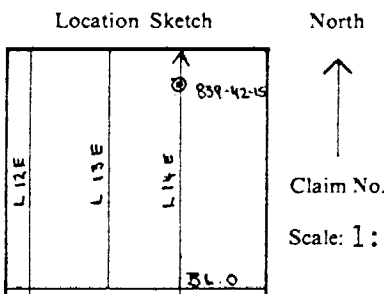
Holloway Township

D.D.H. #839-42-13

Scale: 1:1000

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

Hole No. 839-42-15

| | | | | |
|---------------------------------------|----------------------------|-----------------------------------|--|--|
| Hole No. <u>839-42-15</u> Sheet | Length <u>119.0 metres</u> | Commenced <u>October 26, 1981</u> | Dip: Collar <u>-50°</u> | Location Sketch
 |
| Property <u>839-42</u> | Bearing <u>Grid North</u> | Completed <u>October 29, 1981</u> | Etch Test Depth Rdg. True | |
| Township <u>Holloway</u> | Dip <u>-50°</u> | Drilling Co. <u>St. Lambert</u> | <u>1</u> <u>119.0m</u> <u>51°</u> <u>44°</u> | |
| Location <u>L1400, 250N</u> | Objective | Core Size <u>BQ</u> | Casing Left/ Lost in Hole | |
| Logged By <u>S. Davies</u> | Remarks | | | North ↑
Claim No. <u>L-579664</u>
Scale: 1: 10,000 |
| Core Location <u>Perry Lake</u> | | | | |

| Footage Metres | | DESCRIPTION |
|----------------|--------|------------------------|
| From | To | |
| 0 | 14.70 | OVERBURDEN |
| 14.70 | 27.88 | ANDESITE |
| 27.88 | 29.00 | GRAPHITE |
| 29.00 | 44.74 | SERICITIC LAPILLI TUFF |
| 44.74 | 45.30 | BLACK CHERT |
| 45.30 | 88.80 | ASH TUFF |
| 88.80 | 95.00 | CHERT |
| 95.00 | 100.50 | TUFF BRECCIA |
| 100.50 | 119.00 | TALC CHLORITE |
| | 119.00 | END OF HOLE |

R. J. Ross

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

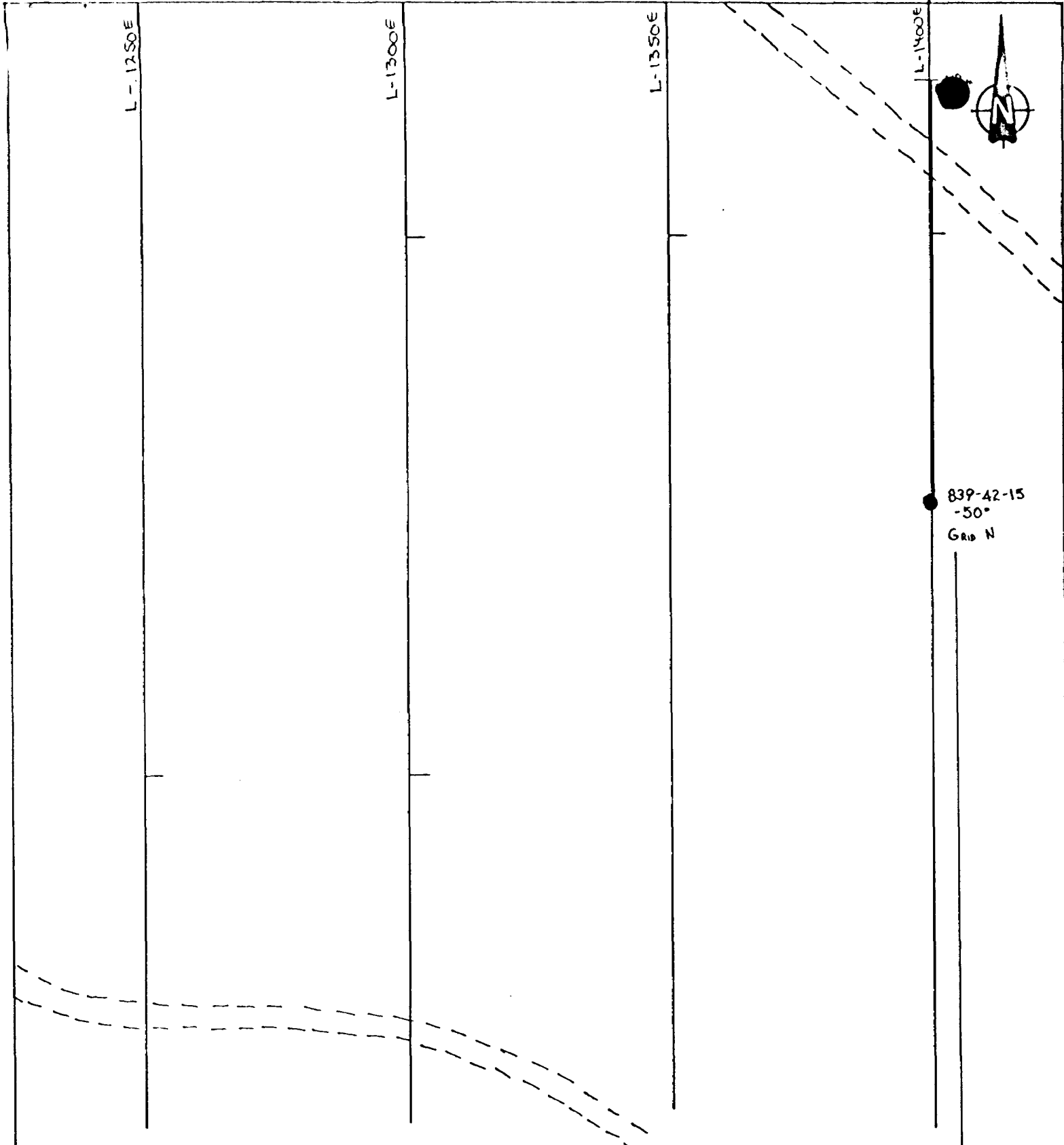
Hole No. 839-42-15
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| 0 | 14.7 | OVERBURDEN |
| 14.7 | 27.88 | ANDESITE |
| | | Dark green to black in colour, fine grained, relatively soft and slightly magnetic. Numerous dark green chlorite blebs at 45° to the core axis. Minor quartz veining at random angles to the core totals about 3% by volume. |
| | | Minor sulphides associated with the quartz veins with an overall content of less than 1%. |
| 27.88 | 29.0 | GRAPHITE |
| | | Black, soft and conductive. It is brecciated in places especially at the lower contact. Quartz/carbonate stringers cut the core at random angles and constitute about 5% by volume. Sulphides occur throughout, finely disseminated and in concentrated patches. Overall content is about 70%. |
| 29.0 | 44.74 | SERICITIC LAPILLI TUFF |
| | | Light green in colour due to sericitic alteration of the fragments. The fragments are anhedral to subhedral and range in size from <1mm to 2cm. They have a preferred angle of orientation of 50° to the core axis. |
| | | Minor quartz veining at random angles to the core axis constitute about 3% by volume. Many of these veins are crenulated. |
| | | Disseminated sulphides throughout ±1%. |
| | | From 38.12 to 38.85 chert breccia. Black chert fragments in a quartz matrix. |
| | | From 42.85 to 43.35 } fault zones with rusty alteration. |
| | | " 44.00 to 44.30 } |
| 44.74 | 45.30 | BLACK CHERT |
| | | Black, very hard and crystalline. Angular white fragments up to 1cm in size throughout. Minor sulphides. |

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

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

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| 45.30 | 88.80 | ASH TUFF |
| | | Light green in colour due to sericitic alteration of the fragments. The fragments are subhedral to euhedral and less than 2mm in size. They are of a variety of compositions and have a preferred angle of orientation of 45° to the core axis. Minor quartz veining at random angles to the core. |
| | | Disseminated sulphides throughout with an overall content of about 2%. |
| | | From 50.0 to 50.93 chert breccia as per 38.12 to 38.85. |
| | | From 51.0 to 52.4 massive sulphides in bands and around fragments with a total content of 70%. |
| | | From 64.5 to 72.3 the rock has small (less than 2mm in size) bright green fuchsite fragments within the tuff. There is also about 5% carbonate. |
| | | From 72.9 to 74.8 the rock is fairly massive and soft. |
| | | From 82.5 to 87.8 fault with breccia along the boarders. The fault zone also contains black and white chert which is highly broken. Downhole, the quartz veining increases to about 5%. |
| 88.8 | 95.0 | CHERT |
| | | Upper contact is sharp at 70° to the core axis. The chert is whitish in colour, crystalline and very hard. |
| | | It is finely brecciated but otherwise the rock appears massive. The chert is relatively barren of mineralization. |
| | | From 92.3 to 93.5 the chert is greyish and not quite as siliceous as the sections. |
| | | 94.1 to 95.2 the rock is brecciated and more like quartz rather than chert |
| | | The lower contact is faulted and rusty from 94.3 to 95.0. |
| 95.0 | 100.5 | TUFF BRECCIA |
| | | Large angular tuffaceous fragments in a quartz matrix. The fragments are up to 3cm in size and are yellowish due to sericitic alteration. Quartz content is about 30%. Also quartz veining at random angle |



DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

L-579664

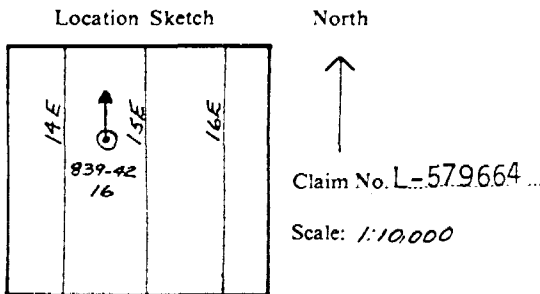
D.D.H. #839-42-15

Scale: 1:1000

139m S
 95m to #3
 L-579664 pt

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

Hole No. 839-42-16

| | | | | |
|----------------------------|---------------------|----------------------------|-------------------|--|
| Hole No. 839-42-16 Sheet 1 | Length 114.0 metres | Commenced October 29, 1981 | Dip: Collar -50° | Location Sketch
 |
| Property 839-42 | Bearing Grid North | Completed October 30, 1981 | Etch Test 1 | |
| Township Holloway | Dip -50° | Drilling Co. St. Lambert | Depth 114.0m | |
| Location L1450, 255N | Objective | Core Size BQ | Rdg. 52° True 45° | |
| Logged By S. Davies | | Casing Left/ Lost in Hole | | |
| Core Location Perry Lake | | | | |
| Remarks | | | | |

| Footage Metres | | DESCRIPTION |
|----------------|--------|----------------------|
| From | To | |
| 0 | 18.25 | OVERBURDEN |
| 18.25 | 33.50 | ANDESITE |
| 33.50 | 56.50 | LAPILLI TUFF |
| 56.50 | 76.76 | ACID TUFF |
| 76.76 | 92.00 | GREEN CARBONATE ROCK |
| 92.00 | 99.97 | ACID TUFF |
| 99.97 | 100.66 | CHERT |
| 100.66 | 114.00 | TALC CHLORITE SCHIST |
| | 114.00 | END OF HOLE |

R. Roman

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

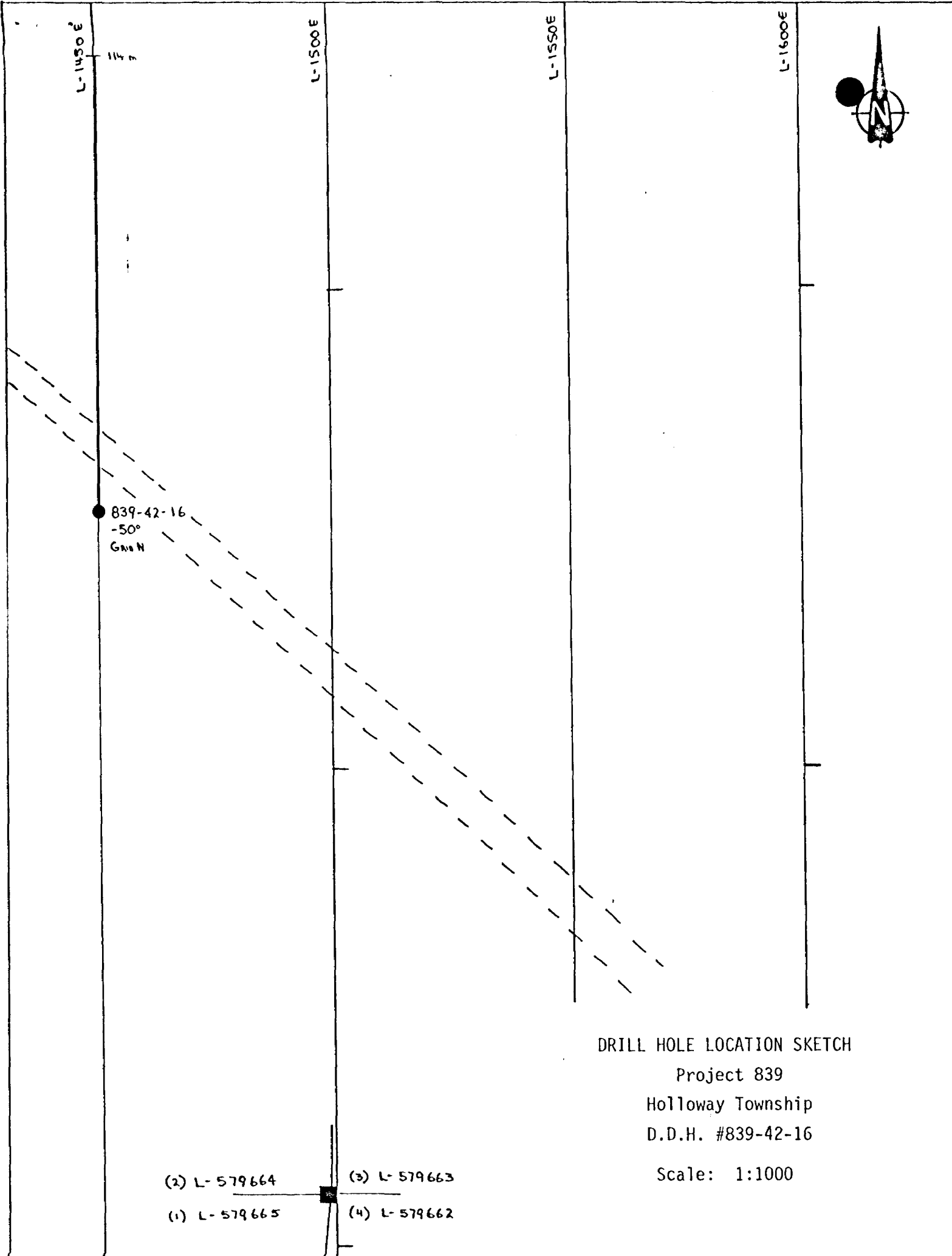
Hole No. 839-42-16
Sheet No. 3

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 0 | 18.25 | OVERBURDEN |
| 18.25 | 33.50 | ANDESITE |
| | | Dark green to black in colour, very fine to fine grained. Dark green chlorite clots with a preferred angle of orientation of 55° to the core axis. Quartz veins and stringers cut the core at random angles and total about 3% by volume. |
| | | Very minor sulphides in places with less than 1% overall. |
| | | Lower contact is gradational. |
| | | From 22.9 to 23.28 missing core. |
| 33.50 | 56.50 | LAPILLI TUFF |
| | | Light green in colour due to sericitic alteration. Fragments are subhedral to anhedral and range in size from 1mm to 1cm. Very minor quartz veining at random angles to the core. |
| | | There is a preferred angle of orientation of 50° to the core axis. About 2% sulphides throughout but 1cm size splotches occur in places. |
| | | From 33.9 to 35.0 metres angular black chert fragments up to 2cm in size occur in places. |
| | | From 34.5 to 36.1 up to 1cm size sulphide splotches occur giving a total content in this section of about 4%. |
| | | From 36.46 to 37.4 large (4cm) tuff fragments in a black chert matrix. Quartz veining =5%. The fragments have a preferred orientation of 45° to 50° to the core axis. |
| | | From 41.29 to 42.50 about 40% smokey quartz veins and chert. Disseminated sulphides along the margins of the veins. |
| | | From 43.8 to 52.1 the rock is not sericitized and appears to be almost like a greywacke. It is massive and about 8% quartz veining occurs from 49.5 to 50.9 metres. |
| | | From 52.1 to 53.3 the tuff is sericitic with 1mm in size fuchsite blebs. |
| | | From 56.1 to 56.85 and from 57.27 to 57.62 large angular tuff fragments in a black chert matrix. |
| | | 62.2 to 62.62 fault with rusty alteration. |
| | | From 53.3 to 56.5 the tuff does not have as much sericite |

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

Hole No. 839-42-16
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| 56.5 | 76.76 | ACID TUFF |
| | | Silica content is about 50% as a matrix and in veins. The veins cut the core at random angles and are crenulated. |
| | | The fragments are angular and have a preferred angle of orientation of 45° to the core axis in places. |
| | | Carbonate content is about 10% which occurs mostly as ankerite. The ankerite is quite rusty in places giving the rock a brownish colour |
| | | Overall sulphide content ±2%. |
| | | From 69.0 metres to 70.7 ankerite constitutes about 10% of the core. |
| | | 73.35 to 74.1 and 75.3 to 75.8 ankerite. |
| | | 75.8 to 76.76 red chert |
| 76.76 | 92.00 | GREEN CARBONATE ROCK |
| | | Large green fragments that have been altered to fuchsite in a quartz matrix. The fragments are up to 4cm in size and are angular. |
| | | Minor sulphides ±1%. |
| | | Carbonate content about 10% and quartz about 15% by volume. |
| | | In many places, the core has been rusted due to the presence of ankerite. The fuchsite content decreases downhole and the lower contact is gradational. |
| | | 91.35 to 92.0 about 90% quartz veining which has brecciated the parent rock. The vein is white with minor sulphides along the contact. |
| 92.0 | 99.97 | ACID TUFF |
| | | as described from 56.5 to 76.76 metres. |
| | | 94.7 to 95.1 ≈80% white quartz |
| | | The overall silica content is about 60%. |
| 99.97 | 100.66 | CHERT |
| | | Greyish/white chert which has been brecciated into angular fragments up to 2cm in size. It is very siliceous and crystalline. |



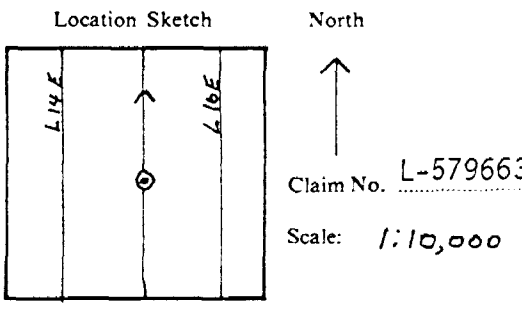
839-42-16
-50°
GNS N

(2) L-579664 (3) L-579663
(1) L-579665 (4) L-579662

DRILL HOLE LOCATION SKETCH
Project 839
Holloway Township
D.D.H. #839-42-16
Scale: 1:1000

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

Hole No. 839-42-17

| | | | | |
|--|---------------------------------|-----------------------------------|--|--|
| Hole No. <u>839-42-17</u> Sheet <u>1</u> | Length <u>103.15 metres</u> | Commenced <u>October 30, 1981</u> | Dip: Collar <u>-50°</u> | Location Sketch
 |
| Property <u>839-42</u> | Bearing <u>Grid North</u> | Completed <u>October 31, 1981</u> | Etch Test Depth Rdg. True | |
| Township <u>Holloway</u> | Dip <u>-50°</u> | Drilling Co. <u>St. Lambert</u> | 1 103.15m 55° 48° | |
| Location <u>L1500, 270N</u> | Objective | Core Size <u>BQ</u> | Casing Left/ Lost in Hole <u>none</u> | |
| Logged By <u>S. Davies</u> | Core Location <u>Perry Lake</u> | Remarks | | |

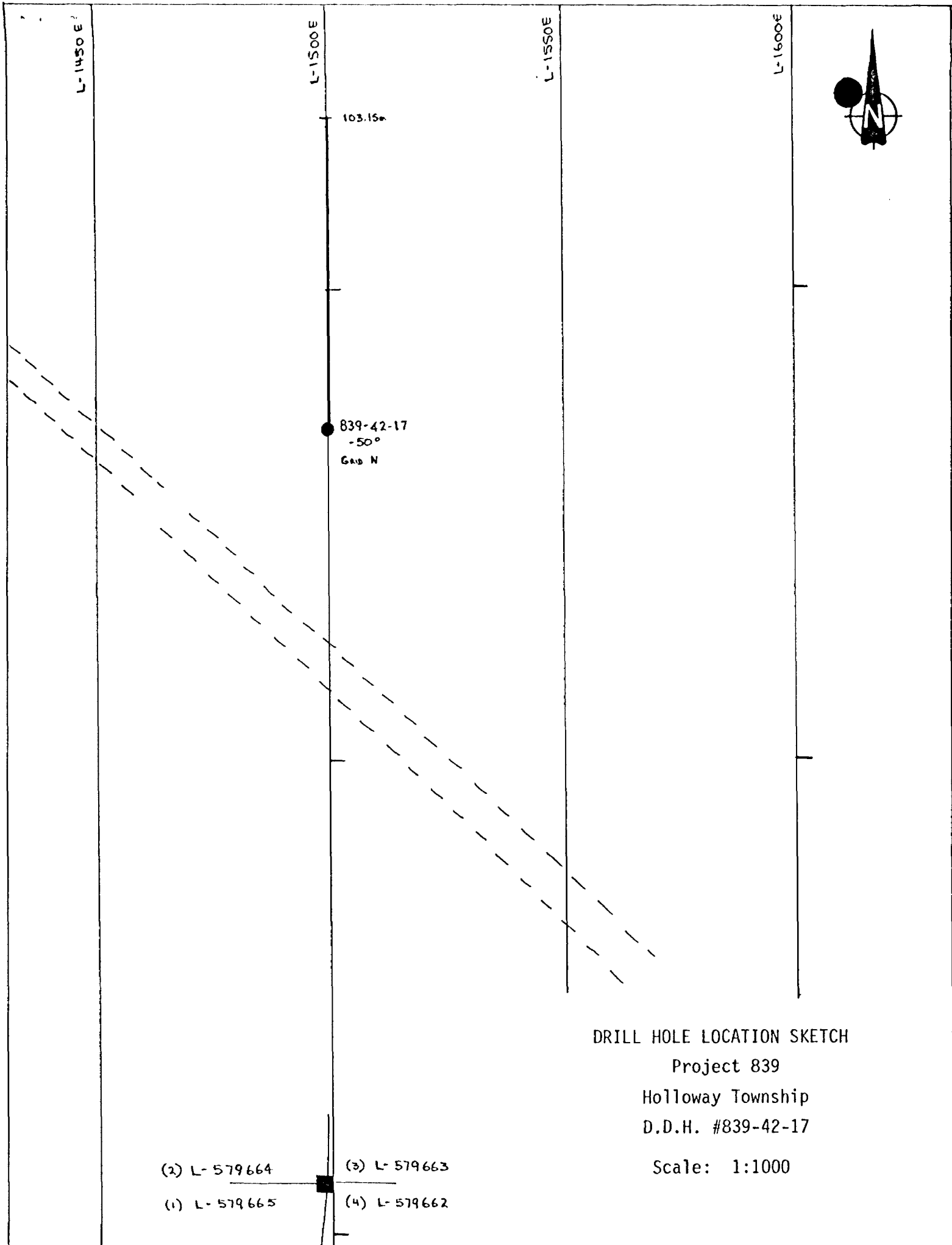
| Footage Metres | | DESCRIPTION |
|----------------|--------|--------------------------|
| From | To | |
| 0 | 32.00 | OVERBURDEN |
| 32.00 | 38.10 | SERICITIZED TUFF BRECCIA |
| 38.10 | 39.00 | BLACK CHERT |
| 39.00 | 51.00 | SERICITIC TUFF BRECCIA |
| 51.00 | 73.40 | FAULT |
| 73.40 | 103.15 | TALC CHLORITE SCHIST |
| | 103.15 | END OF HOLE |

R. G. Pearson

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

Hole No. 839-42-17
Sheet No. 2

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 0 | 32.00 | OVERBURDEN |
| 32.00 | 38.10 | SERICITIZED TUFF BRECCIA |
| | | Yellowish green in colour due to about 40% sericite. Tuff fragment up to 5cm in size have been sericitized. About 20% quartz as crenulatec veins and as a matrix for the fragments. |
| | | Disseminated sulphides throughout with a total content of $\pm 2\%$. |
| | | 37.47 to 37.76 the core is rusty and broken and may be a splay fault from the major fault downhole. |
| 38.1 | 39.00 | BLACK CHERT |
| | | Black, crystalline and very hard. Fairly massive. White angular fragments throughout up to 1cm in size. |
| | | Disseminated sulphides throughout up to 2%. Minor quartz veining at random angles to the core. |
| 39.0 | 51.0 | SERICITIC TUFF BRECCIA |
| | | as per 32.0 to 38.1 |
| | | Most of the core has been highly rusted due to the major fault down the hole. |
| | | From 42.52 to 42.68 white quartz vein which is brecciated. |
| 51.0 | 73.4 | FAULT |
| | | Very massive fault with the core highly broken or missing completely. The rock has been reduced to rubble and it is very rusty. Some of the pieces are quartz but most are indistinguishable. |
| | | 53.00 to 54.00 |
| | | 54.87 to 55.48 |
| | | 58.27 to 60.00 |
| | | 61.00 to 63.00 |
| | | 63.43 to 66.00 |
| | | 66.73 to 70.01 |
| | | } missing core |



DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

D.D.H. #839-42-17

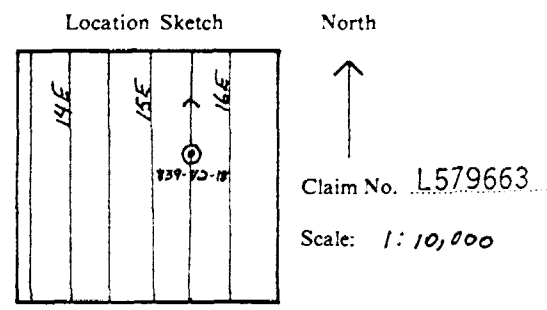
Scale: 1:1000

- (2) L-579664
- (1) L-579665
- (3) L-579663
- (4) L-579662

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

Hole No. 839-42-18

| | | | | |
|--------------------------|---------|---------------------|----------------------------|---|
| Hole No. 839-42-18 | Sheet 1 | Length 153.0 metres | Commenced October 31, 1981 | Dip: Collar -50° |
| Property 839-42 | | Bearing Grid North | Completed November 4, 1981 | |
| Township Holloway | | Dip -50° | Drilling Co. St. Lambert | Etch Test 1 Depth 150.0m Rdg. 54° True 47° |
| Location L1550, 235N | | Objective | Core Size BQ | |
| Logged By S. Davies | | | Casing Left/ Lost in Hole | |
| Core Location Perry Lake | | | | |



Remarks

| Footage Metres | | DESCRIPTION |
|----------------|--------|-------------------------|
| From | To | |
| 0 | 43.25 | OVERBURDEN |
| 43.25 | 57.84 | LAPILLI TUFF |
| 57.84 | 72.58 | PELITIC SEDIMENT |
| 72.58 | 101.66 | LAPILLI TUFF |
| 101.66 | 106.64 | PELITIC SEDIMENT |
| 106.64 | 114.60 | LAPILLI TUFF (ACIDIC ?) |
| 114.60 | 115.60 | PELITIC SEDIMENT |
| 115.60 | 147.00 | ALTERED MAFIC BRECCIA |
| 147.00 | 153.00 | TALC CHLORITE SCHIST |
| | 153.00 | END OF HOLE |

R. G. Ross

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

Hole No. 839-42-18
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| 0 | 43.25 | OVERBURDEN |
| 43.25 | 57.84 | LAPILLI TUFF |
| | | Light yellowish/green in colour due to about 20% sericite mineralization. The fragments are yellow in colour, anhedral to subhedral and range in size from 1mm to 3cm. They have a preferred orientation of about 40° to the core axis. |
| | | Overall quartz content is about 15% which occurs as veins and stringers that cut the core at random angles. Minor disseminated sulphides ±1%. |
| | | From 43.25 to 44.75 about 30% quartz |
| | | From 46.71 to 46.94 brownish ankerite |
| | | From 48.60 to 51.40 about 20% quartz (smokey) veining. Also some fuchsite mineralization. |
| | | From 55.50 to 56.58 about 20% smokey quartz. The core is also highly fractured. |
| 57.84 | 72.58 | PELITIC SEDIMENT |
| | | Dark grey to black in colour, very fine to fine grained, and relatively soft. |
| | | The beds range in size from 1cm to 1 metres and are at 58° to the core axis. |
| | | About 5% quartz veining at random angles to the core axis. Minor disseminated sulphides ±1%. |
| | | From 65.13 to 65.50 about 30% quartz. |
| | | Graded bedding is evident in the hole with fining down the hole. This indicates that tops are north. |
| | | Lower contact is sharp at 60° to the core axis. |
| 72.58 | 101.66 | LAPILLI TUFF |
| | | as per described from 43.25 to 57.84 |
| | | From 73.7 to 74.4 the fragments are smaller <2mm and relatively uniform in size. The silica content is about 20%. |

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

Hole No. 839-42-18
Sheet No. 5

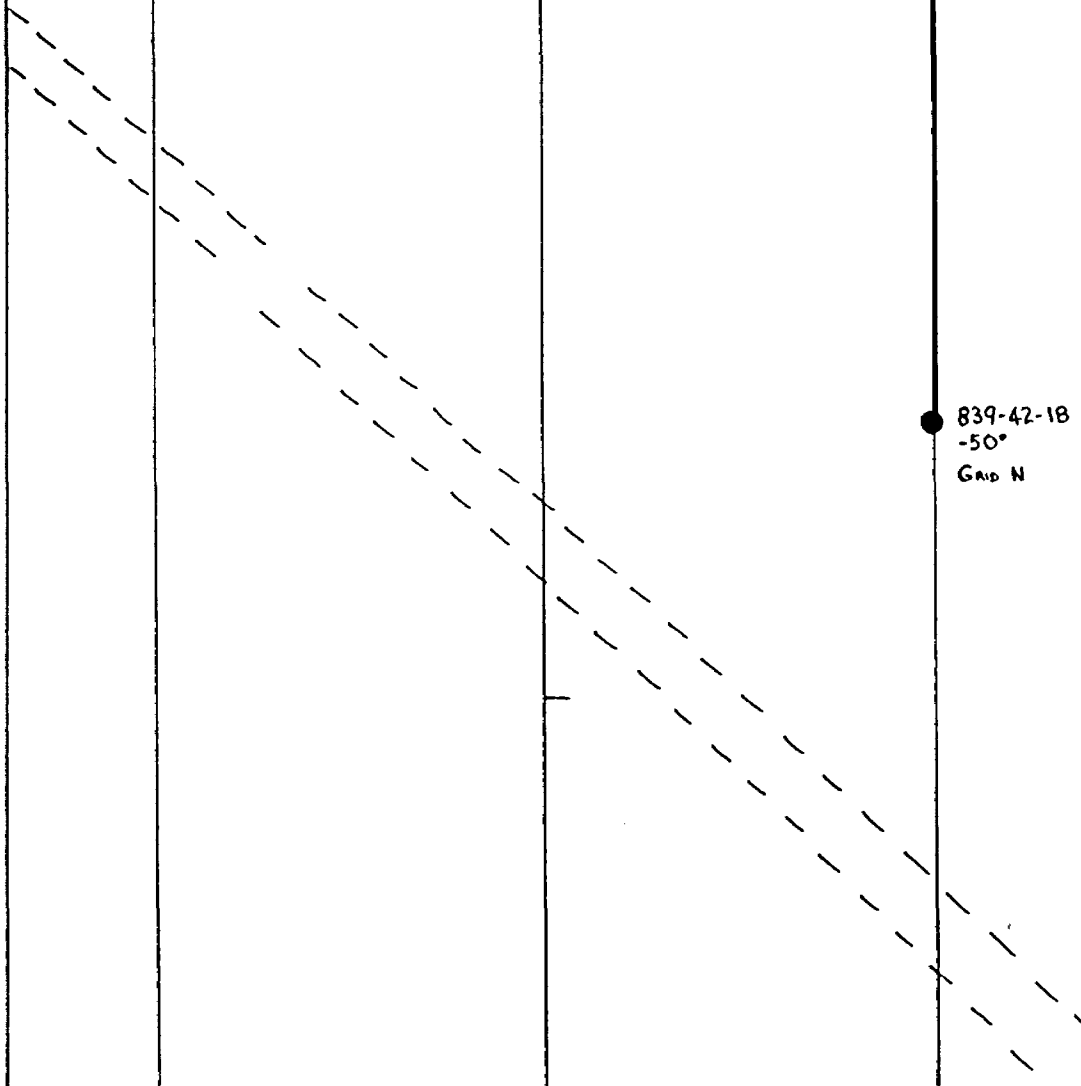
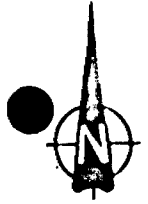
| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| | | From 74.4 to 76.3 bright green fuchsite fragments from 1mm to 2cm in size. |
| | | From 76.3 to 77.85 greyish in colour with a silica content of about 2%. |
| | | From 77.85 to 78.8 the rock is black in colour, soft but not conductive
May be graphite or chlorite. |
| | | From 80.6 to 81.4 breccia. Black cherty fragments in a quartz matrix.
At 87.8 preferred angle of orientation is 50° to the core axis. |
| | | From 90.0 to 101.66 the silica content increases to about 30%.
Minor sulphides throughout ±1%.
Lower contact is sharp at 35° to the core axis. |
| 101.66 | 106.64 | PELITIC SEDIMENT |
| | | as described from 57.84 to 72.58 angle of bedding is 30 - 35° to the core axis. |
| 106.64 | 114.6 | LAPILLI TUFF (ACIDIC ?) |
| | | as described from 72.58 to 101.66 |
| | | The fragments range in size from 2mm to 3cm in size. Silica throughout as a matrix and as smokey quartz veins. Total volume about 25%. Very minor sulphides
Lower contact is sharp at 35° to the core axis. |
| 114.6 | 115.6 | PELITIC SEDIMENT |
| | | as described from 101.66 to 106.64 metres. |
| 115.6 | 147.0 | ALTERED MAFIC BRECCIA |
| | | Yellowish green in colour, medium grained and very soft. The fragments are angular, and up to 8cm in size. Each fragment has smaller subhedral fragments from 1mm to 3mm in size.
The matrix is dark green to black and chloritic. Very minor cubes of sulphides in the matrix. The fragments do not have a preferred orientation. Minor <2% carbonate in the matrix. Downhole the fragments decrease in size and the chlorite content increases. The mafic breccia gradually grades into the talc chlorite unit. |

L-1450E

L-1500E

L-1550E

L-1600E



839-42-18
-50°
GAID N

(2) L-579664

(3) L-579663

(1) L-579665

(4) L-579662

DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

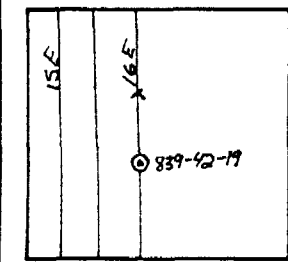
D.D.H. #839-42-18

Scale: 1:1000

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

Hole No. 839-42-19

| | | | |
|----------------------------|---------------------|--------------------------------|--|
| Hole No. 839-42-19 Sheet 1 | Length 138.0 metres | Commenced November 4, 1981 | Dip: Collar -50° |
| Property 839-42 | Bearing Grid North | Completed November 7, 1981 | Etch Test Depth Rdg. True
1 130.0m 52° 45° |
| Township Holloway | Dip -50° | Drilling Co. St. Lambert | |
| Location L1600E, 220N | Objective | Core Size BQ | Location Sketch
North
↑
Claim No. L-579663
Scale: 1:10,000 |
| Logged By S. Davies | | Casing Left/ Lost in Hole none | |
| Core Location Perry Lake | | | |
| Remarks | | | |



Claim No. L-579663
Scale: 1:10,000

| Footage Metres | | DESCRIPTION |
|----------------|--------|---|
| From | To | |
| 0 | 33.00 | OVERBURDEN |
| 33.00 | 56.34 | HIGHLY ALTERED ROCK WITH QUARTZ STOCKWORK (V9f) |
| 56.34 | 66.95 | AGGLOMERATE |
| 66.95 | 95.50 | PELITIC SEDIMENT |
| 95.50 | 134.90 | VOLCANICLASTICS (TUFF) INTERCALATED WITH REMNANT ULTRAMAFIC FLOWS |
| 134.90 | 138.00 | ALTERED ULTRAMAFIC BRECCIA |
| | 138.00 | END OF HOLE |

R. J. Roman

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

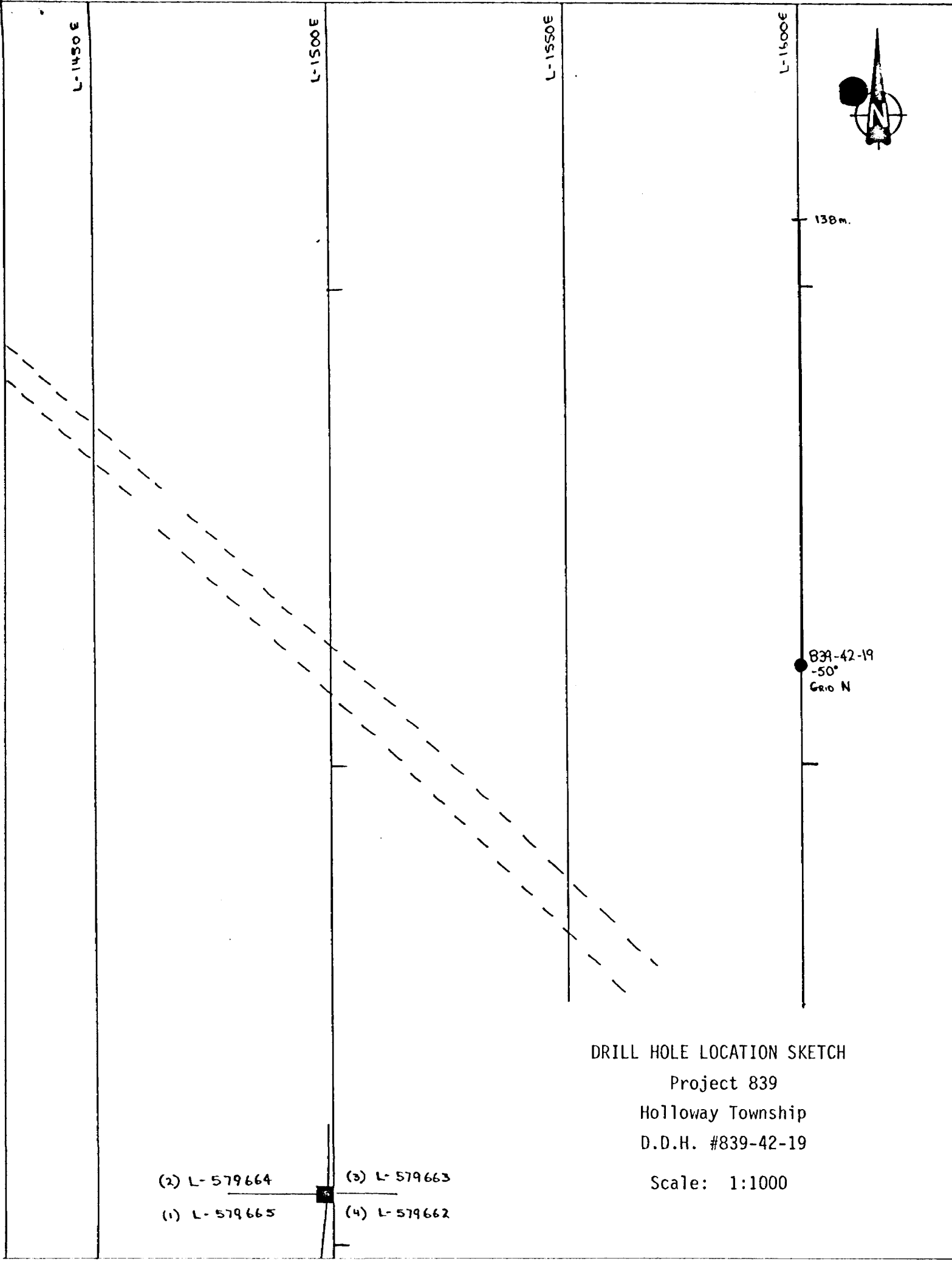
Hole No. 839-42-19
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| 0 | 33.00 | OVERBURDEN |
| 33.00 | 56.34 | HIGHLY ALTERED ROCK WITH QUARTZ STOCKWORK (V9f) |
| | | The original rock is highly altered to silica and brecciated. It may have been an ultramafic flow or a pyroclastic. |
| | | Silica content is about 70% overall and occurs as a matrix and as quartz veining. |
| | | Sulphide content is about 3% overall and occurs in veins and surrounding the fragments. |
| | | 40.2 to 42.05 the silica content is about 90%. |
| | | 42.2 to 42.65 white quartz vein with sericite, fuchsite and sulphides within the vein and along the boarders. |
| | | 43.2 to 43.44 about 4% sulphides occur in stringers and quartz veins. |
| | | 52.32 to 56.34 large (>7cm) angular fragments. They are yellowish with smaller yellow fragments within. This may indicate fragments of an ultramafic vesicular flow. |
| | | 56.07 to 56.13 spinifex texture. |
| 56.34 | 66.95 | AGGLOMERATE |
| | | Subangular to angular fragments of varying compositions range in size from 1cm to >8cm. The matrix is composed of smaller fragments <3mm in size. |
| | | Some of the fragments have a preferred orientation of 40-45° to the core axis. |
| | | Sulphide content is about 2% which occurs in the matrix surrounding the fragments. |
| | | Lower contact is brecciated. |
| | | Towards the contact, the fragments become more highly packed. |
| 66.95 | 95.50 | PELITIC SEDIMENT |
| | | Dark grey to black in colour, medium to fine grained and relatively soft. |
| | | Beds range in size from 2cm to 15cm and are well defined at 55° to the core axis. |
| | | They exhibit definite graded bedding fining down hole. Tops are north. |

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

Hole No. 839-42-19
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| | | Minor quartz veining and sulphides (sulphide cone in places). |
| | | 77.4 to 78.0 quartz veining (about 30%) brecciates the sediment. |
| | | 78.0 to 80.8 agglomerate as described from 56.34 to 66.95 |
| | | 80.5 to 80.8 sulphide content is about 25%. |
| | | 90.7 to 91.23 agglomerate as described from 56.34 to 66.95. |
| | | 93.0 to 95.5 quartz veining (about 20%) brecciates the rock. |
| 95.5 | 134.9 | VOLCANICLASTICS (TUFF) INTERCALATED WITH REMNANT ULTRAMAFIC FLOWS |
| | | The parent rock is so highly altered that it's original composition cannot be determined. The bulk of the rock appears to be a pyroclastic or tuff which is highly brecciated by quartz veining. The fragments vary in colour from brown/black to light green in colour. They are angular and range in size from 52.0cm to 8cm in diameter. |
| | | The overall sulphide content is about 20-25% and an overall sulphide content of ±2%. |
| | | Intercalated with the pyroclastics are remnant textures of an ultramafic flow series. Relict olivene needles occur in spinifex texture and is vesicular flows (chicken feed). |
| | | From 105.2 to 112.5 silica content is about 50% with fragments that have been altered to fuchsite. |
| | | 111.73 to 112.0 spinifex |
| | | 116.4 to 117.56 spinefex with fuchsite and a talc/chlorite matrix. |
| | | 118.66 to 119.5 fuchsite and quartz. |
| | | 123.6 to 125.3 sericitic fragments. |
| | | 125.6 to 126.0 chicken feed texture. Variolitic Flows |
| | | 129.73 to 129.79 " " " |
| 134.9 | 138.00 | ALTERED ULTRAMAFIC BRECCIA |
| | | as described in 42-18 from 115.6 to 147.0 |
| | | Large angular mafic fragments in a talc/chlorite matrix. |
| | 138.00 | END OF HOLE |



L-1450E

L-1500E

L-1550E

L-1600E

138m.

839-42-19
-50°
Grid N

(2) L-579664

(3) L-579663

(1) L-579665

(4) L-579662

DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

D.D.H. #839-42-19

Scale: 1:1000

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

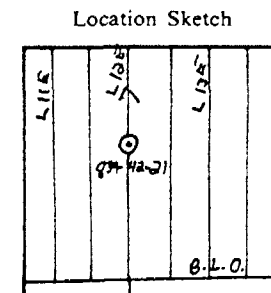
Hole No. 839-42-21

Hole No. 839-42-21 Sheet 1
 Property 839-42
 Township Holloway
 Location L 1200E, 180N
 Logged By S. Davies
 Core Location Perry Lake

Length 123.0 metres
 Bearing Grid North
 Dip -50°
 Objective _____

Commenced November 11, 1981
 Completed November 13, 1981
 Drilling Co. St. Lambert
 Core Size BQ
 Casing Left/ Lost in Hole none

Dip: Collar -50°
 Etch Test Depth Rdg. True
1 123.0m 57° 50°



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

Remarks _____

| Footage Metres | | DESCRIPTION |
|----------------|--------|-------------------------|
| From | To | |
| 0 | 3.00 | OVERBURDEN |
| 3.00 | 18.80 | ANDESITE |
| 18.80 | 31.10 | MAFIC TUFF (BRECCIA) |
| 31.10 | 109.70 | FELSIC TUFF |
| 109.70 | 111.50 | ALTERED ULTRAMAFIC FLOW |
| 111.50 | 123.00 | TALC CHLORITE SCHIST |
| | 123.00 | END OF HOLE |

R. J. Pearson

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

Hole No. 839-42-21
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| 0 | 3.00 | OVERBURDEN |
| 3.00 | 18.80 | ANDESITE |
| | | Dark green in colour, fine grained and relatively soft. Fairly massive with no distinct laminae. Minor quartz veining, <5% at random angles to the core axis. |
| | | Cubes of sulphides in places with an overall content of less than 1%. Lower contact is gradational. |
| | | 15.9 to 16.6 very siliceous quartz vein which has been brecciated by further veining. |
| 18.80 | 31.10 | MAFIC TUFF (BRECCIA) |
| | | Dark green, with 1mm to 4mm size fragments which are well bedded within larger brecciated fragments. |
| | | The rock is brecciated by numerous quartz veins & stringers with a total volume of about 30%. |
| | | Sulphides throughout but found mainly in the quartz matrix of shattered zones. Overall content $\pm 2\%$. |
| | | 23.6 to 25.3 the rock has been shattered into small angular fragments. The matrix is quartz with about 3% sulphides associated. |
| 31.10 | 109.70 | FELSIC TUFF |
| | | Light green in colour with subhedral fragments ranging in size from 2mm to 1cm. |
| | | Quartz occurs as veins and stringers that cut the core at random angles and as a matrix in the brecciated zones. Total content of quartz is about 30% by volume. |
| | | Disseminated sulphides throughout with an overall content of $\pm 2\%$ but concentrated in some areas. |
| | | Foliation at 34.5 metres of 55° to the core axis. |
| | | 40.5 to 41.8 massive and may be greywacke. |

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

Hole No. 839-42-21
Sheet No. 5

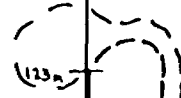
| Footage - Metres | | DESCRIPTION |
|------------------|----------------|--|
| From | To | |
| | 43.1 to 47.6 | tuffaceous sediment. Greyish green in colour, fine to medium grained with whitish elongated fragments at 60° to the core axis (in places). There is evidence of folding or soft sediment slumping. |
| | 47.6 to 51.3 | sediment, possibly a greywacke. The majority of grains are rounded and equidimensional. There are a few grains which are larger and angular and a few jasper fragments. |
| | 57.96 to 59.78 | tuff breccia or fragmental. White fragments in a dark matrix (or the other way around) with swirls of sulphides in the matrix and around the fragments. The sulphides are probably pyrite and are very fine grained which concentrate in areas. Overall content is about 5%. This zone has been termed the "dark fragmental" and seems to correspond with the upper zone in other holes that has carried gold. This could be our target zone. The combination that seems to carry gold in most of the other holes is fragments (usually clear quartz) with swirls of sulphides around the fragments in the matrix. |
| | 60.5 to 62.6 | shatter breccia. Large angular tuff fragments in a black matrix. There is only about 5% matrix. Cubes of pyrite occurs in the matrix. |
| | 62.6 to 69.8 | the rock is grey in colour and fine grained. It is barren of quartz veining. Well foliated at 55° to the core axis. Pyrite occurs in 5cm splotches of fine grains. Overall content is about 2%. |
| | 69.8 to 70.1 | white quartz vein. |
| | 70.1 to 74.93 | tuff fragments have been altered to sericite and fuchsite. Well foliated at 60° to the core axis. Finely disseminated pyrite throughout about 2%. |
| | 84.0 to 92.5 | well foliated at 75° to the core axis. |
| | 95.2 to 95.4 | white quartz vein with about 3% pyrite along the borders and within the vein. |

L 1100E

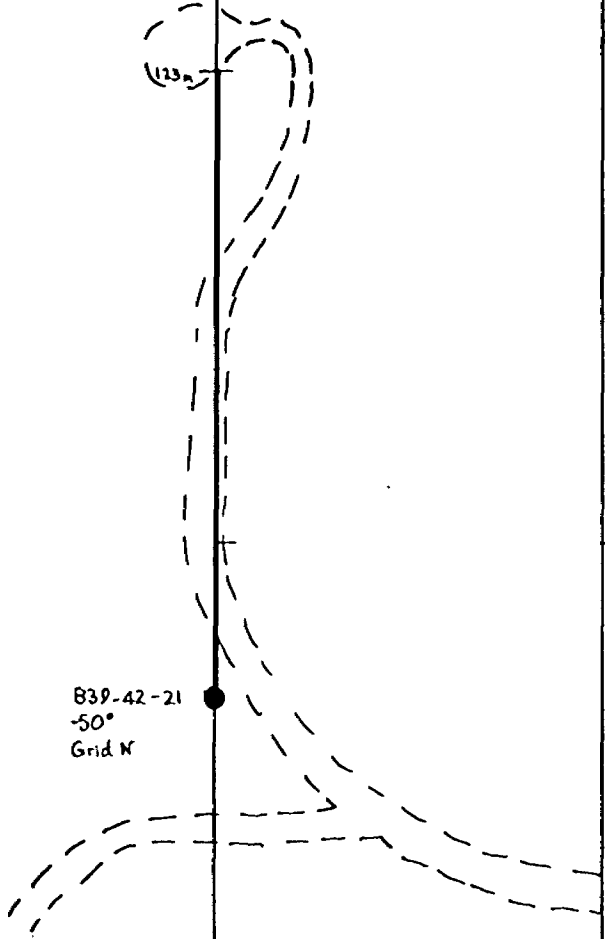
L1150E

L 1200E

L 1250E



839-42-21
-50°
Grid N



(3) L-579664

(4) L-579665



DRILL HOLE LOCATION SKETCH

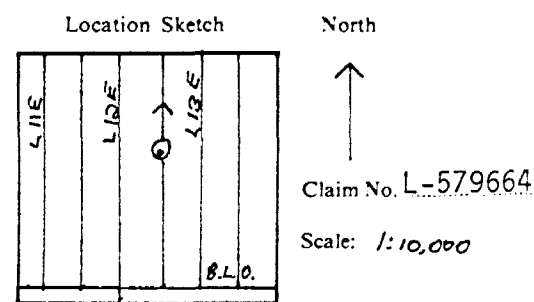
Project 839
Holloway Township
D.D.H. #839-42-21

Scale: 1:1000

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

Hole No. 839-42-22

| | | | |
|----------------------------|---------------------|--------------------------------|---|
| Hole No. 839-42-22 Sheet 1 | Length 135.0 metres | Commenced November 13, 1981 | Dip: Collar -50° |
| Property 839-42 | Bearing Grid North | Completed November 16, 1981 | Etch Test 1 Depth 123.0m Rdg. 57° True 50° |
| Township Holloway | Dip -50 | Drilling Co. St. Lambert | |
| Location L1250, 180N | Objective | Core Size BQ | |
| Logged By S. Davies | | Casing Left/ Lost in Hole none | |
| Core Location Perry Lake | | | |
| Remarks | | | |



| Footage Metres | | DESCRIPTION |
|----------------|--------|------------------------------------|
| From | To | |
| 0 | 10.00 | OVERBURDEN |
| 10.00 | 13.80 | FELSIC TUFF |
| 13.80 | 48.20 | INTERCALATED MAFIC TUFFS AND FLOWS |
| 48.20 | 129.07 | FELSIC TUFF |
| 129.07 | 132.00 | ALTERED ULTRAMAFIC FLOW |
| 132.00 | 135.00 | TALC CHLORITE SCHIST |
| | 135.00 | END OF HOLE |

R. J. Ross

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

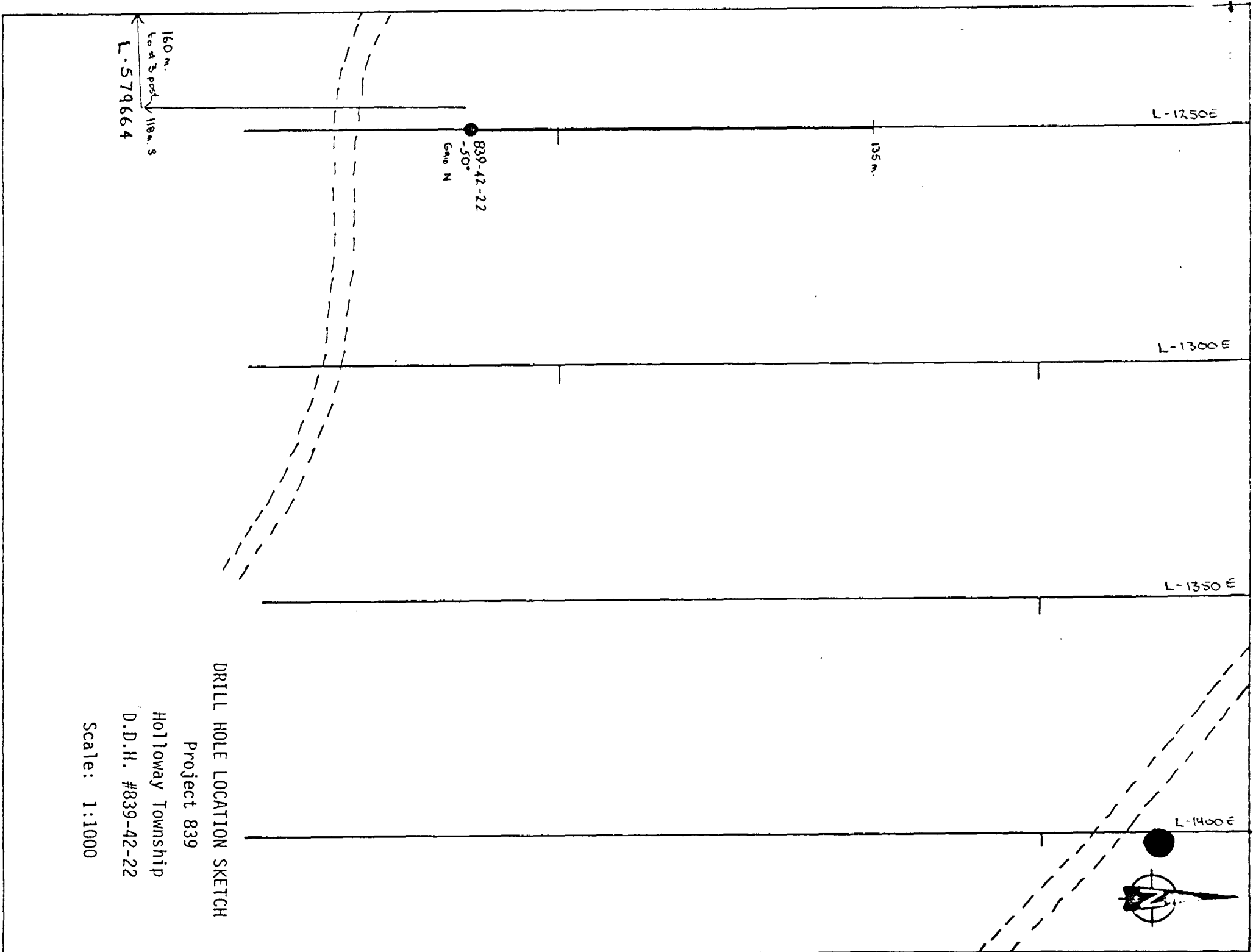
Hole No. 839-42-22
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| 0 | 10.00 | OVERBURDEN |
| 10.00 | 13.80 | FELSIC TUFF |
| | | Light grey in colour, fine grained and hard. Fragments are sub-hedral purple in colour and have a preferred orientation of 45° to the core axis. Minor sulphides occur in small stringers which cut the core at random angles. |
| | | Relatively barren of quartz veining. |
| | | From 10.0 to 11.4 the tuff is brecciated.
Lower contact is gradational. |
| 13.80 | 48.20 | INTERCALATED MAFIC TUFFS AND FLOWS |
| | | Dark green in colour, fine grained and relatively soft. |
| | | The tuff fragments are lighter green in colour, subhedral to euhedral with a preferred angle of orientation of 45° to the core axis. |
| | | Light green phenocrysts occur in the andesite at random orientations. It is slightly magnetic. |
| | | Minor quartz veining and sulphides. |
| | | The lower contact is brecciated by quartz veins (from 43.5 to 48.2 |
| 48.20 | 129.07 | FELSIC TUFF |
| | | Light green to greyish in colour, fine grained and hard. In some places foliation is well defined but in others the rock is highly altered and brecciated. |
| | | Sulphides occur as finely disseminated pyrite throughout the rock but is concentrated in places. The overall content is about ±2%. Overall silica content is about 60% of which 10% occurs as white quartz veins that cut the core at random angles. |
| | | 51.3 to 51.36 about 5% pyrite occurs in white quartz veins. |
| | | 57.56 concentration of cubic pyrite within the tuff. |
| | | 65.66 to 65.75 white quartz veining with hematitic staining and about 10% pyrite. |

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

Hole No. 839-42-22
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| | | 78.9 to 79.3 the rock is brecciated with associated sulphides about 3%. |
| | | 89.38 to 89.68 smokey and white quartz vein with pyrite associated with the margins throughout the vein. |
| | | 90.64 to 90.88 quartz vein with sulphides. |
| | | 93.7 to 97.8 pyrite (fine-grained) is found in stringers and throughout the core with a total amount of about 5%. It is concentrated in places up to 10%. |
| | | From 94.2 to 94.43 approx. 10-15% finely disseminated pyrite. The area's of greatest concentration are in quartz veins and in fragmental areas. |
| | | Foliation is good in most places at 70-80° to the core axis. In some places the laminae are at 40-45° to the core axis but this is due to soft sediment slumping or minor folding. |
| | | 107.8 to 113.6 tuff breccia. The matrix is mostly smokey quartz with finely disseminated pyrite (±2%). In some places the matrix is chloritic. |
| | | 114.2 to 115.6 quartz veining increases to about 25%. |
| | | 118.6 to 121.35 Black chert with white angular fragments. From 118.6 to 119.0 massive fine grained sulphides with a total volume of about 70%. The lower contact is brecciated and graphitic. |
| | | 125.05 to 125.51 variolitic flow. Dark green with lighter green blebs. |
| | | 126.1 to 127.82 ≈40% quartz veining with about 3% sulphides. |
| 129.07 | 132.00 | ALTERED ULTRAMAFIC FLOW |
| | | Yellowish in colour due to sericite alteration. The rock is highly brecciated by white quartz veins which contain minor pyrite. The fragments are very soft and fine grained. |
| | | The lower contact is gradational. |
| 132.00 | 135.00 | TALC CHLORITE SCHIST |
| | 135.00 | END OF HOLE |



L-1250E

L-1300E

L-1350E

L-1400E

135 m.

839-42-22
50°
640 m

160 m.
To #3 post
118 m.
L-579664

DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

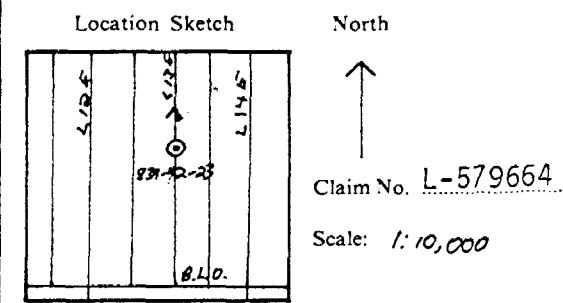
D.D.H. #839-42-22

Scale: 1:1000

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

Hole No. 839-42-23

| | | | |
|--|----------------------------|------------------------------------|--|
| Hole No. <u>839-42-23</u> Sheet <u>1</u> | Length <u>150.0 metres</u> | Commenced <u>November 16, 1981</u> | Dip: Collar <u>-50°</u> |
| Property <u>839-42</u> | Bearing <u>Grid North</u> | Completed <u>November 18, 1981</u> | Etch Test Depth Rdg. True
<u>1</u> <u>150.0m</u> <u>51°</u> <u>46°</u> |
| Township <u>Holloway</u> | Dip <u>-50</u> | Drilling Co. <u>St. Lambert</u> | |
| Location <u>L 1300E, 180N</u> | Objective | Core Size <u>BQ</u> | Casing Left/Lost in Hole |
| Logged By <u>S. Davies</u> | | | |
| Core Location <u>Perry Lake</u> | | | |



Remarks

| Footage: Metres | | DESCRIPTION |
|-----------------|--------|--------------------------------|
| From | To | |
| 0 | 9.25 | OVERBURDEN |
| 9.25 | 16.50 | FELSIC TUFF |
| 16.50 | 63.50 | INTERCALATED MAFIC TUFF & FLOW |
| 63.50 | 80.80 | INTERMEDIATE TUFF |
| 80.80 | 129.30 | FELSIC TUFF |
| 129.30 | 150.00 | ALTERED ULTRAMAFIC FLOW |
| | 150.00 | END OF HOLE |

R. J. Ross

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

Hole No. 839-42-23
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| 0 | 9.25 | OVERBURDEN |
| 9.25 | 16.50 | FELSIC TUFF |
| | | Light grey to green in colour with purple fragments, very siliceous and fine grained. Many of the fragments are highly sericitic and carbonatized. This unit looks very similar to the pyroclastic unit downhole which suggests that the mafic flow/tuff may be interflow. It is also conformable to the lower layers. |
| | | White quartz veins up to 20%, cut the core at random angles and host pyrite along the borders. |
| | | Sulphides occur as fine-grained pyrite in veins, interbedded, and as blebs up to 1cm in size. |
| | | The total content is $\pm 2\%$. Numerous patches of rust may be ankerite. Fragments have a preferred angle of orientation of 40° to the core axis. The lower contact is gradational. |
| 16.50 | 63.50 | INTERCALATED MAFIC TUFF & FLOW |
| | | as described in 42-22 |
| | | Dark green in colour with lighter green fragments and phenocrysts. The andesite is slightly magnetic. Minor quartz veins and stringers cut the core at random angles. |
| | | Very minor sulphides found as the odd cube. Lower contact is bleached and brecciated. |
| 63.50 | 80.80 | INTERMEDIATE TUFF |
| | | Light/medium grey in colour, very fine grained, and siliceous. Highly altered and sericitic. |
| | | Relatively massive (i.e. no banding) with minor quartz veins and stringers at random angles to the core. |
| | | Very minor sulphides <1%. |
| | | From 69.0 to 80.8 the core is brecciated into large angular fragments with a smokey quartz matrix. The fragments are highly altered to sericite. |

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

Hole No. 839-42-23
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| 80.80 | 129.30 | FELSIC TUFF |
| | | Greyish green in colour and very siliceous. Silica content is about 60%. |
| | | The fragments are highly altered and contorted. The alteration is mainly sericitic. |
| | | Quartz veins cut the core at random angles and some contain pyrite along the borders. The total sulphide content is $\pm 1-2\%$. |
| | | In many places the rock is brecciated with a quartz matrix or a fragmental with a quartz matrix. |
| | | Foliation is obvious in places, generally at $70-80^\circ$ to the core axis. |
| | | From 84.5 to 86.3 angular tuff fragments up to 3cm in size in a graphitic matrix. |
| | | 88.4 to 101.6 the rock is barren of veining and massive. There is evidence of soft sediment slumping at the top of the section but downhole the fragments have a preferred angle of orientation of 80° to the core axis. |
| | | 117.0 to 119.58 the rock has a fragmental texture with the fragments being angular and approx. 1cm in size. The fragments are sericitic in a quartz matrix. |
| | | 119.58 to 120.4 the rock is bright green in colour and well foliated at 85° to the core axis. |
| | | 124.3 to 126.3 BLACK CHERT with angular white fragments. Sulphide content is about 8%. This zone is a marker horizon and can be correclated with other holes on the property. |
| | | 126.3 to 128.4 greyish white chert which is brecciated and contains about 2% pyrite. |
| 129.30 | 150.00 | ALTERED ULTRAMAFIC FLOW |
| | | The flow is highly altered to sericite and by the presence of numerous quartz veins. Most of the core is brecciated with a smokey quartz matrix. The fragments are yellowish in colour and very soft. |

L-1250 E

L-1300 E

L-1350 E

L-1400 E



150 m.

839-42-23
-50°
Geo. N

72 m. S

210 m. to
3 part

L-579664

DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

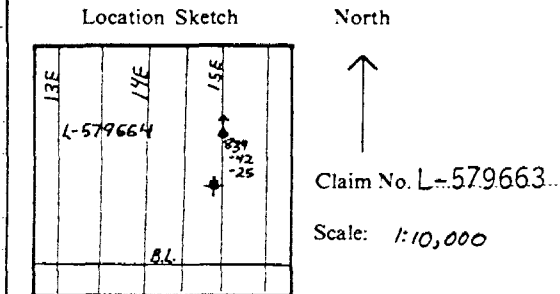
D.D.H. #839-42-23

Scale: 1:1000

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

Hole No. 839-42-25

| | | | |
|----------------------------|---------------------|-----------------------------|--------------------------------|
| Hole No. 839-42-25 Sheet 1 | Length 135.0 metres | Commenced November 22, 1981 | Dip: Collar -50° |
| Property 839-42 | Bearing Grid North | Completed November 25, 1981 | Etch Test Depth Rdg. True |
| Township Holloway | Dip -50 | Drilling Co. St. Lambert | 1 135.0m 53° 45° |
| Location L 1500E, 170N | Objective | Core Size BQ | Casing Left/ Lost in Hole none |
| Logged By B. Benoit | | | |
| Core Location Perry Lake | | | |



Remarks

| Footage Metres | |
|----------------|--------|
| From | To |
| 0 | 37.00 |
| 37.00 | 53.21 |
| 53.21 | 71.40 |
| 71.40 | 75.97 |
| 75.97 | 78.25 |
| 78.25 | 81.00 |
| 81.00 | 99.56 |
| 99.56 | 100.42 |
| 100.42 | 110.81 |
| 110.81 | 120.82 |
| 120.82 | 128.62 |
| 128.62 | 130.80 |
| 130.80 | 135.00 |
| | 135.00 |

| Footage Metres | | DESCRIPTION |
|----------------|--------|----------------------------------|
| From | To | |
| 0 | 37.00 | OVERBURDEN |
| 37.00 | 53.21 | FELSIC TUFF (FAULT ZONE) |
| 53.21 | 71.40 | INTERCALATED MAFIC TUFF AND FLOW |
| 71.40 | 75.97 | INTERMEDIATE ASH TUFF |
| 75.97 | 78.25 | FELSIC TUFF |
| 78.25 | 81.00 | SPINIFEX REMNANT ULTRAMAFICS |
| 81.00 | 99.56 | FELSIC TUFF |
| 99.56 | 100.42 | SPINIFEX |
| 100.42 | 110.81 | MAFIC TUFF |
| 110.81 | 120.82 | SEDIMENTS |
| 120.82 | 128.62 | FELSIC TUFF |
| 128.62 | 130.80 | TUFF BRECCIA |
| 130.80 | 135.00 | INTERMEDIATE TUFF |
| | 135.00 | END OF HOLE |

Benoit

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

Hole No. 839-42-25
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 0 | 37.00 | OVERBURDEN |
| 37.00 | 53.21 | FELSIC TUFF (FAULT ZONE) |
| | | light greyish green in colour, fine grained, moderately hard in some areas, core is very weathered, these weathered sections are rusty brown in colour, broken up and rubbled. |
| | | Core is also softer where it is weathered. Core is very carbonatized and is highly reactive to acid. Core contains some quartz breccia zones. Sulphide content very low, 1% to 2% pyrite in core. Core is also sericitized, and crenulated. fuchsite is present in some areas. |
| | | 37.00 to 37.30 Weathered core, rusty brown colour. |
| | | 38.75 to 41.35 Weathered core, rusty brown in colour, broken and rubbled. |
| | | 41.35 to 41.91 Quartz breccia, very sericitic, harder and some of the core is weathered. |
| | | 41.91 to 50.81 Weathered core, rusty brown in colour, broken and rubbled. Core is very carbonatized. Core is soft due to weathering. Some of the core is a soft mud. |
| | | 45.93 to 46.14 Missing core |
| | | 44.75 to 45.00 Missing core |
| 53.21 | 71.40 | INTERCALATED MAFIC TUFFS AND FLOWS |
| | | Light grey to green in colour, fine grained, carbonatized. Core contains many quartz veins, these range from 1mm to 2cm wide. These quartz veins cut the core at all angles. Core contains many small chlorite blebs or spots, these are dark green in colour and rarely exceed 5mm in size. Some of the core is slightly weathered thus bearing a rusty brown colour. Sulphide content 1% to 3% pyrite locally, pyrite is found around the quartz veins. |
| 71.40 | 75.97 | INTERMEDIATE ASH TUFF |
| | | Light grey, fine grained, hard siliceous, slightly carbonatized. |

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

Hole No. 839-42-25
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| | | Contains some small quartz veins, these range from 1mm to 1cm wide, they cut the core at all angles. Some pyrite present 1% found near quartz vein seams. |
| 75.97 | 78.25 | FELSIC TUFF |
| | | Grey green, fine grained, moderately hard where core is weathered. Core contains core at all angles. These veins range from 1mm to 2cm wide. Core is also sericitic and slightly carbonatized. Core is slightly weathered in some areas. The weathered core is rusty brown in colour. Sulphide content is less than 1% disseminated pyrite. |
| | | 76.43 to 76.84 BLACK CHERT Black very hard and very siliceous, contains quartz veins that range from 1mm to 5mm wide, these cut the core at all angles. Pyrite content is less than 1%. |
| 78.25 | 81.00 | SPINIFEX REMNANT ULTRAMAFICS |
| | | Light to olive green, soft, core contains quartz veins that range from 1mm to 2cm wide, these veins are irregular and cut the core at all angles.
Core is slightly carbonatized and sericitic. Sulphide content is less than 1% pyrite. |
| 81.00 | 99.56 | FELSIC TUFF |
| | | Light grey green, fine grained, moderately hard, core contains some quartz veins, these range from 1mm to 1cm wide, they cut the core at all angles. Core is carbonatized in some areas. Core is also sericitic. Core contains fuchsite and is also very weathered in some areas. The weathered sections are rusty brown in colour and core is also broken up. Core contains some cherty sections, these chert sections are very siliceous and hard. Pyrite is present in the core 1% finely disseminated. |

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

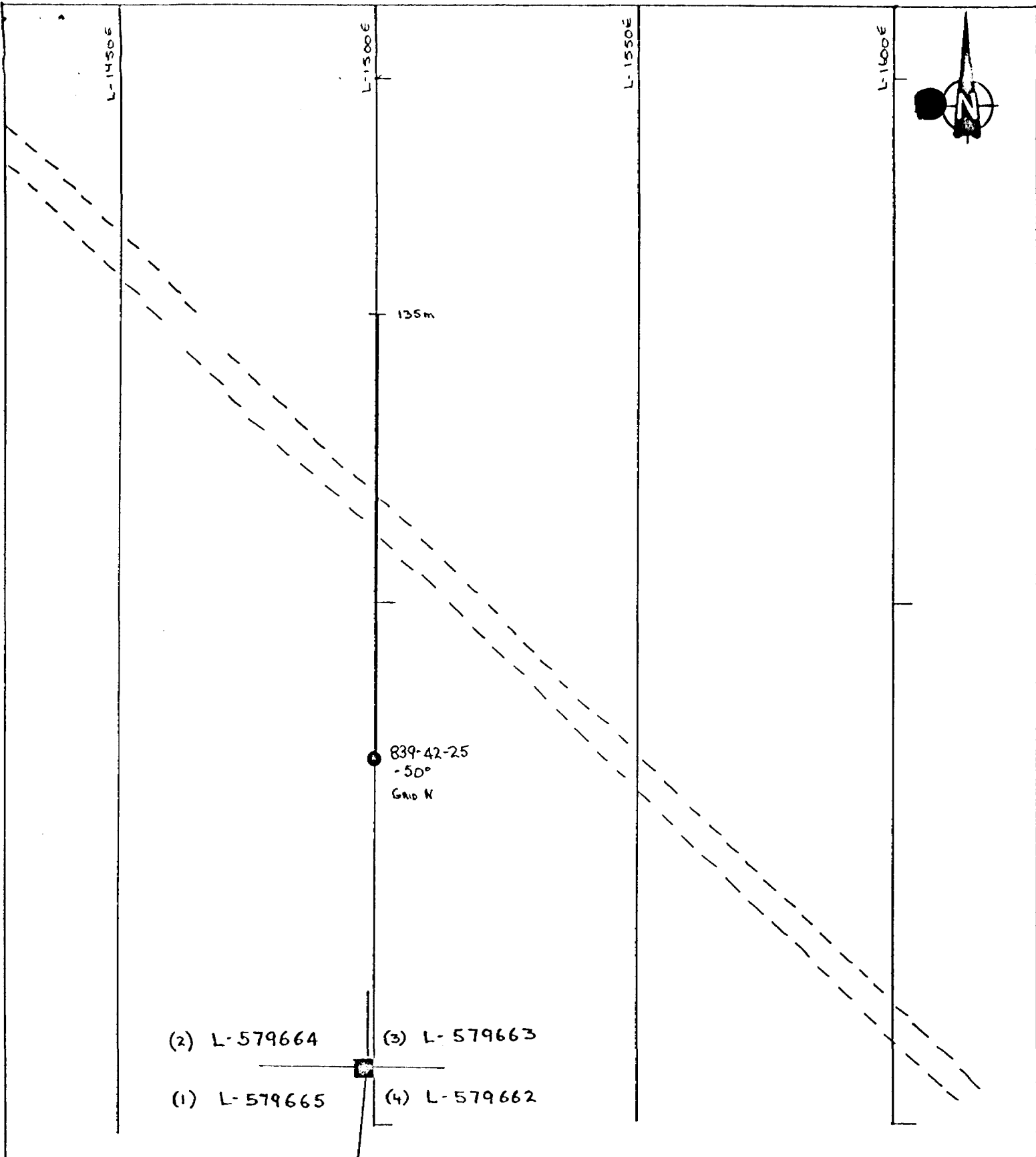
Hole No. 839-42-25
Sheet No. 6

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| | | 85.58 to 85.70 Weathered core → rusty brown, soft |
| | | 86.70 to 87.14 Weathered core → rusty brown, soft, broken up with 1% pyrite. |
| | | 87.62 to 90.00 Weathered core → rusty brown, soft, broken up. |
| | | 88.83 to 89.08 BLACK CHERT → Black, hard, siliceous. Same as 76.43 to 76.84 except chert is also very badly weathered in some areas. |
| | | 90.00 to 90.44 BLACK CHERT → Black, hard, siliceous. Same as 76.43 to 76.84. |
| | | 90.44 to 93.98 Felsic tuff → Core is very crenulated and is a mass of swirls. |
| | | 93.98 to 95.00 Weathered core, rusty brown colour, soft, carbonaceous. |
| 99.56 | 100.42 | SPINIFEX |
| | | Same as 78.25 to 81.00 |
| 100.42 | 110.81 | MAFIC TUFF |
| | | Light grey green, fine grained, moderately hard. Contains many quartz veins that range from 1mm to 3cm wide, these veins cut the core at all angles, they are irregular and crenulated. Core contains some small sections of spinifex and some quartz breccias. |
| | | Core is sericitic and slightly carbonatized. Sulphide content 1% to 2% locally. |
| | | 101.23 to 101.83 Quartz breccia, hard, siliceous, low sulphides, less than 1%. |
| | | 102.45 to 102.70 Quartz breccia, same as 101.23 to 101.83. |
| | | 102.70 to 102.81 Spinifex, smaller same as 78.25 to 81.00. |
| 110.81 | 120.82 | SEDIMENTS - GREYWACKE |
| | | Light to dark grey, hard siliceous, core contains many quartz veins, these range from 1mm to 3cm wide. They cut the core at all angles, they are crenulated and a mass of swirls. The sediments contain fine and coarser grained beds. Beds cut the core at 60° to the core axis. Pyrite is present 1% disseminated and also as small cubes. |

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

Hole No. 839-42-25
 Sheet No. 7

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| | | 120.71 to 121.00 Quartz breccia less than 1% sulphides. |
| 120.82 | 128.62 | FELSIC TUFF |
| | | Grey to green colour, fine grained, moderately hard. Core contains many quartz veins, these range from 1mm to 2cm wide, they cut the core at all angles. Core is slightly carbonatized, core is also sericitic. Core contains some fuchsite. Core contains some weathered sections that are rusty brown in colour. Pyrite is present. |
| | | 126.27 to 127.36 Weathered core rusty brown colour, softer than rest of core. |
| 128.62 | 130.80 | TUFF BRECCIA |
| | | Light grey, hard, siliceous, contains some quartz veins, these range from 1mm to 1cm wide, they cut the core at all angles. Core contains some weathered sections that are rusty brown in colour. Pyrite present less than 1%. |
| 130.80 | 135.00 | INTERMEDIATE TUFF |
| | | Light grey, hard, fine grained and contains some quartz veins. These cut the core at all angles, the range from 1mm to 1cm wide. Core contains a chloritic matrix. Pyrite present less than 1%. |
| | 135.00 | END OF HOLE |



DRILL HOLE LOCATION SKETCH

Project 839

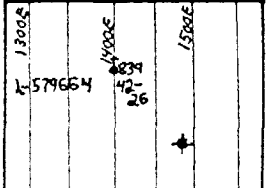
Holloway Township

D.D.H. #839-42-25

Scale: 1:1000

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

Hole No. 839-42-26

| | | | | |
|----------------------------|----------------------|--------------------------------|---------------------------|--|
| Hole No. 839-42-26 Sheet 1 | Length 151.75 metres | Commenced November 26, 1981 | Dip: Collar -50° | Location Sketch
 |
| Property Holloway II | Bearing Grid North | Completed November 29, 1981 | Etch Test Depth Rdg. True | |
| Township Holloway | Dip -50° | Drilling Co. St. Lambert | 1 151.75m | |
| Location L 1400E, 200N | Objective | Core Size BQ | | |
| Logged By B. Benoit | | Casing Left/ Lost in Hole none | | |
| Core Location Perry Lake | | | | |

Claim No. L-579664

Scale: 1:10,000

Remarks

| Footage Metres | | DESCRIPTION |
|----------------|--------|-----------------------|
| From | To | |
| 0 | 16.40 | OVERBURDEN |
| 16.40 | 34.39 | TALC CHLORITE SCHIST |
| 34.39 | 72.75 | MAFIC TUFF |
| 72.75 | 79.69 | INTERMEDIATE ASH TUFF |
| 79.69 | 82.46 | BLACK CHERT |
| 82.46 | 119.49 | FELSIC TUFF |
| 119.49 | 120.47 | BLACK CHERT |
| 120.47 | 143.00 | INTERMEDIATE TUFF |
| 143.00 | 151.75 | MAFIC TUFF BRECCIA |
| | 151.75 | END OF HOLE |

R. Benoit

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

Hole No. 839-42-26
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|-------|---|
| From | To | |
| 0 | 16.40 | OVERBURDEN

sand, gravel |
| 16.40 | 34.39 | TALC CHLORITE SCHIST

Dark green, soft, core is very chloritic, has a greasy feel. Core is carbonatized. Core contains many quartz veins. These veins cut the core at all angles, they are irregular and are a mass of swirls. These veins range from 1mm to 5cm wide. Some pyrite is present 1%.

29.15 to 29.68 Quartz breccia, very hard and very siliceous, less than 1% pyrite. |
| 34.39 | 72.75 | MAFIC TUFF

Dark green, moderately hard, fine grained and contains some quartz veins, these range from 1mm to 1cm wide, they cut the core at all angles, Pyrite present less than 1%.

38.60 to 39.57 ^{Pyrite} Basalt green, moderately hard, fine grained, contains some quartz veins that range from 1mm to 1cm. These veins cut the core at all angles. Pyrite less than 1%.

59.22 to 59.76 Weathered core, softer, rusty brown colour.
66.30 to 66.43 Quartz breccia hard very siliceous, slightly weathered
69.29 to 69.49 Weathered section, rusty brown colour, softer.
70.54 to 70.93 Quartz breccia, hard, siliceous. |
| 72.75 | 79.69 | INTERMEDIATE ASH TUFF

Grey, moderately hard, fine grained. Contains some quartz veins, these range from 1mm to 1cm wide, these cut the core at all angles. Core is slightly carbonatized. Low sulphide content, 1% or less disseminated pyrite present. |

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

Hole No. 839-42-26
Sheet No. 5

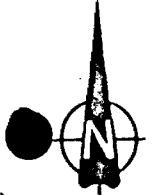
| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| 79.69 | 82.46 | BLACK CHERT |
| | | Black, very hard, very siliceous. Contains many quartz veins, these range from 1mm to 3cm wide, they cut the core at all angles. Pyrite present 1% to 2% disseminated pyrite. |
| | | 80.19 to 80.37 Quartz breccia, very hard, very siliceous, less than 1% sulphide. |
| | | 80.51 to 80.71 Quartz breccia, same as 80.19 to 80.37. |
| | | 81.62 to 81.92 Quartz breccia, slightly weathered, rusty brown colour. |
| | | 82.67 to 82.86 Quartz breccia, siliceous, hard. |
| 82.46 | 119.49 | FELSIC TUFF |
| | | Light grey green, fine grained, moderately hard. Core is sericitic and carbonatized. Core also contains some chlorite. Core is also siliceous in some areas. Core contains quartz veins that range from 1mm to 3cm wide. These veins are irregular and cut the core at all angles. Core contains some fuchsite. Core also contains some weathered sections. Sulphide content 1% to 7% disseminated and cubic pyrite found locally near quartz vein seams. |
| | | 99.97 to 100.12 Weathered section, rusty brown colour, softer. |
| | | 101.0 to 101.33 Weathered section, same as 99.97 to 100.12. |
| | | 101.52 to 101.6 Black chert, black very hard, siliceous, some quartz cut through the core, these range from 1mm to 2mm wide. |
| | | 109.74 to 109.91 Weathered section, rusty brown soft |
| 119.49 | 120.47 | BLACK CHERT |
| | | Black, very hard, siliceous. Contains quartz veins that range from 1mm to 5mm wide, these are irregular and cut the core at all angles. Sulphide content, less than 1% disseminated pyrite. |
| 120.47 | 143.00 | INTERMEDIATE TUFF |
| | | Light grey, green colour, moderately hard, sericitic, carbonatized. |

L-1250E

L-1300E

L-1350E

L-1400E



151.75 m

839-42-26
-50°
GRID N

88 m. S

92 m. to # 2
L-579664 part

DRILL HOLE LOCATION SKETCH

Project 839

L-579664 Holloway Township

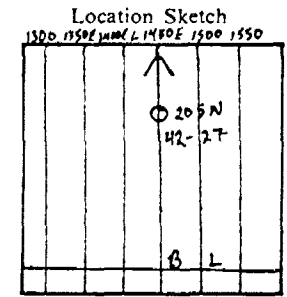
D.D.H. #839-42-26

Scale: 1:1000

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

Hole No. 839-42-27

| | | | |
|----------------------------|---------------------|-----------------------------|---|
| Hole No. 839-42-27 Sheet 1 | Length 153.0 metres | Commenced November 30, 1981 | Dip: Collar -50° |
| Property Holloway -2 | Bearing Grid North | Completed December 3, 1981 | Ech Test Depth Rdg. True |
| Township Holloway | Dip -50° | Drilling Co. St. Lambert | 1 141.0m 50° 44° |
| Location L 1450E, 205N | Objective | Core Size BQ | Casing Left/ Lost in Hole none |
| Logged By B. Benoit | | | |
| Core Location Perry Lake | | | |



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

Remarks

| Footage Metres | | DESCRIPTION |
|----------------|--------|-----------------------|
| From | To | |
| 0 | 16.75 | OVERBURDEN |
| 16.75 | 26.75 | MAFIC LAPILLI TUFF |
| 26.75 | 30.65 | INTERMEDIATE ASH TUFF |
| 30.65 | 39.91 | MAFIC TUFF |
| 39.91 | 51.10 | FELSIC TUFF |
| 51.10 | 78.00 | MAFIC TUFF |
| 78.00 | 81.46 | INTERMEDIATE ASH TUFF |
| 81.46 | 108.78 | FELSIC TUFF |
| 108.78 | 114.24 | GREEN CARBONATE ROCK |
| 114.24 | 128.00 | MAFIC TUFF |
| 128.00 | 132.38 | GREEN CARBONATE ROCK |
| 132.38 | 151.00 | FELSIC TUFF |
| 151.00 | 153.00 | TALC CHLORITE SCHIST |
| | 153.00 | END OF HOLE |

Robert Benoit

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

Hole No. 839-42-27
Sheet No. 4

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| 0 | 16.75 | OVERBURDEN

sand, gravel |
| 16.75 | 26.75 | MAFIC LAPILLI TUFF

Light grey, green, moderately hard, slightly sericitic, moderately carbonatized. Core contains many quartz veins. These range from 1mm to 3cm wide. The veins are irregular and crenulated and cut the core at all angles. Core also contains some weathered sections that are rusty brown in colour. Sulphide content 1% disseminated pyrite, some small pyrite cubes also present. |
| | | 16.80 to 16.95 Quartz breccia, very hard siliceous rock and less than 1% pyrite. |
| | | 17.61 to 17.83 Quartz breccia, same as 16.80 to 16.95. |
| | | 19.02 to 19.12 Quartz breccia, same as 16.80 to 16.95. |
| | | 21.81 to 22.08 Intermediate ash tuff band, grey moderately hard, and has some small quartz veins present. These range from 1mm to 5mm wide. These are irregular crenulated and cut the core at all angles. Core is highly carbonatized. Pyrite is present 1% disseminated and also found as small cubes. |
| | | 22.26 to 22.47 Weathered core, rusty brown. |
| 26.75 | 30.65 | INTERMEDIATE ASH TUFF

Light grey green, moderately hard, core is slightly sericitic and carbonatized. Core contains some quartz veins that range from 1mm to 1cm wide. These cut the core at all angles. Core also contains weathered sections. These are rusty brown in colour. Sulphide content, 1% to 2% finely disseminated pyrite, found near quartz veins seams and in quartz breccia. |
| | | 26.16 to 26.30 Quartz breccia, slightly weathered, rusty brown colour. Hard, 1% to 2% sulphides, disseminated pyrite. |
| | | 26.67 to 26.88 Weathered section, carbonatized, softer, rusty brown colour. |

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

Hole No. 839-42-27
Sheet No. 5

| Footage - Metres | | DESCRIPTION |
|------------------|-------|--|
| From | To | |
| | | 27.00 to 27.20 Quartz breccia, chloritic, carbonatized, hard, 1% to 2% sulphides, disseminated pyrite. |
| | | 27.91 to 28.10 Quartz breccia, chloritic, carbonatized, hard, 1% pyrite. |
| | | 30.65 to 30.85 Weathered section, soft, carbonatized, rusty brown colour. |
| 30.65 | 39.91 | MAFIC TUFF |
| | | Light to dark green, moderately hard, chloritic, carbonatized. Core contains small dark chloritic blebs or spots. Core also contains quartz veins that range from 1mm to 6cm wide. These are irregular and cut the core at all angles. Core also is weathered in some areas. Weathered sections are softer and are rusty brown in colour. Core also contains some sulphides. 1% to 2% finely disseminated pyrite found in spots or splashes. |
| | | 32.00 to 32.38 Weathered section, rusty brown, soft, carbonatized. |
| | | 36.43 to 36.76 Weathered core, same as 32.00 to 32.38. |
| 39.91 | 51.10 | FELSIC TUFF |
| | | Light grey, moderately hard. Slightly sericitic and carbonatized. Very siliceous, core contains quartz veins that range from 1mm to 2cm wide. These veins cut the core at all angles, most of the veins are irregular and crenulated. Core also contains weathered sections that are rusty brown. Pyrite is present 1% to 5% finely disseminated and is found near the crenulated quartz vein seams. Pyrite cubes are present also. |
| | | 45.17 to 45.41 Weathered out graphite band. Core is broken up and rubbly. |
| | | 46.17 to 46.56 Weathered core, rusty brown colour, soft, carbonatized |
| | | 48.25 to 48.45 Weathered core, same as 46.17 to 46.56. |

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

Hole No. 839-42-27
Sheet No. 6

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| 51.10 | 78.00 | MAFIC TUFF

Dark green, moderately hard, chloritic, carbonatized, slightly weathered sections that are a rusty brown colour. Core is mottled & contains small dark chloritic spots or blebs. Core contains quartz veins that range from 1mm to 6cm wide. These are irregular and cut the core at all angles. Some of these quartz veins are pink. Sulphides are present 1% disseminated pyrite. |
| | | 53.12 to 53.21 Weathered core rusty brown, soft. |
| 78.00 | 81.46 | INTERMEDIATE ASH TUFF

Light grey, moderately hard. Contains some quartz veins. These are irregular and cut the core at all angles. Pyrite present, less than 1% disseminated pyrite. |
| 81.46 | 108.78 | FELSIC TUFF

Light grey green, hard, siliceous. Core chloritic, sericitic and slightly carbonatized. Core contains many quartz veins that range from 1mm to 5cm wide. These are irregular and cut the core at all angles. Many quartz veins are swirled and crenulated. Core also contains some quartz breccia sections and black chert bands. Sulphide content is not very high 1% to 2% finely disseminated pyrite. |
| | | 81.71 to 82.84 Black chert, black, very hard, very siliceous, contains some quartz veins that are broken up and irregular. They cut the core at all angles. Slightly sericitic. Pyrite is present less than 1% disseminated pyrite. |
| | | 88.11 to 88.34 Quartz breccia, white, very hard, siliceous, has some chlorite and sericite present less than 1% pyrite. |
| | | 91.59 to 94.17 Black chert, same as 81.41 to 82.84. |
| | | 95.09 to 95.78 Black chert, same as 81.71 to 82.84. |
| | | 96.03 to 96.19 Black chert, same as 81.71 to 82.84. |

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

Hole No. 839-42-27
Sheet No. 7

| Footage - Metres | | DESCRIPTION |
|------------------|--------|--|
| From | To | |
| | | 106.86 to 107.22 Black chert, black, very hard, siliceous. Chert is also weathered thus having a rusty brown colour and is softer. |
| | | 97.54 to 98.12 Quartz breccia, white, very hard, contains chlorite and sericite, has less than 1% disseminated pyrite. |
| | | 98.85 to 99.10 Quartz breccia same as 97.50 to 98.12. |
| | | 99.16 to 99.55 Weathered sections, broken up core, soft, rusty brown colour. |
| | | 100.30 to 100.92 Weathered core, rusty brown colour, soft. |
| | | 108.00 to 108.78 Quartz breccia, white, very hard, siliceous, weathered sericite is present. Slightly sericitic and chloritic. |
| 108.78 | 114.21 | GREEN CARBONATE ROCK |
| | | Green, hard, siliceous, slightly carbonatized and sericitic. Contains fuchsite and epidote. Core contains many quartz fragments and quartz veins. These range from 1mm to 5cm wide these are very irregular and crenulated. Core is also slightly chloritic. Core also contains less than 1% sulphides, disseminated pyrite, rock is very altered. |
| 114.21 | 128.00 | MAFIC TUFF |
| | | Light grey green, hard, slightly sericitic, chloritic, and carbonatized. Tuff is very altered with zone of brecciation and green carbonate rock. Fuchsite and epidote is present. Core contains many quartz veins that range from 1mm to 3cm wide. These veins are irregular, crenulated and cut the core at all angles. Pyrite is present 1% disseminated pyrite found near broken quartz vein seams. |
| | | 119.29 to 120.80 Quartz breccia, very hard siliceous, contains fuchsite, epidote and sericite. Less than 1% pyrite. |

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

Hole No. 839-42-27
Sheet No. 8

| Footage - Metres | | DESCRIPTION |
|------------------|--------|---|
| From | To | |
| 128.00 | 132.38 | GREEN CARBONATE ROCK |
| | | Light green, moderately hard, contains fuchsite, epidote and chlorite. Core also contains many quartz veins. These range from 1mm to 3cm wide. These veins are irregular and cut the core at all angles. Core contains small quartz breccia sections. These are small and do not contain a very high input of sulphides. Sulphide content less than 1% disseminated pyrite. |
| | | 128.42 to 128.51 Quartz breccia zone, very siliceous, very hard, less than 1% disseminated pyrite. |
| | | 128.65 to 128.81 Quartz breccia, same as 128.42 to 128.51. |
| 132.38 | 151.00 | FELSIC TUFF |
| | | Light to dark grey, very hard, very siliceous, slightly sericitic and chloritic. Core contains many quartz veins that range from 1mm to 5cm wide. These are irregular and cut the core at all angles. Core contains some weathered sections, rusty brown colour. Sulphide content 1% to 2% disseminated pyrite. |
| | | 132.38 to 133.90 Mafic tuff breccia band, light to olive green, moderately hard chloritic and sericitic matrix. Less than 1% sulphides. Contains some small irregular quartz veins. |
| | | 134.85 to 135.10 Weathered quartz breccia, rusty brown soft. |
| | | 138.14 to 138.66 Quartz breccia, light grey, very hard, very siliceous less than 1% sulphides. |
| 151.00 | 153.00 | TALC CHLORITE SCHIST |
| | | Dark green, soft, greasy feel, chloritic, carbonatized and contains some quartz seams 1mm to 4cm wide. These are irregular and cuts the core at all angles. Less than 1% sulphides. |
| | 153.00 | END OF HOLE |

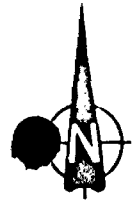
L-1450 E

153 m

L-1500 E

L-1550 E

L-1600 E



● 839-42-27
-50°
Gris N

(2) L-579664

(3) L-579663

(1) L-579665

(4) L-579662

DRILL HOLE LOCATION SKETCH

Project 839

Holloway Township

D.D.H. #839-42-27

Scale: 1:1000